

| FDE #        | FDE Name                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                                           | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |
|--------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| 5.1          | Organisation of Information Security (OIS)    | Objective: Plan, implement, maintain and continuously improve the information security framework within the organisation.                                                                                                                                                                                                                                                                 | Functional     | No Relationship   | N/A                                                                   | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                        |       |              |
| OIS-01.01B   | Information Security Management System (ISMS) | The cloud service provider maintains an ISO/IEC 27001-compliant information security management system (ISMS). The scope of the ISMS covers the cloud service provider's organisational units, locations, zones, regions and procedures relevant to the development and operation of the cloud service.                                                                                   | Functional     | Intersects With   | Security, Compliance & Resilience Program (SCRP)                      | GOV-02   | Mechanisms exist to facilitate the design, implementation, and monitoring of security, compliance and resilience governance controls.                                                                                                                                                                                                                                                                                                                                                                                                                    | 8                        |       | GOV-01       |
| OIS-01.01B   | Information Security Management System (ISMS) | The cloud service provider maintains an ISO/IEC 27001-compliant information security management system (ISMS). The scope of the ISMS covers the cloud service provider's organisational units, locations, zones, regions and procedures relevant to the development and operation of the cloud service.                                                                                   | Functional     | Intersects With   | Secure Practices Alignment Justification                              | GOV-03.1 | Mechanisms exist to align the organization's Security, Compliance & Resilience Program (SCRP) with one or more industry-recognized frameworks that:<br>(1) Support external scrutiny; and<br>(2) Provide defensible justification for secure                                                                                                                                                                                                                                                                                                             | 5                        |       | GOV-01.4     |
| OIS-01.02B   | Information Security Management System (ISMS) | The measures for setting up, implementing, maintaining and continuously improving the ISMS are documented. The documentation includes:                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation            | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | GOV-02       |
| OIS-01.02B   | Information Security Management System (ISMS) | The measures for setting up, implementing, maintaining and continuously improving the ISMS are documented. The documentation includes:                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Applied Security, Compliance and Resilience Controls Documentation    | IAO-09   | Mechanisms exist to generate authoritative documentation (e.g., System Security Plan (SSP)) that:<br>(1) Identifies key architectural and implementation information on in-scope Technology Assets, Applications and/or Services (TAAS);<br>(2) Reflects the current state of applied security, compliance and resilience controls on applicable People, Processes, Technologies, Data and/or Facilities (PPTDF) that are contained within the system boundary; and<br>(3) Provides a historical record of applied security controls, including changes. | 5                        |       | IAO-03       |
| OIS-01.02B.1 | Information Security Management System (ISMS) | Context of the cloud service provider;                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Defining Business Context & Mission                                   | GOV-06   | Mechanisms exist to document the organization's business model and mission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | GOV-08       |
| OIS-01.02B.2 | Information Security Management System (ISMS) | Scope of the ISMS (section 4.3 of ISO/IEC 27001);                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Applied Security, Compliance and Resilience Controls Documentation    | IAO-09   | Mechanisms exist to generate authoritative documentation (e.g., System Security Plan (SSP)) that:<br>(1) Identifies key architectural and implementation information on in-scope Technology Assets, Applications and/or Services (TAAS);<br>(2) Reflects the current state of applied security, compliance and resilience controls on applicable People, Processes, Technologies, Data and/or Facilities (PPTDF) that are contained within the system boundary; and<br>(3) Provides a historical record of applied security controls, including changes. | 5                        |       | IAO-03       |
| OIS-01.02B.3 | Information Security Management System (ISMS) | Statement of applicability (section 6.1.3 of ISO/IEC 27001);                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Select Controls                                                       | GOV-11.1 | Mechanisms exist to compel data and/or process owners to select required security, compliance and resilience controls for Technology Assets, Applications, Services and/or Data (TAASD) under their control.                                                                                                                                                                                                                                                                                                                                             | 5                        |       | GOV-15.1     |
| OIS-01.02B.4 | Information Security Management System (ISMS) | Overview of how activities in the ISMS cover the cloud service;                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Security, Compliance & Resilience Program (SCRP)                      | GOV-02   | Mechanisms exist to facilitate the design, implementation, and monitoring of security, compliance and resilience governance controls.                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | GOV-01       |
| OIS-01.02B.5 | Information Security Management System (ISMS) | Description of how the cloud service provider maintains and improves the cloud service's security; and                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and                                                                                                                                                                                                                                                                                                                 | 5                        |       | GOV-03       |
| OIS-01.02B.6 | Information Security Management System (ISMS) | Results of the last management review (section 9.3 of ISO/IEC 27001).                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Status Reporting To Governing Body                                    | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRP).                                                                                                                                                                                                                                                                                                                           | 5                        |       | GOV-01.2     |
| OIS-01.03B   | Information Security Management System (ISMS) | Additionally, the cloud service provider documents the scope and boundaries of the cloud service under its operational control, including any exclusions or shared-responsibility areas.                                                                                                                                                                                                  | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                                  | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                                                                                                                                         | 5                        |       | CLD-06.1     |
| OIS-01.03B   | Information Security Management System (ISMS) | Additionally, the cloud service provider documents the scope and boundaries of the cloud service under its operational control, including any exclusions or shared-responsibility areas.                                                                                                                                                                                                  | Functional     | Intersects With   | Compliance Scope                                                      | CPL-03   | Mechanisms exist to document and validate the scope of security, compliance and resilience controls that are determined to meet statutory, regulatory and/or contractual compliance                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | CPL-01.2     |
| OIS-01.03B   | Information Security Management System (ISMS) | Additionally, the cloud service provider documents the scope and boundaries of the cloud service under its operational control, including any exclusions or shared-responsibility areas.                                                                                                                                                                                                  | Functional     | Intersects With   | Applied Security, Compliance and Resilience Controls Documentation    | IAO-09   | Mechanisms exist to generate authoritative documentation (e.g., System Security Plan (SSP)) that:<br>(1) Identifies key architectural and implementation information on in-scope Technology Assets, Applications and/or Services (TAAS);<br>(2) Reflects the current state of applied security, compliance and resilience controls on applicable People, Processes, Technologies, Data and/or Facilities (PPTDF) that are contained within the system boundary; and<br>(3) Provides a historical record of applied security controls, including changes. | 5                        |       | IAO-03       |
| OIS-01.01AS  | Information Security Management System (ISMS) | OIS-01.01AS, sharpening OIS-01.01B<br>The Information Security Management System (ISMS) has a valid certification according to ISO/IEC 27001 or ISO 27001 based on BSI IT-Grundschutz. The scope of the certification covers the cloud service provider's organisational units, locations, zones, regions, and procedures relevant to the development and operation of the cloud service. | Functional     | Intersects With   | Compliance Scope                                                      | CPL-03   | Mechanisms exist to document and validate the scope of security, compliance and resilience controls that are determined to meet statutory, regulatory and/or contractual compliance obligations.                                                                                                                                                                                                                                                                                                                                                         | 5                        |       | CPL-01.2     |
| OIS-01.01AS  | Information Security Management System (ISMS) | OIS-01.01AS, sharpening OIS-01.01B<br>The Information Security Management System (ISMS) has a valid certification according to ISO/IEC 27001 or ISO 27001 based on BSI IT-Grundschutz. The scope of the certification covers the cloud service provider's organisational units, locations, zones, regions, and procedures relevant to the development and operation of the cloud service. | Functional     | Intersects With   | Statement of Applicability (SOA)                                      | CPL-25   | Mechanisms exist to produce a Statement of Applicability (SOA), or similar document, for compliance-related scoping activities.                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | CPL-12       |
| OIS-01.01AS  | Information Security Management System (ISMS) | OIS-01.01AS, sharpening OIS-01.01B<br>The Information Security Management System (ISMS) has a valid certification according to ISO/IEC 27001 or ISO 27001 based on BSI IT-Grundschutz. The scope of the certification covers the cloud service provider's organisational units, locations, zones, regions, and procedures relevant to the development and operation of the cloud service. | Functional     | Intersects With   | Secure Practices Alignment Justification                              | GOV-03.1 | Mechanisms exist to align the organization's Security, Compliance & Resilience Program (SCRP) with one or more industry-recognized frameworks that:<br>(1) Support external scrutiny; and<br>(2) Provide defensible justification for secure practices.                                                                                                                                                                                                                                                                                                  | 3                        |       | GOV-01.4     |
| OIS-01.01AS  | Information Security Management System (ISMS) | OIS-01.01AS, sharpening OIS-01.01B<br>The Information Security Management System (ISMS) has a valid certification according to ISO/IEC 27001 or ISO 27001 based on BSI IT-Grundschutz. The scope of the certification covers the cloud service provider's organisational units, locations, zones, regions, and procedures relevant to the development and operation of the cloud service. | Functional     | Intersects With   | Third-Party Attestation (3PA)                                         | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors.                                                                                                                                                                                                                | 8                        |       | TPM-05.8     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
| FDE #                                                                                               | FDE Name                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |
| OIS-01.01AC                                                                                         | Information Security Management System (ISMS) | Existing valid certifications according to ISO/IEC 27001 are issued and recognised by an accredited certification body.                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Third-Party Attestation (3PA)                                                                                                                              | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors.                                                                                                                | 8                        |       | TPM-05.8     |
| OIS-02.01B                                                                                          | Information Security Policy                   | Top management of the cloud service provider has adopted an information security policy.                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience Governance Policy                                                                                                        | GOV-01   | Mechanisms exist to establish a formal, documented security, compliance and resilience governance policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and<br>(4) Is updated, as necessary, to adapt to evolving risks, threats and other changes that affect the organization.                                                             | 8                        |       |              |
| OIS-02.01B                                                                                          | Information Security Policy                   | Top management of the cloud service provider has adopted an information security policy.                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Subset Of         | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                   | 10                       |       | GOV-02       |
| OIS-02.02B                                                                                          | Information Security Policy                   | Top management of the cloud service provider has communicated the information security policy to internal and external personnel as well as cloud service customers.                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                   | 8                        |       | GOV-02       |
| OIS-02.03B                                                                                          | Information Security Policy                   | The information security policy describes:                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Subset Of         | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                   | 10                       |       | GOV-02       |
| OIS-02.03B.1                                                                                        | Information Security Policy                   | The importance of information security, based on the requirements of cloud service customers in relation to information security;                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Subset Of         | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                   | 10                       |       | GOV-02       |
| OIS-02.03B.2                                                                                        | Information Security Policy                   | The security objectives and the desired security level, based on the business goals and activities as well as compliance obligations of the cloud service provider;                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Control Objectives                                                                                                                                         | GOV-03.3 | Mechanisms exist to establish control objectives as the basis for the design, selection, implementation and management of the organization's internal security, compliance and resilience control system.                                                                                                                                                                                                                                                | 5                        |       | GOV-09       |
| OIS-02.03B.3                                                                                        | Information Security Policy                   | The cloud service provider's commitment to implement the necessary security measures for fulfilling the established security objectives;                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Business As Usual (BAU) Security, Compliance & Resilience Practices                                                                                        | GOV-10   | Mechanisms exist to incorporate security, compliance and resilience principles into Business As Usual (BAU) practices through executive leadership involvement.                                                                                                                                                                                                                                                                                          | 8                        |       | PRM-01       |
| OIS-02.03B.3                                                                                        | Information Security Policy                   | The cloud service provider's commitment to implement the necessary security measures for fulfilling the established security objectives;                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience Protection Portfolio Management                                                                                          | PRM-04   | Mechanisms exist to facilitate the implementation of resource planning controls that provide a portfolio management approach to achieve security, compliance and resilience objectives.                                                                                                                                                                                                                                                                  | 8                        |       | GOV-14       |
| OIS-02.03B.4                                                                                        | Information Security Policy                   | The most important aspects of the security strategy to achieve the security objectives set; and                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Strategic Plan & Objectives                                                                                                                                | PRM-02   | Mechanisms exist to establish a:<br>(1) Strategic security, compliance and resilience-specific business plan; and<br>(2) Set of objectives to achieve that plan.                                                                                                                                                                                                                                                                                         | 5                        |       | PRM-01.1     |
| OIS-02.03B.5                                                                                        | Information Security Policy                   | The organisational structure for information security in the scope of the ISMS.                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Assigned Security, Compliance & Resilience Responsibilities                                                                                                | GOV-05   | Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide Security, Compliance & Resilience Program (SCRPI).                                                                                                                                                                                                                       | 5                        |       | GOV-04       |
| OIS-02.03B.5                                                                                        | Information Security Policy                   | The organisational structure for information security in the scope of the ISMS.                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Stakeholder Accountability Structure                                                                                                                       | GOV-05.1 | Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for identifying, mapping, measuring and managing Technology Assets, Applications, Services and/or Data (TAASD)-related risks.                                                                                                                                                                                   | 5                        |       | GOV-04.1     |
| OIS-03.01B                                                                                          | Interfaces and Dependencies                   | The cloud service provider establishes, documents, and communicates a Shared Security Responsibility Model (SSRM) to define and manage interfaces and dependencies between cloud service delivery activities performed by the cloud service provider and those performed by cloud service customers.                                                                                                                                                                                                 | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                                                                                                                       | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                                         | 8                        |       | CLD-06.1     |
| OIS-03.02B                                                                                          | Interfaces and Dependencies                   | The SSRM documentation clearly defines the responsibilities between both parties for handling vulnerabilities, security incidents, and incidents. The type and scope of the documentation is geared towards the information requirements of the subject matter experts of the affected organisations in order to carry out the activities appropriately (e.g. definition of roles and responsibilities in guidelines, description of cooperation obligations in service descriptions and contracts). | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                                                                                                                       | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                                         | 5                        |       | CLD-06.1     |
| OIS-03.02B                                                                                          | Interfaces and Dependencies                   | The SSRM documentation clearly defines the responsibilities between both parties for handling vulnerabilities, security incidents, and incidents. The type and scope of the documentation is geared towards the information requirements of the subject matter experts of the affected organisations in order to carry out the activities appropriately (e.g. definition of roles and responsibilities in guidelines, description of cooperation obligations in service descriptions and contracts). | Functional     | Intersects With   | Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix                                                                                  | TPM-11   | Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for security, compliance and resilience controls between internal stakeholders and External Service Providers (ESPs).                                                                                                                                                           | 5                        |       | TPM-05.4     |
| OIS-03.03B                                                                                          | Interfaces and Dependencies                   | The cloud service provider regularly reviews and validates the SSRM documentation in accordance with SP-02 to ensure its accuracy and relevance for all cloud service offerings.                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                                                                                                                       | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                                         | 5                        |       | CLD-06.1     |
| OIS-03.03B                                                                                          | Interfaces and Dependencies                   | The cloud service provider regularly reviews and validates the SSRM documentation in accordance with SP-02 to ensure its accuracy and relevance for all cloud service offerings.                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Third-Party Scope Review                                                                                                                                   | TPM-16   | Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure security, compliance and resilience control assignments accurately reflect current:<br>(1) Contractual obligations for the External Service Provider (ESP);<br>(2) Business practices;<br>(3) Applicable stakeholders; and<br>(4) Deployed Technology Assets, Applications and/or | 5                        |       | TPM-05.5     |
| OIS-03.04B                                                                                          | Interfaces and Dependencies                   | The cloud service provider implements, operates, and reviews the SSRM components for which it is responsible, ensuring adherence to the defined security measures.                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Conformity Monitoring                                                                                                                                      | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                              | 3                        |       | CPL-03       |
| OIS-03.04B                                                                                          | Interfaces and Dependencies                   | The cloud service provider implements, operates, and reviews the SSRM components for which it is responsible, ensuring adherence to the defined security measures.                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Operationalizing Security, Compliance & Resilience Capabilities                                                                                            | GOV-11   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                              | 5                        |       | GOV-15       |
| OIS-03.05B                                                                                          | Interfaces and Dependencies                   | The communication of changes to the SSRM, interfaces and dependencies takes place in a timely manner so that the affected organisations and third parties can react appropriately with organisational and technical measures before the changes take effect.                                                                                                                                                                                                                                         | Functional     | Intersects With   | Stakeholder Notification of Changes                                                                                                                        | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | CHG-05       |
| OIS-04.01B                                                                                          | Segregation of Duties                         | Conflicting tasks and responsibilities are segregated based on a risk assessment in accordance with OIS-07 to reduce the risk of unauthorised or unintended changes or misuse of cloud service customer data, cloud service derived data and cloud service provider data. The risk assessment covers the following areas, insofar as these are applicable to the provision of the cloud service and are in the area of responsibility of the cloud service provider:                                 | Functional     | Intersects With   | Separation of Duties (SoD)                                                                                                                                 | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                     | 8                        |       | HRS-11       |

| FDE #        | FDE Name                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                             | STRM Rationale | STRM Relationship | SCF Control                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
|--------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|----------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| OIS-04.01B   | Segregation of Duties                                         | Conflicting tasks and responsibilities are segregated based on a risk assessment in accordance with OIS-07 to reduce the risk of unauthorised or unintended changes or misuse of cloud service customer data, cloud service derived data and cloud service provider data. The risk assessment covers the following areas, insofar as these are applicable to the provision of the cloud service and are in the area of responsibility of the cloud service provider: | Functional     | Intersects With   | Risk Assessment                  | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | RSK-04       |
| OIS-04.01B.1 | Segregation of Duties                                         | Administration of a role, rights and authorisation framework based on role-based access control and the business and security requirements of the cloud service provider (cf. IAM-01);                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Role-Based Access Control (RBAC) | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | IAC-08       |
| OIS-04.01B.2 | Segregation of Duties                                         | Development, testing and release of changes (cf. DEV-01);                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Change Management Program        | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | CHG-01       |
| OIS-04.01B.2 | Segregation of Duties                                         | Development, testing and release of changes (cf. DEV-01);                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | HRS-11       |
| OIS-04.01B.3 | Segregation of Duties                                         | Risk management (cf. OIS-07); and                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Position Categorization          | HRS-03   | Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling these positions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                        |       | HRS-02       |
| OIS-04.01B.3 | Segregation of Duties                                         | Risk management (cf. OIS-07); and                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | HRS-11       |
| OIS-04.01B.3 | Segregation of Duties                                         | Risk management (cf. OIS-07); and                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Risk Management Program          | RSK-02   | Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls that are aligned with:<br>(1) The organization's Enterprise Risk Management (ERM); and<br>(2) Industry-recognized cybersecurity risk management practices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | RSK-01       |
| OIS-04.01B.4 | Segregation of Duties                                         | Operation of the system components.                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | HRS-11       |
| OIS-04.02B   | Segregation of Duties                                         | Mitigating measures are outlined in the risk treatment plan (cf. OIS-09) and implemented by the cloud service provider in a way that prioritises the segregation of duties.                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | HRS-11       |
| OIS-04.02B   | Segregation of Duties                                         | Mitigating measures are outlined in the risk treatment plan (cf. OIS-09) and implemented by the cloud service provider in a way that prioritises the segregation of duties.                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Risk Treatment Plan (RTP)        | RSK-17.1 | Mechanisms exist to formalize a Risk Treatment Plan (RTP) that applicable stakeholders will utilize to remediate identified risks according to a defined timeline.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | RSK-06.4     |
| OIS-04.03B   | Segregation of Duties                                         | If segregation of duties cannot be implemented due to organisational or technical constraints, the cloud service provider establishes and operates compensating controls to monitor relevant activities. These controls are designed to detect unauthorised or unintended changes, misuse of data, or violations of operational policies, and enable timely and appropriate response actions.                                                                        | Functional     | Intersects With   | Continuous Monitoring            | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | MON-01       |
| OIS-04.03B   | Segregation of Duties                                         | If segregation of duties cannot be implemented due to organisational or technical constraints, the cloud service provider establishes and operates compensating controls to monitor relevant activities. These controls are designed to detect unauthorised or unintended changes, misuse of data, or violations of operational policies, and enable timely and appropriate response actions.                                                                        | Functional     | Intersects With   | Compensating Countermeasures     | RSK-18   | Mechanisms exist to identify and implement one, or more, compensating controls to reduce risk and threat exposure when the primary means of implementing the security function is unavailable or compromised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8                        |       | RSK-06.2     |
| OIS-04.04B   | Segregation of Duties                                         | An inventory consisting of conflicting tasks, responsibilities and resolving measures is established and maintained by the cloud service provider. For the assignment, change or revocation of roles, rights and authorities, the cloud service provider enforces the segregation of duties.                                                                                                                                                                         | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | HRS-11       |
| OIS-04.04B   | Segregation of Duties                                         | An inventory consisting of conflicting tasks, responsibilities and resolving measures is established and maintained by the cloud service provider. For the assignment, change or revocation of roles, rights and authorities, the cloud service provider enforces the segregation of duties.                                                                                                                                                                         | Functional     | Intersects With   | Role-Based Access Control (RBAC) | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | IAC-08       |
| OIS-04.01AC  | Segregation of Duties                                         | To resolve conflicting roles, measures associated with the segregation of duties are monitored and enforced by the cloud service provider.                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Separation of Duties (SoD)       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | HRS-11       |
| OIS-04.01AC  | Segregation of Duties                                         | To resolve conflicting roles, measures associated with the segregation of duties are monitored and enforced by the cloud service provider.                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Continuous Monitoring            | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | MON-01       |
| OIS-04.02AC  | Segregation of Duties                                         | Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Capabilities Deficiency Tracking | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| OIS-05.01B   | Threat Intelligence                                           | The cloud service provider collects information from selected internal and external sources to gain a comprehensive view of the threat landscape that lead to cybersecurity risks.                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Threat Intelligence Program      | THR-02   | Mechanisms exist to implement a threat intelligence program that includes a cross-organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | THR-01       |
| OIS-05.01B   | Threat Intelligence                                           | The cloud service provider collects information from selected internal and external sources to gain a comprehensive view of the threat landscape that lead to cybersecurity risks.                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Threat Intelligence Feeds        | THR-04   | Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                        |       | THR-03       |
| OIS-05.02B   | Threat Intelligence                                           | The collected information is correlated and analysed to identify its potential impact on the cloud service provider's organisation.                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Threat Analysis                  | THR-08   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8                        |       | THR-10       |
| OIS-05.03B   | Threat Intelligence                                           | The cloud service provider integrates threat intelligence insights into its risk management process (cf. OIS-07, OIS-08 and OIS-09).                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Risk Identification              | RSK-09   | Mechanisms exist to identify and document risks, both internal and external.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | RSK-03       |
| OIS-05.03B   | Threat Intelligence                                           | The cloud service provider integrates threat intelligence insights into its risk management process (cf. OIS-07, OIS-08 and OIS-09).                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Threat Intelligence Program      | THR-02   | Mechanisms exist to implement a threat intelligence program that includes a cross-organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | THR-01       |
| OIS-06.01B   | Contact with Relevant Government Agencies and Interest Groups | If the cloud service is used by public sector organisations in Germany, the cloud service provider establishes and maintains contacts with the National IT Situation Centre and the CERT Association of the BSI as appropriate.                                                                                                                                                                                                                                      | Functional     | Intersects With   | Contacts With Authorities        | GOV-15   | Mechanisms exist to identify and document appropriate contacts with relevant law enforcement and regulatory bodies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8                        |       | GOV-06       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                             |                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document:                         |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                             |                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                     |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                    |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                             |                                                                                                                                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                     |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                            |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                    | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                             | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |  |
| OIS-07.01B                                                                                          | Risk Management Policy                                      | Policies and procedures for risk management procedures are documented, communicated and provided in accordance with SP-01. Risk management procedures are based on a methodology for risk assessments. The methodology allows comparability and reproducibility for the following aspects:                                                         | Functional     | Subset Of         | Risk Management Policy                  | RSK-01   | Mechanisms exist to establish a formal, documented risk management policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and<br>(4) Is updated, as necessary, to adapt to evolving                                                                                                            | 10                       |       |              |  |
| OIS-07.01B                                                                                          | Risk Management Policy                                      | Policies and procedures for risk management procedures are documented, communicated and provided in accordance with SP-01. Risk management procedures are based on a methodology for risk assessments. The methodology allows comparability and reproducibility for the following aspects:                                                         | Functional     | Intersects With   | Risk Management Program                 | RSK-02   | Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls that are aligned with:<br>(1) The organization's Enterprise Risk Management (ERM); and<br>(2) Industry-recognized cybersecurity risk management practices.                                                                                                                              | 8                        |       | RSK-01       |  |
| OIS-07.01B                                                                                          | Risk Management Policy                                      | Policies and procedures for risk management procedures are documented, communicated and provided in accordance with SP-01. Risk management procedures are based on a methodology for risk assessments. The methodology allows comparability and reproducibility for the following aspects:                                                         | Functional     | Intersects With   | Risk Assessment Methodology             | RSK-12   | Mechanisms exist to implement a risk assessment methodology to ensure coverage for organizational components relevant for secure, compliant and resilient operations.                                                                                                                                                                                                                                     | 5                        |       | RSK-04.2     |  |
| OIS-07.01B.1                                                                                        | Risk Management Policy                                      | Identification of cybersecurity risks and other risks associated with the loss of confidentiality, integrity, availability and authenticity of information within the scope of the ISMS and assigning risk owners;<br>Analysis of the probability and impact of occurrence and determination of the level of risk;                                 | Functional     | Intersects With   | Risk Identification                     | RSK-09   | Mechanisms exist to identify and document risks, both internal and external.                                                                                                                                                                                                                                                                                                                              | 5                        |       | RSK-03       |  |
| OIS-07.01B.2                                                                                        | Risk Management Policy                                      |                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Risk Assessment                         | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                     | 5                        |       | RSK-04       |  |
| OIS-07.01B.3                                                                                        | Risk Management Policy                                      | Evaluation of the risk assessment based on defined criteria for risk acceptance and prioritisation of risk management;                                                                                                                                                                                                                             | Functional     | Intersects With   | Risk Tolerance                          | RSK-05.1 | Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.                                                                                                                                                                                                                                                                                                      | 5                        |       | RSK-01.3     |  |
| OIS-07.01B.4                                                                                        | Risk Management Policy                                      | Treatment of risks through measures, including approval of authorisation and acceptance of residual risks by risk owners;                                                                                                                                                                                                                          | Functional     | Intersects With   | Risk Treatment Options                  | RSK-16.1 | Mechanisms exist to select appropriate risk treatment options, based on applicable risk assessment findings, including:<br>(1) Mitigating the risk to an acceptable level;<br>(2) Avoiding the risk (e.g., terminating the project);<br>(3) Transferring the risk to a third party (e.g., insurance and service provider); or<br>(4) Accepting the risk.                                                  | 5                        |       | RSK-06.3     |  |
| OIS-07.01B.5                                                                                        | Risk Management Policy                                      | Documentation of the activities implemented to enable consistent, valid and comparable results; and                                                                                                                                                                                                                                                | Functional     | Intersects With   | Risk Register                           | RSK-14   | Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.                                                                                                                                                                                                                                                                                                          | 5                        |       | RSK-04.1     |  |
| OIS-07.01B.6                                                                                        | Risk Management Policy                                      | Evaluation of the risk assessment and the status of risk treatment plans by the level of management responsible for the security of the cloud service.                                                                                                                                                                                             | Functional     | Intersects With   | Risk Assessment Stakeholder Involvement | RSK-13.3 | Mechanisms exist to:<br>(1) Define applicable stakeholders for each risk assessment;<br>(2) Involve identified stakeholders in the risk assessment process; and<br>(3) Provide identified stakeholders with results of the risk assessment, upon completion.                                                                                                                                              | 5                        |       | RSK-04.4     |  |
| OIS-08.01B                                                                                          | Application of the Risk Management Policy - Risk Assessment | The cloud service provider performs the risk management process specified by OIS-07 as needed and at least annually.                                                                                                                                                                                                                               | Functional     | Intersects With   | Risk Assessment                         | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                     | 8                        |       | RSK-04       |  |
| OIS-08.02B                                                                                          | Application of the Risk Management Policy - Risk Assessment | The following aspects are taken into account when identifying risks, insofar as they are applicable to the cloud service provided and are within the area of responsibility of the cloud service provider:                                                                                                                                         | Functional     | Intersects With   | Risk Identification                     | RSK-09   | Mechanisms exist to identify and document risks, both internal and external.                                                                                                                                                                                                                                                                                                                              | 5                        |       | RSK-03       |  |
| OIS-08.02B.1                                                                                        | Application of the Risk Management Policy - Risk Assessment | Processing, storage or transmission of cloud service customer data and cloud service derived data with different protection needs;                                                                                                                                                                                                                 | Functional     | Intersects With   | Risk-Based Security Categorization      | RSK-07   | Mechanisms exist to categorize Technology Assets, Applications, Services and/or Data (TAASD) in accordance with applicable laws, regulations and contractual obligations that:<br>(1) Document the security categorization results (including supporting rationale) in the security plan for systems; and<br>(2) Ensure the security categorization decision is reviewed and approved by the asset owner. | 5                        |       | RSK-02       |  |
| OIS-08.02B.2                                                                                        | Application of the Risk Management Policy - Risk Assessment | Occurrence of vulnerabilities and incidents in technical protective measures for separating shared resources;                                                                                                                                                                                                                                      | Functional     | Intersects With   | Multi-Tenant Environments               | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                 | 5                        |       | CLD-06       |  |
| OIS-08.02B.3                                                                                        | Application of the Risk Management Policy - Risk Assessment | Attacks via access points, including interfaces accessible from public networks and accidentally exposed interfaces;                                                                                                                                                                                                                               | Functional     | Intersects With   | Attack Surface Scope                    | VPM-03   | Mechanisms exist to define and manage the scope for its attack surface management activities.                                                                                                                                                                                                                                                                                                             | 3                        |       | VPM-01.1     |  |
| OIS-08.02B.4                                                                                        | Application of the Risk Management Policy - Risk Assessment | Dependencies on service organisations;                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Supply Chain Risk Assessment (SCRA)     | RSK-21   | Mechanisms exist to periodically assess supply chain risks associated with Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                        | 5                        |       | RSK-09.1     |  |
| OIS-08.02B.5                                                                                        | Application of the Risk Management Policy - Risk Assessment | An encryption and key management risk programme which addresses the risks of unauthorised disclosure, modification, destruction, or information loss of cryptographic keys; and                                                                                                                                                                    | Functional     | Intersects With   | Use of Cryptographic Controls           | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                            | 5                        |       | CRY-01       |  |
| OIS-08.02B.6                                                                                        | Application of the Risk Management Policy - Risk Assessment | Separation of cloud service customers and their data within systems, networks and storage.                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Multi-Tenant Environments               | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                 | 5                        |       | CLD-06       |  |
| OIS-08.03B                                                                                          | Application of the Risk Management Policy - Risk Assessment | Policies and procedures covering risk assessments relevant for the delivery and operation of the cloud service are implemented by the cloud service provider.                                                                                                                                                                                      | Functional     | Intersects With   | Risk Management Program                 | RSK-02   | Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls that are aligned with:<br>(1) The organization's Enterprise Risk Management (ERM); and<br>(2) Industry-recognized cybersecurity risk management practices.                                                                                                                              | 5                        |       | RSK-01       |  |
| OIS-08.04B                                                                                          | Application of the Risk Management Policy - Risk Assessment | The risk assessment's results are provided to relevant internal parties.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Risk Assessment Stakeholder Involvement | RSK-13.3 | Mechanisms exist to:<br>(1) Define applicable stakeholders for each risk assessment;<br>(2) Involve identified stakeholders in the risk assessment process; and<br>(3) Provide identified stakeholders with results of the risk assessment, upon completion.                                                                                                                                              | 5                        |       | RSK-04.4     |  |
| OIS-08.05B                                                                                          | Application of the Risk Management Policy - Risk Assessment | Relevant external parties are provided with information, specific to the parties' purposes, resulting from the risk assessments.                                                                                                                                                                                                                   | Functional     | Intersects With   | Risk Assessment Stakeholder Involvement | RSK-13.3 | Mechanisms exist to:<br>(1) Define applicable stakeholders for each risk assessment;<br>(2) Involve identified stakeholders in the risk assessment process; and<br>(3) Provide identified stakeholders with results of the risk assessment, upon completion.                                                                                                                                              | 3                        |       | RSK-04.4     |  |
| OIS-08.06B                                                                                          | Application of the Risk Management Policy - Risk Assessment | The analysis, evaluation and treatment of risks, including the approval of actions and acceptance of residual risks, is reviewed by the risk owners for adequacy at least annually. In addition, in case of significant changes to the cloud service, a review is carried out focusing on the parts of the risk assessment relevant to the change. | Functional     | Intersects With   | Risk Assessment Update                  | RSK-13.2 | Mechanisms exist to routinely update risk assessments and react accordingly upon identifying new security vulnerabilities, including using outside sources for security vulnerability information.                                                                                                                                                                                                        | 8                        |       | RSK-07       |  |
| OIS-08.01AS                                                                                         | Application of the Risk Management Policy - Risk Assessment | OIS-08.01AS, sharpening OIS-08.01B<br>The cloud service provider performs the risk management process as specified by OIS-07 as needed and at least annually. The evolution of the risks is monitored and the risk assessments are reviewed correspondingly.                                                                                       | Functional     | Intersects With   | Risk Assessment                         | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                     | 5                        |       | RSK-04       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                       |                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document:                                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                      |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                       |                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document URL:                                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                   |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                       |                                                                                                                                                                                                                                                                                                                                           |                |                   | Published STRM URL:                                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                           |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |  |
| OIS-08.01AS                                                                                         | Application of the Risk Management Policy - Risk Assessment           | OIS-08.01AS, sharpening OIS-08.01B<br>The cloud service provider performs the risk management process as specified by OIS-07 as needed and at least annually. The evolution of the risks is monitored and the risk assessments are reviewed correspondingly.                                                                              | Functional     | Intersects With   | Risk Monitoring                                                           | RSK-22   | Mechanisms exist to monitor risk as an integral part of the continuous monitoring strategy, including:<br>(1) The effectiveness of security, compliance and resilience controls;<br>(2) Changes to the organization's risk profile; and<br>(3) Changes to Technology Assets, Applications and/or Services (TAAS) that affect risk.                       | 5                        |       | RSK-11       |  |
| OIS-08.01AC                                                                                         | Application of the Risk Management Policy - Risk Assessment           | The cloud service provider integrates information security risks into a documented Enterprise Risk Management (ERM) programme which addresses the following aspects:                                                                                                                                                                      | Functional     | Intersects With   | Risk Management Program                                                   | RSK-02   | Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls that are aligned with:<br>(1) The organization's Enterprise Risk Management (ERM); and<br>(2) Industry-recognized cybersecurity risk management practices.                                                                             | 8                        |       | RSK-01       |  |
| OIS-08.01AC.1                                                                                       | Application of the Risk Management Policy - Risk Assessment           | Integration of information security risks at the enterprise level to promote information security risk-awareness across the entire organisation;                                                                                                                                                                                          | Functional     | Intersects With   | Risk Management Program                                                   | RSK-02   | Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls that are aligned with:<br>(1) The organization's Enterprise Risk Management (ERM); and<br>(2) Industry-recognized cybersecurity risk management practices.                                                                             | 3                        |       | RSK-01       |  |
| OIS-08.01AC.2                                                                                       | Application of the Risk Management Policy - Risk Assessment           | Leadership awareness and support for identification, analysis and treatment of information security risks to foster continuous improvement; and                                                                                                                                                                                           | Functional     | Intersects With   | Status Reporting To Governing Body                                        | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRp).                                                                                                                           | 3                        |       | GOV-01.2     |  |
| OIS-08.01AC.3                                                                                       | Application of the Risk Management Policy - Risk Assessment           | Consideration of the cloud service provider's strategic objectives when managing risks to align risk treatment with the organisation's goals.                                                                                                                                                                                             | Functional     | Intersects With   | Risk Framing                                                              | RSK-05   | Mechanisms exist to identify:<br>(1) Assumptions affecting risk assessments, risk response and risk monitoring;<br>(2) Constraints affecting risk assessments, risk response and risk monitoring;<br>(3) The organizational risk tolerance; and<br>(4) Priorities, benefits and trade-offs considered by the organization for managing risk.             | 3                        |       | RSK-01.1     |  |
| OIS-08.02AC                                                                                         | Application of the Risk Management Policy - Risk Assessment           | When identifying risks, the cloud service provider also takes into account the detection of unusual and harmful actions of internal threat actors, insofar as it is applicable to the cloud service provided and is within the area of responsibility of the cloud service provider.                                                      | Functional     | Intersects With   | Anomalous Behavior                                                        | MON-16   | Mechanisms exist to utilize User & Entity Behavior Analytics (UEBA) and/or User Activity Monitoring (UAM) solutions to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.                                                                                                                    | 3                        |       | MON-16       |  |
| OIS-08.02AC                                                                                         | Application of the Risk Management Policy - Risk Assessment           | When identifying risks, the cloud service provider also takes into account the detection of unusual and harmful actions of internal threat actors, insofar as it is applicable to the cloud service provided and is within the area of responsibility of the cloud service provider.                                                      | Functional     | Intersects With   | Insider Threat Program                                                    | THR-15   | Mechanisms exist to implement an insider threat program that includes a cross-discipline insider threat incident handling team.                                                                                                                                                                                                                          | 5                        |       | THR-04       |  |
| OIS-09.01B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | The risk treatment is prioritised corresponding to the level of cybersecurity risks associated with the cloud service.                                                                                                                                                                                                                    | Functional     | Intersects With   | Risk Remediation                                                          | RSK-17   | Mechanisms exist to remediate risks to an acceptable level.                                                                                                                                                                                                                                                                                              | 5                        |       | RSK-06       |  |
| OIS-09.02B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | A risk treatment plan according to the risk assessment (cf. OIS-08) is documented and implemented.                                                                                                                                                                                                                                        | Functional     | Intersects With   | Risk Treatment Plan (RTP)                                                 | RSK-17.1 | Mechanisms exist to formalize a Risk Treatment Plan (RTP) that applicable stakeholders will utilize to remediate identified risks according to a defined timeline.                                                                                                                                                                                       | 8                        |       | RSK-06.4     |  |
| OIS-09.03B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | Actions defined in the risk treatment plan reduce the risk level to a residual risk that risk owners are able to accept.                                                                                                                                                                                                                  | Functional     | Intersects With   | Risk Tolerance                                                            | RSK-05.1 | Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.                                                                                                                                                                                                                                                     | 3                        |       | RSK-01.3     |  |
| OIS-09.03B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | Actions defined in the risk treatment plan reduce the risk level to a residual risk that risk owners are able to accept.                                                                                                                                                                                                                  | Functional     | Intersects With   | Risk Remediation                                                          | RSK-17   | Mechanisms exist to remediate risks to an acceptable level.                                                                                                                                                                                                                                                                                              | 5                        |       | RSK-06       |  |
| OIS-09.04B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | The risk treatment plan, as well as suitably summarised and abstracted versions, is provided to relevant internal parties.                                                                                                                                                                                                                | Functional     | Intersects With   | Risk Treatment Plan (RTP)                                                 | RSK-17.1 | Mechanisms exist to formalize a Risk Treatment Plan (RTP) that applicable stakeholders will utilize to remediate identified risks according to a defined timeline.                                                                                                                                                                                       | 3                        |       | RSK-06.4     |  |
| OIS-09.05B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | Based on contractual agreements and relevant legal and regulatory requirements, the cloud service provider determines which relevant external parties are provided with information, specific to the parties' purposes, about the risk treatment plan. The cloud service provider also determines the extent to which this should happen. | Functional     | Intersects With   | Risk Treatment Plan (RTP)                                                 | RSK-17.1 | Mechanisms exist to formalize a Risk Treatment Plan (RTP) that applicable stakeholders will utilize to remediate identified risks according to a defined timeline.                                                                                                                                                                                       | 3                        |       | RSK-06.4     |  |
| OIS-09.06B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | The selected options for risk treatment are reviewed by the risk owners every time the risk assessment is modified. The review considers the criteria for risk acceptance and prioritisation of risk treatment.                                                                                                                           | Functional     | Intersects With   | Risk Assessment Update                                                    | RSK-13.2 | Mechanisms exist to routinely update risk assessments and react accordingly upon identifying new security vulnerabilities, including using outside sources for security vulnerability information.                                                                                                                                                       | 3                        |       | RSK-07       |  |
| OIS-09.06B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | The selected options for risk treatment are reviewed by the risk owners every time the risk assessment is modified. The review considers the criteria for risk acceptance and prioritisation of risk treatment.                                                                                                                           | Functional     | Intersects With   | Risk Treatment Options                                                    | RSK-16.1 | Mechanisms exist to select appropriate risk treatment options, based on applicable risk assessment findings, including:<br>(1) Mitigating the risk to an acceptable level;<br>(2) Avoiding the risk (e.g., terminating the project);<br>(3) Transferring the risk to a third party (e.g., insurance and service provider); or<br>(4) Accepting the risk. | 5                        |       | RSK-06.3     |  |
| OIS-09.07B                                                                                          | Application of the Risk Management Policy - Risk Treatment            | In case of the cloud service provider sharing risks with the cloud service customers, the cloud service provider maps shared risks to complementary customer controls and describes them in the user documentation (cf. PSS-01).                                                                                                          | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                                      | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                         | 5                        |       | CLD-06.1     |  |
| OIS-10.01B                                                                                          | Information Security in Project Management                            | Information security is integrated into project management. Risks are assessed by the cloud service provider according to OIS-07, and the risk treatment is performed if necessary. Risks are treated in all projects that may have a direct or significant impact on the provision, operation, or security of the cloud service.         | Functional     | Intersects With   | Security, Compliance & Resilience in Project Management                   | PRM-08   | Mechanisms exist to assess security, compliance and resilience controls as part of Technology Assets, Applications and/or Services (TAAS) project development to determine whether controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting requirements.                                     | 8                        |       | PRM-04       |  |
| 5.2                                                                                                 | Security Policies and Procedures (SP)                                 | Objective: Provide policies and procedures regarding security requirements and to support business requirements.                                                                                                                                                                                                                          | Functional     | No Relationship   | N/A                                                                       | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                      | 0                        |       |              |  |
| SP-01.01B                                                                                           | Documentation, Communication and Provision of Policies and Procedures | Policies and procedures (incl. frameworks and guidelines) are derived from the information security policy and are documented according to a uniform structure. The policies and procedures describe at least the following aspects:<br>Objectives;                                                                                       | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                   | 8                        |       | GOV-02       |  |
| SP-01.01B.1                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Objectives;                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                   | 3                        |       | GOV-02       |  |
| SP-01.01B.2                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Scope;                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                   | 3                        |       | GOV-02       |  |
| SP-01.01B.3                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Roles and responsibilities, including personnel qualification requirements and the establishment of substitution rules;                                                                                                                                                                                                                   | Functional     | Intersects With   | Defined Roles & Responsibilities                                          | HRS-04   | Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.                                                                                                                                                                                                                                                                     | 5                        |       | HRS-03       |  |
| SP-01.01B.4                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Roles and dependencies on other organisations (especially cloud service customers and subservice organisations);                                                                                                                                                                                                                          | Functional     | Intersects With   | Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix | TPM-11   | Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for security, compliance and resilience controls between internal stakeholders and External Service Providers (ESPs).                                                           | 5                        |       | TPM-05.4     |  |
| SP-01.01B.5                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Steps for the execution of the security strategy; and                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Strategic Plan & Objectives                                               | PRM-02   | Mechanisms exist to establish a:<br>(1) Strategic security, compliance and resilience-specific business plan; and<br>(2) Set of objectives to achieve that plan.                                                                                                                                                                                         | 3                        |       | PRM-01.1     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                       |                                                                                                                                                                                                                                                                                                |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                       |                                                                                                                                                                                                                                                                                                |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                       |                                                                                                                                                                                                                                                                                                |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| FDE #                                                                                               | FDE Name                                                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
| SP-01.01B.6                                                                                         | Documentation, Communication and Provision of Policies and Procedures | Applicable legal and regulatory requirements.                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                                                                                                             | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | CPL-01       |
| SP-01.02B                                                                                           | Documentation, Communication and Provision of Policies and Procedures | The policies and procedures are communicated and made available to all relevant internal and external personnel of the cloud service provider in an appropriate manner.                                                                                                                        | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | GOV-02       |
| SP-01.03B                                                                                           | Documentation, Communication and Provision of Policies and Procedures | The policies and procedures are subject to version control.                                                                                                                                                                                                                                    | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | GOV-02       |
| SP-01.04B                                                                                           | Documentation, Communication and Provision of Policies and Procedures | The policies and procedures are approved by the top management of the cloud service provider or an authorised body.                                                                                                                                                                            | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | GOV-02       |
| SP-02.01B                                                                                           | Review and Approval of Policies and Procedures                        | Information security policies and procedures are reviewed for adequacy by the cloud service provider's subject matter experts at least annually, and in case of significant changes to the cloud service. The review shall consider at least the following aspects:                            | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program                                                                                      | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRPP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8                        |       | GOV-03       |
| SP-02.01B.1                                                                                         | Review and Approval of Policies and Procedures                        | Organisational and technical changes in the procedures for providing the cloud service; and                                                                                                                                                                                                    | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program                                                                                      | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRPP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | GOV-03       |
| SP-02.01B.2                                                                                         | Review and Approval of Policies and Procedures                        | Legal and regulatory changes in the cloud service provider's environment.                                                                                                                                                                                                                      | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                                                                                                             | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | CPL-01       |
| SP-02.01B.2                                                                                         | Review and Approval of Policies and Procedures                        | Legal and regulatory changes in the cloud service provider's environment.                                                                                                                                                                                                                      | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program                                                                                      | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRPP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | GOV-03       |
| SP-02.02B                                                                                           | Review and Approval of Policies and Procedures                        | Revised policies and procedures are approved by the appropriate level of management before they become effective and are communicated and made available to internal and external personnel.                                                                                                   | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | GOV-02       |
| SP-02.02B                                                                                           | Review and Approval of Policies and Procedures                        | Revised policies and procedures are approved by the appropriate level of management before they become effective and are communicated and made available to internal and external personnel.                                                                                                   | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program                                                                                      | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRPP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | GOV-03       |
| SP-03.01B                                                                                           | Exceptions from Existing Policies and Procedures                      | All exceptions to policies and procedures for information security are maintained in a list, including also the controls associated with the exceptions.                                                                                                                                       | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                        |       | GOV-02.1     |
| SP-03.02B                                                                                           | Exceptions from Existing Policies and Procedures                      | Exceptions to the policies and procedures for information security as well as respective controls go through risk management procedures in accordance with OIS-07, including approval of these exceptions and acceptance of the associated risks by the risk owners.                           | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | GOV-02.1     |
| SP-03.02B                                                                                           | Exceptions from Existing Policies and Procedures                      | Exceptions to the policies and procedures for information security as well as respective controls go through risk management procedures in accordance with OIS-07, including approval of these exceptions and acceptance of the associated risks by the risk owners.                           | Functional     | Intersects With   | Risk Remediation                                                                                                                                           | RSK-17   | Mechanisms exist to remediate risks to an acceptable level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | RSK-06       |
| SP-03.03B                                                                                           | Exceptions from Existing Policies and Procedures                      | The risk management procedures in accordance with OIS-07, also take into account the aggregated risk from a combination of single exceptions.                                                                                                                                                  | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | GOV-02.1     |
| SP-03.03B                                                                                           | Exceptions from Existing Policies and Procedures                      | The risk management procedures in accordance with OIS-07, also take into account the aggregated risk from a combination of single exceptions.                                                                                                                                                  | Functional     | Intersects With   | Risk Assessment                                                                                                                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | RSK-04       |
| SP-03.04B                                                                                           | Exceptions from Existing Policies and Procedures                      | The approvals of exceptions are documented, with a defined validity and reviewed for appropriateness at least annually by the risk owners or by the top management. This review also takes into account the aggregated risk from a combination of single exceptions.                           | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | GOV-02.1     |
| SP-03.04B                                                                                           | Exceptions from Existing Policies and Procedures                      | The approvals of exceptions are documented, with a defined validity and reviewed for appropriateness at least annually by the risk owners or by the top management. This review also takes into account the aggregated risk from a combination of single exceptions.                           | Functional     | Intersects With   | Periodic Review of Exceptions                                                                                                                              | GOV-04.3 | Mechanisms exist to:<br>(1) Periodically review previously-approved exceptions; and<br>(2) Determine if the exception should be allowed to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       |              |
| SP-03.05B                                                                                           | Exceptions from Existing Policies and Procedures                      | Exceptions in information security policies and procedures that would result in a deviation (cf. 3.4.12) from any applicable C5 criterion within the scope of an assurance engagement (cf. 3.4.1) are not permitted.                                                                           | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | GOV-02.1     |
| SP-03.01AC                                                                                          | Exceptions from Existing Policies and Procedures                      | The exceptions to policies or procedures are approved by the appropriate level of management.                                                                                                                                                                                                  | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | GOV-02.1     |
| SP-03.02AC                                                                                          | Exceptions from Existing Policies and Procedures                      | The cloud service provider monitors the list of exceptions to prevent the expiration of approved exceptions and ensure the up-to-dateness of all reviews and approvals.                                                                                                                        | Functional     | Intersects With   | Exception Management                                                                                                                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | GOV-02.1     |
| SP-03.02AC                                                                                          | Exceptions from Existing Policies and Procedures                      | The cloud service provider monitors the list of exceptions to prevent the expiration of approved exceptions and ensure the up-to-dateness of all reviews and approvals.                                                                                                                        | Functional     | Intersects With   | Periodic Review of Exceptions                                                                                                                              | GOV-04.3 | Mechanisms exist to:<br>(1) Periodically review previously-approved exceptions; and<br>(2) Determine if the exception should be allowed to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       |              |
| SP-03.03AC                                                                                          | Exceptions from Existing Policies and Procedures                      | Any exceptions for which deviations were identified during monitoring are addressed through timely and appropriate remediation measures.                                                                                                                                                       | Functional     | Intersects With   | Capabilities Deficiency Tracking                                                                                                                           | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| 5.3                                                                                                 | Personnel (HR)                                                        | Objective: Ensure that personnel understands its responsibilities, is aware of its responsibilities regarding information security, and that the organisation's assets are protected in the event of changes in responsibilities or termination.                                               | Functional     | No Relationship   | N/A                                                                                                                                                        | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                        |       |              |
| HR-01.01B                                                                                           | Verification of Qualification and Trustworthiness                     | The cloud service provider identifies for the production environment which roles within the organisation can access cloud service customer data, cloud service derived data, cloud service provider data, account data or system components under the cloud service provider's responsibility. | Functional     | Intersects With   | Position Categorization                                                                                                                                    | HRS-03   | Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those positions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | HRS-02       |
| HR-01.01B                                                                                           | Verification of Qualification and Trustworthiness                     | The cloud service provider identifies for the production environment which roles within the organisation can access cloud service customer data, cloud service derived data, cloud service provider data, account data or system components under the cloud service provider's responsibility. | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                                                                                                           | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | IAC-08       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document:                                       |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                             |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                                   |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                          |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                                   |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                  |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                          | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                           | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                             | Strength of Relationship | Notes | Legacy SCF # |  |
| HR-01.02B                                                                                           | Verification of Qualification and Trustworthiness | The competency and integrity of all internal and external personnel to which these roles are assigned is verified prior to employment. The verification considers the following measures, to the extent permitted by local legislation and regulation and as considered appropriate by the cloud service provider to mitigate risks related to inappropriate access to the respective data type:                                                                   | Functional     | Intersects With   | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 8                        |       | HRS-04       |  |
| HR-01.02B.1                                                                                         | Verification of Qualification and Trustworthiness | Verification of the person's identity via identity card or passport;                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Subset Of         | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 10                       |       | HRS-04       |  |
| HR-01.02B.2                                                                                         | Verification of Qualification and Trustworthiness | Verification of professional experience through the CV;                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Subset Of         | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 10                       |       | HRS-04       |  |
| HR-01.02B.3                                                                                         | Verification of Qualification and Trustworthiness | Verification of academic titles and degrees;                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Subset Of         | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 10                       |       | HRS-04       |  |
| HR-01.02B.4                                                                                         | Verification of Qualification and Trustworthiness | Request for a certificate of good conduct, police clearance or other national equivalents; and                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Subset Of         | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 10                       |       | HRS-04       |  |
| HR-01.02B.5                                                                                         | Verification of Qualification and Trustworthiness | Evaluation of susceptibility to blackmail.                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Subset Of         | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 10                       |       | HRS-04       |  |
| HR-01.03B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider considers changes in personnel roles or employment status that may impact access rights, responsibilities, or risk exposure, and identifies and mitigates related risks.                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Onboarding, Transferring & Offboarding Personnel      | HRS-08   | Mechanisms exist to proactively govern the following personnel management actions:<br>(1) Onboarding new personnel (e.g., new hires);<br>(2) Transferring personnel into new roles within the organization; and<br>(3) Offboarding personnel (e.g., termination of employment). | 5                        |       | HRS-01.1     |  |
| HR-01.03B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider considers changes in personnel roles or employment status that may impact access rights, responsibilities, or risk exposure, and identifies and mitigates related risks.                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Personnel Transfer                                    | HRS-11   | Mechanisms exist to adjust logical and physical access authorizations to Technology Assets, Applications and/or Services (TAAS) and facilities upon personnel reassignment or transfer, in a timely manner.                                                                     | 5                        |       | HRS-08       |  |
| HR-01.04B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider classifies security-sensitive positions according to their level of risk, including IT administration roles and any positions with access to cloud service customer data or to system components used to provide the cloud service in the production environment.                                                                                                                                                                       | Functional     | Intersects With   | Position Categorization                               | HRS-03   | Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those positions.                                                                                                | 8                        |       | HRS-02       |  |
| HR-01.04B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider classifies security-sensitive positions according to their level of risk, including IT administration roles and any positions with access to cloud service customer data or to system components used to provide the cloud service in the production environment.                                                                                                                                                                       | Functional     | Intersects With   | Users With Elevated Privileges                        | HRS-03.1 | Mechanisms exist to ensure that every user accessing Technology Assets, Applications and/or Services (TAAS) that process, store and/or transmit sensitive and/or regulated data is cleared and regularly trained to handle the information in                                   | 5                        |       | HRS-02.1     |  |
| HR-01.05B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider assesses the competence and integrity of its personnel before transfer or promotion into a role with a higher risk classification.                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Roles With Special Protection Measures                | HRS-05.1 | Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria.                                                                          | 5                        |       | HRS-04.1     |  |
| HR-01.05B                                                                                           | Verification of Qualification and Trustworthiness | The cloud service provider assesses the competence and integrity of its personnel before transfer or promotion into a role with a higher risk classification.                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Personnel Transfer                                    | HRS-11   | Mechanisms exist to adjust logical and physical access authorizations to Technology Assets, Applications and/or Services (TAAS) and facilities upon personnel reassignment or transfer, in a timely manner.                                                                     | 3                        |       | HRS-08       |  |
| HR-01.06B                                                                                           | Verification of Qualification and Trustworthiness | The intensity of the assessment defined in this criterion is in proportion to the business context, the sensitivity of the information that the personnel will access, and the associated risks.                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Position Categorization                               | HRS-03   | Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those positions.                                                                                                | 3                        |       | HRS-02       |  |
| HR-01.06B                                                                                           | Verification of Qualification and Trustworthiness | The intensity of the assessment defined in this criterion is in proportion to the business context, the sensitivity of the information that the personnel will access, and the associated risks.                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Personnel Screening                                   | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                        | 5                        |       | HRS-04       |  |
| HR-01.01AC                                                                                          | Verification of Qualification and Trustworthiness | The cloud service provider defines in the human resource policy positions with levels and risk classification that require regular assessment of competence and integrity. The cloud service provider annually reviews their assessment of competence and integrity for personnel belonging to the defined positions.                                                                                                                                              | Functional     | Intersects With   | Roles With Special Protection Measures                | HRS-05.1 | Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria.                                                                          | 5                        |       | HRS-04.1     |  |
| HR-02.01B                                                                                           | Employment Terms and Conditions                   | The cloud service provider ensures that the employment terms and conditions reflect applicable legal and regulatory requirements in accordance with SP-01.                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance        | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                | 3                        |       | CPL-01       |  |
| HR-02.01B                                                                                           | Employment Terms and Conditions                   | The cloud service provider ensures that the employment terms and conditions reflect applicable legal and regulatory requirements in accordance with SP-01.                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Terms of Employment                                   | HRS-06   | Mechanisms exist to require all employees and contractors to apply cybersecurity and data protection principles in their daily work to enable secure, compliant and resilient capabilities.                                                                                     | 5                        |       | HRS-05       |  |
| HR-02.02B                                                                                           | Employment Terms and Conditions                   | The cloud service provider's internal and external personnel are required by employment terms and conditions to comply with the code of ethics and the information security policy, as well as the policies, procedures and instructions based on it.                                                                                                                                                                                                              | Functional     | Intersects With   | Terms of Employment                                   | HRS-06   | Mechanisms exist to require all employees and contractors to apply cybersecurity and data protection principles in their daily work to enable secure, compliant and resilient capabilities.                                                                                     | 5                        |       | HRS-05       |  |
| HR-02.02B                                                                                           | Employment Terms and Conditions                   | The cloud service provider's internal and external personnel are required by employment terms and conditions to comply with the code of ethics and the information security policy, as well as the policies, procedures and instructions based on it.                                                                                                                                                                                                              | Functional     | Intersects With   | Rules of Behavior                                     | HRS-06.1 | Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.                                                                                                                         | 5                        |       | HRS-05.1     |  |
| HR-02.03B                                                                                           | Employment Terms and Conditions                   | The cloud service provider ensures that a non-disclosure provision is included in the terms for all internal and external personnel. The non-disclosure provision covers any information, including anonymised and decontextualised information, that the personnel obtains or generates as part of the cloud service.                                                                                                                                             | Functional     | Intersects With   | Confidentiality Agreements                            | HRS-07.1 | Mechanisms exist to ensure personnel receive recurring familiarization with the organization's security, compliance and resilience policies and provide acknowledgement.                                                                                                        | 8                        |       | HRS-06.1     |  |
| HR-02.04B                                                                                           | Employment Terms and Conditions                   | The cloud service provider instructs its personnel on the code of ethics and the information security policy, as well as the policies, procedures and instructions based on it, before access is granted to any cloud service customer data, cloud service derived data, cloud service provider data and account data or system components under the responsibility of the cloud service provider used to provide the cloud service in the production environment. | Functional     | Intersects With   | Policy Familiarization & Acknowledgement              | HRS-08.2 | Mechanisms exist to ensure personnel receive recurring familiarization with the organization's security, compliance and resilience policies and provide acknowledgement.                                                                                                        | 5                        |       | HRS-05.7     |  |
| HR-02.04B                                                                                           | Employment Terms and Conditions                   | The cloud service provider instructs its personnel on the code of ethics and the information security policy, as well as the policies, procedures and instructions based on it, before access is granted to any cloud service customer data, cloud service derived data, cloud service provider data and account data or system components under the responsibility of the cloud service provider used to provide the cloud service in the production environment. | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training  | SAT-04   | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                             | 3                        |       | SAT-02       |  |
| HR-02.05B                                                                                           | Employment Terms and Conditions                   | Additionally, the cloud service provider requires the code of ethics and the information security policy, as well as the policies, procedures and instructions based on it, to be acknowledged by the internal and external personnel in a documented form before access is granted to any of the aforementioned data or system components.                                                                                                                        | Functional     | Intersects With   | Policy Familiarization & Acknowledgement              | HRS-08.2 | Mechanisms exist to ensure personnel receive recurring familiarization with the organization's security, compliance and resilience policies and provide acknowledgement.                                                                                                        | 8                        |       | HRS-05.7     |  |
| HR-03.01B                                                                                           | Security Training and Awareness Programme         | The cloud service provider operates a target group-oriented security awareness and training programme.                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience-Minded Workforce    | SAT-02   | Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.                                                                                                                                                                     | 5                        |       | SAT-01       |  |
| HR-03.01B                                                                                           | Security Training and Awareness Programme         | The cloud service provider operates a target group-oriented security awareness and training programme.                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training  | SAT-04   | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                             | 5                        |       | SAT-02       |  |
| HR-03.02B                                                                                           | Security Training and Awareness Programme         | All internal and external personnel of the cloud service provider undergoes a role-based training programme regularly and when changing job function, taking into consideration at least the risk classification and technical responsibilities of their position.                                                                                                                                                                                                 | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training:<br>(1) Before authorizing access to the system or performing assigned duties;<br>(2) When required by system changes; and<br>(3) Annually thereafter.                              | 8                        |       | SAT-03       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                      |                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                          |                          |       |              |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                      |                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                          |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                      |                                                                                                                                                                                                                                                                                                                |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                          |                          |       |              |
| FDE #                                                                                               | FDE Name                                                             | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |
| HR-03.03B                                                                                           | Security Training and Awareness Programme                            | The programme is regularly updated based on changes to policies and procedures and the current threat situation and includes the following aspects insofar as they are applicable to each personnel's role:                                                                                                    | Functional     | Intersects With   | Maintaining Workforce Development Relevancy                                                                                                                | SAT-03   | Mechanisms exist to periodically review security workforce development and awareness training to account for changes to:<br>(1) Organizational policies, standards and procedures;<br>(2) Assigned roles and responsibilities;<br>(3) Relevant threats and risks; and<br>(4) Technological developments. | 5                        |       | SAT-01.1     |
| HR-03.03B.1                                                                                         | Security Training and Awareness Programme                            | Handling system components used to provide the cloud service in the production environment in accordance with applicable policies and procedures;                                                                                                                                                              | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training                                                                                                      | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training:<br>(1) Before authorizing access to the system or performing assigned duties;<br>(2) When required by system changes; and<br>(3) Annually thereafter.                                                       | 5                        |       | SAT-03       |
| HR-03.03B.2                                                                                         | Security Training and Awareness Programme                            | Handling cloud service customer data, cloud service derived data, cloud service provider data and account data in accordance with applicable policies and procedures and applicable legal and regulatory requirements;                                                                                         | Functional     | Intersects With   | Sensitive / Regulated Data Storage, Handling & Processing                                                                                                  | SAT-05.1 | Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive and/or regulated data is formally trained in data handling requirements.                                                                                                                     | 5                        |       | SAT-03.3     |
| HR-03.03B.3                                                                                         | Security Training and Awareness Programme                            | Information about the current threat situation;                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Cyber Threat Environment Situational Awareness                                                                                                             | SAT-06   | Mechanisms exist to provide role-based security, compliance and resilience awareness training that is current and relevant to the cyber threats that users might encounter in day-to-day business operations.                                                                                            | 5                        |       | SAT-03.6     |
| HR-03.03B.4                                                                                         | Security Training and Awareness                                      | Correct behaviour in the event of security incidents;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Incident Response Training                                                                                                                                 | IRO-10   | Mechanisms exist to train personnel in their incident response roles and responsibilities.                                                                                                                                                                                                               | 3                        |       | IRO-05       |
| HR-03.03B.4                                                                                         | Security Training and Awareness Programme                            | Correct behaviour in the event of security incidents;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Suspicious Communications & Anomalous System Behavior                                                                                                      | SAT-06.2 | Mechanisms exist to provide training to personnel on organization-defined indicators of malware to recognize suspicious communications and anomalous behavior.                                                                                                                                           | 5                        |       | SAT-03.2     |
| HR-03.03B.5                                                                                         | Security Training and Awareness Programme                            | Security best practices; and                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training                                                                                                       | SAT-04   | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                                                      | 3                        |       | SAT-02       |
| HR-03.03B.6                                                                                         | Security Training and Awareness Programme                            | Secure development.                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Continuing Professional Education (CPE) - DevOps Personnel                                                                                                 | SAT-08   | Mechanisms exist to ensure application development and operations (DevOps) personnel receive Continuing Professional Education (CPE) training on Secure Software Development Practices (SSDP) to appropriately address evolving threats.                                                                 | 5                        |       | SAT-03.8     |
| HR-03.04B                                                                                           | Security Training and Awareness Programme                            | The learning outcomes achieved through the awareness and training programme are measured and evaluated.                                                                                                                                                                                                        | Functional     | Intersects With   | Security, Compliance & Resilience Training Records                                                                                                         | SAT-10   | Mechanisms exist to document, retain and monitor individual training activities, including:<br>(1) Initial security, compliance and resilience awareness training;<br>(2) Recurring awareness training; and<br>(3) Technology Assets, Applications and/or Services (TAAS)-specific training.             | 5                        |       | SAT-04       |
| HR-03.02AS                                                                                          | Security Training and Awareness Programme                            | HR-03.02AS, sharpening HR-03.02B<br>All internal and external personnel of the cloud service provider undergoes a role-based training programme at least annually and when changing job function, taking into consideration at least the risk classification and technical responsibilities of their position. | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training                                                                                                      | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training:<br>(1) Before authorizing access to the system or performing assigned duties;<br>(2) When required by system changes; and<br>(3) Annually thereafter.                                                       | 8                        |       | SAT-03       |
| HR-03.01AC                                                                                          | Security Training and Awareness Programme                            | The cloud service provider monitors the completion of the security awareness and training programme.                                                                                                                                                                                                           | Functional     | Intersects With   | Security, Compliance & Resilience Training Records                                                                                                         | SAT-10   | Mechanisms exist to document, retain and monitor individual training activities, including:<br>(1) Initial security, compliance and resilience awareness training;<br>(2) Recurring awareness training; and<br>(3) Technology Assets, Applications and/or Services (TAAS)-specific training.             | 5                        |       | SAT-04       |
| HR-03.02AC                                                                                          | Security Training and Awareness Programme                            | Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                                                                                                               | Functional     | Intersects With   | Security, Compliance & Resilience Training Records                                                                                                         | SAT-10   | Mechanisms exist to document, retain and monitor individual training activities, including:<br>(1) Initial security, compliance and resilience awareness training;<br>(2) Recurring awareness training; and<br>(3) Technology Assets, Applications and/or Services (TAAS)-specific training.             | 3                        |       | SAT-04       |
| HR-03.03AC                                                                                          | Security Training and Awareness Programme                            | The learning outcomes achieved through the awareness and training programme are measured and evaluated in a target group-oriented manner.                                                                                                                                                                      | Functional     | Intersects With   | Security, Compliance & Resilience Training Records                                                                                                         | SAT-10   | Mechanisms exist to document, retain and monitor individual training activities, including:<br>(1) Initial security, compliance and resilience awareness training;<br>(2) Recurring awareness training; and<br>(3) Technology Assets, Applications and/or Services (TAAS)-specific training.             | 3                        |       | SAT-04       |
| HR-03.04AC                                                                                          | Security Training and Awareness Programme                            | The measurements cover quantitative and qualitative aspects.                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Security, Compliance & Resilience Training Records                                                                                                         | SAT-10   | Mechanisms exist to document, retain and monitor individual training activities, including:<br>(1) Initial security, compliance and resilience awareness training;<br>(2) Recurring awareness training; and<br>(3) Technology Assets, Applications and/or Services (TAAS)-specific training.             | 3                        |       | SAT-04       |
| HR-03.05AC                                                                                          | Security Training and Awareness Programme                            | The results are used to improve the awareness and training programme.                                                                                                                                                                                                                                          | Functional     | Intersects With   | Training Feedback                                                                                                                                          | SAT-11   | Mechanisms exist to:<br>(1) Monitor individual training results; and<br>(2) Report findings to stakeholders.                                                                                                                                                                                             | 5                        |       | SAT-04.1     |
| HR-04.01B                                                                                           | Disciplinary Measures                                                | The cloud service provider ensures that the policies and procedures concerning disciplinary measures reflect applicable legal and regulatory requirements in accordance with SP-01.                                                                                                                            | Functional     | Intersects With   | Personnel Sanctions                                                                                                                                        | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                                   | 5                        |       | HRS-07       |
| HR-04.02B                                                                                           | Disciplinary Measures                                                | In the event of violations of policies and procedures or applicable legal and regulatory requirements, actions are taken in accordance with a defined policy that includes the following aspects:                                                                                                              | Functional     | Intersects With   | Personnel Sanctions                                                                                                                                        | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                                   | 5                        |       | HRS-07       |
| HR-04.02B.1                                                                                         | Disciplinary Measures                                                | Verifying whether a violation has occurred; and                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Workplace Investigations                                                                                                                                   | HRS-10.1 | Mechanisms exist to conduct employee misconduct investigations when there is reasonable assurance that a policy has been violated.                                                                                                                                                                       | 5                        |       | HRS-07.1     |
| HR-04.02B.2                                                                                         | Disciplinary Measures                                                | Consideration of the nature and severity of the violation and its impact.                                                                                                                                                                                                                                      | Functional     | Intersects With   | Personnel Sanctions                                                                                                                                        | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                                   | 3                        |       | HRS-07       |
| HR-04.03B                                                                                           | Disciplinary Measures                                                | The internal and external personnel of the cloud service provider is informed about possible disciplinary measures.                                                                                                                                                                                            | Functional     | Intersects With   | Personnel Sanctions                                                                                                                                        | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                                   | 5                        |       | HRS-07       |
| HR-04.04B                                                                                           | Disciplinary Measures                                                | The use of disciplinary measures is appropriately documented.                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Personnel Sanctions                                                                                                                                        | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                                   | 5                        |       | HRS-07       |
| HR-05.01B                                                                                           | Responsibilities in the Event of Termination or Change of Employment | Internal and external personnel has been informed about which responsibilities, arising from employment terms and conditions relating to information security, will remain in place when the employment is terminated or changed and for how long.                                                             | Functional     | Intersects With   | Post-Employment Requirements Awareness                                                                                                                     | HRS-08.3 | Mechanisms exist to notify individuals of their applicable, legally-binding post-employment requirements for the protection of sensitive and/or regulated data.                                                                                                                                          | 5                        |       | HRS-06.2     |
| HR-05.01B                                                                                           | Responsibilities in the Event of Termination or Change of Employment | Internal and external personnel has been informed about which responsibilities, arising from employment terms and conditions relating to information security, will remain in place when the employment is terminated or changed and for how long.                                                             | Functional     | Intersects With   | Post-Employment Requirements Notification                                                                                                                  | HRS-08.4 | Mechanisms exist to govern former employee behavior by formally notifying terminated individuals of their applicable, legally binding post-employment requirements for the protection of sensitive and/or regulated data.                                                                                | 5                        |       | HRS-09.3     |
| HR-06.01B                                                                                           | Non-disclosure Agreements                                            | The non-disclosure or confidentiality agreements to be agreed with internal personnel and service organisations of the cloud service provider are based on the requirements identified by the cloud service provider for the protection of confidential information and operational details.                   | Functional     | Intersects With   | Confidentiality Agreements                                                                                                                                 | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third parties.                                                                                                 | 8                        |       | HRS-06.1     |
| HR-06.02B                                                                                           | Non-disclosure Agreements                                            | The agreements are to be accepted by service organisations when the contract is agreed.                                                                                                                                                                                                                        | Functional     | Intersects With   | Confidentiality Agreements                                                                                                                                 | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third parties.                                                                                                 | 5                        |       | HRS-06.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                 |                                                                                                                                                                                                                                                                                    |                |                   | Focal Document:                                            |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                 |                                                                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                                        |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                                                                |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                 |                                                                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                                        |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |       |              |  |
| FDE #                                                                                               | FDE Name                        | Focal Document Element (FDE) Description                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |  |
| HR-06.02B                                                                                           | Non-disclosure Agreements       | The agreements are to be accepted by service organisations when the contract is agreed.                                                                                                                                                                                            | Functional     | Intersects With   | Third-Party Contract Requirements                          | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                                                                                                                                                                          | 3                        |       | TPM-05       |  |
| HR-06.03B                                                                                           | Non-disclosure Agreements       | The agreements are to be accepted by internal personnel of the cloud service provider before authorisation to access cloud service customer data, cloud service derived data, cloud service provider data and account data is granted.                                             | Functional     | Intersects With   | Access Agreements                                          | HRS-07   | Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access.                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                        |       | HRS-06       |  |
| HR-06.03B                                                                                           | Non-disclosure Agreements       | The agreements are to be accepted by internal personnel of the cloud service provider before authorisation to access cloud service customer data, cloud service derived data, cloud service provider data and account data is granted.                                             | Functional     | Intersects With   | Confidentiality Agreements                                 | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third-parties.                                                                                                                                                                                                                                                                                                                                              | 5                        |       | HRS-06.1     |  |
| HR-06.04B                                                                                           | Non-disclosure Agreements       | The requirements are documented and reviewed at regular intervals (at least annually), as well as in case of significant changes to the cloud service. If the review shows that the requirements need to be adapted, the non-disclosure or confidentiality agreements are updated. | Functional     | Intersects With   | Confidentiality Agreements                                 | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third-parties.                                                                                                                                                                                                                                                                                                                                              | 5                        |       | HRS-06.1     |  |
| HR-06.05B                                                                                           | Non-disclosure Agreements       | The cloud service provider informs the internal personnel and service organisations and obtains confirmation of the updated confidentiality or non-disclosure agreement.                                                                                                           | Functional     | Intersects With   | Confidentiality Agreements                                 | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third-parties.                                                                                                                                                                                                                                                                                                                                              | 3                        |       | HRS-06.1     |  |
| HR-06.06B                                                                                           | Non-disclosure Agreements       | In instances where an agreement on the updates cannot be reached, the cloud service provider assesses the resulting risks to information security according to OIS-07.                                                                                                             | Functional     | Intersects With   | Risk Assessment                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                 | 3                        |       | RSK-04       |  |
| HR-07.01B                                                                                           | Remote Working - Policy         | Policies and procedures for the protection of information when personnel works remotely are documented, communicated and provided in accordance with SP-01 and address the following aspects:                                                                                      | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | GOV-02       |  |
| HR-07.01B                                                                                           | Remote Working - Policy         | Policies and procedures for the protection of information when personnel works remotely are documented, communicated and provided in accordance with SP-01 and address the following aspects:                                                                                      | Functional     | Intersects With   | Work From Anywhere (WFA) - Telecommuting Security          | NET-27   | Mechanisms exist to define secure telecommuting practices and govern remote access to Technology Assets, Applications, Services and/or Data (TAASD) for remote workers.                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | NET-14.5     |  |
| HR-07.01B.1                                                                                         | Remote Working - Policy         | Establishing guidelines for the personnel for the safe handling and storage of sensitive information and data types;                                                                                                                                                               | Functional     | Intersects With   | Data Protection                                            | DCH-02   | Mechanisms exist to facilitate the implementation of data protection controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | DCH-01       |  |
| HR-07.01B.1                                                                                         | Remote Working - Policy         | Establishing guidelines for the personnel for the safe handling and storage of sensitive information and data types;                                                                                                                                                               | Functional     | Intersects With   | Sensitive / Regulated Data Storage, Handling & Processing  | SAT-05.1 | Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive and/or regulated data is formally trained in data handling requirements.                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | SAT-03.3     |  |
| HR-07.01B.2                                                                                         | Remote Working - Policy         | Definition of remote access security requirements;                                                                                                                                                                                                                                 | Functional     | Intersects With   | Remote Access                                              | NET-26   | Mechanisms exist to define, control and review organization-approved, secure remote access methods.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | NET-14       |  |
| HR-07.01B.3                                                                                         | Remote Working - Policy         | Utilisation of secure communication methods and enforcement of secure network use (e.g., VPN usage, endpoint protection, multi-factor authentication, secure communication channels); and                                                                                          | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                          | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data.                                                                                                                                                                                                                                          | 3                        |       | IAC-06       |  |
| HR-07.01B.3                                                                                         | Remote Working - Policy         | Utilisation of secure communication methods and enforcement of secure network use (e.g., VPN usage, endpoint protection, multi-factor authentication, secure communication channels); and                                                                                          | Functional     | Intersects With   | Remote Access Cryptographic Protections                    | NET-26.5 | Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | NET-14.2     |  |
| HR-07.01B.4                                                                                         | Remote Working - Policy         | Provision of organisation-approved equipment and prohibition of unregulated personal devices.                                                                                                                                                                                      | Functional     | Intersects With   | Usage Parameters                                           | AST-28   | Mechanisms exist to monitor and enforce usage parameters that limit the potential damage caused from the unauthorized or unintentional alteration of system settings.                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | AST-14       |  |
| HR-07.01B.4                                                                                         | Remote Working - Policy         | Provision of organisation-approved equipment and prohibition of unregulated personal devices.                                                                                                                                                                                      | Functional     | Intersects With   | Technology Use Restrictions                                | HRS-06.3 | Mechanisms exist to establish usage restrictions and implementation guidance for organizational technologies based on the potential to cause damage to Technology Assets, Applications and/or Services (TAAS), if used maliciously.                                                                                                                                                                                                                                                                                                                   | 5                        |       | HRS-05.3     |  |
| HR-08.01B                                                                                           | Remote Working - Implementation | The cloud service provider designs, implements and maintains the technical and organisational measures required to enable its personnel to comply with the policies and procedures for remote work (cf. HR-07).                                                                    | Functional     | Intersects With   | Remote Access                                              | NET-26   | Mechanisms exist to define, control and review organization-approved, secure remote access methods.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | NET-14       |  |
| HR-08.01B                                                                                           | Remote Working - Implementation | The cloud service provider designs, implements and maintains the technical and organisational measures required to enable its personnel to comply with the policies and procedures for remote work (cf. HR-07).                                                                    | Functional     | Intersects With   | Work From Anywhere (WFA) - Telecommuting Security          | NET-27   | Mechanisms exist to define secure telecommuting practices and govern remote access to Technology Assets, Applications, Services and/or Data (TAASD) for remote workers.                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | NET-14.5     |  |
| 5.4                                                                                                 | Asset Management (AM)           | Objective: Identify the organisation's own assets and ensure an appropriate level of protection throughout their lifecycle.                                                                                                                                                        | Functional     | No Relationship   | N/A                                                        | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                        |       |              |  |
| AM-01.01B                                                                                           | Asset Management Framework      | An asset management framework is documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                                                                                           | Functional     | Intersects With   | Asset Management Policy                                    | AST-01   | Mechanisms exist to establish a formal, documented asset management policy that:<br>(1) Conveys executive management's intent;                                                                                                                                                                                                                                                                                                                                                                                                                        | 8                        |       |              |  |
| AM-01.01B                                                                                           | Asset Management Framework      | An asset management framework is documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                                                                                           | Functional     | Intersects With   | Asset Governance                                           | AST-02   | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                        |       | AST-01       |  |
| AM-01.01B.1                                                                                         | Asset Management Framework      | Identification of assets which are used to provide the cloud service in the production environment;                                                                                                                                                                                | Functional     | Intersects With   | Asset Inventories                                          | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |  |
| AM-01.01B.2                                                                                         | Asset Management Framework      | Definition of a scheme for identifying protection needs based on information processed, stored or transmitted on the asset;                                                                                                                                                        | Functional     | Intersects With   | Asset Categorization                                       | AST-15   | Mechanisms exist to categorize Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | AST-31       |  |
| AM-01.01B.2                                                                                         | Asset Management Framework      | Definition of a scheme for identifying protection needs based on information processed, stored or transmitted on the asset;                                                                                                                                                        | Functional     | Intersects With   | Data & Asset Classification                                | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | DCH-02       |  |
| AM-01.01B.3                                                                                         | Asset Management Framework      | Definition of asset types, considering at a minimum the differentiation of hardware and software objects;                                                                                                                                                                          | Functional     | Intersects With   | Asset Categorization                                       | AST-15   | Mechanisms exist to categorize Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | AST-31       |  |
| AM-01.01B.4                                                                                         | Asset Management Framework      | Definition of asset lifecycles based on the asset type; and                                                                                                                                                                                                                        | Functional     | Intersects With   | Asset Governance                                           | AST-02   | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | AST-01       |  |

| FDE #        | FDE Name                   | Focal Document Element (FDE) Description                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                              | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
|--------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| AM-01.01B.5  | Asset Management Framework | Definition of procedures for inventory of hardware and software assets.                                                                                                                        | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |
| AM-01.01AC   | Asset Management Framework | The information collected about assets is considered in logging and monitoring applications to:                                                                                                | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |
| AM-01.01AC   | Asset Management Framework | The information collected about assets is considered in logging and monitoring applications to:                                                                                                | Functional     | Intersects With   | Continuous Monitoring                    | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | MON-01       |
| AM-01.01AC.1 | Asset Management Framework | Identify the impact on cloud services and functions in case of events that could lead to a breach of protection objectives; and                                                                | Functional     | Intersects With   | Continuous Monitoring                    | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | MON-01       |
| AM-01.01AC.1 | Asset Management Framework | Identify the impact on cloud services and functions in case of events that could lead to a breach of protection objectives; and                                                                | Functional     | Intersects With   | Impact-Level Prioritization              | RSK-07.1 | Mechanisms exist to prioritize the impact level for Technology Assets, Applications and/or Services (TAS) to prevent potential disruptions.                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | RSK-02.1     |
| AM-01.01AC.2 | Asset Management Framework | Support information provided to affected cloud service customers in accordance with contractual agreements.                                                                                    | Functional     | Intersects With   | Incident Stakeholder Reporting           | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | IRO-10       |
| AM-01.02AC   | Asset Management Framework | The cloud service provider assures that the inventory of assets is up-to-date by implementing monitoring measures to the process that is maintaining it.                                       | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |
| AM-01.02AC   | Asset Management Framework | The cloud service provider assures that the inventory of assets is up-to-date by implementing monitoring measures to the process that is maintaining it.                                       | Functional     | Intersects With   | Comprehensive Asset Inventory Management | AST-08   | Mechanisms exist to maintain a dynamically updated inventory of Technology Assets, Applications, Services and/or Data (TAASD) that provides a highly contextualized understanding of every asset that is capable of providing operational visibility required to:<br>(1) Detect anomalies;<br>(2) Manage complex vulnerabilities;                                                                                                                                                                                                                     | 5                        |       |              |
| AM-02.01B    | Asset Inventory            | The cloud service provider maintains an asset inventory of hardware and software assets in accordance with the asset management framework (cf. AM-01).                                         | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 8                        |       | AST-02       |
| AM-02.02B    | Asset Inventory            | The inventory is performed automatically and/or by the people or teams responsible for the assets to ensure complete, accurate, valid and consistent inventory throughout the asset lifecycle. | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |
| AM-02.02B    | Asset Inventory            | The inventory is performed automatically and/or by the people or teams responsible for the assets to ensure complete, accurate, valid and consistent inventory throughout the asset lifecycle. | Functional     | Intersects With   | Comprehensive Asset Inventory Management | AST-08   | Mechanisms exist to maintain a dynamically updated inventory of Technology Assets, Applications, Services and/or Data (TAASD) that provides a highly contextualized understanding of every asset that is capable of providing operational visibility required to:<br>(1) Detect anomalies;                                                                                                                                                                                                                                                            | 5                        |       |              |
| AM-02.02B    | Asset Inventory            | The inventory is performed automatically and/or by the people or teams responsible for the assets to ensure complete, accurate, valid and consistent inventory throughout the asset lifecycle. | Functional     | Intersects With   | Automated Network Asset Discovery        | AST-09.2 | Mechanisms exist to automate network asset discovery through Software Defined Networking (SDN), or similar technologies, that analyzes network traffic to:<br>(1) Identify;<br>(2) Document; and<br>(3) Track devices.                                                                                                                                                                                                                                                                                                                                | 3                        |       | AST-32       |
| AM-02.03B    | Asset Inventory            | Assets are recorded with the information needed to apply the risk management procedure (cf. OIS-07), including the measures taken to manage these risks throughout the asset lifecycle.        | Functional     | Intersects With   | Asset Inventories                        | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                          |                                                                                                                                                                                         |                | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                          |                                                                                                                                                                                         |                | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                          |                                                                                                                                                                                         |                | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
| FDE #                                                                                               | FDE Name                 | Focal Document Element (FDE) Description                                                                                                                                                | STRM Rationale | STRM Relationship                                                                                                                                          | SCF Control                                                                        | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
| AM-02.03B                                                                                           | Asset Inventory          | Assets are recorded with the information needed to apply the risk management procedure (cf. OIS-07), including the measures taken to manage these risks throughout the asset lifecycle. | Functional     | Intersects With                                                                                                                                            | Risk-Based Security Categorization                                                 | RSK-07   | Mechanisms exist to categorize Technology Assets, Applications, Services and/or Data (TAASD) in accordance with applicable laws, regulations and contractual obligations that:<br>(1) Document the security categorization results (including supporting rationale) in the security plan for systems; and<br>(2) Ensure the security categorization decision is reviewed and approved by the asset owner.                                                                                                                                             | 3                        |       | RSK-02       |
| AM-02.04B                                                                                           | Asset Inventory          | Changes to the recorded information of an asset are logged.                                                                                                                             | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |
| AM-02.04B                                                                                           | Asset Inventory          | Changes to the recorded information of an asset are logged.                                                                                                                             | Functional     | Intersects With                                                                                                                                            | Content of Event Logs                                                              | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event.                                                                                          | 3                        |       | MON-03       |
| AM-02.05B                                                                                           | Asset Inventory          | The cloud service provider maintains lists of all users under its responsibility who have access to a specific resource, along with their respective access rights.                     | Functional     | Intersects With                                                                                                                                            | User & Service Account Inventories                                                 | IAC-08.3 | Mechanisms exist to maintain a current list of authorized users and service accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | IAC-01.3     |
| AM-02.05B                                                                                           | Asset Inventory          | The cloud service provider maintains lists of all users under its responsibility who have access to a specific resource, along with their respective access rights.                     | Functional     | Intersects With                                                                                                                                            | Periodic Review of Individual & Service Account Privileges                         | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | IAC-17       |
| AM-03.01B                                                                                           | Hardware Asset Inventory | The hardware asset inventory maintained by the cloud service provider (cf. AM-02) includes information for each entry that:                                                             | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 8                        |       | AST-02       |
| AM-03.01B.1                                                                                         | Hardware Asset Inventory | Enables the identification of the hardware asset;                                                                                                                                       | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |
| AM-03.01B.2                                                                                         | Hardware Asset Inventory | Provides visibility into the lifecycle of the hardware asset; and                                                                                                                       | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |
| AM-03.01B.3                                                                                         | Hardware Asset Inventory | Enables the cloud service provider to control the hardware asset, perform a risk assessment and protect its information security.                                                       | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |
| AM-03.01B.3                                                                                         | Hardware Asset Inventory | Enables the cloud service provider to control the hardware asset, perform a risk assessment and protect its information security.                                                       | Functional     | Intersects With                                                                                                                                            | Technology Assets, Applications, Services and/or Data (TAASD) Ownership Assignment | AST-07.1 | Mechanisms exist to ensure Technology Assets, Applications, Services and/or Data (TAASD) ownership responsibilities are assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.                                                                                                                                                                                                                                                              | 3                        |       | AST-03       |
| AM-04.01B                                                                                           | Software Asset Inventory | The cloud service provider maintains a comprehensive inventory of all software assets, including used software (cf. AM-02). This inventory includes information for each entry that:    | Functional     | Intersects With                                                                                                                                            | Asset Inventories                                                                  | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 8                        |       | AST-02       |
| AM-04.01B                                                                                           | Software Asset Inventory | The cloud service provider maintains a comprehensive inventory of all software assets, including used software (cf. AM-02). This inventory includes information for each entry that:    | Functional     | Intersects With                                                                                                                                            | Software Bill of Materials (SBOM)                                                  | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                                                                                                                                                              | 3                        |       | TDA-04.2     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                |                                                                                                                                                                                                                                    |                |                   | Focal Document:                                                                    | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                |                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                                                                | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                |                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                                                                | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |
| FDE #                                                                                               | FDE Name                                       | Focal Document Element (FDE) Description                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                                                        | SCF #                                                                                                                                  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
| AM-04.01B.1                                                                                         | Software Asset Inventory                       | Enables the identification of the software asset;                                                                                                                                                                                  | Functional     | Intersects With   | Asset Inventories                                                                  | AST-04                                                                                                                                 | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |
| AM-04.01B.2                                                                                         | Software Asset Inventory                       | Provides visibility into which other assets use the software asset for the provision of the cloud service; and                                                                                                                     | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                                  | TDA-21.4                                                                                                                               | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                                                                                                                                                              | 5                        |       | TDA-04.2     |
| AM-04.01B.3                                                                                         | Software Asset Inventory                       | Enables the cloud service provider to control the software asset, perform a risk assessment and protect its information security.                                                                                                  | Functional     | Intersects With   | Asset Inventories                                                                  | AST-04                                                                                                                                 | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that:<br>(1) Accurately reflects the current TAASD in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |
| AM-04.01B.3                                                                                         | Software Asset Inventory                       | Enables the cloud service provider to control the software asset, perform a risk assessment and protect its information security.                                                                                                  | Functional     | Intersects With   | Technology Assets, Applications, Services and/or Data (TAASD) Ownership Assignment | AST-07.1                                                                                                                               | Mechanisms exist to ensure Technology Assets, Applications, Services and/or Data (TAASD) ownership responsibilities are assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.                                                                                                                                                                                                                                                              | 3                        |       | AST-03       |
| AM-04.01AC                                                                                          | Software Asset Inventory                       | The inventory also includes information for each entry that provides visibility into how long the software asset will receive security updates from its supplier, if such a time frame has been communicated by the supplier.      | Functional     | Intersects With   | Unsupported Technology Assets, Applications and/or Services (TAAS)                 | AST-39                                                                                                                                 | Mechanisms exist to prevent unsupported Technology Assets, Applications and/or Services (TAAS) by:<br>(1) Removing and/or replacing TAAS when support for the components is no longer available from the developer, vendor or manufacturer; and<br>(2) Requiring justification and documented approval for the continued use of unsupported TAAS required                                                                                                                                                                                             | 5                        |       | TDA-17       |
| AM-05.01B                                                                                           | Policy for the Proper and Secure Use of Assets | Policies and procedures for the proper and secure use of assets are documented, communicated and provided in accordance with SP-01 and address the following aspects of the asset lifecycle as applicable to the asset:            | Functional     | Intersects With   | Asset Governance                                                                   | AST-02                                                                                                                                 | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | AST-01       |
| AM-05.01B                                                                                           | Policy for the Proper and Secure Use of Assets | Policies and procedures for the proper and secure use of assets are documented, communicated and provided in accordance with SP-01 and address the following aspects of the asset lifecycle as applicable to the asset:            | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                         | GOV-04                                                                                                                                 | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | GOV-02       |
| AM-05.01B.1                                                                                         | Policy for the Proper and Secure Use of Assets | Approval procedures for acquisition, commissioning, maintenance, decommissioning, and disposal by authorised personnel or system components;                                                                                       | Functional     | Intersects With   | Asset Governance                                                                   | AST-02                                                                                                                                 | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | AST-01       |
| AM-05.01B.1                                                                                         | Policy for the Proper and Secure Use of Assets | Approval procedures for acquisition, commissioning, maintenance, decommissioning, and disposal by authorised personnel or system components;                                                                                       | Functional     | Intersects With   | Decommissioning                                                                    | AST-36                                                                                                                                 | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that:<br>(1) Data is properly transitioned to new systems or archived; and<br>(2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations.                                                                                                                                                                                   | 3                        |       | AST-30       |
| AM-05.01B.2                                                                                         | Policy for the Proper and Secure Use of Assets | Classification and labelling based on the protection need of the cloud service customer data, cloud service derived data, cloud service provider data and account data as well as measures for the level of protection identified; | Functional     | Intersects With   | Asset Scope Classification                                                         | AST-16                                                                                                                                 | Mechanisms exist to determine security, compliance and resilience control applicability by identifying, assigning and documenting the appropriate asset scope categorization for all Technology Assets, Applications and/or Services (TAAS) and personnel (internal and third-parties).                                                                                                                                                                                                                                                               | 3                        |       | AST-04.1     |
| AM-05.01B.2                                                                                         | Policy for the Proper and Secure Use of Assets | Classification and labelling based on the protection need of the cloud service customer data, cloud service derived data, cloud service provider data and account data as well as measures for the level of protection identified; | Functional     | Intersects With   | Data & Asset Classification                                                        | DCH-04                                                                                                                                 | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | DCH-02       |
| AM-05.01B.3                                                                                         | Policy for the Proper and Secure Use of Assets | Secure configuration of mechanisms for error handling, logging, encryption, authentication and authorisation;                                                                                                                      | Functional     | Intersects With   | Secure Baseline Configurations                                                     | CFG-04                                                                                                                                 | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                                                                                                                                                                                                                                                                          | 5                        |       | CFG-02       |
| AM-05.01B.4                                                                                         | Policy for the Proper and Secure Use of Assets | Requirements for versions of software and images as well as application of patches;                                                                                                                                                | Functional     | Intersects With   | Software & Firmware Patching                                                       | VPM-08                                                                                                                                 | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                                                                                                                                                                                                                                                                            | 5                        |       | VPM-05       |
| AM-05.01B.5                                                                                         | Policy for the Proper and Secure Use of Assets | Handling of software for which support and security patches are not available anymore;                                                                                                                                             | Functional     | Intersects With   | Unsupported Technology Assets, Applications and/or Services (TAAS)                 | AST-39                                                                                                                                 | Mechanisms exist to prevent unsupported Technology Assets, Applications and/or Services (TAAS) by:<br>(1) Removing and/or replacing TAAS when support for the components is no longer available from the developer, vendor or manufacturer; and<br>(2) Requiring justification and documented approval for the continued use of unsupported TAAS required                                                                                                                                                                                             | 5                        |       | TDA-17       |
| AM-05.01B.6                                                                                         | Policy for the Proper and Secure Use of Assets | Restriction of software installations or use of services;                                                                                                                                                                          | Functional     | Intersects With   | Restrict Roles Permitted To Install Software                                       | CFG-12                                                                                                                                 | Automated mechanisms exist to prevent the installation of software, unless the action is performed by a privileged user or service.                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | CFG-05       |
| AM-05.01B.6                                                                                         | Policy for the Proper and Secure Use of Assets | Restriction of software installations or use of services;                                                                                                                                                                          | Functional     | Intersects With   | Role-Based Permissions To Implement Changes                                        | CHG-04.2                                                                                                                               | Mechanisms exist to limit the ability to implement Technology Asset, Application and/or Service (TAAS) changes to designated privileged roles.                                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | END-03       |
| AM-05.01B.7                                                                                         | Policy for the Proper and Secure Use of Assets | Protection against malware;                                                                                                                                                                                                        | Functional     | Intersects With   | Malicious Code Protection (Antimalware)                                            | END-04                                                                                                                                 | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5                        |       | END-04       |
| AM-05.01B.8                                                                                         | Policy for the Proper and Secure Use of Assets | Remote deactivation, deletion or blocking;                                                                                                                                                                                         | Functional     | Intersects With   | Remote Purging                                                                     | MDM-09                                                                                                                                 | Mechanisms exist to remotely purge selected information from mobile devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | MDM-05       |
| AM-05.01B.9                                                                                         | Policy for the Proper and Secure Use of Assets | Physical delivery and transport;                                                                                                                                                                                                   | Functional     | Intersects With   | Removal of Assets                                                                  | AST-24                                                                                                                                 | Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | AST-11       |
| AM-05.01B.9                                                                                         | Policy for the Proper and Secure Use of Assets | Physical delivery and transport;                                                                                                                                                                                                   | Functional     | Intersects With   | Media Transportation                                                               | DCH-16                                                                                                                                 | Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | DCH-07       |
| AM-05.01B.10                                                                                        | Policy for the Proper and Secure Use of Assets | Dealing with incidents and vulnerabilities;                                                                                                                                                                                        | Functional     | Intersects With   | Incident Response Operations                                                       | IRO-02                                                                                                                                 | Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity and data protection-related incidents.                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | IRO-01       |
| AM-05.01B.10                                                                                        | Policy for the Proper and Secure Use of Assets | Dealing with incidents and vulnerabilities;                                                                                                                                                                                        | Functional     | Intersects With   | Vulnerability & Patch Management Program (VPMP)                                    | VPM-02                                                                                                                                 | Mechanisms exist to facilitate the implementation and monitoring of risk-based vulnerability management capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | VPM-01       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Focal Document:                                     | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                    |                                                                                                                                                                                                                                                                                                                                                                     |                          |       |              |
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| Secure Controls Framework (SCF) version 2026.3                                                      |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Focal Document URL:                                 | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                                                                                                                                                                                                                                                                                                     |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                   | Published STRM URL:                                 | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                                                                                                                                                                                                                                                                                                                     |                          |       |              |
| FDE #                                                                                               | FDE Name                                                                | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                             | STRM Rationale | STRM Relationship | SCF Control                                         | SCF #                                                                                                                                  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                 | Strength of Relationship | Notes | Legacy SCF # |
| AM-05.01B.11                                                                                        | Policy for the Proper and Secure Use of Assets                          | Deletion of cloud service customer data, cloud service derived data, cloud service provider data and account data; and                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                | DCH-17                                                                                                                                 | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                   | 3                        |       | DCH-21       |
| AM-05.01B.11                                                                                        | Policy for the Proper and Secure Use of Assets                          | Deletion of cloud service customer data, cloud service derived data, cloud service provider data and account data; and                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Digital Media Sanitization                          | DCH-18                                                                                                                                 | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                    | 5                        |       | DCH-09       |
| AM-05.01B.12                                                                                        | Policy for the Proper and Secure Use of Assets                          | Secure handling and usage of removable media, e.g. by specifying which devices are permitted to interact with removable media and what data can be stored on them or by banning the reuse of removable media.                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Digital Media Use Restrictions                      | DCH-19                                                                                                                                 | Mechanisms exist to restrict the use of types of digital media on systems or system components.                                                                                                                                                                                                                                                                     | 3                        |       | DCH-10       |
| AM-05.01B.12                                                                                        | Policy for the Proper and Secure Use of Assets                          | Secure handling and usage of removable media, e.g. by specifying which devices are permitted to interact with removable media and what data can be stored on them or by banning the reuse of removable media.                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Removable Media Security                            | DCH-21                                                                                                                                 | Mechanisms exist to restrict removable media in accordance with data handling and acceptable usage parameters.                                                                                                                                                                                                                                                      | 5                        |       | DCH-12       |
| AM-05.02B                                                                                           | Policy for the Proper and Secure Use of Assets                          | The applicability of these aspects is defined based on the cloud service provider's asset management framework (cf. AM-01).                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Asset Governance                                    | AST-02                                                                                                                                 | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                             | 3                        |       | AST-01       |
| AM-06.01B                                                                                           | Commissioning of Hardware                                               | The cloud service provider has implemented an approval process for commissioning hardware used to provide the cloud service in the production environment. This process involves identifying, analysing, and mitigating any risks (cf. OIS-07) associated with the                                                                                                                                                                                                   | Functional     | Intersects With   | Asset Governance                                    | AST-02                                                                                                                                 | Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.                                                                                                                                                                                                                                             | 3                        |       | AST-01       |
| AM-06.01B                                                                                           | Commissioning of Hardware                                               | The cloud service provider has implemented an approval process for commissioning hardware used to provide the cloud service in the production environment. This process involves identifying, analysing, and mitigating any risks (cf. OIS-07) associated with the commissioning.                                                                                                                                                                                    | Functional     | Intersects With   | Risk Assessment                                     | RSK-13                                                                                                                                 | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                               | 3                        |       | RSK-04       |
| AM-06.02B                                                                                           | Commissioning of Hardware                                               | Approval is granted after verification of the secure configuration of the mechanisms for error handling, logging, encryption, authentication and authorisation according to the intended use and based on the applicable policies.                                                                                                                                                                                                                                   | Functional     | Intersects With   | Secure Baseline Configurations                      | CFG-04                                                                                                                                 | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                                                                                        | 5                        |       | CFG-02       |
| AM-07.01B                                                                                           | Decommissioning of Hardware                                             | The cloud service provider defines, documents and implements a procedure for the decommissioning of hardware used to operate system components supporting the cloud service production environment under the responsibility of the cloud service provider. As part of this procedure, approval by authorised personnel of the cloud service provider based on the applicable policies is required.                                                                   | Functional     | Intersects With   | Decommissioning                                     | AST-36                                                                                                                                 | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that:<br>(1) Data is properly transitioned to new systems or archived; and<br>(2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations. | 8                        |       | AST-30       |
| AM-07.02B                                                                                           | Decommissioning of Hardware                                             | The decommissioning includes either:                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Decommissioning                                     | AST-36                                                                                                                                 | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that:<br>(1) Data is properly transitioned to new systems or archived; and<br>(2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations. | 5                        |       | AST-30       |
| AM-07.02B.1                                                                                         | Decommissioning of Hardware                                             | The complete and permanent deletion of all cloud service customer data, cloud service derived data, cloud service provider data and account data; or                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Digital Media Sanitization                          | DCH-18                                                                                                                                 | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                    | 5                        |       | DCH-09       |
| AM-07.02B.2                                                                                         | Decommissioning of Hardware                                             | The proper destruction of the media.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Secure Disposal, Destruction or Re-Use of Equipment | AST-22                                                                                                                                 | Mechanisms exist to securely dispose of, destroy or repurpose technology assets using organization-defined techniques and methods to prevent:<br>(1) Data recovery; and<br>(2) Components from being resold, redistributed and/or reused through unauthorized channels.                                                                                             | 3                        |       | AST-09       |
| AM-07.02B.2                                                                                         | Decommissioning of Hardware                                             | The proper destruction of the media.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                | DCH-17                                                                                                                                 | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                   | 5                        |       | DCH-08       |
| AM-07.02B.3                                                                                         | Decommissioning of Hardware                                             | Account data needs to be deleted at least in cases where the data is located in the production environment for the operation of system components.                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Digital Media Sanitization                          | DCH-18                                                                                                                                 | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                    | 3                        |       | DCH-09       |
| AM-07.01AS                                                                                          | Decommissioning of Hardware                                             | AM-07.01AS, sharpening AM-07.01B<br>The cloud service provider defines, documents and implements a procedure for the decommissioning of hardware used to operate system components supporting the cloud service production, development, test or staging environment under the responsibility of the cloud service provider. As part of this procedure, approval by authorised personnel of the cloud service provider based on the applicable policies is required. | Functional     | Intersects With   | Decommissioning                                     | AST-36                                                                                                                                 | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that:<br>(1) Data is properly transitioned to new systems or archived; and<br>(2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations. | 8                        |       | AST-30       |
| AM-07.01AC                                                                                          | Decommissioning of Hardware                                             | The destruction of data on hardware components is carried out in such a manner that data recovery can be reasonably considered to be impossible.                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Secure Disposal, Destruction or Re-Use of Equipment | AST-22                                                                                                                                 | Mechanisms exist to securely dispose of, destroy or repurpose technology assets using organization-defined techniques and methods to prevent:<br>(1) Data recovery; and<br>(2) Components from being resold, redistributed and/or reused through unauthorized channels.                                                                                             | 5                        |       | AST-09       |
| AM-07.01AC                                                                                          | Decommissioning of Hardware                                             | The destruction of data on hardware components is carried out in such a manner that data recovery can be reasonably considered to be impossible.                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Digital Media Sanitization                          | DCH-18                                                                                                                                 | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                    | 8                        |       | DCH-09       |
| AM-08.01B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | The cloud service provider determines in a risk assessment (cf. OIS-07) if loss of or unauthorised access to assets could compromise the information security of the cloud service. If so, the cloud service provider's internal and external personnel is provably committed to the policies and procedures for proper use and safe and secure handling of assets before they can be used.                                                                          | Functional     | Intersects With   | Policy Familiarization & Acknowledgement            | HRS-08.2                                                                                                                               | Mechanisms exist to ensure personnel receive recurring familiarization with the organization's security, compliance and resilience policies and provide acknowledgement.                                                                                                                                                                                            | 5                        |       | HRS-05.7     |
| AM-08.01B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | The cloud service provider determines in a risk assessment (cf. OIS-07) if loss of or unauthorised access to assets could compromise the information security of the cloud service. If so, the cloud service provider's internal and external personnel is provably committed to the policies and procedures for proper use and safe and secure handling of assets before they can be used.                                                                          | Functional     | Intersects With   | Risk Assessment                                     | RSK-13                                                                                                                                 | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                               | 3                        |       | RSK-04       |
| AM-08.02B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | Any assets handed over are provably returned upon termination of employment.                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Return of Assets                                    | AST-23                                                                                                                                 | Mechanisms exist to ensure that employees and third-party users return all organizational assets in their possession upon termination of employment, contract or agreement.                                                                                                                                                                                         | 5                        |       | AST-10       |
| AM-08.02B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | Any assets handed over are provably returned upon termination of employment.                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Asset Collection                                    | HRS-12.2                                                                                                                               | Mechanisms exist to retrieve organization-owned assets upon termination of an individual's employment.                                                                                                                                                                                                                                                              | 8                        |       | HRS-09.1     |
| AM-08.03B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | If assets cannot be returned prior to or on the day of the termination, the cloud service provider removes the access rights of the personnel no later than the date of termination                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Personnel Termination                               | HRS-12                                                                                                                                 | Mechanisms exist to govern the termination of individual employment.                                                                                                                                                                                                                                                                                                | 5                        |       | HRS-09       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document:                             |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document URL:                         |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                    |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Published STRM URL:                         |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                            |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                 | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |  |
| AM-08.03B                                                                                           | Commitment to Proper Use, Safe and Secure Handling and Return of Assets | If assets cannot be returned prior to or on the day of the termination, the cloud service provider removes the access rights of the personnel no later than the date of termination                                                                                                                                                                                            | Functional     | Intersects With   | Termination of Employment                   | IAC-04.2 | Mechanisms exist to revoke user access rights in a timely manner, upon termination of employment or contract.                                                                                                                                                                                                                                                                                             | 3                        |       | IAC-07.2     |  |
| AM-09.01B                                                                                           | Asset Classification and Labelling                                      | Assets are classified and, if possible, labelled. Classification and labelling of an asset reflect the protection needs of the category of cloud service customer data, cloud service derived data, cloud service provider data and account data it processes, stores, or transmits.                                                                                           | Functional     | Intersects With   | Data & Asset Classification                 | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                              | 8                        |       | DCH-02       |  |
| AM-09.01B                                                                                           | Asset Classification and Labelling                                      | Assets are classified and, if possible, labelled. Classification and labelling of an asset reflect the protection needs of the category of cloud service customer data, cloud service derived data, cloud service provider data and account data it processes, stores, or transmits.                                                                                           | Functional     | Intersects With   | Media Marking                               | DCH-11   | Mechanisms exist to mark media in accordance with data protection requirements so that personnel are alerted to distribution limitations, handling caveats and applicable security requirements.                                                                                                                                                                                                          | 5                        |       | DCH-04       |  |
| AM-09.02B                                                                                           | Asset Classification and Labelling                                      | Classification levels are reviewed at least annually and in case of significant changes to the cloud service. Based on the review, the classification levels are updated where appropriate.                                                                                                                                                                                    | Functional     | Intersects With   | Data & Asset Classification                 | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                              | 5                        |       | DCH-02       |  |
| AM-09.03B                                                                                           | Asset Classification and Labelling                                      | The protection need is determined by the individuals or groups responsible for the assets of the cloud service provider according to a uniform and documented classification schema.                                                                                                                                                                                           | Functional     | Intersects With   | Data & Asset Classification                 | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                              | 3                        |       | DCH-02       |  |
| AM-09.03B                                                                                           | Asset Classification and Labelling                                      | The protection need is determined by the individuals or groups responsible for the assets of the cloud service provider according to a uniform and documented classification schema.                                                                                                                                                                                           | Functional     | Intersects With   | Data Stewardship                            | DCH-06   | Mechanisms exist to ensure data stewardship is assigned, documented and communicated.                                                                                                                                                                                                                                                                                                                     | 5                        |       | DCH-01.1     |  |
| AM-09.04B                                                                                           | Asset Classification and Labelling                                      | The classification schema provides levels of protection for the confidentiality, integrity, availability, and authenticity protection objectives. These protection objectives are aligned with delivery and recovery objectives set out in business and disaster recovery plans.                                                                                               | Functional     | Intersects With   | Data & Asset Classification                 | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                              | 3                        |       | DCH-02       |  |
| AM-09.04B                                                                                           | Asset Classification and Labelling                                      | The classification schema provides levels of protection for the confidentiality, integrity, availability, and authenticity protection objectives. These protection objectives are aligned with delivery and recovery objectives set out in business and disaster recovery plans.                                                                                               | Functional     | Intersects With   | Risk-Based Security Categorization          | RSK-07   | Mechanisms exist to categorize Technology Assets, Applications, Services and/or Data (TAASD) in accordance with applicable laws, regulations and contractual obligations that:<br>(1) Document the security categorization results (including supporting rationale) in the security plan for systems; and<br>(2) Ensure the security categorization decision is reviewed and approved by the asset owner. | 3                        |       | RSK-02       |  |
| AM-09.01AC                                                                                          | Asset Classification and Labelling                                      | The unique identification of physical devices serves as an additional method for connection authentication.                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Identification & Authentication for Devices | IAC-34   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.                                                                                                                                                                            | 5                        |       | IAC-04       |  |
| AM-09.02AC                                                                                          | Asset Classification and Labelling                                      | Device identification is integrated into the asset classification and labeling processes.                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Data & Asset Classification                 | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                              | 3                        |       | DCH-02       |  |
| AM-09.02AC                                                                                          | Asset Classification and Labelling                                      | Device identification is integrated into the asset classification and labeling processes.                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Identification & Authentication for Devices | IAC-34   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.                                                                                                                                                                            | 3                        |       | IAC-04       |  |
| AM-09.03AC                                                                                          | Asset Classification and Labelling                                      | Logging and monitoring applications take the asset protection needs into account in order to inform the responsible stakeholder of events that could lead to a violation of the protection goals, so that the necessary measures are taken with an appropriate priority.                                                                                                       | Functional     | Intersects With   | Continuous Monitoring                       | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                 | 3                        |       | MON-01       |  |
| AM-09.03AC                                                                                          | Asset Classification and Labelling                                      | Logging and monitoring applications take the asset protection needs into account in order to inform the responsible stakeholder of events that could lead to a violation of the protection goals, so that the necessary measures are taken with an appropriate priority.                                                                                                       | Functional     | Intersects With   | Impact-Level Prioritization                 | RSK-07.1 | Mechanisms exist to prioritize the impact level for Technology Assets, Applications and/or Services (TAAS) to prevent potential disruptions.                                                                                                                                                                                                                                                              | 3                        |       | RSK-02.1     |  |
| AM-09.04AC                                                                                          | Asset Classification and Labelling                                      | Actions for events on assets with a higher level of protection take precedence over events on assets with a lower protection need.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Impact-Level Prioritization                 | RSK-07.1 | Mechanisms exist to prioritize the impact level for Technology Assets, Applications and/or Services (TAAS) to prevent potential disruptions.                                                                                                                                                                                                                                                              | 5                        |       | RSK-02.1     |  |
| AM-10.01B                                                                                           | Protection of Hardware on Hold                                          | Based on a risk assessment (cf. OIS-07), the cloud service provider has documented and implemented a procedure for protecting hardware components of the cloud service's production environment that are temporarily not in use. The procedure supports the secure storage and protection against unauthorised access or damage of inactive hardware until it is needed again. | Functional     | Intersects With   | Security of Assets & Media                  | AST-18   | Mechanisms exist to maintain strict control over Technology Assets, Applications, Services and/or Data (TAASD) to preserve confidentiality and integrity.                                                                                                                                                                                                                                                 | 5                        |       | AST-05       |  |
| AM-10.01B                                                                                           | Protection of Hardware on Hold                                          | Based on a risk assessment (cf. OIS-07), the cloud service provider has documented and implemented a procedure for protecting hardware components of the cloud service's production environment that are temporarily not in use. The procedure supports the secure storage and protection against unauthorised access or damage of inactive hardware until it is needed again. | Functional     | Intersects With   | Media Storage                               | DCH-13   | Mechanisms exist to:<br>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and<br>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures.                                                                                                     | 3                        |       | DCH-06       |  |
| AM-10.01AS                                                                                          | Protection of Hardware on Hold                                          | AM-10.01AS, sharpening AM-10.01B<br>Based on a risk assessment (cf. OIS-07), the cloud service provider has documented and implemented a procedure for protecting any hardware components that are temporarily not in use. The procedure supports the secure storage and protection against unauthorised access or damage of inactive hardware until it is needed again.       | Functional     | Intersects With   | Security of Assets & Media                  | AST-18   | Mechanisms exist to maintain strict control over Technology Assets, Applications, Services and/or Data (TAASD) to preserve confidentiality and integrity.                                                                                                                                                                                                                                                 | 5                        |       | AST-05       |  |
| AM-10.01AS                                                                                          | Protection of Hardware on Hold                                          | AM-10.01AS, sharpening AM-10.01B<br>Based on a risk assessment (cf. OIS-07), the cloud service provider has documented and implemented a procedure for protecting any hardware components that are temporarily not in use. The procedure supports the secure storage and protection against unauthorised access or damage of inactive hardware until it is needed again.       | Functional     | Intersects With   | Media Storage                               | DCH-13   | Mechanisms exist to:<br>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and<br>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures.                                                                                                     | 3                        |       | DCH-06       |  |
| AM-11.01B                                                                                           | Transfer of Hardware                                                    | Based on a risk assessment (cf. OIS-07), the cloud service provider ensures the secure and controlled transfer of hardware objects used in the cloud service production environment to an offsite or alternate location.                                                                                                                                                       | Functional     | Intersects With   | Removal of Assets                           | AST-24   | Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.                                                                                                                                                                                                                                                                                        | 8                        |       | AST-11       |  |
| AM-11.02B                                                                                           | Transfer of Hardware                                                    | The transfer of hardware is authorised by designated personnel.                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Removal of Assets                           | AST-24   | Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.                                                                                                                                                                                                                                                                                        | 5                        |       | AST-11       |  |
| AM-11.03B                                                                                           | Transfer of Hardware                                                    | The cloud service provider ensures that all transfers of hardware objects used in the cloud service production environment are conducted using secure, documented methods designed to prevent unauthorised access, tampering, data leakage, or loss during transit. These methods include physical protection, chain-of-custody tracking, and verification upon receipt.       | Functional     | Intersects With   | Removal of Assets                           | AST-24   | Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.                                                                                                                                                                                                                                                                                        | 5                        |       | AST-11       |  |
| AM-11.03B                                                                                           | Transfer of Hardware                                                    | The cloud service provider ensures that all transfers of hardware objects used in the cloud service production environment are conducted using secure, documented methods designed to prevent unauthorised access, tampering, data leakage, or loss during transit. These methods include physical protection, chain-of-custody tracking, and verification upon receipt.       | Functional     | Intersects With   | Media Transportation                        | DCH-16   | Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.                                                                                                                                                                                                                                                   | 5                        |       | DCH-07       |  |
| AM-12.01B                                                                                           | Removable Media and Endpoint Devices                                    | Based on a risk assessment (cf. OIS-07), the cloud service provider designs, implements and maintains controls for endpoint devices and removable storage media regarding the following aspects:                                                                                                                                                                               | Functional     | Intersects With   | Removable Media Security                    | DCH-21   | Mechanisms exist to restrict removable media in accordance with data handling and acceptable usage parameters.                                                                                                                                                                                                                                                                                            | 5                        |       | DCH-12       |  |
| AM-12.01B                                                                                           | Removable Media and Endpoint Devices                                    | Based on a risk assessment (cf. OIS-07), the cloud service provider designs, implements and maintains controls for endpoint devices and removable storage media regarding the following aspects:                                                                                                                                                                               | Functional     | Intersects With   | Endpoint Device Management (EDM)            | END-02   | Mechanisms exist to facilitate the implementation of Endpoint Device Management (EDM) controls.                                                                                                                                                                                                                                                                                                           | 3                        |       | END-01       |  |
| AM-12.01B.1                                                                                         | Removable Media and Endpoint Devices                                    | Except for system administrative tasks for which no other method is available, the use of removable media is forbidden;                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Digital Media Use Restrictions              | DCH-19   | Mechanisms exist to restrict the use of types of digital media on systems or system components.                                                                                                                                                                                                                                                                                                           | 8                        |       | DCH-10       |  |
| AM-12.01B.2                                                                                         | Removable Media and Endpoint Devices                                    | Removable media is used for dedicated, specific purposes only;                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Digital Media Use Restrictions              | DCH-19   | Mechanisms exist to restrict the use of types of digital media on systems or system components.                                                                                                                                                                                                                                                                                                           | 5                        |       | DCH-10       |  |
| AM-12.01B.2                                                                                         | Removable Media and Endpoint Devices                                    | Removable media is used for dedicated, specific purposes only;                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Removable Media Security                    | DCH-21   | Mechanisms exist to restrict removable media in accordance with data handling and acceptable usage parameters.                                                                                                                                                                                                                                                                                            | 3                        |       | DCH-12       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         |                |                   | Focal Document:                                      |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                   |                          |       |              |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Secure Controls Framework (SCF) version 2026.3                                                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         |                |                   | Focal Document URL:                                  |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         |                |                   | Published STRM URL:                                  |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                        |                          |       |              |
| FDE #                                                                                               | FDE Name                                                 | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                | STRM Rationale | STRM Relationship | SCF Control                                          | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
| AM-12.01B.3                                                                                         | Removable Media and Endpoint Devices                     | Storage encryption is enabled on managed endpoints and removable storage media (except those used for unavoidable system administration actions) to protect information from unauthorised disclosure;                                                                                                                                                                                                   | Functional     | Intersects With   | Encrypting Data At Rest                              | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                                | 5                        |       | CRY-05       |
| AM-12.01B.3                                                                                         | Removable Media and Endpoint Devices                     | Storage encryption is enabled on managed endpoints and removable storage media (except those used for unavoidable system administration actions) to protect information from unauthorised disclosure;                                                                                                                                                                                                   | Functional     | Intersects With   | Full Device & Container-Based Encryption             | MDM-04   | Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption.                                                                                                                                             | 3                        |       | MDM-03       |
| AM-12.01B.4                                                                                         | Removable Media and Endpoint Devices                     | Managed endpoints are configured with anti-malware detection and prevention technology and services;                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Malicious Code Protection (Antimalware)              | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                                                                             | 8                        |       | END-04       |
| AM-12.01B.5                                                                                         | Removable Media and Endpoint Devices                     | Self-execution from removable storage is disabled and storage media is scanned before use on the cloud service provider's systems;                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Removable Media Security                             | DCH-21   | Mechanisms exist to restrict removable media in accordance with data handling and acceptable usage parameters.                                                                                                                                                                                        | 5                        |       | DCH-12       |
| AM-12.01B.5                                                                                         | Removable Media and Endpoint Devices                     | Self-execution from removable storage is disabled and storage media is scanned before use on the cloud service provider's systems;                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Heuristic / Nonsignature-Based Malware Detection     | END-04.2 | Mechanisms exist to utilize heuristic / nonsignature-based antimalware detection capabilities.                                                                                                                                                                                                        | 3                        |       | END-04.4     |
| AM-12.01B.6                                                                                         | Removable Media and Endpoint Devices                     | Measures are to be taken by users to protect mobile endpoints and removable storage in transit and in storage;                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Media Storage                                        | DCH-13   | Mechanisms exist to:<br>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and<br>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures. | 3                        |       | DCH-06       |
| AM-12.01B.6                                                                                         | Removable Media and Endpoint Devices                     | Measures are to be taken by users to protect mobile endpoints and removable storage in transit and in storage;                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Media Transportation                                 | DCH-16   | Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security                                                                                                                                                         | 3                        |       | DCH-07       |
| AM-12.01B.7                                                                                         | Removable Media and Endpoint Devices                     | Protection in terms of confidentiality and integrity of any equipment containing cloud service customer data during the transfer off-site for disposal is equivalent to that on the site;                                                                                                                                                                                                               | Functional     | Intersects With   | Secure Disposal, Destruction or Re-Use of Equipment  | AST-22   | Mechanisms exist to securely dispose of, destroy or repurpose technology assets using organization-defined techniques and methods to prevent:<br>(1) Data recovery; and<br>(2) Components from being resold, redistributed and/or reused through unauthorized channels.                               | 3                        |       | AST-09       |
| AM-12.01B.7                                                                                         | Removable Media and Endpoint Devices                     | Protection in terms of confidentiality and integrity of any equipment containing cloud service customer data during the transfer off-site for disposal is equivalent to that on the site;                                                                                                                                                                                                               | Functional     | Intersects With   | Media Transportation                                 | DCH-16   | Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security                                                                                                                                                         | 5                        |       | DCH-07       |
| AM-12.01B.8                                                                                         | Removable Media and Endpoint Devices                     | Cloud service customer data and cloud service derived data stored on shareable equipment is encrypted in accordance with CRY-05 or destroyed using a secure deletion mechanism before the equipment is shared with a third party;                                                                                                                                                                       | Functional     | Intersects With   | Encrypting Data At Rest                              | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                                | 3                        |       | CRY-05       |
| AM-12.01B.8                                                                                         | Removable Media and Endpoint Devices                     | Cloud service customer data and cloud service derived data stored on shareable equipment is encrypted in accordance with CRY-05 or destroyed using a secure deletion mechanism before the equipment is shared with a third party;                                                                                                                                                                       | Functional     | Intersects With   | Digital Media Sanitization                           | DCH-18   | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                      | 5                        |       | DCH-09       |
| AM-12.01B.9                                                                                         | Removable Media and Endpoint Devices                     | Users are to use mobile endpoints and removable storage in a secure manner, this includes for example not leaving media openly accessible in public spaces, using screen locks and screen privacy films; and                                                                                                                                                                                            | Functional     | Intersects With   | Unattended End-User Equipment                        | AST-20   | Mechanisms exist to implement enhanced protection measures for unattended technology assets to protect against tampering and                                                                                                                                                                          | 5                        |       | AST-06       |
| AM-12.01B.9                                                                                         | Removable Media and Endpoint Devices                     | Users are to use mobile endpoints and removable storage in a secure manner, this includes for example not leaving media openly accessible in public spaces, using screen locks and screen privacy films; and                                                                                                                                                                                            | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training | SAT-04   | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                                                   | 3                        |       | SAT-02       |
| AM-12.01B.10                                                                                        | Removable Media and Endpoint Devices                     | Measures for maintaining proper security of third party endpoints with access to organisational assets are to be defined.                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Use of Third-Party Devices                           | AST-26   | Mechanisms exist to reduce the risk associated with third-party assets that are connected to the network from:<br>(1) Harming organizational assets;<br>(2) Accessing unauthorized resources within the organization; and/or<br>(3) Exfiltrating organizational data.                                 | 5                        |       | AST-13       |
| AM-12.01B.10                                                                                        | Removable Media and Endpoint Devices                     | Measures for maintaining proper security of third party endpoints with access to organisational assets are to be defined.                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Documented Endpoint Security Protection Measures     | END-06   | Mechanisms exist to document endpoint protection-related Technology Assets, Applications and/or Services (TAAS)                                                                                                                                                                                       | 5                        |       | END-04.2     |
| AM-12.01B.10                                                                                        | Removable Media and Endpoint Devices                     | Measures for maintaining proper security of third party endpoints with access to organisational assets are to be defined.                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Third-Party Personnel Security                       | TPM-13   | Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.                                                                                                                                                                  | 3                        |       | TPM-06       |
| AM-12.01AC                                                                                          | Removable Media and Endpoint Devices                     | Policies and procedures for endpoint devices and removable storage media furthermore contain the following aspects:<br>Managed endpoints are configured with appropriate software firewalls;                                                                                                                                                                                                            | Functional     | Intersects With   | Endpoint Device Management (EDM)                     | END-02   | Mechanisms exist to facilitate the implementation of Endpoint Device Management (EDM) controls.                                                                                                                                                                                                       | 3                        |       | END-01       |
| AM-12.01AC.1                                                                                        | Removable Media and Endpoint Devices                     | Managed endpoints are configured with appropriate software firewalls;                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Software Firewall                                    | END-07   | Mechanisms exist to utilize host-based firewall software, or a similar technology, on all endpoint devices, where technically feasible.                                                                                                                                                               | 5                        |       | END-05       |
| AM-12.01AC.2                                                                                        | Removable Media and Endpoint Devices                     | Managed endpoints are configured with Data Loss Prevention (DLP) technologies and rules in accordance with a risk assessment (cf. OIS-07);                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Data Loss Prevention (DLP)                           | DCH-40   | Automated mechanisms exist to implement Data Loss Prevention (DLP) to protect sensitive information as it is stored, transmitted and                                                                                                                                                                  | 5                        |       | NET-17       |
| AM-12.01AC.3                                                                                        | Removable Media and Endpoint Devices                     | Remote geo-location capabilities are enabled for all managed mobile endpoints; and                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Automated Location Tracking                          | AST-09.3 | Mechanisms exist to track the geographic location of system components.                                                                                                                                                                                                                               | 5                        |       | AST-02.10    |
| AM-12.01AC.3                                                                                        | Removable Media and Endpoint Devices                     | Remote geo-location capabilities are enabled for all managed mobile endpoints; and                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Centralized Management Of Mobile Devices             | MDM-02   | Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.                                                                                                                                                                                                                     | 3                        |       | MDM-01       |
| AM-12.01AC.4                                                                                        | Removable Media and Endpoint Devices                     | Define, implement and evaluate processes, procedures and technical safeguards to enable the deletion of company data remotely on managed endpoint devices.                                                                                                                                                                                                                                              | Functional     | Intersects With   | Remote Purging                                       | MDM-09   | Mechanisms exist to remotely purge selected information from mobile devices.                                                                                                                                                                                                                          | 8                        |       | MDM-05       |
| 5.5                                                                                                 | Physical Security (PS)                                   | Objective: Prevent unauthorised physical access and protect against theft, damage, loss and outage of operations.                                                                                                                                                                                                                                                                                       | Functional     | No Relationship   | N/A                                                  | N/A      | N/A                                                                                                                                                                                                                                                                                                   | 0                        |       |              |
| PS-01.01B                                                                                           | Physical Security and Environmental Control Requirements | The cloud service provider defines and documents at least two security areas, with at least one sensitive area and one public area. A sensitive area covers the buildings and premises in which sensitive activities take place, such as hosting the system components used for providing the cloud service. A public area covers all buildings and premises not otherwise covered by a security area.  | Functional     | Intersects With   | Zone-Based Physical Security                         | PES-04   | Mechanisms exist to implement a zone-based approach to physical security.                                                                                                                                                                                                                             | 8                        |       | PES-01.2     |
| PS-01.02B                                                                                           | Physical Security and Environmental Control Requirements | Security requirements for premises and buildings related to the cloud service provided are based on the security objectives of the information security policy, protection needs identified for the cloud service and a risk assessment regarding physical and environmental security. The security requirements are documented, communicated and provided in a policy or framework according to SP-01. | Functional     | Intersects With   | Physical & Environmental Security Policy             | PES-01   | Mechanisms exist to establish a formal, documented physical and environmental security policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and                                          | 5                        |       |              |
| PS-01.02B                                                                                           | Physical Security and Environmental Control Requirements | Security requirements for premises and buildings related to the cloud service provided are based on the security objectives of the information security policy, protection needs identified for the cloud service and a risk assessment regarding physical and environmental security. The security requirements are documented, communicated and provided in a policy or framework according to SP-01. | Functional     | Intersects With   | Physical Security Plan (PSP)                         | PES-03   | Mechanisms exist to document a Physical Security Plan (PSP), or similar document, to summarize the implemented security controls to protect physical access to technology assets, as well as applicable risks and threats.                                                                            | 8                        |       | PES-01.1     |
| PS-01.02B                                                                                           | Physical Security and Environmental Control Requirements | Security requirements for premises and buildings related to the cloud service provided are based on the security objectives of the information security policy, protection needs identified for the cloud service and a risk assessment regarding physical and environmental security. The security requirements are documented, communicated and provided in a policy or framework according to SP-01. | Functional     | Intersects With   | Risk Assessment                                      | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                 | 3                        |       | RSK-04       |
| PS-01.03B                                                                                           | Physical Security and Environmental Control Requirements | Security requirements for data centres are based on criteria in accordance with established rules of technology and the criteria PS-02 to PS-07. They are suitable for addressing the following risks in accordance with the applicable legal and contractual requirements:                                                                                                                             | Functional     | Intersects With   | Physical Security Plan (PSP)                         | PES-03   | Mechanisms exist to document a Physical Security Plan (PSP), or similar document, to summarize the implemented security controls to protect physical access to technology assets, as well as applicable risks and threats.                                                                            | 5                        |       | PES-01.1     |
| PS-01.03B.1                                                                                         | Physical Security and Environmental Control Requirements | Faults in planning;                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Physical Security Plan (PSP)                         | PES-03   | Mechanisms exist to document a Physical Security Plan (PSP), or similar document, to summarize the implemented security controls to protect physical access to technology assets, as well as applicable risks and threats.                                                                            | 3                        |       | PES-01.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Focal Document:                                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                            |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Focal Document URL:                                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                         |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Published STRM URL:                                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                 |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                 | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship | SCF Control                                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                            | Strength of Relationship | Notes | Legacy SCF # |  |
| PS-01.03B.2                                                                                         | Physical Security and Environmental Control Requirements | Unauthorised access (including access to the premises by drones);                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Physical Access Control                                                   | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).                             | 5                        |       | PES-03       |  |
| PS-01.03B.3                                                                                         | Physical Security and Environmental Control Requirements | Insufficient surveillance;                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Monitoring Physical Access                                                | PES-13   | Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.                                                                                                                                                                                    | 5                        |       | PES-05       |  |
| PS-01.03B.4                                                                                         | Physical Security and Environmental Control Requirements | Lightning and overvoltage (aligned with the internationally harmonised standards of IEC 62305);                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Automatic Voltage Controls                                                | PES-20.1 | Facility security mechanisms exist to utilize automatic voltage controls for critical system components.                                                                                                                                                                                       | 3                        |       | PES-07.1     |  |
| PS-01.03B.5                                                                                         | Physical Security and Environmental Control Requirements | Fire and smoke;                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Fire Protection                                                           | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                                                                                                                   | 5                        |       | PES-08       |  |
| PS-01.03B.6                                                                                         | Physical Security and Environmental Control Requirements | Unwanted water;                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Water Damage Protection                                                   | PES-24   | Facility security mechanisms exist to protect systems from damage resulting from water leakage by providing master shutoff valves that are accessible, working properly and known to key                                                                                                       | 5                        |       | PES-07.5     |  |
| PS-01.03B.7                                                                                         | Physical Security and Environmental Control Requirements | Failures and/or unavailable telecommunications;                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Supporting Utilities                                                      | PES-20   | Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.                                                                                                                                                                    | 5                        |       | PES-07       |  |
| PS-01.03B.8                                                                                         | Physical Security and Environmental Control Requirements | Power failure; and                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Emergency Power                                                           | PES-22   | Facility security mechanisms exist to supply alternate power, capable of maintaining minimally-required operational capability, in the event of an extended loss of the primary power source.                                                                                                  | 5                        |       | PES-07.3     |  |
| PS-01.03B.9                                                                                         | Physical Security and Environmental Control Requirements | Insufficient heating, ventilation, airconditioning (HVAC) and filtration.                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring                                | PES-29   | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                                | 5                        |       | PES-09       |  |
| PS-01.04B                                                                                           | Physical Security and Environmental Control Requirements | The maximum tolerable downtimes of utility facilities are suitable for meeting the availability requirements contained in the service level agreement.                                                                                                                                                                                                                                   | Functional     | Intersects With   | Business Continuity Management System (BCMS)                              | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                | 3                        |       | BCD-01       |  |
| PS-01.04B                                                                                           | Physical Security and Environmental Control Requirements | The maximum tolerable downtimes of utility facilities are suitable for meeting the availability requirements contained in the service level agreement.                                                                                                                                                                                                                                   | Functional     | Intersects With   | Supporting Utilities                                                      | PES-20   | Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.                                                                                                                                                                    | 3                        |       | PES-07       |  |
| PS-01.05B                                                                                           | Physical Security and Environmental Control Requirements | If the cloud service provider operates the cloud service in data centres operated by service organisations, the document describes:                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix | TPM-11   | Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for security, compliance and resilience controls between internal stakeholders and External Service Providers (ESPs). | 3                        |       | TPM-05.4     |  |
| PS-01.05B.1                                                                                         | Physical Security and Environmental Control Requirements | The complementary subservice organisation controls (CSOC) expected at the service organisations; and                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                   | 5                        |       | TPM-05       |  |
| PS-01.05B.2                                                                                         | Physical Security and Environmental Control Requirements | The measures for monitoring the design and operation of controls at the service organisations with respect to these CSOC (cf. SSO-05).                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Review of Third-Party Services                                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                          | 5                        |       | TPM-08       |  |
| PS-01.06B                                                                                           | Physical Security and Environmental Control Requirements | If the cloud service provider operates the cloud service in data centres operated by service organisations, the cloud service provider performs a verification of the implementation of suitable CSOC in accordance with the criteria for controlling and monitoring service organisations (cf. SSO-05).                                                                                 | Functional     | Intersects With   | Review of Third-Party Services                                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                          | 5                        |       | TPM-08       |  |
| PS-01.01AC                                                                                          | Physical Security and Environmental Control Requirements | The security requirements include time constraints for self-sufficient operation in the event of exceptional events (e.g. prolonged power outage, heat waves, low water in cold river water supply) and maximum tolerable utility downtime.                                                                                                                                              | Functional     | Intersects With   | Supporting Utilities                                                      | PES-20   | Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.                                                                                                                                                                    | 3                        |       | PES-07       |  |
| PS-01.02AC                                                                                          | Physical Security and Environmental Control Requirements | The security requirements include time limits in order to provide self-sufficient operation of a location for at least 72 hours in the event of a failure of the external power supply, or until all services are transferred to another location.                                                                                                                                       | Functional     | Intersects With   | Emergency Power                                                           | PES-22   | Facility security mechanisms exist to supply alternate power, capable of maintaining minimally-required operational capability, in the event of an extended loss of the primary power source.                                                                                                  | 3                        |       | PES-07.3     |  |
| PS-01.03AC                                                                                          | Physical Security and Environmental Control Requirements | The security requirements for a self-sufficient operation during a heat period are based on the highest outside temperatures that can reasonably be estimated to occur at the locations of the premises and buildings within the lifespan of the cooling supply system. The cloud service provider determines these temperatures with an appropriate safety margin.                      | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring                                | PES-29   | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                                | 3                        |       | PES-09       |  |
| PS-01.04AC                                                                                          | Physical Security and Environmental Control Requirements | The security requirements stipulate that the permissible operating and environmental parameters of the cooling supply system shall also be maintained on at least five consecutive days with these outside temperatures including the safety margin (cf. PS-06).                                                                                                                         | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring                                | PES-29   | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                                | 3                        |       | PES-09       |  |
| PS-01.05AC                                                                                          | Physical Security and Environmental Control Requirements | The security requirements take into account that if water is taken from a body of water (e.g., river or lake) for air conditioning, it is determined at which water levels and water temperatures the air conditioning can be maintained for how long.                                                                                                                                   | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring                                | PES-29   | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                                | 3                        |       | PES-09       |  |
| PS-02.01B                                                                                           | Redundancy Model                                         | The cloud service is provided from at least two locations. The locations meet the security requirements of the cloud service provider (cf. PS-01) and are located in an adequate distance to each other to achieve operational redundancy and resilience.                                                                                                                                | Functional     | Intersects With   | Alternate Processing Site                                                 | BCD-13   | Mechanisms exist to establish an alternate processing site that provides processing capability and security measures equivalent to that of the primary site.                                                                                                                                   | 5                        |       | BCD-09       |  |
| PS-02.01B                                                                                           | Redundancy Model                                         | The cloud service is provided from at least two locations. The locations meet the security requirements of the cloud service provider (cf. PS-01) and are located in an adequate distance to each other to achieve operational redundancy and resilience.                                                                                                                                | Functional     | Intersects With   | Physical Security Plan (PSP)                                              | PES-03   | Mechanisms exist to document a Physical Security Plan (PSP), or similar document, to summarize the implemented security controls to protect physical access to technology assets, as well as applicable risks and threats.                                                                     | 3                        |       | PES-01.1     |  |
| PS-02.02B                                                                                           | Redundancy Model                                         | Operational redundancy is designed in a way that ensures that the availability requirements specified in the service level agreement are met.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Business Continuity Management System (BCMS)                              | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                | 3                        |       | BCD-01       |  |
| PS-02.02B                                                                                           | Redundancy Model                                         | Operational redundancy is designed in a way that ensures that the availability requirements specified in the service level agreement are met.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Alternate Processing Site                                                 | BCD-13   | Mechanisms exist to establish an alternate processing site that provides processing capability and security measures equivalent to that of the                                                                                                                                                 | 3                        |       | BCD-09       |  |
| PS-02.03B                                                                                           | Redundancy Model                                         | The effectiveness of the redundancy is checked at least annually by suitable tests and exercises (cf. BCM-04).                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Contingency Plan Testing & Exercises                                      | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                                                      | 5                        |       | BCD-04       |  |
| PS-02.01AS                                                                                          | Redundancy Model                                         | PS-02.01AS, sharpening PS-02.01B<br>The cloud service is provided from more than two locations. The locations meet the security requirements of the cloud service provider (cf. PS-01) and are located sufficiently far apart to achieve georedundancy and resilience. If two locations fail at the same time, at least one third location is still available to prevent a total service | Functional     | Intersects With   | Alternate Processing Site                                                 | BCD-13   | Mechanisms exist to establish an alternate processing site that provides processing capability and security measures equivalent to that of the primary site.                                                                                                                                   | 3                        |       | BCD-09       |  |
| PS-02.02AS                                                                                          | Redundancy Model                                         | PS-02.02AS, sharpening PS-02.02B<br>The georedundancy is designed in a way that ensures that the availability requirements specified in the service level agreement are met.                                                                                                                                                                                                             | Functional     | Intersects With   | Alternate Processing Site                                                 | BCD-13   | Mechanisms exist to establish an alternate processing site that provides processing capability and security measures equivalent to that of the primary site.                                                                                                                                   | 3                        |       | BCD-09       |  |
| PS-03.01B                                                                                           | Perimeter Protection                                     | The structural shell of premises and buildings related to the cloud service provided are physically solid and protected by adequate security measures that meet the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                     | Functional     | Intersects With   | Controlled Ingress & Egress Points                                        | PES-09   | Physical access control mechanisms exist to limit and monitor physical access through controlled ingress and egress points.                                                                                                                                                                    | 5                        |       | PES-03.1     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document:                                       |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document URL:                                   |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                             |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Published STRM URL:                                   |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                     |                          |       |              |  |
| FDE #                                                                                               | FDE Name                     | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                           | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                | Strength of Relationship | Notes | Legacy SCF # |  |
| PS-03.01B                                                                                           | Perimeter Protection         | The structural shell of premises and buildings related to the cloud service provided are physically solid and protected by adequate security measures that meet the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Physical Security of Offices, Rooms & Facilities      | PES-10   | Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.                            | 5                        |       | PES-04       |  |
| PS-03.02B                                                                                           | Perimeter Protection         | The security measures are designed to detect and prevent unauthorised access so that the information security of the cloud service is not compromised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 5                        |       | PES-03       |  |
| PS-03.02B                                                                                           | Perimeter Protection         | The security measures are designed to detect and prevent unauthorised access so that the information security of the cloud service is not compromised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Monitoring Physical Access                            | PES-13   | Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.                                                                                                                                                        | 5                        |       | PES-05       |  |
| PS-03.03B                                                                                           | Perimeter Protection         | The outer doors, windows and other construction elements exhibit an appropriate security level so that their combined resistance time withstand a break-in attempt for at least ten minutes in total. This time period applies from the moment an external intruder is detected (e.g. by perimeter surveillance).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Physical Security of Offices, Rooms & Facilities      | PES-10   | Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.                            | 3                        |       | PES-04       |  |
| PS-03.04B                                                                                           | Perimeter Protection         | The surrounding wall constructions as well as the locking mechanisms meet the associated requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Physical Security of Offices, Rooms & Facilities      | PES-10   | Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.                            | 3                        |       | PES-04       |  |
| PS-03.05B                                                                                           | Perimeter Protection         | If the construction elements as a whole do not fully meet the associated requirements, compensating controls are implemented to restore the appropriate security level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Compensating Countermeasures                          | RSK-18   | Mechanisms exist to identify and implement one, or more, compensating controls to reduce risk and threat exposure when the primary means of implementing the security function is unavailable or compromised.                                                      | 5                        |       | RSK-06.2     |  |
| PS-03.06B                                                                                           | Perimeter Protection         | Data centre personnel are trained on how to respond effectively to unauthorised ingress or egress attempts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Monitoring Physical Access                            | PES-13   | Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.                                                                                                                                                        | 3                        |       | PES-05       |  |
| PS-03.06B                                                                                           | Perimeter Protection         | Data centre personnel are trained on how to respond effectively to unauthorised ingress or egress attempts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training:<br>(1) Before authorizing access to the system or performing assigned duties;<br>(2) When required by system changes; and<br>(3) Annually thereafter.                 | 5                        |       | SAT-03       |  |
| PS-03.01AC                                                                                          | Perimeter Protection         | The security measures installed at the site include permanently present security personnel (at least two individuals), video surveillance and anti-burglary systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 3                        |       | PES-03       |  |
| PS-03.01AC                                                                                          | Perimeter Protection         | The security measures installed at the site include permanently present security personnel (at least two individuals), video surveillance and anti-burglary systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Intrusion Alarms / Surveillance Equipment             | PES-13.1 | Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.                                                                                                                                                          | 5                        |       | PES-05.1     |  |
| PS-04.01B                                                                                           | Physical Site Access Control | Preventive and detective physical access controls in premises and buildings related to the cloud service provided are implemented. They are in accordance with the cloud service provider's security requirements (cf. PS-01) and based on the principles defined in IAM-01 to prevent unauthorised access. They are documented and communicated in a policy or framework in accordance with SP-01 and include the following aspects:<br>Preventive and detective physical access controls in premises and buildings related to the cloud service provided are implemented. They are in accordance with the cloud service provider's security requirements (cf. PS-01) and based on the principles defined in IAM-01 to prevent unauthorised access. They are documented and communicated in a policy or framework in accordance with SP-01 and include the following aspects: | Functional     | Intersects With   | Physical Access Authorizations                        | PES-06   | Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).                                    | 5                        |       | PES-02       |  |
| PS-04.01B                                                                                           | Physical Site Access Control | Preventive and detective physical access controls in premises and buildings related to the cloud service provided are implemented. They are in accordance with the cloud service provider's security requirements (cf. PS-01) and based on the principles defined in IAM-01 to prevent unauthorised access. They are documented and communicated in a policy or framework in accordance with SP-01 and include the following aspects:                                                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 8                        |       | PES-03       |  |
| PS-04.01B.1                                                                                         | Physical Site Access Control | Specified procedure for the granting and modifying of user accounts and access rights (cf. IAM-02) based on the 'least-privilege-principle' and the 'need-to-know-principle'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Physical Access Authorizations                        | PES-06   | Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).                                    | 5                        |       | PES-02       |  |
| PS-04.01B.1                                                                                         | Physical Site Access Control | Specified procedure for the granting and modifying of user accounts and access rights (cf. IAM-02) based on the 'least-privilege-principle' and the 'need-to-know-principle'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Role-Based Physical Access                            | PES-07   | Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.                                                                                                                               | 3                        |       | PES-02.1     |  |
| PS-04.01B.2                                                                                         | Physical Site Access Control | Revocation of access authorisations if they have not been used for a period of two months. Exceptions are only made for well-founded individual cases and follow a defined exception process according to SP-03;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Physical Access Authorizations                        | PES-06   | Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).                                    | 3                        |       | PES-02       |  |
| PS-04.01B.3                                                                                         | Physical Site Access Control | Authentication with at least one factor for access to any non-public area;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 5                        |       | PES-03       |  |
| PS-04.01B.4                                                                                         | Physical Site Access Control | Multi-factor authentication for access to areas hosting system components that process cloud service customer data;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Access To Critical Systems                            | PES-12   | Physical access control mechanisms exist to enforce physical access to critical systems or sensitive and/or regulated data, in addition to the physical access controls for the facility.                                                                          | 5                        |       | PES-03.4     |  |
| PS-04.01B.5                                                                                         | Physical Site Access Control | Existence and nature of access logging that enables the cloud service provider, in the sense of an effectiveness audit, to check whether only defined personnel have entered the premises and buildings related to the cloud service provided;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Physical Access Logs                                  | PES-09.1 | Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.                                                                                                                                      | 8                        |       | PES-03.3     |  |
| PS-04.01B.6                                                                                         | Physical Site Access Control | Physical access control exceptions applicable in case of emergency, including an analysis procedure following every use of these exceptions; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 3                        |       | PES-03       |  |
| PS-04.01B.7                                                                                         | Physical Site Access Control | For visitors and external personnel, measures that ensure identification and tracking of every individual such that their activities are traceable and - in case of activities that infringe information security - stoppable in an appropriate reaction time. These measures are appropriate and proportional to the sensitivity of the zone the visitors or external personnel are in. The appropriate reaction time frame is determined based on a risk assessment (cf. OIS-07).                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Visitor Control                                       | PES-14   | Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas designated as publicly accessible).                                                                                  | 5                        |       | PES-06       |  |
| PS-04.01B.7                                                                                         | Physical Site Access Control | For visitors and external personnel, measures that ensure identification and tracking of every individual such that their activities are traceable and - in case of activities that infringe information security - stoppable in an appropriate reaction time. These measures are appropriate and proportional to the sensitivity of the zone the visitors or external personnel are in. The appropriate reaction time frame is determined based on a risk assessment (cf. OIS-07).                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Restrict Unescorted Access                            | PES-14.3 | Physical access control mechanisms exist to restrict unescorted access to facilities to personnel with required security clearances, formal access authorizations and validate the need for access.                                                                | 5                        |       | PES-06.3     |  |
| PS-04.02B                                                                                           | Physical Site Access Control | The cloud service provider displays a warning at the entrance of each applicable non-public area regarding its limits and access conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Physical Security of Offices, Rooms & Facilities      | PES-10   | Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.                            | 3                        |       | PES-04       |  |
| PS-04.03B                                                                                           | Physical Site Access Control | Physical access control to the site is managed by an electronic access control system that supports authentication, authorisation, and logging of entry and exit events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Physical Access Control                               | PES-08   | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible). | 5                        |       | PES-03       |  |
| PS-04.03B                                                                                           | Physical Site Access Control | Physical access control to the site is managed by an electronic access control system that supports authentication, authorisation, and logging of entry and exit events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Physical Access Logs                                  | PES-09.1 | Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.                                                                                                                                      | 3                        |       | PES-03.3     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document:                      |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                        |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document URL:                  |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                     |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Published STRM URL:                  |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                             |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                                         | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | STRM Rationale | STRM Relationship | SCF Control                          | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |  |
| PS-05.01B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Premises and buildings related to the cloud service provided are protected from fire, smoke, lightning and unwanted water by structural, technical and organisational measures that meet the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Physical & Environmental Protections | PES-02   | Mechanisms exist to facilitate the operation of physical and environmental protection controls.                                                                                                            | 5                        |       | PES-01       |  |
| PS-05.01B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Premises and buildings related to the cloud service provided are protected from fire, smoke, lightning and unwanted water by structural, technical and organisational measures that meet the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Water Damage Protection              | PES-24   | Facility security mechanisms exist to protect systems from damage resulting from water leakage by providing master shutoff valves that are accessible, working properly and known to key                   | 3                        |       | PES-07.5     |  |
| PS-05.01B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Premises and buildings related to the cloud service provided are protected from fire, smoke, lightning and unwanted water by structural, technical and organisational measures that meet the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 5                        |       | PES-08       |  |
| PS-05.02B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Structural Measures include the following aspects:                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Physical & Environmental Protections | PES-02   | Mechanisms exist to facilitate the operation of physical and environmental protection controls.                                                                                                            | 3                        |       | PES-01       |  |
| PS-05.02B.1                                                                                         | Protection against Threats from Outside and from the Environment                                 | Establishment of fire sections with a fire resistance duration of at least 90 minutes for all structural parts, or alternatively, equivalent organisational and technical measures that ensure the same level of protection standard as 90-minutes fire-resistant structural parts or establishment of compensating measures for containing fires and maintaining operational capability. If compensating measures are taken into account, the fire resistance of structural parts has to be at least 60 minutes; | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 3                        |       | PES-08       |  |
| PS-05.02B.2                                                                                         | Protection against Threats from Outside and from the Environment                                 | Effective implementation of measures to protect against lightning and overvoltage damage; and                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Automatic Voltage Controls           | PES-20.1 | Facility security mechanisms exist to utilize automatic voltage controls for critical system components.                                                                                                   | 3                        |       | PES-07.1     |  |
| PS-05.02B.3                                                                                         | Protection against Threats from Outside and from the Environment                                 | Effective implementation of measures to protect against flooding, unless critical facilities are located significantly above the highest flood level at the location of the cloud data centre. Additionally, appropriate measures to mitigate the effects of heavy rain are implemented, unless critical facilities are located significantly above the backwater level at the location of the cloud data centre.                                                                                                 | Functional     | Intersects With   | Water Damage Protection              | PES-24   | Facility security mechanisms exist to protect systems from damage resulting from water leakage by providing master shutoff valves that are accessible, working properly and known to key personnel.        | 5                        |       | PES-07.5     |  |
| PS-05.03B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Technical Measures include the following aspects:                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 3                        |       | PES-08       |  |
| PS-05.03B.1                                                                                         | Protection against Threats from Outside and from the Environment                                 | Early fire detection with automatic voltage release. The monitored areas are sufficiently fragmented to ensure that the prevention of the spread of incipient fires is proportionate to the maintenance of the availability of the cloud service provided;                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Fire Detection Devices               | PES-27   | Facility security mechanisms exist to utilize and maintain fire detection devices/systems that activate automatically and notify organizational personnel and emergency responders in the event of a fire. | 5                        |       | PES-08.1     |  |
| PS-05.03B.2                                                                                         | Protection against Threats from Outside and from the Environment                                 | Extinguishing system or oxygen reduction; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Fire Suppression Devices             | PES-28   | Facility security mechanisms exist to utilize fire suppression devices/systems that provide automatic notification of any activation to organizational personnel and emergency responders.                 | 5                        |       | PES-08.2     |  |
| PS-05.03B.2                                                                                         | Protection against Threats from Outside and from the Environment                                 | Extinguishing system or oxygen reduction; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Automatic Fire Suppression           | PES-28.1 | Facility security mechanisms exist to employ an automatic fire suppression capability for critical systems when the facility is not staffed on a continuous basis.                                         | 3                        |       | PES-08.3     |  |
| PS-05.03B.3                                                                                         | Protection against Threats from Outside and from the Environment                                 | Fire alarm system with reporting to the local fire department.                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Fire Detection Devices               | PES-27   | Facility security mechanisms exist to utilize and maintain fire detection devices/systems that activate automatically and notify organizational personnel and emergency responders in the event of a fire. | 5                        |       | PES-08.1     |  |
| PS-05.04B                                                                                           | Protection against Threats from Outside and from the Environment                                 | Organisational Measures include the following aspects:                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 3                        |       | PES-08       |  |
| PS-05.04B.1                                                                                         | Protection against Threats from Outside and from the Environment                                 | Regular fire protection inspections to check compliance with fire protection requirements; and                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 3                        |       | PES-08       |  |
| PS-05.04B.2                                                                                         | Protection against Threats from Outside and from the Environment                                 | Regular fire protection exercises.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Fire Protection                      | PES-26   | Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.                               | 3                        |       | PES-08       |  |
| PS-06.01B                                                                                           | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Measures to prevent the failure of the technical supply facilities required for the operation of system components with which cloud service customer data is processed and to protect equipment containing cloud service customer data, are documented and set up in accordance with the security requirements of the cloud service provider (cf. PS-01) with respect to the following aspects:                                                                                                                   | Functional     | Intersects With   | Supporting Utilities                 | PES-20   | Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.                                                                                | 8                        |       | PES-07       |  |
| PS-06.01B.1                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Operational redundancy (N+1) in power and cooling supply;                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Supporting Utilities                 | PES-20   | Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.                                                                                | 5                        |       | PES-07       |  |
| PS-06.01B.1                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Operational redundancy (N+1) in power and cooling supply;                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Redundant Cabling                    | PES-25   | Mechanisms exist to employ redundant power cabling paths that are physically separated to ensure that power continues to flow in the event one of the cables is cut or otherwise damaged.                  | 3                        |       | PES-07.7     |  |
| PS-06.01B.2                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Use of appropriately sized uninterruptible power supplies (UPSes) and emergency power supplies (EPSes), designed to ensure that all data remains undamaged in the event of a power failure. The functionality of UPSes and EPSes is checked at least annually by suitable tests and exercises (cf. BCM-04);                                                                                                                                                                                                       | Functional     | Intersects With   | Contingency Plan Testing & Exercises | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                  | 3                        |       | BCD-04       |  |
| PS-06.01B.2                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Use of appropriately sized uninterruptible power supplies (UPSes) and emergency power supplies (EPSes), designed to ensure that all data remains undamaged in the event of a power failure. The functionality of UPSes and EPSes is checked at least annually by suitable tests and exercises (cf. BCM-04);                                                                                                                                                                                                       | Functional     | Intersects With   | Emergency Power                      | PES-22   | Facility security mechanisms exist to supply alternate power, capable of maintaining minimally-required operational capability, in the event of an extended loss of the primary power source.              | 5                        |       | PES-07.3     |  |
| PS-06.01B.3                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Maintenance (servicing, inspection, repair) of the utilities in accordance with the manufacturer's recommendations; and                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Controlled Maintenance               | MNT-03   | Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the Technology Asset, Application and/or Service (TAAS).                                                         | 5                        |       | MNT-02       |  |
| PS-06.01B.4                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Protection of power supply and telecommunications lines against interruption, interference, damage and eavesdropping.                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Transmission Medium Security         | PES-16.1 | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                             | 5                        |       | PES-12.1     |  |
| PS-06.02B                                                                                           | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Uninterruptible Power Supplies (UPSes) and Emergency Power Supplies (EPSes) are implemented to comply with the availability requirements defined in the Service Level Agreement.                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Emergency Power                      | PES-22   | Facility security mechanisms exist to supply alternate power, capable of maintaining minimally-required operational capability, in the event of an extended loss of the primary power source.              | 5                        |       | PES-07.3     |  |
| PS-06.03B                                                                                           | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The protection of power supply and telecommunications lines is checked regularly, but at least every two years as well as in case of suspected manipulation, by qualified personnel regarding the following aspects:                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Transmission Medium Security         | PES-16.1 | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                             | 5                        |       | PES-12.1     |  |
| PS-06.03B.1                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Traces of violent attempts to open closed distributors;                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Physical Tampering Detection         | AST-29.1 | Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoC).                                                                                                 | 3                        |       | AST-08       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document:                                  | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                    |                                                                                                                                                                                                                                                                                       |                          |       |                  |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                              | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                                                                                                                                                                                                                       |                          |       |                  |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                              | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                                                                                                                                                                                                                                       |                          |       |                  |  |
| FDE #                                                                                               | FDE Name                                                                                         | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                      | SCF #                                                                                                                                  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF #     |  |
| PS-06.03B.1                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Traces of violent attempts to open closed distributors;                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Transmission Medium Security                     | PES-16.1                                                                                                                               | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                                                                                                        | 3                        |       | PES-12.1         |  |
| PS-06.03B.2                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Up-to-dateness of the documentation within the distributor;                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Transmission Medium Security                     | PES-16.1                                                                                                                               | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                                                                                                        | 3                        |       | PES-12.1         |  |
| PS-06.03B.3                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Conformity of the actual wiring and patching with the documentation;                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Transmission Medium Security                     | PES-16.1                                                                                                                               | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                                                                                                        | 3                        |       | PES-12.1         |  |
| PS-06.03B.4                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The short-circuits and earthing of unneeded cables and wires are intact; and                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Transmission Medium Security                     | PES-16.1                                                                                                                               | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                                                                                                        | 3                        |       | PES-12.1         |  |
| PS-06.03B.5                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Impermissible installations and modifications.                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Physical Tampering Detection                     | AST-29.1                                                                                                                               | Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoC).                                                                                                                                                                            | 3                        |       | AST-08           |  |
| PS-06.03B.5                                                                                         | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | Impermissible installations and modifications.                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Transmission Medium Security                     | PES-16.1                                                                                                                               | Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.                                                                                                        | 3                        |       | PES-12.1         |  |
| PS-06.01AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The cooling supply system is designed in such a way that the permissible operating and environmental parameters are also ensured on at least five consecutive days with the highest outside temperatures that can reasonably be estimated to occur at the locations of the premises and buildings within the lifespan of the cooling supply system, with an appropriate safety margin.                                                                             | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring       | PES-29                                                                                                                                 | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                       | 3                        |       | PES-09           |  |
| PS-06.02AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The connection to the telecommunications network is designed with sufficient redundancy so that the failure of a telecommunications network does not impair the security or performance of the cloud service provider.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Alternate Communications Channels                | BCD-06.1                                                                                                                               | Mechanisms exist to maintain command and control capabilities via alternate communications channels and designating alternative decision makers if primary decision makers are unavailable during a designated crisis situation.                                                      | 3                        |       | BCD-10.4         |  |
| PS-06.02AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The connection to the telecommunications network is designed with sufficient redundancy so that the failure of a telecommunications network does not impair the security or performance of the cloud service provider.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Redundant Cabling                                | PES-25                                                                                                                                 | Mechanisms exist to employ redundant power cabling paths that are physically separated to ensure that power continues to flow in the event one of the cables is cut or otherwise damaged.                                                                                             | 3                        |       | PES-07.7         |  |
| PS-06.03AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The cloud service provider implements measures to ensure the compatibility of the conditions for installation, maintenance and servicing of the related technical equipment (e.g., electrical power, air conditioning, fire protection) with the cloud service's availability and security requirements.                                                                                                                                                           | Functional     | Intersects With   | Controlled Maintenance                           | MNT-03                                                                                                                                 | Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the Technology Asset, Application and/or Service (TAAS).                                                                                                                                    | 3                        |       | MNT-02           |  |
| PS-06.03AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The cloud service provider implements measures to ensure the compatibility of the conditions for installation, maintenance and servicing of the related technical equipment (e.g., electrical power, air conditioning, fire protection) with the cloud service's availability and security requirements.                                                                                                                                                           | Functional     | Intersects With   | Equipment Siting & Protection                    | PES-16                                                                                                                                 | Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.                                                                      | 3                        |       | PES-12           |  |
| PS-06.04AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The cloud service provider ensures that maintenance agreements for equipment used for the hosting of the cloud service enable the timely installation of security updates on this equipment.                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Controlled Maintenance                           | MNT-03                                                                                                                                 | Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the Technology Asset, Application and/or Service (TAAS).                                                                                                                                    | 3                        |       | MNT-02           |  |
| PS-06.04AC                                                                                          | Protection against Interruptions caused by Power Failures and similar Risks to Supply Facilities | The cloud service provider ensures that maintenance agreements for equipment used for the hosting of the cloud service enable the timely installation of security updates on this equipment.                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Third-Party Contract Requirements                | TPM-14                                                                                                                                 | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                          | 3                        |       | TPM-05           |  |
| PS-07.01B                                                                                           | Surveillance of Operational and Environmental Parameters                                         | The operating parameters of the technical utilities (cf. PS-06) and the environmental parameters of the premises and buildings related to the cloud service provided are monitored and controlled in accordance with the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                          | Functional     | Intersects With   | Monitoring Physical Access                       | PES-13                                                                                                                                 | Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.                                                                                                                                                                           | 3                        |       | PES-05           |  |
| PS-07.01B                                                                                           | Surveillance of Operational and Environmental Parameters                                         | The operating parameters of the technical utilities (cf. PS-06) and the environmental parameters of the premises and buildings related to the cloud service provided are monitored and controlled in accordance with the security requirements of the cloud service provider (cf. PS-01).                                                                                                                                                                          | Functional     | Intersects With   | Temperature & Humidity Controls Monitoring       | PES-29                                                                                                                                 | Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.                                                                                                                                                                       | 5                        |       | PES-09           |  |
| PS-07.02B                                                                                           | Surveillance of Operational and Environmental Parameters                                         | When the permitted control range is exceeded, the responsible departments at the cloud service provider are automatically informed in order to timely initiate the necessary measures for return to the control range.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Temperature & Humidity Controls Alerting         | PES-29.1                                                                                                                               | Facility security mechanisms exist to trigger an alarm or notification of temperature and humidity changes that are potentially harmful to personnel or equipment.                                                                                                                    | 8                        |       | PES-09.1         |  |
| PS-08.01B                                                                                           | Workplace Security Requirements                                                                  | Based on a risk assessment according to OIS-07, security requirements for office environments are documented, communicated and provided in accordance with SP-01. The security requirements for rented offices take into account proportionality and appropriateness, potentially being less extensive than those in own office environments. These security requirements encompass various aspects for a safe and secure working environment, including at least: | Functional     | Intersects With   | Physical Security of Offices, Rooms & Facilities | PES-10                                                                                                                                 | Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.                                               | 5                        |       | PES-04           |  |
| PS-08.01B                                                                                           | Workplace Security Requirements                                                                  | Based on a risk assessment according to OIS-07, security requirements for office environments are documented, communicated and provided in accordance with SP-01. The security requirements for rented offices take into account proportionality and appropriateness, potentially being less extensive than those in own office environments. These security requirements encompass various aspects for a safe and secure working environment, including at least: | Functional     | Intersects With   | Risk Assessment                                  | RSK-13                                                                                                                                 | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD). | 3                        |       | RSK-04           |  |
| PS-08.01B.1                                                                                         | Workplace Security Requirements                                                                  | Physical access controls, such as key cards and biometric scanners, for office buildings;                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Physical Access Control                          | PES-08                                                                                                                                 | Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).                    | 5                        |       | PES-03           |  |
| PS-08.01B.2                                                                                         | Workplace Security Requirements                                                                  | Use of screen locks and privacy screens for workstations;                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Unattended End-User Equipment                    | AST-20                                                                                                                                 | Mechanisms exist to implement enhanced protection measures for unattended technology assets to protect against tampering and                                                                                                                                                          | 5                        |       | AST-06           |  |
| PS-08.01B.3                                                                                         | Workplace Security Requirements                                                                  | No openly visible confidential data at temporarily unattended workstations;                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Unattended End-User Equipment                    | AST-20                                                                                                                                 | Mechanisms exist to implement enhanced protection measures for unattended technology assets to protect against tampering and                                                                                                                                                          | 5                        |       | AST-06           |  |
| PS-08.01B.4                                                                                         | Workplace Security Requirements                                                                  | Disposal of all company documents that are no longer required within the company premise;                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Digital & Non-Digital Media Disposal             | DCH-17                                                                                                                                 | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                     | 5                        |       | DCH-08<br>DCH-21 |  |
| PS-08.01B.5                                                                                         | Workplace Security Requirements                                                                  | Prohibition of the use of third party equipment; and                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Use of Third-Party Devices                       | AST-26                                                                                                                                 | Mechanisms exist to reduce the risk associated with third-party assets that are connected to the network from:<br>(1) Harming organizational assets;<br>(2) Accessing unauthorized resources within the organization; and/or<br>(3) Exfiltrating organizational data.                 | 5                        |       | AST-13           |  |
| PS-08.01B.6                                                                                         | Workplace Security Requirements                                                                  | Securing the entrances of office premises with alarm systems and surveillance cameras.                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Intrusion Alarms / Surveillance                  | PES-13.1                                                                                                                               | Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance                                                                                                                                                                                        | 5                        |       | PES-05.1         |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                          |                | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |                                                            |          |                                                                                                                                                                                                                                                 | Reference Document: Secure Controls Framework (SCF) version 2026.3                                 |       |              |  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|--------------|--|
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                          |                | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                            |          |                                                                                                                                                                                                                                                 | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf |       |              |  |
| FDE #                                                                                               | FDE Name                                             | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship                                                                                                                                          | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                             | Strength of Relationship                                                                           | Notes | Legacy SCF # |  |
| 5.6                                                                                                 | Operations (OPS)                                     | Objective: Ensure proper and regular operation, including appropriate measures for planning and monitoring capacity, protection against malware, logging and monitoring events, and dealing with vulnerabilities, malfunctions and failures.                                                                                                                                                                             | Functional     | No Relationship                                                                                                                                            | N/A                                                        | N/A      | N/A                                                                                                                                                                                                                                             | 0                                                                                                  |       |              |  |
| OPS-01.01B                                                                                          | Capacity Management - Planning                       | The planning of capacities and resources (personnel and system components) follows an established procedure in order to avoid possible capacity restrictions.                                                                                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Capacity & Performance Planning Policy                     | CAP-01   | Mechanisms exist to establish a formal, documented capacity and performance planning policy that: (1) Conveys executive management's intent; (2) Provides organizational direction and expected                                                 | 5                                                                                                  |       |              |  |
| OPS-01.01B                                                                                          | Capacity Management - Planning                       | The planning of capacities and resources (personnel and system components) follows an established procedure in order to avoid possible capacity restrictions.                                                                                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Capacity & Performance Management                          | CAP-02   | Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.                                                           | 5                                                                                                  |       | CAP-01       |  |
| OPS-01.01B                                                                                          | Capacity Management - Planning                       | The planning of capacities and resources (personnel and system components) follows an established procedure in order to avoid possible capacity restrictions.                                                                                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Capacity Planning                                          | CAP-03   | Mechanisms exist to conduct capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency operations.                                                     | 8                                                                                                  |       | CAP-03       |  |
| OPS-01.02B                                                                                          | Capacity Management - Planning                       | The procedures include forecasting future capacity requirements in order to identify usage trends and manage system overload.                                                                                                                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Capacity Planning                                          | CAP-03   | Mechanisms exist to conduct capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency operations.                                                     | 5                                                                                                  |       | CAP-03       |  |
| OPS-01.03B                                                                                          | Capacity Management - Planning                       | The cloud service provider takes appropriate measures to ensure that they continue to meet the requirements agreed with cloud service customers for the provision of the cloud service in the event of capacity restrictions or outages regarding personnel and system components. This applies in particular to those relating to the dedicated use of system components, in accordance with the respective agreements. | Functional     | Intersects With                                                                                                                                            | Capacity & Performance Management                          | CAP-02   | Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.                                                           | 5                                                                                                  |       | CAP-01       |  |
| OPS-01.03B                                                                                          | Capacity Management - Planning                       | The cloud service provider takes appropriate measures to ensure that they continue to meet the requirements agreed with cloud service customers for the provision of the cloud service in the event of capacity restrictions or outages regarding personnel and system components. This applies in particular to those relating to the dedicated use of system components, in accordance with the respective agreements. | Functional     | Intersects With                                                                                                                                            | Resource Priority                                          | CAP-04   | Mechanisms exist to control resource utilization of Technology Assets, Applications and/or Services (TAAS) that are susceptible to Denial of Service (DoS) attacks to limit and prioritize the use of resources.                                | 3                                                                                                  |       | CAP-02       |  |
| OPS-01.01AC                                                                                         | Capacity Management - Planning                       | The forecasts are considered in accordance with the service level agreement for planning and preparing the provisioning.                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With                                                                                                                                            | Capacity Planning                                          | CAP-03   | Mechanisms exist to conduct capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency operations.                                                     | 3                                                                                                  |       | CAP-03       |  |
| OPS-02.01B                                                                                          | Capacity Management - Monitoring                     | Procedures and technical safeguards for the monitoring, provisioning and de-provisioning of cloud services are defined. The cloud service provider ensures that resources are delivered as contractually agreed with the customers. The cloud service provider ensures compliance with the service level agreements.                                                                                                     | Functional     | Intersects With                                                                                                                                            | Capacity & Performance Management                          | CAP-02   | Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.                                                           | 5                                                                                                  |       | CAP-01       |  |
| OPS-02.01B                                                                                          | Capacity Management - Monitoring                     | Procedures and technical safeguards for the monitoring, provisioning and de-provisioning of cloud services are defined. The cloud service provider ensures that resources are delivered as contractually agreed with the customers. The cloud service provider ensures compliance with the service level agreements.                                                                                                     | Functional     | Intersects With                                                                                                                                            | Performance Monitoring                                     | CAP-05   | Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical Technology Assets, Applications and/or Services (TAAS).                                                                          | 5                                                                                                  |       | CAP-04       |  |
| OPS-02.02B                                                                                          | Capacity Management - Monitoring                     | Capacity restrictions that result in breaches of contractual obligations are to be reported to cloud service customers in accordance with OPS-24.                                                                                                                                                                                                                                                                        | Functional     | Intersects With                                                                                                                                            | Incident Stakeholder Reporting                             | IRO-16   | Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders; (2) Affected clients & third-parties; and (3) Regulatory authorities.                                                                                     | 3                                                                                                  |       | IRO-10       |  |
| OPS-02.01AC                                                                                         | Capacity Management - Monitoring                     | To monitor capacity and availability managed by the cloud service customer, the relevant information is available to the cloud service customer in a self-service portal.                                                                                                                                                                                                                                                | Functional     | Intersects With                                                                                                                                            | Performance Monitoring                                     | CAP-05   | Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical Technology Assets, Applications and/or Services (TAAS).                                                                          | 3                                                                                                  |       | CAP-04       |  |
| OPS-03.01B                                                                                          | Capacity Management - Controlling of Resources       | Depending on the capabilities of the respective service model, the cloud service customer can control and monitor the allocation of the system components assigned to the customer for administration/use in order to avoid overcrowding of resources and to achieve sufficient                                                                                                                                          | Functional     | Intersects With                                                                                                                                            | Resource Priority                                          | CAP-04   | Mechanisms exist to control resource utilization of Technology Assets, Applications and/or Services (TAAS) that are susceptible to Denial of Service (DoS) attacks to limit and prioritize the use of resources.                                | 3                                                                                                  |       | CAP-02       |  |
| OPS-03.01B                                                                                          | Capacity Management - Controlling of Resources       | Depending on the capabilities of the respective service model, the cloud service customer can control and monitor the allocation of the system components assigned to the customer for administration/use in order to avoid overcrowding of resources and to achieve sufficient performance.                                                                                                                             | Functional     | Intersects With                                                                                                                                            | Performance Monitoring                                     | CAP-05   | Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical Technology Assets, Applications and/or Services (TAAS).                                                                          | 3                                                                                                  |       | CAP-04       |  |
| OPS-03.02B                                                                                          | Capacity Management - Controlling of Resources       | If there are significant security changes, or planned significant security changes, in the system components provided as part of the cloud service and allocated by the cloud service customer, the cloud service provider informs the cloud service customer about them.                                                                                                                                                | Functional     | Intersects With                                                                                                                                            | Stakeholder Notification of Changes                        | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                        | 5                                                                                                  |       | CHG-05       |  |
| OPS-04.01B                                                                                          | Protection Against Malware - Policies and Procedures | Policies and procedures with specifications for protection against malware are documented, communicated, and provided in accordance with SP-01 with respect to the following aspects:                                                                                                                                                                                                                                    | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 5                                                                                                  |       | END-04       |  |
| OPS-04.01B                                                                                          | Protection Against Malware - Policies and Procedures | Policies and procedures with specifications for protection against malware are documented, communicated, and provided in accordance with SP-01 with respect to the following aspects:                                                                                                                                                                                                                                    | Functional     | Intersects With                                                                                                                                            | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                          | 3                                                                                                  |       | GOV-02       |  |
| OPS-04.01B.1                                                                                        | Protection Against Malware - Policies and Procedures | Use of system-specific protection mechanisms;                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 3                                                                                                  |       | END-04       |  |
| OPS-04.01B.2                                                                                        | Protection Against Malware - Policies and Procedures | Operating protection programmes on system components under the responsibility of the cloud service provider;                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 5                                                                                                  |       | END-04       |  |
| OPS-04.01B.3                                                                                        | Protection Against Malware - Policies and Procedures | Operation of protection programmes for personnel's terminal equipment; and                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 5                                                                                                  |       | END-04       |  |
| OPS-04.01B.4                                                                                        | Protection Against Malware - Policies and Procedures | Operation of protection programmes on flows coming in over cloud service provider end-devices, as well as all other incoming flows.                                                                                                                                                                                                                                                                                      | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 3                                                                                                  |       | END-04       |  |
| OPS-04.01B.4                                                                                        | Protection Against Malware - Policies and Procedures | Operation of protection programmes on flows coming in over cloud service provider end-devices, as well as all other incoming flows.                                                                                                                                                                                                                                                                                      | Functional     | Intersects With                                                                                                                                            | Phishing & Spam Protection                                 | NET-40.2 | Mechanisms exist to utilize anti-phishing and spam protection technologies to detect and take action on unsolicited messages transported by electronic mail.                                                                                    | 3                                                                                                  |       | END-08       |  |
| OPS-05.01B                                                                                          | Protection Against Malware - Implementation          | System components under the cloud service provider's responsibility that are used to operate the cloud service in the production environment are configured with malware protection according to the policies and procedures.                                                                                                                                                                                            | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 8                                                                                                  |       | END-04       |  |
| OPS-05.02B                                                                                          | Protection Against Malware - Implementation          | If protection programmes are set up with signature or behaviour-based malware detection and removal, these protection programmes are regularly updated with the latest malware definitions when they are available, at least on a daily basis.                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Automatic Endpoint Protection Mechanism Updates            | END-03.2 | Automated mechanisms exist to update endpoint protection-related Technology Assets, Applications and/or Services (TAAS) when new releases are available, in accordance with organization-defined configuration and change management practices. | 8                                                                                                  |       | END-04.1     |  |
| OPS-05.03B                                                                                          | Protection Against Malware - Implementation          | The cloud service provider creates regular reports on the checks performed by the operated protection programmes, which are reviewed and analysed by authorised individuals, bodies or committees.                                                                                                                                                                                                                       | Functional     | Intersects With                                                                                                                                            | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                       | 3                                                                                                  |       | END-04       |  |
| OPS-05.03B                                                                                          | Protection Against Malware - Implementation          | The cloud service provider creates regular reports on the checks performed by the operated protection programmes, which are reviewed and analysed by authorised individuals, bodies or committees.                                                                                                                                                                                                                       | Functional     | Intersects With                                                                                                                                            | Monitoring Reporting                                       | MON-06   | Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities.                                                                                                                   | 3                                                                                                  |       | MON-06       |  |
| OPS-05.02AS                                                                                         | Protection Against Malware - Implementation          | OPS-05.02AS, sharpening OPS-05.02B<br>If protection programmes are set up with signature and behaviour-based malware detection and removal, these protection programmes are regularly updated with the latest malware definitions when they are available, at the highest frequency that the vendor(s) offer(s) where applicable.                                                                                        | Functional     | Intersects With                                                                                                                                            | Automatic Endpoint Protection Mechanism Updates            | END-03.2 | Automated mechanisms exist to update endpoint protection-related Technology Assets, Applications and/or Services (TAAS) when new releases are available, in accordance with organization-defined configuration and change management practices. | 8                                                                                                  |       | END-04.1     |  |
| OPS-05.01AC                                                                                         | Protection Against Malware - Implementation          | Policies and procedures describe the technical measures taken to securely configure and monitor the management console (both the customer's self-service and the service provider's cloud administration) to protect it from malware.                                                                                                                                                                                    | Functional     | Intersects With                                                                                                                                            | Secure Baseline Configurations                             | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                    | 3                                                                                                  |       | CFG-02       |  |

| FDE #         | FDE Name                                           | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
|---------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| OPS-05.01AC   | Protection Against Malware - Implementation        | Policies and procedures describe the technical measures taken to securely configure and monitor the management console (both the customer's self-service and the service provider's cloud administration) to protect it from malware.                                                                                                                                     | Functional     | Intersects With   | Malicious Code Protection (Antimalware)                   | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                                                                             | 3                        |       | END-04       |
| OPS-05.02AC   | Protection Against Malware - Implementation        | The configuration of the protection mechanisms is monitored automatically.                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                   | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                                        | 5                        |       | CFG-06       |
| OPS-05.03AC   | Protection Against Malware - Implementation        | Deviations from the specifications are automatically reported to the cloud service provider's subject matter experts so that they can be immediately assessed and the necessary measures taken.                                                                                                                                                                           | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                   | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                                        | 3                        |       | CFG-06       |
| OPS-05.03AC   | Protection Against Malware - Implementation        | Deviations from the specifications are automatically reported to the cloud service provider's subject matter experts so that they can be immediately assessed and the necessary measures taken.                                                                                                                                                                           | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                     | 5                        |       | MON-01.4     |
| OPS-06.01B    | Data Backup and Recovery - Policies and Procedures | Policies and procedures for regular backup or replication and regular restore of cloud service customer data, cloud service derived data and cloud service provider data according to the sensitivity of the data are documented, communicated and provided in accordance with SP-01 regarding the following aspects:                                                     | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 8                        |       | BCD-11       |
| OPS-06.01B.1  | Data Backup and Recovery - Policies and Procedures | The extent and frequency of data backups and the duration of data retention are consistent with the contractual agreements with the cloud service customers and the cloud service provider's operational continuity requirements for Recovery Time Objective (RTO) and Recovery Point Objective (RPO);                                                                    | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)              | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                           | 3                        |       | BCD-01.4     |
| OPS-06.01B.1  | Data Backup and Recovery - Policies and Procedures | The extent and frequency of data backups and the duration of data retention are consistent with the contractual agreements with the cloud service customers and the cloud service provider's operational continuity requirements for Recovery Time Objective (RTO) and Recovery Point Objective (RPO);                                                                    | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 5                        |       | BCD-11       |
| OPS-06.01B.2  | Data Backup and Recovery - Policies and Procedures | Data is backed up in encrypted, state of the art form;                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Encrypting Storage Media                                  | CRY-07.1 | Cryptographic mechanisms exist to protect the confidentiality and integrity of sensitive and/or regulated data residing on storage media.                                                                                                                                                             | 5                        |       | CRY-05.1     |
| OPS-06.01B.3  | Data Backup and Recovery - Policies and Procedures | Secure storage, transfer, management and disposal of backup data;                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 3                        |       | BCD-11       |
| OPS-06.01B.3  | Data Backup and Recovery - Policies and Procedures | Secure storage, transfer, management and disposal of backup data;                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Media Storage                                             | DCH-13   | Mechanisms exist to:<br>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and<br>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures. | 3                        |       | DCH-06       |
| OPS-06.01B.4  | Data Backup and Recovery - Policies and Procedures | Access to the backed-up data and the execution of restores is performed only by authorised persons;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Data Backup Access                                        | BCD-30   | Mechanisms exist to restrict access to data backups to those privileged users with assigned roles for data backup and recovery operations.                                                                                                                                                            | 8                        |       | BCD-11.9     |
| OPS-06.01B.5  | Data Backup and Recovery - Policies and Procedures | Tests of data restore procedures by the cloud service provider (cf. OPS-08); and                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Testing for Reliability & Integrity                       | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                                                               | 5                        |       | BCD-11.1     |
| OPS-06.01B.6  | Data Backup and Recovery - Policies and Procedures | If part of the contractual agreement: Execution of actual data restore requests or restore tests initiated by the cloud service customer.                                                                                                                                                                                                                                 | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 3                        |       | BCD-11       |
| OPS-06.01B.7  | Data Backup and Recovery - Policies and Procedures | The policies and procedures include conditions for those parts of cloud service provider data that do not require a backup. For those parts of cloud service provider data, this criterion is not applicable.                                                                                                                                                             | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 3                        |       | BCD-11       |
| OPS-06.01AS   | Data Backup and Recovery - Policies and Procedures | OPS-06.01AS, sharpening OPS-06.01B<br>Policies and procedures for at least daily backup or replication and at least daily restore of cloud service customer data, cloud service derived data and cloud service provider data according to the sensitivity of the data are documented, communicated and provided in accordance with SP-01 regarding the following aspects: | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 8                        |       | BCD-11       |
| OPS-06.01AS.1 | Data Backup and Recovery - Policies and Procedures | The extent and frequency of data backups and the duration of data retention are consistent with the contractual agreements with the cloud service customers and the cloud service provider's operational continuity requirements for Recovery Time Objective (RTO) and Recovery Point Objective (RPO);                                                                    | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)              | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                           | 3                        |       | BCD-01.4     |
| OPS-06.01AS.1 | Data Backup and Recovery - Policies and Procedures | The extent and frequency of data backups and the duration of data retention are consistent with the contractual agreements with the cloud service customers and the cloud service provider's operational continuity requirements for Recovery Time Objective (RTO) and Recovery Point Objective (RPO);                                                                    | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 5                        |       | BCD-11       |
| OPS-06.01AS.2 | Data Backup and Recovery - Policies and Procedures | Data is backed up in encrypted, state of the art form;                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Encrypting Storage Media                                  | CRY-07.1 | Cryptographic mechanisms exist to protect the confidentiality and integrity of sensitive and/or regulated data residing on storage media.                                                                                                                                                             | 5                        |       | CRY-05.1     |
| OPS-06.01AS.3 | Data Backup and Recovery - Policies and Procedures | Secure storage, transfer, management and disposal of backup data;                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 3                        |       | BCD-11       |
| OPS-06.01AS.3 | Data Backup and Recovery - Policies and Procedures | Secure storage, transfer, management and disposal of backup data;                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Media Storage                                             | DCH-13   | Mechanisms exist to:<br>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and<br>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures. | 3                        |       | DCH-06       |
| OPS-06.01AS.4 | Data Backup and Recovery - Policies and Procedures | Access to the backed-up data and the execution of restores is performed only by authorised persons;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Data Backup Access                                        | BCD-30   | Mechanisms exist to restrict access to data backups to those privileged users with assigned roles for data backup and recovery operations.                                                                                                                                                            | 8                        |       | BCD-11.9     |
| OPS-06.01AS.5 | Data Backup and Recovery - Policies and Procedures | Tests of data restore procedures by the cloud service provider (cf. OPS-08); and                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Testing for Reliability & Integrity                       | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                                                               | 5                        |       | BCD-11.1     |
| OPS-06.01AS.6 | Data Backup and Recovery - Policies and Procedures | If part of the contractual agreement: Execution of actual data restore requests or restore tests initiated by the cloud service customer.                                                                                                                                                                                                                                 | Functional     | Intersects With   | Data Backups                                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                        | 3                        |       | BCD-11       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                    |                                                                                                                                                                                                                                                                                                               |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                |                          |       |              |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                    |                                                                                                                                                                                                                                                                                                               |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                    |                                                                                                                                                                                                                                                                                                               |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                |                          |       |              |
| FDE #                                                                                               | FDE Name                                           | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                      | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                            | Strength of Relationship | Notes | Legacy SCF # |
| OPS-06.01AS.7                                                                                       | Data Backup and Recovery - Policies and Procedures | The policies and procedures include conditions for those parts of cloud service provider data that do not require a backup. For those parts of cloud service provider data, this subcriteria is not applicable.                                                                                               | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 3                        |       | BCD-11       |
| OPS-07.01B                                                                                          | Data Backup and Recovery - Monitoring              | The execution of backups of cloud service customer data, cloud service derived data and cloud service provider data is monitored by technical and organisational measures documented and implemented in accordance with the policies and procedures for data backup and recovery (cf. OPS-06).                | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 5                        |       | BCD-11       |
| OPS-07.01B                                                                                          | Data Backup and Recovery - Monitoring              | The execution of backups of cloud service customer data, cloud service derived data and cloud service provider data is monitored by technical and organisational measures documented and implemented in accordance with the policies and procedures for data backup and recovery (cf. OPS-06).                | Functional     | Intersects With   | Continuous Monitoring                                                                                                                                      | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                      | 3                        |       | MON-01       |
| OPS-07.02B                                                                                          | Data Backup and Recovery - Monitoring              | Incidents are investigated by qualified personnel and rectified timely to ensure compliance with contractual obligations to cloud service customers or the cloud service provider's business requirements regarding the scope and frequency of data backup and the duration of storage.                       | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 3                        |       | BCD-11       |
| OPS-07.02B                                                                                          | Data Backup and Recovery - Monitoring              | Incidents are investigated by qualified personnel and rectified timely to ensure compliance with contractual obligations to cloud service customers or the cloud service provider's business requirements regarding the scope and frequency of data backup and the duration of storage.                       | Functional     | Intersects With   | Incident Handling                                                                                                                                          | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                | 3                        |       | IRO-02       |
| OPS-07.01AC                                                                                         | Data Backup and Recovery - Monitoring              | The relevant logs or summarised results are available to the cloud service customer in a self-service portal for monitoring the data backup.                                                                                                                                                                  | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 3                        |       | BCD-11       |
| OPS-08.01B                                                                                          | Data Backup and Recovery - Regular Testing         | Restore procedures are tested regularly, at least annually. The tests include cloud service provider data and, if contractually agreed upon, cloud service customer data and cloud service derived data.                                                                                                      | Functional     | Intersects With   | Testing for Reliability & Integrity                                                                                                                        | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                        | 8                        |       | BCD-11.1     |
| OPS-08.02B                                                                                          | Data Backup and Recovery - Regular Testing         | The tests allow an assessment as to whether the contractual agreements as well as the specifications for the maximum tolerable downtime (Recovery Time Objective, RTO) and the maximum permissible data loss (Recovery Point Objective, RPO) are adhered to (cf. BCM-02).                                     | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)                                                                                                               | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                    | 5                        |       | BCD-01.4     |
| OPS-08.02B                                                                                          | Data Backup and Recovery - Regular Testing         | The tests allow an assessment as to whether the contractual agreements as well as the specifications for the maximum tolerable downtime (Recovery Time Objective, RTO) and the maximum permissible data loss (Recovery Point Objective, RPO) are adhered to (cf. BCM-02).                                     | Functional     | Intersects With   | Testing for Reliability & Integrity                                                                                                                        | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                        | 5                        |       | BCD-11.1     |
| OPS-08.03B                                                                                          | Data Backup and Recovery - Regular Testing         | Cloud service customer data is only restored in environments that are subject to the same access restrictions as the production environment.                                                                                                                                                                  | Functional     | Intersects With   | Data Backup Access                                                                                                                                         | BCD-30   | Mechanisms exist to restrict access to data backups to those privileged users with assigned roles for data backup and recovery operations.                                                                                                                     | 5                        |       | BCD-11.9     |
| OPS-08.04B                                                                                          | Data Backup and Recovery - Regular Testing         | Performed restore tests are thoroughly documented. This also includes the documentation of the safe disposal of the restored data.                                                                                                                                                                            | Functional     | Intersects With   | Testing for Reliability & Integrity                                                                                                                        | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                        | 3                        |       | BCD-11.1     |
| OPS-08.04B                                                                                          | Data Backup and Recovery - Regular Testing         | Performed restore tests are thoroughly documented. This also includes the documentation of the safe disposal of the restored data.                                                                                                                                                                            | Functional     | Intersects With   | Digital Media Sanitization                                                                                                                                 | DCH-18   | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                               | 3                        |       | DCH-09       |
| OPS-08.05B                                                                                          | Data Backup and Recovery - Regular Testing         | Deviations from the specifications are reported to the responsible personnel or system components so that these can timely assess the deviations and initiate the necessary actions.                                                                                                                          | Functional     | Intersects With   | Testing for Reliability & Integrity                                                                                                                        | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                        | 3                        |       | BCD-11.1     |
| OPS-08.05B                                                                                          | Data Backup and Recovery - Regular Testing         | Deviations from the specifications are reported to the responsible personnel or system components so that these can timely assess the deviations and initiate the necessary actions.                                                                                                                          | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry                                                                                                  | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                              | 3                        |       | MON-01.4     |
| OPS-08.01AC                                                                                         | Data Backup and Recovery - Regular Testing         | At the customer's request, the cloud service provider informs the cloud service customer of the results of the restore tests.                                                                                                                                                                                 | Functional     | Intersects With   | Testing for Reliability & Integrity                                                                                                                        | BCD-32   | Mechanisms exist to routinely test data backups to verify the reliability of the backup process, as well as the integrity and availability of the data.                                                                                                        | 3                        |       | BCD-11.1     |
| OPS-08.02AC                                                                                         | Data Backup and Recovery - Regular Testing         | Restore tests are included in the cloud service provider's business continuity management.                                                                                                                                                                                                                    | Functional     | Intersects With   | Contingency Plan Testing & Exercises                                                                                                                       | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                      | 5                        |       | BCD-04       |
| OPS-09.01B                                                                                          | Data Backup and Recovery - Storage                 | The cloud service provider transfers cloud service provider data and, if contractually agreed upon, cloud service customer data and cloud service derived data to be backed up to a remote location or transports these on backup media to a remote location.                                                 | Functional     | Intersects With   | Separate Storage for Critical Information                                                                                                                  | BCD-24.2 | Mechanisms exist to store backup copies of critical software and other security-related information in a separate facility or in a fire-rated container that is not collocated with the system being backed up.                                                | 8                        |       | BCD-11.2     |
| OPS-09.02B                                                                                          | Data Backup and Recovery - Storage                 | The protection needs resulting from the data classification of the original data (e.g., encryption, access control) are also applied to backups.                                                                                                                                                              | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 5                        |       | BCD-11       |
| OPS-09.02B                                                                                          | Data Backup and Recovery - Storage                 | The protection needs resulting from the data classification of the original data (e.g., encryption, access control) are also applied to backups.                                                                                                                                                              | Functional     | Intersects With   | Data Backup Modification and/or Destruction                                                                                                                | BCD-33   | Mechanisms exist to restrict access to modify and/or delete data backups to only those privileged users with assigned data backup and recovery operations                                                                                                      | 5                        |       | BCD-11.10    |
| OPS-09.02B                                                                                          | Data Backup and Recovery - Storage                 | The protection needs resulting from the data classification of the original data (e.g., encryption, access control) are also applied to backups.                                                                                                                                                              | Functional     | Intersects With   | Data & Asset Classification                                                                                                                                | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                   | 3                        |       | DCH-02       |
| OPS-09.03B                                                                                          | Data Backup and Recovery - Storage                 | If the data backup is transmitted to the remote location via a network, the data backup or the transmission of the data takes place in an encrypted form that corresponds to the state of the art (cf. CRY-04).                                                                                               | Functional     | Intersects With   | Data Backups                                                                                                                                               | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). | 3                        |       | BCD-11       |
| OPS-09.03B                                                                                          | Data Backup and Recovery - Storage                 | If the data backup is transmitted to the remote location via a network, the data backup or the transmission of the data takes place in an encrypted form that corresponds to the state of the art (cf. CRY-04).                                                                                               | Functional     | Intersects With   | Encrypting Data In Transit                                                                                                                                 | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                      | 5                        |       | CRY-03       |
| OPS-09.04B                                                                                          | Data Backup and Recovery - Storage                 | The distance to the main site is chosen after sufficient consideration of the factors recovery times and impact of disasters on both sites.                                                                                                                                                                   | Functional     | Intersects With   | Separation from Primary Processing Site                                                                                                                    | BCD-13.1 | Mechanisms exist to separate the alternate processing site from the primary processing site to reduce susceptibility to similar threats.                                                                                                                       | 5                        |       | BCD-09.1     |
| OPS-09.05B                                                                                          | Data Backup and Recovery - Storage                 | The physical and environmental security measures at the remote site are equivalent to those at the main site.                                                                                                                                                                                                 | Functional     | Intersects With   | Alternate Storage Site                                                                                                                                     | BCD-12   | Mechanisms exist to establish an alternate storage site that stores both the assets and necessary agreements needed for the recovery of Technology                                                                                                             | 5                        |       | BCD-08       |
| OPS-09.05B                                                                                          | Data Backup and Recovery - Storage                 | The physical and environmental security measures at the remote site are equivalent to those at the main site.                                                                                                                                                                                                 | Functional     | Intersects With   | Alternate Processing Site                                                                                                                                  | BCD-13   | Mechanisms exist to establish an alternate processing site that provides processing capability and security measures equivalent to that of the primary site.                                                                                                   | 5                        |       | BCD-09       |
| OPS-10.01B                                                                                          | Logging and Monitoring - Policies and Procedures   | The cloud service provider has established policies and procedures that govern the logging and monitoring of events on system components within its area of responsibility. These policies and procedures are documented, communicated and provided according to SP-01 with respect to the following aspects: | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                         | 3                        |       | GOV-02       |

| FDE #        | FDE Name                                                                                                  | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                | STRM Rationale | STRM Relationship | SCF Control                                                           | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                           | Strength of Relationship | Notes | Legacy SCF # |
|--------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| OPS-10.01B   | Logging and Monitoring - Policies and Procedures                                                          | The cloud service provider has established policies and procedures that govern the logging and monitoring of events on system components within its area of responsibility. These policies and procedures are documented, communicated and provided according to SP-01 with respect to the following aspects:                                                           | Functional     | Intersects With   | Continuous Monitoring                                                 | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | MON-01       |
| OPS-10.01B.1 | Logging and Monitoring - Policies and Procedures                                                          | Definition of events that could lead to a violation of the protection goals;                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Monitoring                    | MON-03   | Mechanisms exist to review event logs and security-relevant telemetry on an ongoing basis and escalate incidents in accordance with established timelines and procedures.                                                                                                                                                                                                                                                                                     | 5                        |       | MON-01.8     |
| OPS-10.01B.1 | Logging and Monitoring - Policies and Procedures                                                          | Definition of events that could lead to a violation of the protection goals;                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Centralized Event Log & Security-Relevant Telemetry Review & Analysis | MON-05.1 | Automated mechanisms exist to centrally collect, review and analyze event logs and security-relevant telemetry from multiple sources.                                                                                                                                                                                                                                                                                                                         | 3                        |       | MON-02.2     |
| OPS-10.01B.2 | Logging and Monitoring - Policies and Procedures                                                          | Specifications for activating, stopping and pausing the various logs;                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Continuous Monitoring                                                 | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | MON-01       |
| OPS-10.01B.3 | Logging and Monitoring - Policies and Procedures                                                          | Information regarding the purpose and retention period of the logs;                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention                     | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.                                                                                                                                                                   | 5                        |       | MON-10       |
| OPS-10.01B.4 | Logging and Monitoring - Policies and Procedures                                                          | Definition of roles, responsibilities and authorities for setting up and monitoring logging;                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Defined Roles & Responsibilities                                      | HRS-04   | Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.                                                                                                                                                                                                                                                                                                                                                                          | 3                        |       | HRS-03       |
| OPS-10.01B.4 | Logging and Monitoring - Policies and Procedures                                                          | Definition of roles, responsibilities and authorities for setting up and monitoring logging;                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Continuous Monitoring                                                 | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | MON-01       |
| OPS-10.01B.5 | Logging and Monitoring - Policies and Procedures                                                          | Definition of log data allowed for transfer to cloud service customers and technical requirements of such a transfer;                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                               | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                   | 5                        |       | CLD-06.2     |
| OPS-10.01B.6 | Logging and Monitoring - Policies and Procedures                                                          | Information regarding timestamps used in event creation;                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Time Stamps                                                           | MON-11   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to use an authoritative time source to generate time stamps for event logs and security-relevant telemetry.                                                                                                                                                                                                                                                              | 5                        |       | MON-07       |
| OPS-10.01B.7 | Logging and Monitoring - Policies and Procedures                                                          | Time synchronisation of system components with at least one approved time source that the cloud service provider considers to be reliable based on defined criteria. If several time sources are used, they are consistent with each other. The time sources can also be synchronised to several external reliable sources, except when used for isolated networks; and | Functional     | Intersects With   | Synchronization With Authoritative Time Source                        | MON-11.1 | Mechanisms exist to synchronize internal system clocks with an authoritative time source.                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | MON-07.1     |
| OPS-10.01B.8 | Logging and Monitoring - Policies and Procedures                                                          | Compliance with legal and regulatory frameworks.                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                        | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                              | 3                        |       | CPL-01       |
| OPS-11.01B   | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Policies and procedures for the secure handling of cloud service derived data and account data are documented, communicated and provided according to SP-01 with regard to at least the following aspects:                                                                                                                                                              | Functional     | Intersects With   | Data Protection                                                       | DCH-02   | Mechanisms exist to facilitate the implementation of data protection controls.                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | DCH-01       |
| OPS-11.01B   | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Policies and procedures for the secure handling of cloud service derived data and account data are documented, communicated and provided according to SP-01 with regard to at least the following aspects:                                                                                                                                                              | Functional     | Intersects With   | Media & Data Retention                                                | DCH-27   | Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.                                                                                                                                                                                                                                                                                                                                    | 3                        |       | DCH-18       |
| OPS-11.01B.1 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Cloud service derived data and account data is collected and used solely to administer and operate the cloud service, including purposes related to the implementation of security controls;                                                                                                                                                                            | Functional     | Intersects With   | Personal Data (PD) Retention & Disposal                               | PRI-30   | Mechanisms exist to:<br>(1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;<br>(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and<br>(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records). | 5                        |       | PRI-05       |
| OPS-11.01B.2 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | No commercial use beyond the aforementioned purpose to administer and operate the cloud service;                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Personal Data (PD) Retention & Disposal                               | PRI-30   | Mechanisms exist to:<br>(1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;<br>(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and<br>(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records). | 5                        |       | PRI-05       |
| OPS-11.01B.3 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Storage for a fixed period reasonably related to the purposes of the collection;                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Media & Data Retention                                                | DCH-27   | Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.                                                                                                                                                                                                                                                                                                                                    | 5                        |       | DCH-18       |
| OPS-11.01B.4 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | The confidentiality and integrity of the logs is protected through appropriate security controls;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry                | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                      | 5                        |       | MON-08       |
| OPS-11.01B.4 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | The confidentiality and integrity of the logs is protected through appropriate security controls;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Sensitive Event Log & Security-Relevant Telemetry Data                | MON-30   | Mechanisms exist to protect sensitive and/or regulated data contained in event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                                                                                          | 3                        |       | MON-03.1     |
| OPS-11.01B.5 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | As far as technically possible, anonymised cloud service derived data is used only in a way so that no conclusions can be drawn about the usage behaviour of individual users of the cloud service customer;                                                                                                                                                            | Functional     | Intersects With   | De-identification (Anonymization)                                     | DCH-36   | Mechanisms exist to de-identify sensitive and/or regulated data through<br>(1) Anonymization;<br>(2) De-identification;<br>(3) Pseudonymization; and/or<br>(4) Redaction.                                                                                                                                                                                                                                                                                     | 5                        |       | DCH-23       |
| OPS-11.01B.6 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Cloud service derived data that has been fully anonymised and cannot be traced back to individual cloud service customers may be further processed and retained, provided no contractual or legal restrictions exist, otherwise immediate deletion if the purposes of the collection are fulfilled and further storage is no longer necessary; and                      | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                                  | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                                                                             | 3                        |       | DCH-21       |
| OPS-11.01B.6 | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Cloud service derived data that has been fully anonymised and cannot be traced back to individual cloud service customers may be further processed and retained, provided no contractual or legal restrictions exist, otherwise immediate deletion if the purposes of the collection are fulfilled and further storage is no longer necessary; and                      | Functional     | Intersects With   | De-Identification (Anonymization)                                     | DCH-36   | Mechanisms exist to de-identify sensitive and/or regulated data through<br>(1) Anonymization;<br>(2) De-identification;<br>(3) Pseudonymization; and/or<br>(4) Redaction.                                                                                                                                                                                                                                                                                     | 3                        |       | DCH-23       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                                           |                                                                                                                                                                                                                                                                                          |                |                   | Focal Document:                                                    |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|--------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Secure Controls Framework (SCF) version 2026.3                                                      |                                                                                                           |                                                                                                                                                                                                                                                                                          |                |                   | Focal Document URL:                                                |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                        |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                                           |                                                                                                                                                                                                                                                                                          |                |                   | Published STRM URL:                                                |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                                                  | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship | SCF Control                                                        | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                           | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-11.01B.7                                                                                        | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Provision to cloud service customers according to contractual agreements.                                                                                                                                                                                                                | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                            | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                   | 3                        |       | CLD-06.2     |  |
| OPS-11.02B                                                                                          | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | The cloud service provider specifies in the contractual agreements with cloud service customers all purposes for which cloud service derived data are collected and used, except for those purposes that are inherent to the general operation of all cloud services.                    | Functional     | Intersects With   | Personal Data (PD) Retention & Disposal                            | PRI-30   | Mechanisms exist to:<br>(1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;<br>(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and<br>(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records). | 3                        |       | PRI-05       |  |
| OPS-11.02B                                                                                          | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | The cloud service provider specifies in the contractual agreements with cloud service customers all purposes for which cloud service derived data are collected and used, except for those purposes that are inherent to the general operation of all cloud services.                    | Functional     | Intersects With   | Third-Party Contract Requirements                                  | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                    | 3                        |       | TPM-05       |  |
| OPS-11.01AC                                                                                         | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Personal data is automatically removed from the log data before the cloud service provider processes it, as far as technically possible. The removal is done in a way that allows the cloud service provider to continue to use the log data for the purpose for which it was collected. | Functional     | Intersects With   | De-identification (Anonymization)                                  | DCH-36   | Mechanisms exist to de-identify sensitive and/or regulated data through<br>(1) Anonymization;<br>(2) De-identification;<br>(3) Pseudonymization; and/or<br>(4) Redaction.                                                                                                                                                                                                                                                                                     | 5                        |       | DCH-23       |  |
| OPS-11.01AC                                                                                         | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Personal data is automatically removed from the log data before the cloud service provider processes it, as far as technically possible. The removal is done in a way that allows the cloud service provider to continue to use the log data for the purpose for which it was collected. | Functional     | Intersects With   | Sensitive Event Log & Security-Relevant Telemetry Data             | MON-30   | Mechanisms exist to protect sensitive and/or regulated data contained in event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                                                                                          | 5                        |       | MON-03.1     |  |
| OPS-11.02AC                                                                                         | Logging and Monitoring - Policies and Procedures for Handling Cloud Service Derived Data and Account Data | Cloud service derived data, particularly log data, is included in regulatory compliance assessments.                                                                                                                                                                                     | Functional     | Intersects With   | Conformity Monitoring                                              | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                                   | 3                        |       | CPL-03       |  |
| OPS-12.01B                                                                                          | Logging and Monitoring - Access, Retention and Deletion                                                   | The requirements for the logging and monitoring of events and for the secure handling of cloud service derived data and cloud service provider data (cf. OPS-10, OPS-11) are implemented by technically supported procedures with regard to the following restrictions:                  | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry             | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                      | 5                        |       | MON-08       |  |
| OPS-12.01B.1                                                                                        | Logging and Monitoring - Access, Retention and Deletion                                                   | Access only for authorised users and systems;                                                                                                                                                                                                                                            | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry             | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                      | 5                        |       | MON-08       |  |
| OPS-12.01B.1                                                                                        | Logging and Monitoring - Access, Retention and Deletion                                                   | Access only for authorised users and systems;                                                                                                                                                                                                                                            | Functional     | Intersects With   | Query Parameter Audits of Personal Data (PD)                       | MON-29.2 | Mechanisms exist to provide and implement the capability for auditing the parameters of user query events for data sets containing Personal Data (PD).                                                                                                                                                                                                                                                                                                        | 3                        |       | MON-06.1     |  |
| OPS-12.01B.2                                                                                        | Logging and Monitoring - Access, Retention and Deletion                                                   | Retention for the specified period; and                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention                  | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.                                                                                                                                                                   | 5                        |       | MON-10       |  |
| OPS-12.01B.3                                                                                        | Logging and Monitoring - Access, Retention and Deletion                                                   | Deletion when further retention is no longer necessary for the purpose of collection.                                                                                                                                                                                                    | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                               | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                                                                             | 3                        |       | DCH-21       |  |
| OPS-12.01B.3                                                                                        | Logging and Monitoring - Access, Retention and Deletion                                                   | Deletion when further retention is no longer necessary for the purpose of collection.                                                                                                                                                                                                    | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention                  | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.                                                                                                                                                                   | 3                        |       | MON-10       |  |
| OPS-13.01B                                                                                          | Logging and Monitoring - Security Information and Event Management                                        | The cloud service provider integrates relevant log data (cloud service derived data and cloud service provider data) into a Security Information and Event Management (SIEM) system to establish a seamless connection between logging, monitoring, and security incident management.    | Functional     | Intersects With   | Centralized Collection of Event Logs & Security-Relevant Telemetry | MON-05   | Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support the centralized collection of event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                         | 8                        |       | MON-02       |  |
| OPS-13.02B                                                                                          | Logging and Monitoring - Security Information and Event Management                                        | The SIEM system is deployed within the cloud environment or externally and includes the following capabilities:                                                                                                                                                                          | Functional     | Intersects With   | Centralized Collection of Event Logs & Security-Relevant Telemetry | MON-05   | Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support the centralized collection of event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                         | 5                        |       | MON-02       |  |
| OPS-13.02B.1                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Standardisation of log data;                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Correlate Monitoring Information                                   | MON-08   | Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.                                                                                                                                                                                                                    | 3                        |       | MON-02.1     |  |
| OPS-13.02B.2                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Automated analysis to identify and correlate potential security incidents;                                                                                                                                                                                                               | Functional     | Intersects With   | Correlate Monitoring Information                                   | MON-08   | Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.                                                                                                                                                                                                                    | 5                        |       | MON-02.1     |  |
| OPS-13.02B.3                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Capabilities to detect unusual behaviour and potential threats;                                                                                                                                                                                                                          | Functional     | Intersects With   | Anomalous Behavior                                                 | MON-16   | Mechanisms exist to utilize User & Entity Behavior Analytics (UEBA) and/or User Activity Monitoring (UAM) solutions to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.                                                                                                                                                                                                                         | 5                        |       | MON-16       |  |
| OPS-13.02B.4                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Real-time alerting to inform the incident response team of critical events;                                                                                                                                                                                                              | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry          | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                                                                                                                                                                             | 5                        |       | MON-01.4     |  |
| OPS-13.02B.5                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Reporting to the incident response team in case new information relevant to an event becomes available; and                                                                                                                                                                              | Functional     | Intersects With   | Situational Awareness For Incidents                                | IRO-16.1 | Mechanisms exist to document, monitor and report the status of cybersecurity and data protection incidents to internal stakeholders all the way through the resolution of the incident.                                                                                                                                                                                                                                                                       | 3                        |       | IRO-09       |  |
| OPS-13.02B.5                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Reporting to the incident response team in case new information relevant to an event becomes available; and                                                                                                                                                                              | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry          | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                                                                                                                                                                             | 3                        |       | MON-01.4     |  |
| OPS-13.02B.6                                                                                        | Logging and Monitoring - Security Information and Event Management                                        | Automated response mechanisms for addressing security incidents.                                                                                                                                                                                                                         | Functional     | Intersects With   | Security Orchestration, Automation, and Response (SOAR)            | OPS-08   | Mechanisms exist to utilize Security Orchestration, Automation and Response (SOAR) tools to define, prioritize and automate the response to security incidents.                                                                                                                                                                                                                                                                                               | 5                        |       | OPS-06       |  |
| OPS-13.01AC                                                                                         | Logging and Monitoring - Security Information and Event Management                                        | The cloud service provider validates the correct operation of event detection processes on appropriate assets. The appropriateness of the assets is identified in accordance with the asset classification schema (cf. AM-09).                                                           | Functional     | Intersects With   | Control Validation Testing (CVT)                                   | IAO-04   | Mechanisms exist to formally assess the security, compliance and resilience controls in Technology Assets, Applications and/or Services (TAAS) through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.                                                                         | 3                        |       | IAO-02       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                    |                                                                                                                                                                                                                                                                                              |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                    |                                                                                                                                                                                                                                                                                              |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                    |                                                                                                                                                                                                                                                                                              |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| FDE #                                                                                               | FDE Name                                                           | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
| OPS-13.01AC                                                                                         | Logging and Monitoring - Security Information and Event Management | The cloud service provider validates the correct operation of event detection processes on appropriate assets. The appropriateness of the assets is identified in accordance with the asset classification schema (cf. AM-09).                                                               | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Monitoring                                                                                                         | MON-03   | Mechanisms exist to review event logs and security-relevant telemetry on an ongoing basis and escalate incidents in accordance with established timelines and procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | MON-01.8     |
| OPS-13.02AC                                                                                         | Logging and Monitoring - Security Information and Event Management | Timely and appropriate remediation measures address any deviations identified during validation.                                                                                                                                                                                             | Functional     | Intersects With   | Capabilities Deficiency Tracking                                                                                                                           | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| OPS-13.03AC                                                                                         | Logging and Monitoring - Security Information and Event Management | If an event that can lead to security incidents is identified, incident handling activities by the cloud service provider are triggered without undue delay.                                                                                                                                 | Functional     | Intersects With   | Incident Handling                                                                                                                                          | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                        |       | IRO-02       |
| OPS-14.01B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | The cloud service provider retains the generated log data, including SIEM log data, and keeps it in an appropriate, unchangeable and aggregated form, regardless of the source of such data, so that a central, authorised evaluation of the data is possible.                               | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry                                                                                                     | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | MON-08       |
| OPS-14.01B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | The cloud service provider retains the generated log data, including SIEM log data, and keeps it in an appropriate, unchangeable and aggregated form, regardless of the source of such data, so that a central, authorised evaluation of the data is possible.                               | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention                                                                                                          | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | MON-10       |
| OPS-14.02B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | Log data is deleted if it is no longer required for the purpose for which it was collected.                                                                                                                                                                                                  | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                                                                                                                       | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | DCH-21       |
| OPS-14.02B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | Log data is deleted if it is no longer required for the purpose for which it was collected.                                                                                                                                                                                                  | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention                                                                                                          | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | MON-10       |
| OPS-14.03B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | Between logging servers and the assets to be logged, authentication measures are in place to protect the integrity and authenticity of the information transmitted and stored. The transfer uses state of the art encryption or a dedicated administration network (out-of-band management). | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry                                                                                                     | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | MON-08       |
| OPS-14.03B                                                                                          | Logging and Monitoring - Retention of the Logging Data             | Between logging servers and the assets to be logged, authentication measures are in place to protect the integrity and authenticity of the information transmitted and stored. The transfer uses state of the art encryption or a dedicated administration network (out-of-band management). | Functional     | Intersects With   | Remote Access Cryptographic Protections                                                                                                                    | NET-26.5 | Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | NET-14.2     |
| OPS-15.01B                                                                                          | Logging and Monitoring - Accountability                            | The log data generated - compromising both cloud service derived data and cloud service provider data - enables unambiguous identification of user access at the tenant level, supporting effective forensic analysis in the event of a security incident.                                   | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                                                                                                                    | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CLD-06.2     |
| OPS-15.01B                                                                                          | Logging and Monitoring - Accountability                            | The log data generated - compromising both cloud service derived data and cloud service provider data - enables unambiguous identification of user access at the tenant level, supporting effective forensic analysis in the event of a security incident.                                   | Functional     | Intersects With   | Audit Trails                                                                                                                                               | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8                        |       | MON-03.2     |
| OPS-15.02B                                                                                          | Logging and Monitoring - Accountability                            | Each logged event includes a time/date stamp to ensure accurate and traceable records.                                                                                                                                                                                                       | Functional     | Intersects With   | Time Stamps                                                                                                                                                | MON-11   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to use an authoritative time source to generate time stamps for event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8                        |       | MON-07       |
| OPS-15.03B                                                                                          | Logging and Monitoring - Accountability                            | The cloud service provider is able to support forensic analysis of incidents and to retain a chain of evidence. This implies that the cloud service provider capture the state of hardware objects and network communication during security events.                                         | Functional     | Intersects With   | Chain of Custody & Forensics                                                                                                                               | IRO-13   | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | IRO-08       |
| OPS-15.03B                                                                                          | Logging and Monitoring - Accountability                            | The cloud service provider is able to support forensic analysis of incidents and to retain a chain of evidence. This implies that the cloud service provider capture the state of hardware objects and network communication during security events.                                         | Functional     | Intersects With   | Non-Repudiation                                                                                                                                            | MON-34   | Mechanisms exist to utilize a non-repudiation capability to protect against an individual falsely denying having performed a particular action.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | MON-09       |
| OPS-15.01AC                                                                                         | Logging and Monitoring - Accountability                            | On request of the cloud service customer, the cloud service provider provides the logs relating to the cloud service customer in an appropriate form and in a timely manner so that the cloud service customer can investigate any incidents relating to them.                               | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                                                                                                                    | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CLD-06.2     |
| OPS-15.02AC                                                                                         | Logging and Monitoring - Accountability                            | The aforementioned logs are collected and maintained using controls and processes that preserve their integrity and reliability for security monitoring and incident investigation purposes. This implies, but is not limited to:                                                            | Functional     | Intersects With   | Chain of Custody & Forensics                                                                                                                               | IRO-13   | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | IRO-08       |
| OPS-15.02AC                                                                                         | Logging and Monitoring - Accountability                            | The aforementioned logs are collected and maintained using controls and processes that preserve their integrity and reliability for security monitoring and incident investigation purposes. This implies, but is not limited to:                                                            | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry                                                                                                     | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | MON-08       |
| OPS-15.02AC.1                                                                                       | Logging and Monitoring - Accountability                            | Records are complete and have not been tampered with in any way;                                                                                                                                                                                                                             | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry                                                                                                     | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | MON-08       |
| OPS-15.02AC.2                                                                                       | Logging and Monitoring - Accountability                            | Logging systems are clock synchronised, logs include accurate timestamps;                                                                                                                                                                                                                    | Functional     | Intersects With   | Synchronization With Authoritative Time Source                                                                                                             | MON-11.1 | Mechanisms exist to synchronize internal system clocks with an authoritative time source.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | MON-07.1     |
| OPS-15.02AC.3                                                                                       | Logging and Monitoring - Accountability                            | Copies of electronic evidence are provably identical to the originals; and                                                                                                                                                                                                                   | Functional     | Intersects With   | Chain of Custody & Forensics                                                                                                                               | IRO-13   | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | IRO-08       |
| OPS-15.02AC.4                                                                                       | Logging and Monitoring - Accountability                            | Any information system from which evidence has been gathered was operating correctly at the time the evidence was recorded.                                                                                                                                                                  | Functional     | Intersects With   | Chain of Custody & Forensics                                                                                                                               | IRO-13   | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | IRO-08       |
| OPS-16.01B                                                                                          | Logging and Monitoring - Configuration                             | Access to system components for logging and monitoring in the cloud service provider's area of responsibility is restricted to authorised users and requires authentication with two or more factors.                                                                                        | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                                                                                                          | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data.                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | IAC-06       |
| OPS-16.01B                                                                                          | Logging and Monitoring - Configuration                             | Access to system components for logging and monitoring in the cloud service provider's area of responsibility is restricted to authorised users and requires authentication with two or more factors.                                                                                        | Functional     | Intersects With   | Query Parameter Audits of Personal Data (PD)                                                                                                               | MON-29.2 | Mechanisms exist to provide and implement the capability for auditing the parameters of user query events for data sets containing Personal Data (PD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | MON-06.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document:                                                   |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                   |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document URL:                                               |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Published STRM URL:                                               |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                        |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                         | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                    | STRM Rationale | STRM Relationship | SCF Control                                                       | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-16.02B                                                                                          | Logging and Monitoring - Availability of the Monitoring Software | Changes to the configuration are made in accordance with the applicable policies (cf. DEV-03).<br>The cloud service provider monitors the availability of the system components for logging and monitoring in its area of responsibility.                                                                                                                                                                   | Functional     | Intersects With   | Configuration Change Control                                      | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                      | 5                        |       | CHG-02       |  |
| OPS-17.01B                                                                                          | Logging and Monitoring - Availability of the Monitoring Software | The cloud service provider monitors the availability of the system components for logging and monitoring in its area of responsibility.                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Continuous Monitoring                                             | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                             | 3                        |       | MON-01       |  |
| OPS-17.01B                                                                                          | Logging and Monitoring - Availability of the Monitoring Software | The cloud service provider monitors the availability of the system components for logging and monitoring in its area of responsibility.                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Response To Event Log Processing Failures                         | MON-33   | Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.                                                                                                                                                   | 5                        |       | MON-05       |  |
| OPS-17.02B                                                                                          | Logging and Monitoring - Availability of the Monitoring Software | Failures are automatically and timely reported to the cloud service provider's responsible departments so that these can assess the failures and take required action.                                                                                                                                                                                                                                      | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry         | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                     | 3                        |       | MON-01.4     |  |
| OPS-17.02B                                                                                          | Logging and Monitoring - Availability of the Monitoring Software | Failures are automatically and timely reported to the cloud service provider's responsible departments so that these can assess the failures and take required action.                                                                                                                                                                                                                                      | Functional     | Intersects With   | Response To Event Log Processing Failures                         | MON-33   | Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.                                                                                                                                                   | 5                        |       | MON-05       |  |
| OPS-17.01AC                                                                                         | Logging and Monitoring - Availability of the Monitoring Software | The cloud service provider provides resilience for the logs and the associated infrastructure by defining, documenting and implementing measures to protect their integrity, availability and confidentiality.                                                                                                                                                                                              | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry            | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                              | 5                        |       | MON-08       |  |
| OPS-17.01AC                                                                                         | Logging and Monitoring - Availability of the Monitoring Software | The cloud service provider provides resilience for the logs and the associated infrastructure by defining, documenting and implementing measures to protect their integrity, availability and confidentiality.                                                                                                                                                                                              | Functional     | Intersects With   | Alternate Event Logging Capability                                | MON-35   | Mechanisms exist to provide an alternate event logging capability in the event of a failure in primary audit capability.                                                                                                                                                              | 3                        |       | MON-13       |  |
| OPS-17.02AC                                                                                         | Logging and Monitoring - Availability of the Monitoring Software | The system components for logging and monitoring are designed in such a way that the overall functionality is not restricted if individual components fail.                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Alternate Event Logging Capability                                | MON-35   | Mechanisms exist to provide an alternate event logging capability in the event of a failure in primary audit capability.                                                                                                                                                              | 5                        |       | MON-13       |  |
| OPS-18.01B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | Policies and procedures with technical and organisational measures are documented, communicated and provided in accordance with SP-01 to govern the timely identification and addressing of vulnerabilities in the system components used to provide the cloud service. These policies and procedures contain specifications regarding the following:                                                       | Functional     | Intersects With   | Vulnerability & Patch Management Program (VPMP)                   | VPM-02   | Mechanisms exist to facilitate the implementation and monitoring of risk-based vulnerability management capabilities.                                                                                                                                                                 | 8                        |       | VPM-01       |  |
| OPS-18.01B.1                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Regular (proactive) identification of vulnerabilities through suitable measures, including vulnerability scans and penetration tests, considering typical vulnerability classes and Common Weaknesses (CWEs);                                                                                                                                                                                               | Functional     | Intersects With   | Vulnerability Scanning                                            | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                                    | 5                        |       | VPM-06       |  |
| OPS-18.01B.1                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Regular (proactive) identification of vulnerabilities through suitable measures, including vulnerability scans and penetration tests, considering typical vulnerability classes and Common Weaknesses (CWEs);                                                                                                                                                                                               | Functional     | Intersects With   | Penetration Testing                                               | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 3                        |       | VPM-07       |  |
| OPS-18.01B.2                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Assess the severity of identified vulnerabilities using the Common Vulnerability Scoring System (CVSS);                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Vulnerability Ranking                                             | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                           | 5                        |       | VPM-03       |  |
| OPS-18.01B.3                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Prioritising and implementing measures considering existing standards for timely remediation and/or mitigation of identified vulnerabilities based on severity according to defined time frames and with reference to commonly used scoring systems like the Exploit Prediction Scoring System (EPSS) and the Stakeholder-Specific Vulnerability Categorisation (SSVC);                                     | Functional     | Intersects With   | Vulnerability Exploitation Analysis                               | VPM-04   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats exploiting known vulnerabilities.                                                                                                 | 5                        |       | VPM-03.1     |  |
| OPS-18.01B.3                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Prioritising and implementing measures considering existing standards for timely remediation and/or mitigation of identified vulnerabilities based on severity according to defined time frames and with reference to commonly used scoring systems like the Exploit Prediction Scoring System (EPSS) and the Stakeholder-Specific Vulnerability Categorisation (SSVC);                                     | Functional     | Intersects With   | Vulnerability Remediation Process                                 | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 5                        |       | VPM-02       |  |
| OPS-18.01B.4                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Deployment of Security Patches;                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Software & Firmware Patching                                      | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                            | 5                        |       | VPM-05       |  |
| OPS-18.01B.5                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Handling system components for which no measures for timely remediation or mitigation of vulnerabilities are initiated based on a risk assessment;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Compensating Countermeasures                                      | RSK-18   | Mechanisms exist to identify and implement one, or more, compensating controls to reduce risk and threat exposure when the primary means of implementing the security function is unavailable or compromised.                                                                         | 5                        |       | RSK-06.2     |  |
| OPS-18.01B.5                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Handling system components for which no measures for timely remediation or mitigation of vulnerabilities are initiated based on a risk assessment;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Vulnerability Remediation Process                                 | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 3                        |       | VPM-02       |  |
| OPS-18.01B.6                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Interfaces to incident management in case vulnerabilities become incidents;                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Incident Handling                                                 | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                       | 3                        |       | IRO-02       |  |
| OPS-18.01B.7                                                                                        | Managing Vulnerabilities - Policies and Procedures               | If AI-based tools are used for performing vulnerability scans or penetration tests, requirements for the comprehensible (traceable, transparent) documentation on the use of such tools and that these tools shall be used to support the cloud service provider's subject matter experts, not to replace them; and                                                                                         | Functional     | Intersects With   | Artificial Intelligence (AI) & Autonomous Technologies Governance | AAT-02   | Mechanisms exist to ensure policies, processes, procedures and practices related to the mapping, measuring and managing of Artificial Intelligence (AI) and Autonomous Technologies (AAT)-related risks are in place, transparent and implemented                                     | 3                        |       | AAT-01       |  |
| OPS-18.01B.8                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Providing information on the configuration of system components and cloud services, the existing vulnerabilities, and the available patches and/or mitigation measures, using widely adopted, preferably automated, formats.                                                                                                                                                                                | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                 | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                              | 3                        |       | TDA-04.2     |  |
| OPS-18.01B.8                                                                                        | Managing Vulnerabilities - Policies and Procedures               | Providing information on the configuration of system components and cloud services, the existing vulnerabilities, and the available patches and/or mitigation measures, using widely adopted, preferably automated, formats.                                                                                                                                                                                | Functional     | Intersects With   | Correlate Scanning Information                                    | VPM-17   | Automated mechanisms exist to correlate the output from vulnerability scanning tools to determine the presence of multi-vulnerability/multi-hop attack vectors.                                                                                                                       | 3                        |       | VPM-06.9     |  |
| OPS-18.02B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | The policies and procedures for the timely identification and addressing of vulnerabilities define that for vulnerabilities assessed to be 'critical', engagement has to begin in a timely manner after identification, even if this occurs outside regular working hours. They also define how such a vulnerability is engaged with.                                                                       | Functional     | Intersects With   | Vulnerability Remediation Process                                 | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 5                        |       | VPM-02       |  |
| OPS-18.03B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | The policies and procedures for the timely identification and addressing of vulnerabilities also define that for vulnerabilities assessed to be 'high', engagement has to begin within one working day after their identification. They also define how such a vulnerability is engaged                                                                                                                     | Functional     | Intersects With   | Vulnerability Remediation Process                                 | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 5                        |       | VPM-02       |  |
| OPS-18.04B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | The engagement with a vulnerability according to the policies and procedures for the timely identification and addressing of vulnerabilities includes regular follow-up of the vulnerability until its remediation.                                                                                                                                                                                         | Functional     | Intersects With   | Vulnerability Remediation Process                                 | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 5                        |       | VPM-02       |  |
| OPS-18.05B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | Based on a risk assessment (cf. OIS-07), the cloud service provider can decide not to remediate or mitigate identified vulnerabilities. Such a risk assessment and the compensating or mitigating measures are reviewed regularly and in case of significant changes to the cloud service.                                                                                                                  | Functional     | Intersects With   | Risk Assessment                                                   | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD). | 3                        |       | RSK-04       |  |
| OPS-18.05B                                                                                          | Managing Vulnerabilities - Policies and Procedures               | Based on a risk assessment (cf. OIS-07), the cloud service provider can decide not to remediate or mitigate identified vulnerabilities. Such a risk assessment and the compensating or mitigating measures are reviewed regularly and in case of significant changes to the cloud service.                                                                                                                  | Functional     | Intersects With   | Compensating Countermeasures                                      | RSK-18   | Mechanisms exist to identify and implement one, or more, compensating controls to reduce risk and threat exposure when the primary means of implementing the security function is unavailable or compromised.                                                                         | 5                        |       | RSK-06.2     |  |
| OPS-19.01B                                                                                          | Managing Incidents and Crashes - Policies and Procedures         | Policies and procedures with technical and organisational measures are documented, communicated, and provided in accordance with SP-01 to govern the timely identification and management of incidents and crashes in the system components used to provide the cloud service or of parts or the whole cloud service. These policies and procedures include specifications regarding the following aspects: | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation        | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                | 3                        |       | GOV-02       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document:                                            |        | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                   |                          |  |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document URL:                                        |        | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                |                          |  |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Published STRM URL:                                        |        | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                        |                          |  |       |              |
| FDE #                                                                                               | FDE Name                                                            | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                    | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                   | Strength of Relationship |  | Notes | Legacy SCF # |
| OPS-19.01B                                                                                          | Managing Incidents and Crashes - Policies and Procedures            | Policies and procedures with technical and organisational measures are documented, communicated, and provided in accordance with SP-01 to govern the timely identification and management of incidents and crashes in the system components used to provide the cloud service or of parts or the whole cloud service. These policies and procedures include specifications regarding the following aspects: | Functional     | Intersects With   | Incident Response Operations                               | IRO-02 | Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity and data protection-related incidents.                                                                                                  | 5                        |  |       | IRO-01       |
| OPS-19.01B.1                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Classification and prioritisation of incidents and crashes;                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Incident Classification & Prioritization                   | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                                                                   | 5                        |  |       | IRO-02.4     |
| OPS-19.01B.2                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Standardised incident-handling procedures for addressing known issues;                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Incident Handling                                          | IRO-06 | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                       | 5                        |  |       | IRO-02       |
| OPS-19.01B.3                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Escalation rules and procedures, including criteria for triggering Security Incident Management (SIM) processes in accordance with SIM-02 or internal incident management procedures;                                                                                                                                                                                                                       | Functional     | Intersects With   | Incident Classification & Prioritization                   | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                                                                   | 3                        |  |       | IRO-02.4     |
| OPS-19.01B.3                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Escalation rules and procedures, including criteria for triggering Security Incident Management (SIM) processes in accordance with SIM-02 or internal incident management procedures;                                                                                                                                                                                                                       | Functional     | Intersects With   | Incident Response Plan (IRP)                               | IRO-08 | Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.                                                                                                                                                                | 3                        |  |       | IRO-04       |
| OPS-19.01B.4                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Knowledge sources for incidents and crashes;                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned                | IRO-14 | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                      | 3                        |  |       | IRO-13       |
| OPS-19.01B.5                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Criteria for determining when crashes are classified as incidents and when they trigger incident management processes;                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Incident Classification & Prioritization                   | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                                                                   | 3                        |  |       | IRO-02.4     |
| OPS-19.01B.6                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Mechanisms ensuring that access to crash files is restricted to authorised personnel only;                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Role-Based Access Control (RBAC)                           | IAC-06 | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                              | 3                        |  |       | IAC-08       |
| OPS-19.01B.7                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Safeguards to prevent exposure of sensitive, personal, or confidential data within crash files;                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Sensitive Event Log & Security-Relevant Telemetry Data     | MON-30 | Mechanisms exist to protect sensitive and/or regulated data contained in event logs and security-relevant telemetry.                                                                                                                                                                  | 5                        |  |       | MON-03.1     |
| OPS-19.01B.8                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Encryption of crash files for storage and during transmission;                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Encrypting Data In Transit                                 | CRY-05 | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                             | 3                        |  |       | CRY-03       |
| OPS-19.01B.8                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Encryption of crash files for storage and during transmission;                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Encrypting Data At Rest                                    | CRY-07 | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                | 3                        |  |       | CRY-05       |
| OPS-19.01B.9                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Access management, logging, and review processes for access logs of crash files; and                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges | IAC-12 | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                        | 3                        |  |       | IAC-17       |
| OPS-19.01B.9                                                                                        | Managing Incidents and Crashes - Policies and Procedures            | Access management, logging, and review processes for access logs of crash files; and                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry     | MON-12 | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                              | 3                        |  |       | MON-08       |
| OPS-19.01B.10                                                                                       | Managing Incidents and Crashes - Policies and Procedures            | Retention periods and secure deletion processes for crash files once no longer needed.                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                       | DCH-17 | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                     | 3                        |  |       | DCH-21       |
| OPS-19.01B.10                                                                                       | Managing Incidents and Crashes - Policies and Procedures            | Retention periods and secure deletion processes for crash files once no longer needed.                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Media & Data Retention                                     | DCH-27 | Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.                                                                                                                                                            | 3                        |  |       | DCH-18       |
| OPS-20.01B                                                                                          | Managing Incidents - Implementation                                 | The cloud service provider identifies, records, classifies, prioritises, and addresses incidents according to the policies and procedures for the identification and management of incidents and crashes (cf. OPS-19).                                                                                                                                                                                      | Functional     | Intersects With   | Incident Handling                                          | IRO-06 | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                       | 8                        |  |       | IRO-02       |
| OPS-21.01B                                                                                          | Managing Crashes - Implementation                                   | Crashes of system components, parts of or the whole cloud service under the responsibility of the cloud service provider are identified, recorded, and addressed according to the policies and procedures for the identification and management of incidents and crashes (cf. OPS-19).                                                                                                                      | Functional     | Intersects With   | Business Continuity Management System (BCMS)               | BCD-02 | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                       | 3                        |  |       | BCD-01       |
| OPS-21.01B                                                                                          | Managing Crashes - Implementation                                   | Crashes of system components, parts of or the whole cloud service under the responsibility of the cloud service provider are identified, recorded, and addressed according to the policies and procedures for the identification and management of incidents and crashes (cf. OPS-19).                                                                                                                      | Functional     | Intersects With   | Incident Handling                                          | IRO-06 | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                       | 3                        |  |       | IRO-02       |
| OPS-22.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | The cloud service provider performs penetration tests by qualified internal personnel or external penetration testers at least once a year and in case of significant changes to the cloud service in accordance with the policies for managing vulnerabilities (cf. OPS-18).                                                                                                                               | Functional     | Intersects With   | Penetration Testing                                        | VPM-18 | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 8                        |  |       | VPM-07       |
| OPS-22.02B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | Penetration tests are carried out in accordance with a documented framework for penetration tests that outlines the number and types of penetration tests to be performed and the requirements for the qualification and competence of the personnel to perform such tests. The number and types of penetration tests to be performed are determined based on a risk assessment (cf. OIS-07).               | Functional     | Intersects With   | Penetration Testing                                        | VPM-18 | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 5                        |  |       | VPM-07       |
| OPS-22.03B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | Penetration tests target the system components relevant to the provision of the cloud service in the area of responsibility of the cloud service provider. System components to be targeted are identified in a risk assessment.                                                                                                                                                                            | Functional     | Intersects With   | Risk Assessment                                            | RSK-13 | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD). | 3                        |  |       | RSK-04       |
| OPS-22.03B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | Penetration tests target the system components relevant to the provision of the cloud service in the area of responsibility of the cloud service provider. System components to be targeted are identified in a risk assessment.                                                                                                                                                                            | Functional     | Intersects With   | Penetration Testing                                        | VPM-18 | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 5                        |  |       | VPM-07       |
| OPS-22.04B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | Penetration tests are carried out in accordance with test plans that cover all relevant system components and specify which system components are to be tested.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Penetration Testing                                        | VPM-18 | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 3                        |  |       | VPM-07       |
| OPS-22.05B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | If penetration tests follow multi-year test plans, each relevant system component is subjected to at least one penetration test within a maximum period of three years.                                                                                                                                                                                                                                     | Functional     | Intersects With   | Penetration Testing                                        | VPM-18 | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                            | 3                        |  |       | VPM-07       |
| OPS-22.06B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | The cloud service provider assesses the severity of identified vulnerabilities in accordance with the Common Vulnerability Scoring System (CVSS), in the latest version valid at the time of the assessment.                                                                                                                                                                                                | Functional     | Intersects With   | Vulnerability Ranking                                      | VPM-05 | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                           | 5                        |  |       | VPM-03       |
| OPS-22.07B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests | Actions for remediation or mitigation are taken in accordance with the time frames as defined in the policies for managing vulnerabilities (cf. OPS-18).                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Vulnerability Remediation Process                          | VPM-06 | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                      | 5                        |  |       | VPM-02       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Focal Document:                                 |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                              |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Focal Document URL:                             |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                           |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Published STRM URL:                             |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                   |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                                               | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | STRM Rationale | STRM Relationship | SCF Control                                     | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                              | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-22.08B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The vulnerabilities discovered through penetration testing are subject to a root cause analysis. The root cause analysis enables an assessment of the extent to which similar vulnerabilities may be present in the cloud service.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned     | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                 | 3                        |       | IRO-13       |  |
| OPS-22.08B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The vulnerabilities discovered through penetration testing are subject to a root cause analysis. The root cause analysis enables an assessment of the extent to which similar vulnerabilities may be present in the cloud service.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Vulnerability Remediation Process               | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                 | 3                        |       | VPM-02       |  |
| OPS-22.01AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | OPS-22.01AS, sharpening OPS-22.01B<br>The cloud service provider performs penetration tests at least every six months and in case of significant changes to the cloud service by independent external penetration testers in accordance with the policies for managing vulnerabilities (cf. OPS-18). The external penetration testers are engaged only if the personnel supposed to perform the test verifiably meets the cloud service provider's qualification and competence requirements. Internal personnel for penetration tests may support the external personnel. | Functional     | Intersects With   | Independent Penetration Agent or Team           | VPM-19   | Mechanisms exist to utilize an independent assessor or penetration team to perform penetration testing.                                                                                                                                                                          | 8                        |       | VPM-07.1     |  |
| OPS-22.02AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | OPS-22.02AS, sharpening OPS-22.02B<br>Pre-launch and post-launch penetration tests are performed in accordance with a documented framework for penetration tests that outlines the number and types of penetration tests to be performed and the requirements for the qualification and competence of the personnel to perform such tests. The number and types of penetration tests to be performed are determined based on a risk assessment (cf. OIS-07).                                                                                                               | Functional     | Intersects With   | Penetration Testing                             | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 5                        |       | VPM-07       |  |
| OPS-22.03AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | OPS-22.03AS, sharpening OPS-22.03B<br>Penetration tests target system components relevant to the provision of the cloud service in the area of responsibility of the cloud service provider. System components to be targeted are identified in a risk assessment incorporating, where applicable, threat modelling.                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Threat Modeling                                 | TDA-05.2 | Mechanisms exist to perform threat modelling and other secure design techniques, to ensure that threats to software and solutions are identified and accounted for.                                                                                                              | 3                        |       | TDA-06.2     |  |
| OPS-22.03AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | OPS-22.03AS, sharpening OPS-22.03B<br>Penetration tests target system components relevant to the provision of the cloud service in the area of responsibility of the cloud service provider. System components to be targeted are identified in a risk assessment incorporating, where applicable, threat modelling.                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Penetration Testing                             | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 5                        |       | VPM-07       |  |
| OPS-22.01AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | Penetration tests are performed based on reviews of the architecture and configuration of the system components, and of the cloud service provider's source code.                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Alignment With Enterprise Architecture          | SEA-04   | Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for security, compliance and resilience principles that addresses risk to organizational operations, assets, individuals and other organizations. | 3                        |       | SEA-02       |  |
| OPS-22.01AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | Penetration tests are performed based on reviews of the architecture and configuration of the system components, and of the cloud service provider's source code.                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Static Code Analysis                            | TDA-17.1 | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to employ static code analysis tools to identify and remediate common flaws and document the results of the analysis.                                                       | 3                        |       | TDA-09.2     |  |
| OPS-22.02AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The cloud service provider designs a multi-year test plan for its penetration testing activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Penetration Testing                             | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 3                        |       | VPM-07       |  |
| OPS-22.03AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The cloud service provider reviews the effectiveness of penetration tests on system components at least annually, and in case of significant changes to the cloud service.                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Penetration Testing                             | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 3                        |       | VPM-07       |  |
| OPS-22.04AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The cloud service provider uses the threat modelling process to prioritise system components with the highest risk exposure for penetration testing by systematically analysing cloud components, services, data flows, trust boundaries and assets critical to the cloud service to enumerate potential threats, vulnerabilities, and attack                                                                                                                                                                                                                              | Functional     | Intersects With   | Threat Modeling                                 | TDA-05.2 | Mechanisms exist to perform threat modelling and other secure design techniques, to ensure that threats to software and solutions are identified and accounted for.                                                                                                              | 5                        |       | TDA-06.2     |  |
| OPS-22.05AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The cloud service provider correlates the possible exploits of discovered vulnerabilities with previous information security incidents to identify if the vulnerability may have been exploited before its discovery.                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned     | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                 | 3                        |       | IRO-13       |  |
| OPS-22.05AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Penetration Tests                                    | The cloud service provider correlates the possible exploits of discovered vulnerabilities with previous information security incidents to identify if the vulnerability may have been exploited before its discovery.                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Monitoring for Indicators of Compromise (IOC)   | MON-17   | Automated mechanisms exist to identify and alert on indicators of compromise (IoC).                                                                                                                                                                                              | 3                        |       | MON-11.3     |  |
| OPS-23.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Measurements, Analyses and Assessments of Procedures | The cloud service provider regularly measures, analyses and assesses the procedures with which vulnerabilities and incidents are handled to verify their continued suitability, appropriateness and effectiveness.                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Measures of Performance                         | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRPP) measures of performance.                                                                                                                                                       | 3                        |       | GOV-05       |  |
| OPS-23.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Measurements, Analyses and Assessments of Procedures | The cloud service provider regularly measures, analyses and assesses the procedures with which vulnerabilities and incidents are handled to verify their continued suitability, appropriateness and effectiveness.                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned     | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                 | 3                        |       | IRO-13       |  |
| OPS-23.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Measurements, Analyses and Assessments of Procedures | The cloud service provider regularly measures, analyses and assesses the procedures with which vulnerabilities and incidents are handled to verify their continued suitability, appropriateness and effectiveness.                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Vulnerability & Patch Management Program (VPMP) | VPM-02   | Mechanisms exist to facilitate the implementation and monitoring of risk-based vulnerability management capabilities.                                                                                                                                                            | 3                        |       | VPM-01       |  |
| OPS-23.02B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Measurements, Analyses and Assessments of Procedures | Results are evaluated at least quarterly in a documented form by responsible individuals or groups of the cloud service provider to initiate continuous improvement actions and to verify their effectiveness.                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Measures of Performance                         | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRPP) measures of performance.                                                                                                                                                       | 5                        |       | GOV-05       |  |
| OPS-24.01B                                                                                          | Involvement of Cloud Service Customers in the Event of Incidents                                       | The cloud service provider periodically informs the cloud service customer on the status of incidents affecting the cloud service customer, or, where appropriate and necessary, involve the customer in the resolution, in a manner consistent with the contractual agreements.                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Incident Stakeholder Reporting                  | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                             | 5                        |       | IRO-10       |  |
| OPS-24.01B                                                                                          | Involvement of Cloud Service Customers in the Event of Incidents                                       | The cloud service provider periodically informs the cloud service customer on the status of incidents affecting the cloud service customer, or, where appropriate and necessary, involve the customer in the resolution, in a manner consistent with the contractual                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Situational Awareness For Incidents             | IRO-16.1 | Mechanisms exist to document, monitor and report the status of cybersecurity and data protection incidents to internal stakeholders all the way through the resolution of the incident.                                                                                          | 3                        |       | IRO-09       |  |
| OPS-24.02B                                                                                          | Involvement of Cloud Service Customers in the Event of Incidents                                       | As soon as an incident has been resolved from the cloud service provider's perspective, the cloud service customer is informed about the actions taken according to the contractual agreements.                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Incident Stakeholder Reporting                  | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                             | 5                        |       | IRO-10       |  |
| OPS-24.01AC                                                                                         | Involvement of Cloud Service Customers in the Event of Incidents                                       | The cloud service provider defines and documents procedures in contractual agreements with cloud service customers that specify the involvement of the customer in confirming, within a specified time period, that a resolution has effectively addressed the root cause of an incident.                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Incident Stakeholder Reporting                  | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                             | 3                        |       | IRO-10       |  |
| OPS-25.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans                                  | System components in the area of responsibility of the cloud service provider for the provision of the cloud service are subject to vulnerability scans at least once a month in accordance with the policies for handling vulnerabilities (cf. OPS-18). These vulnerability scans include a comparison of software component data against up-to-date vulnerability databases (e.g., CVE, EUID, etc.) to identify known                                                                                                                                                    | Functional     | Intersects With   | Vulnerability Scanning                          | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                               | 8                        |       | VPM-06       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document:                                            |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                         |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document URL:                                        |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                      |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Published STRM URL:                                        |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                              |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                         | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-25.02B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | The cloud service provider assesses the severity of vulnerabilities in accordance with defined criteria.                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Vulnerability Ranking                                      | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                 | 5                        |       | VPM-03       |  |
| OPS-25.03B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | Measures for timely remediation or mitigation are initiated within defined time frame.                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Vulnerability Remediation Process                          | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                            | 5                        |       | VPM-02       |  |
| OPS-25.04B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | The results of the vulnerability scans are used to update the cloud service provider's SIEM system (cf. OPS-13) rules, enabling the system to detect when known vulnerabilities are being actively exploited.                                                                                                                                                                                                                                                | Functional     | Intersects With   | Correlate Monitoring Information                           | MON-08   | Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.                                                  | 3                        |       | MON-02.1     |  |
| OPS-25.04B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | The results of the vulnerability scans are used to update the cloud service provider's SIEM system (cf. OPS-13) rules, enabling the system to detect when known vulnerabilities are being actively exploited.                                                                                                                                                                                                                                                | Functional     | Intersects With   | Correlate Scanning Information                             | VPM-17   | Automated mechanisms exist to correlate the output from vulnerability scanning tools to determine the presence of multi-vulnerability/multi-hop attack vectors.                                                                                                                             | 5                        |       | VPM-06.9     |  |
| OPS-25.01AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | OPS-25.01AS, sharpening OPS-25.01B<br>System components in the area of responsibility of the cloud service provider for the provision of the cloud service are subject to vulnerability scans at least once a day in accordance with the policies for handling vulnerabilities (cf. OPS-18). These vulnerability scans include a comparison of software component data against up-to-date vulnerability databases (e.g., CVE, EUIDV, etc.) to identify known | Functional     | Intersects With   | Vulnerability Scanning                                     | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                                          | 8                        |       | VPM-06       |  |
| OPS-25.02AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | OPS-25.02AS, sharpening OPS-25.02B<br>The cloud service provider assesses the severity of vulnerabilities using the latest version of the Common Vulnerability Scoring System (CVSS) valid at the time of the assessment.                                                                                                                                                                                                                                    | Functional     | Intersects With   | Vulnerability Ranking                                      | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                 | 5                        |       | VPM-03       |  |
| OPS-25.01AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | Time frames for the initiation of remediation or mitigation efforts after a vulnerability is identified are defined and monitored according to a risk-based classification framework. This framework incorporates, but is not limited to, the CVSS severity level of vulnerabilities.                                                                                                                                                                        | Functional     | Intersects With   | Vulnerability Exploitation Analysis                        | VPM-04   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats exploiting known vulnerabilities.                                                                                                       | 3                        |       | VPM-03.1     |  |
| OPS-25.01AC                                                                                         | Managing Vulnerabilities, Incidents and Crashes - Vulnerability Scans | Time frames for the initiation of remediation or mitigation efforts after a vulnerability is identified are defined and monitored according to a risk-based classification framework. This framework incorporates, but is not limited to, the CVSS severity level of vulnerabilities.                                                                                                                                                                        | Functional     | Intersects With   | Vulnerability Remediation Process                          | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                            | 5                        |       | VPM-02       |  |
| OPS-26.01B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | System components in the production environment used to provide the cloud service under the cloud service provider's responsibility are hardened according to generally accepted industry standards.                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Secure Baseline Configurations                             | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                | 8                        |       | CFG-02       |  |
| OPS-26.02B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | The hardening requirements for each system component are documented.                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Secure Baseline Configurations                             | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                | 5                        |       | CFG-02       |  |
| OPS-26.03B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | If non-modifiable ("immutable") images are used, compliance with the hardening specifications, as defined in the hardening requirements, is checked upon creation of the images.                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Secure Baseline Configurations                             | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                | 3                        |       | CFG-02       |  |
| OPS-26.03B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | If non-modifiable ("immutable") images are used, compliance with the hardening specifications, as defined in the hardening requirements, is checked upon creation of the images.                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Virtual Machine Images                                     | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                            | 3                        |       | CLD-05       |  |
| OPS-26.04B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | Configurations and log files (cloud service provider data) regarding the continuous availability of the aforementioned immutable images are retained.                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Retention Of Previous Configurations                       | CFG-09   | Mechanisms exist to retain previous versions of secure baseline configuration to support roll back.                                                                                                                                                                                         | 3                        |       | CFG-02.3     |  |
| OPS-26.04B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | Configurations and log files (cloud service provider data) regarding the continuous availability of the aforementioned immutable images are retained.                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Retention          | MON-13   | Mechanisms exist to retain event logs and security-relevant telemetry for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements. | 3                        |       | MON-10       |  |
| OPS-26.05B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | The cloud service provider implements monitoring measures to ensure system components comply with hardening specifications.                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                    | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                              | 5                        |       | CFG-06       |  |
| OPS-26.06B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | Identified deviations from these specifications are timely reported to the appropriate departments for immediate assessment and action.                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                    | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                              | 3                        |       | CFG-06       |  |
| OPS-26.06B                                                                                          | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | Identified deviations from these specifications are timely reported to the appropriate departments for immediate assessment and action.                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry  | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                           | 3                        |       | MON-01.4     |  |
| OPS-26.05AS                                                                                         | Managing Vulnerabilities, Incidents and Crashes - System Hardening    | OPS-26.05AS, sharpening OPS-26.05B<br>System components in the cloud service provider's area of responsibility are automatically monitored for compliance with hardening specifications.                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                    | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                              | 8                        |       | CFG-06       |  |
| OPS-27.01B                                                                                          | Managing Vulnerabilities - Patch Management Policies and Procedures   | Policies and procedures with technical and organisational measures are documented, communicated and provided in accordance with SP-01 to ensure system components under the responsibility of the cloud service provider are patched within a suitable time frame depending on contractual agreements and identified vulnerabilities or exploits. These policies and procedures contain specifications regarding the following aspects:                      | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                      | 3                        |       | GOV-02       |  |
| OPS-27.01B                                                                                          | Managing Vulnerabilities - Patch Management Policies and Procedures   | Policies and procedures with technical and organisational measures are documented, communicated and provided in accordance with SP-01 to ensure system components under the responsibility of the cloud service provider are patched within a suitable time frame depending on contractual agreements and identified vulnerabilities or exploits. These policies and procedures contain specifications regarding the following aspects:                      | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                  | 8                        |       | VPM-05       |  |
| OPS-27.01B.1                                                                                        | Managing Vulnerabilities - Patch Management Policies and Procedures   | Software is kept up-to-date, including timely deployment of security patches;                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Stable Versions                                            | AST-37.1 | Mechanisms exist to install the latest stable version of any software and/or security-related updates on all applicable systems.                                                                                                                                                            | 3                        |       | VPM-04.1     |  |
| OPS-27.01B.1                                                                                        | Managing Vulnerabilities - Patch Management Policies and Procedures   | Software is kept up-to-date, including timely deployment of security patches;                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                  | 5                        |       | VPM-05       |  |
| OPS-27.01B.2                                                                                        | Managing Vulnerabilities - Patch Management Policies and Procedures   | Patches are scheduled within maintenance windows, where applicable, to minimise service disruption; and                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Timely Maintenance                                         | MINT-04  | Mechanisms exist to obtain maintenance support and/or spare parts for Technology Assets, Applications and/or Services (TAAS) within a defined Recovery Time Objective (RTO).                                                                                                                | 3                        |       | MINT-03      |  |
| OPS-27.01B.2                                                                                        | Managing Vulnerabilities - Patch Management Policies and Procedures   | Patches are scheduled within maintenance windows, where applicable, to minimise service disruption; and                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                  | 3                        |       | VPM-05       |  |
| OPS-27.01B.3                                                                                        | Managing Vulnerabilities - Patch Management Policies and Procedures   | Patches are tested in non-production environments before they are rolled out into the production environment, provided testing was successful. Mechanisms are in place to revert to previous software versions in case of unexpected issues.                                                                                                                                                                                                                 | Functional     | Intersects With   | Retention Of Previous Configurations                       | CFG-09   | Mechanisms exist to retain previous versions of secure baseline configuration to support roll back.                                                                                                                                                                                         | 3                        |       | CFG-02.3     |  |

| FDE #        | FDE Name                                                                        | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
|--------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| OPS-27.01B.3 | Managing Vulnerabilities - Patch Management Policies and Procedures             | Patches are tested in non-production environments before they are rolled out into the production environment, provided testing was successful. Mechanisms are in place to revert to previous software versions in case of unexpected issues.                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Test, Validate & Document Changes                          | CHG-07   | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into production.                                                                      | 3                        |       | CHG-02.2     |
| OPS-27.02B   | Managing Vulnerabilities - Patch Management Policies and Procedures             | Patch management procedures are harmonised with the cloud service provider's overall software change management process (cf. DEV-03).                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Change Management Program                                  | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                         | 5                        |       | CHG-01       |
| OPS-27.02B   | Managing Vulnerabilities - Patch Management Policies and Procedures             | Patch management procedures are harmonised with the cloud service provider's overall software change management process (cf. DEV-03).                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 3                        |       | VPM-05       |
| OPS-27.03B   | Managing Vulnerabilities - Patch Management Policies and Procedures             | According to the measures and procedures of the overall change management, patches provided by third parties are identified, tested and deployed.                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 5                        |       | VPM-05       |
| OPS-27.04B   | Managing Vulnerabilities - Patch Management Policies and Procedures             | Systems are scanned after application of patches to ensure vulnerabilities and exploits are remediated and no known or unmitigated vulnerabilities or exploits were deployed.                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Vulnerability Scanning                                     | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                        | 5                        |       | VPM-06       |
| OPS-27.03AS  | Managing Vulnerabilities - Patch Management Policies and Procedures             | OPS-27.03AS, sharpening OPS-27.03B<br>According to the measures and procedures of the overall change management, patches provided by third parties are identified, tested and deployed in an automated manner. In case of patches where manual intervention is required, an exception handling process for manual patching is defined.                                                                                                                                                                                  | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 5                        |       | VPM-05       |
| OPS-28.01B   | Managing Vulnerabilities - Patch Management Implementation                      | The cloud service provider designs, implements and maintains technical and organisational measures for the deployment of patches on the systems and applications under its responsibility according to the patch management policies and procedures (cf. OPS-27).                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 8                        |       | VPM-05       |
| OPS-29.01B   | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | The cloud service provider designs, implements and maintains technical and organisational measures to manage updates to system components used to provide the cloud service that incorporate third-party or open-source libraries. This includes:                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Software Bill of Materials (SBOM)                          | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.  | 5                        |       | TDA-04.2     |
| OPS-29.01B   | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | The cloud service provider designs, implements and maintains technical and organisational measures to manage updates to system components used to provide the cloud service that incorporate third-party or open-source libraries. This includes:                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 5                        |       | VPM-05       |
| OPS-29.01B.1 | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | Regularly identifying available updates and known vulnerabilities in third-party or open-source libraries used within applications;                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Software Bill of Materials (SBOM)                          | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.  | 3                        |       | TDA-04.2     |
| OPS-29.01B.1 | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | Regularly identifying available updates and known vulnerabilities in third-party or open-source libraries used within applications;                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Vulnerability Scanning                                     | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                        | 5                        |       | VPM-06       |
| OPS-29.01B.2 | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | Evaluating the potential impact of identified updates and vulnerabilities on the applications and the overall security posture;                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Vulnerability Exploitation Analysis                        | VPM-04   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats exploiting known vulnerabilities.                                     | 5                        |       | VPM-03.1     |
| OPS-29.01B.3 | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | Implementing necessary updates and patches in a timely manner to address identified vulnerabilities; and                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                | 5                        |       | VPM-05       |
| OPS-29.01B.4 | Managing Vulnerabilities, Incidents and Crashes - Externally Sourced Components | Continuously monitoring applications to ensure updates are effectively applied and no known or unmitigated vulnerabilities are introduced.                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Continuous Vulnerability Remediation Activities            | VPM-06.2 | Mechanisms exist to address new threats and vulnerabilities on an ongoing basis and ensure assets are protected against known attacks.                                                                                    | 5                        |       | VPM-04       |
| OPS-30.01B   | Separation of Datasets - Policies and Procedures                                | Based on a risk assessment (cf. OIS-07), the cloud service provider established policies and procedures with technical and organisational measures to ensure separation of cloud service customer data between different customers and between customers and the cloud service provider. These policies and procedures are documented, communicated and provided in accordance with SP-01 and contain specifications regarding the client separation based on a documented cloud layer model and include the following: | Functional     | Intersects With   | Multi-Tenant Environments                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users. | 8                        |       | CLD-06       |
| OPS-30.01B   | Separation of Datasets - Policies and Procedures                                | Based on a risk assessment (cf. OIS-07), the cloud service provider established policies and procedures with technical and organisational measures to ensure separation of cloud service customer data between different customers and between customers and the cloud service provider. These policies and procedures are documented, communicated and provided in accordance with SP-01 and contain specifications regarding the client separation based on a documented cloud layer model and include the following: | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                    | 3                        |       | GOV-02       |
| OPS-30.01B.1 | Separation of Datasets - Policies and Procedures                                | Illustration of which cloud layers are used for the particular cloud service. The used cloud layers should be appropriate to enable client separation;                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Cloud Security Architecture                                | CLD-05   | Mechanisms exist to ensure that the cloud security architecture supports the organization's technology strategy to securely design, configure and maintain cloud deployments.                                             | 3                        |       | CLD-02       |
| OPS-30.01B.1 | Separation of Datasets - Policies and Procedures                                | Illustration of which cloud layers are used for the particular cloud service. The used cloud layers should be appropriate to enable client separation;                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Multi-Tenant Environments                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users. | 3                        |       | CLD-06       |
| OPS-30.01B.2 | Separation of Datasets - Policies and Procedures                                | Measures used to separate cloud service customer data along the used cloud layers. Those measures are categorised according to the protection goals of confidentiality, integrity and availability and if they are preventive, detective or reactive measures;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Multi-Tenant Environments                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users. | 5                        |       | CLD-05       |
| OPS-30.01B.2 | Separation of Datasets - Policies and Procedures                                | Measures used to separate cloud service customer data along the used cloud layers. Those measures are categorised according to the protection goals of confidentiality, integrity and availability and if they are preventive, detective or reactive measures;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                   | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                           | 3                        |       | NET-06       |
| OPS-30.01B.3 | Separation of Datasets - Policies and Procedures                                | Monitoring and compliance with these measures; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                    | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.            | 3                        |       | CFG-06       |
| OPS-30.01B.3 | Separation of Datasets - Policies and Procedures                                | Monitoring and compliance with these measures; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Continuous Monitoring                                      | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                 | 3                        |       | MON-01       |
| OPS-30.01B.4 | Separation of Datasets - Policies and Procedures                                | Initiation of suitable measures in the event of deviations.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Incident Handling                                          | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                           | 3                        |       | IRO-02       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                  |                                                                                                                                                                                                                                                                                                               |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                  |                                                                                                                                                                                                                                                                                                               |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                  |                                                                                                                                                                                                                                                                                                               |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |
| FDE #                                                                                               | FDE Name                                         | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                      | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |
| OPS-31.01B                                                                                          | Separation of Datasets - Implementation          | The cloud service provider designs, implements and maintains measures and procedures against threats to the separation of data sets according to the policies and procedures of OPS-30. The measures address prevention against, detection of and reaction to any incidents infringing the separation.        | Functional     | Intersects With   | Multi-Tenant Environments                                                                                                                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                                                                                                                                                                | 8                        |       | CLD-06       |
| OPS-31.02B                                                                                          | Separation of Datasets - Implementation          | Cloud service customer data stored and processed on shared virtual and physical resources is securely and strictly separated according to a documented approach based on OIS-07 risk assessment and following policies on cryptography (cf. CRY-01) to ensure the confidentiality and integrity of this data. | Functional     | Intersects With   | Multi-Tenant Environments                                                                                                                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                                                                                                                                                                | 5                        |       | CLD-06       |
| OPS-31.02B                                                                                          | Separation of Datasets - Implementation          | Cloud service customer data stored and processed on shared virtual and physical resources is securely and strictly separated according to a documented approach based on OIS-07 risk assessment and following policies on cryptography (cf. CRY-01) to ensure the confidentiality and integrity of this data. | Functional     | Intersects With   | Encrypting Data At Rest                                                                                                                                    | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | CRY-05       |
| OPS-31.03B                                                                                          | Separation of Datasets - Implementation          | The risk assessment is reviewed as needed, especially in case of changes to the architecture of the cloud service, and at least annually. Measures are adjusted or improved as appropriate to ensure they remain commensurate with the risks.                                                                 | Functional     | Intersects With   | Risk Assessment Update                                                                                                                                     | RSK-13.2 | Mechanisms exist to routinely update risk assessments and react accordingly upon identifying new security vulnerabilities, including using outside sources for security vulnerability information.                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | RSK-07       |
| OPS-32.01B                                                                                          | Confidential Computing - Policies and Procedures | If the cloud service comprises capabilities for confidential computing, policies and procedures and technical safeguards are documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                          | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                                                                                                 | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | GOV-02       |
| OPS-32.01B                                                                                          | Confidential Computing - Policies and Procedures | If the cloud service comprises capabilities for confidential computing, policies and procedures and technical safeguards are documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                          | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01B.1                                                                                        | Confidential Computing - Policies and Procedures | Purpose and scope, including which information security risks on the cloud service provider's side are to be mitigated through the use of confidential computing (cf. OIS-07) and how the cloud service customers can use the provided features to manage information security risks on their side;           | Functional     | Intersects With   | Risk Assessment                                                                                                                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                    | 3                        |       | RSK-04       |
| OPS-32.01B.1                                                                                        | Confidential Computing - Policies and Procedures | Purpose and scope, including which information security risks on the cloud service provider's side are to be mitigated through the use of confidential computing (cf. OIS-07) and how the cloud service customers can use the provided features to manage information security risks on their side;           | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01B.2                                                                                        | Confidential Computing - Policies and Procedures | Available confidential computing technologies;                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01B.3                                                                                        | Confidential Computing - Policies and Procedures | Determination of which parts of the cloud stack are protected with each technology and where third-party access is possible;                                                                                                                                                                                  | Functional     | Intersects With   | Applied Security, Compliance and Resilience Controls Documentation                                                                                         | IAO-09   | Mechanisms exist to generate authoritative documentation (e.g., System Security Plan (SSP)) that:<br>(1) Identifies key architectural and implementation information on in-scope Technology Assets, Applications and/or Services (TAAS);<br>(2) Reflects the current state of applied security, compliance and resilience controls on applicable People, Processes, Technologies, Data and/or Facilities (PPTDF) that are contained within the system boundary; and<br>(3) Provides a historical record of applied security controls, including changes. | 3                        |       | IAO-03       |
| OPS-32.01B.3                                                                                        | Confidential Computing - Policies and Procedures | Determination of which parts of the cloud stack are protected with each technology and where third-party access is possible;                                                                                                                                                                                  | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01B.4                                                                                        | Confidential Computing - Policies and Procedures | Listing of involved suppliers/service organisations; and                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Third-Party Inventories                                                                                                                                    | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                               | 3                        |       | TPM-01.1     |
| OPS-32.01B.5                                                                                        | Confidential Computing - Policies and Procedures | Utilisation of Trusted Execution Environments (TEEs) or secure enclaves.                                                                                                                                                                                                                                      | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.02B                                                                                          | Confidential Computing - Policies and Procedures | The cloud service provider provides its customers with information on the aspects specified in OPS-32.01B according to PSS-01.                                                                                                                                                                                | Functional     | Intersects With   | Administrator Documentation                                                                                                                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe:<br>(1) Secure configuration, installation and operation of the TAAS;<br>(2) Effective use and maintenance of security features/functions; and<br>(3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                                      | 3                        |       | TDA-04       |
| OPS-32.03B                                                                                          | Confidential Computing - Policies and Procedures | Additional aspects addressed by the policies and procedures for confidential computing, not necessarily included in the information provided to the cloud service customers, include:                                                                                                                         | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.03B.1                                                                                        | Confidential Computing - Policies and Procedures | Responsibilities for the implementation and monitoring of confidential computing measures;                                                                                                                                                                                                                    | Functional     | Intersects With   | Defined Roles & Responsibilities                                                                                                                           | HRS-04   | Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | HRS-03       |
| OPS-32.03B.2                                                                                        | Confidential Computing - Policies and Procedures | Security requirements to ensure the confidentiality, integrity, and authenticity of the data during processing; and                                                                                                                                                                                           | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.03B.3                                                                                        | Confidential Computing - Policies and Procedures | Relevant legal and regulatory requirements applicable to confidential computing.                                                                                                                                                                                                                              | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                                                                                                             | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | CPL-01       |
| OPS-32.03B.4                                                                                        | Confidential Computing - Policies and Procedures | These security requirements to ensure the confidentiality, integrity, and authenticity of the data during processing include that:                                                                                                                                                                            | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.03B.5                                                                                        | Confidential Computing - Policies and Procedures | Neither the cloud service provider nor any other unauthorised entity shall be able to access the cloud service customer data or the keys used for protecting that data; and                                                                                                                                   | Functional     | Intersects With   | Cryptographic Key Management                                                                                                                               | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | CRY-09       |
| OPS-32.03B.5                                                                                        | Confidential Computing - Policies and Procedures | Neither the cloud service provider nor any other unauthorised entity shall be able to access the cloud service customer data or the keys used for protecting that data; and                                                                                                                                   | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.03B.6                                                                                        | Confidential Computing - Policies and Procedures | Cryptographic algorithms that comply with the cloud service provider's policy for the use of cryptographic mechanisms (cf. CRY-01) are used.                                                                                                                                                                  | Functional     | Intersects With   | Use of Cryptographic Controls                                                                                                                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                                                                                                                                                                           | 5                        |       | CRY-01       |
| OPS-32.01AC                                                                                         | Confidential Computing - Policies and Procedures | The cloud service provider documents and implements a technical framework for confidential computing, demonstrating how certain information security risks are mitigated (cf. OIS-07). The framework includes at least the following procedures and technical safeguards:                                     | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01AC.1                                                                                       | Confidential Computing - Policies and Procedures | Usage of Trusted Execution Environments (TEEs) or secure enclaves to process sensitive data (data in use) in a protected environment;                                                                                                                                                                         | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |
| OPS-32.01AC.2                                                                                       | Confidential Computing - Policies and Procedures | Documentation of all associated interfaces;                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Administrator Documentation                                                                                                                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe:<br>(1) Secure configuration, installation and operation of the TAAS;<br>(2) Effective use and maintenance of security features/functions; and<br>(3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                                      | 3                        |       | TDA-04       |
| OPS-32.01AC.3                                                                                       | Confidential Computing - Policies and Procedures | Consideration of available hardware attestations;                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Memory Protection                                                                                                                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | SEA-10       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                  |                                                                                                                                                                                                                                                                                                                         |                |                   | Focal Document:                                            |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                  |                                                                                                                                                                                                                                                                                                                         |                |                   | Focal Document URL:                                        |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                                                 |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                  |                                                                                                                                                                                                                                                                                                                         |                |                   | Published STRM URL:                                        |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                         | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-32.01AC.4                                                                                       | Confidential Computing - Policies and Procedures | Utilisation of encryption techniques to secure data during processing, including secure key management;                                                                                                                                                                                                                 | Functional     | Intersects With   | Use of Cryptographic Controls                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                                                                                                                                                         | 5                        |       | CRY-01       |  |
| OPS-32.01AC.4                                                                                       | Confidential Computing - Policies and Procedures | Utilisation of encryption techniques to secure data during processing, including secure key management;                                                                                                                                                                                                                 | Functional     | Intersects With   | Cryptographic Key Management                               | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CRY-09       |  |
| OPS-32.01AC.5                                                                                       | Confidential Computing - Policies and Procedures | Remote attestation to verify the identity and measured state of the TEE as well as code executed within the TEE;                                                                                                                                                                                                        | Functional     | Intersects With   | Memory Protection                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | SEA-10       |  |
| OPS-32.01AC.6                                                                                       | Confidential Computing - Policies and Procedures | Implementation of monitoring and logging mechanisms to detect and respond to security incidents;                                                                                                                                                                                                                        | Functional     | Intersects With   | Continuous Monitoring                                      | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | MON-01       |  |
| OPS-32.01AC.7                                                                                       | Confidential Computing - Policies and Procedures | Conducting security reviews and penetration tests (cf. OPS-22) regularly as well as on an event-driven basis to verify the effectiveness of confidential computing measures; and                                                                                                                                        | Functional     | Intersects With   | Penetration Testing                                        | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | VPM-07       |  |
| OPS-32.01AC.8                                                                                       | Confidential Computing - Policies and Procedures | Performing regular updates on the Trusted Computing Base of the TEE.                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Software & Firmware Patching                               | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | VPM-05       |  |
| OPS-33.01B                                                                                          | Confidential Computing - Remote Attestation      | If the cloud service comprises capabilities for confidential computing, the cloud service provider offers remote attestation functionalities for data in-use protection.                                                                                                                                                | Functional     | Intersects With   | Memory Protection                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | SEA-10       |  |
| OPS-33.02B                                                                                          | Confidential Computing - Remote Attestation      | Remote attestation functionalities are based on cryptographic means rooted in trusted hard- and software.                                                                                                                                                                                                               | Functional     | Intersects With   | Use of Cryptographic Controls                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | CRY-01       |  |
| OPS-33.02B                                                                                          | Confidential Computing - Remote Attestation      | Remote attestation functionalities are based on cryptographic means rooted in trusted hard- and software.                                                                                                                                                                                                               | Functional     | Intersects With   | Memory Protection                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | SEA-10       |  |
| OPS-33.03B                                                                                          | Confidential Computing - Remote Attestation      | Remote attestation functionalities comprise an interface that allows the customer to verify the integrity of the remote attestation.                                                                                                                                                                                    | Functional     | Intersects With   | Memory Protection                                          | SEA-19   | Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | SEA-10       |  |
| OPS-33.01AC                                                                                         | Confidential Computing - Remote Attestation      | The cloud service provider clearly defines, documents and communicates the available attestation levels.                                                                                                                                                                                                                | Functional     | Intersects With   | Administrator Documentation                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                             | 3                        |       | TDA-04       |  |
| OPS-33.02AC                                                                                         | Confidential Computing - Remote Attestation      | The information is part of the guidelines and recommendations for the secure use of the cloud service provided (cf. PSS-01).                                                                                                                                                                                            | Functional     | Intersects With   | Administrator Documentation                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                             | 3                        |       | TDA-04       |  |
| OPS-34.01B                                                                                          | Container Management - Policies and Procedures   | Policies and procedures with technical and organisational measures for the planning and management of containers are documented, communicated and provided in accordance with SP-01. These policies and procedures contain specifications for the entire container life cycle regarding at least the following aspects: | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | GOV-02       |  |
| OPS-34.01B                                                                                          | Container Management - Policies and Procedures   | Policies and procedures with technical and organisational measures for the planning and management of containers are documented, communicated and provided in accordance with SP-01. These policies and procedures contain specifications for the entire container life cycle regarding at least the following aspects: | Functional     | Intersects With   | Application Container                                      | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | SEA-21       |  |
| OPS-34.01B.1                                                                                        | Container Management - Policies and Procedures   | Image creation, testing, and validation;                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Virtual Machine Images                                     | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | CLD-05       |  |
| OPS-34.01B.2                                                                                        | Container Management - Policies and Procedures   | Image storage and retrieval;                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Virtual Machine Images                                     | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                        |       | CLD-05       |  |
| OPS-34.01B.3                                                                                        | Container Management - Policies and Procedures   | Container deployment and management;                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Application Container                                      | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | SEA-21       |  |
| OPS-34.01B.4                                                                                        | Container Management - Policies and Procedures   | Container operations; and                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Application Container                                      | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | SEA-21       |  |
| OPS-34.01B.5                                                                                        | Container Management - Policies and Procedures   | Decommissioning of images and container.                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Decommissioning                                            | AST-36   | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that: (1) Data is properly transitioned to new systems or archived; and (2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations.                                                                                                                                                                          | 3                        |       | AST-30       |  |
| OPS-34.02B                                                                                          | Container Management - Policies and Procedures   | The policies and procedures describe measures along the life cycle of containers and address at least the following aspects:                                                                                                                                                                                            | Functional     | Intersects With   | Application Container                                      | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | SEA-21       |  |
| OPS-34.02B.1                                                                                        | Container Management - Policies and Procedures   | Containers are inventoried according to a documented process (cf. AM-02, AM-03, AM-09);                                                                                                                                                                                                                                 | Functional     | Intersects With   | Asset Inventories                                          | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that: (1) Accurately reflects the current TAASD in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational personnel. | 5                        |       | AST-02       |  |
| OPS-34.02B.2                                                                                        | Container Management - Policies and Procedures   | The need for malware protection is assessed and, if necessary, ensured (cf. OPS-05);                                                                                                                                                                                                                                    | Functional     | Intersects With   | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | END-04       |  |
| OPS-34.02B.3                                                                                        | Container Management - Policies and Procedures   | Logging and monitoring of events takes place along the container lifecycle and is executed according to a defined logging framework (cf. OPS-10, OPS-12);                                                                                                                                                               | Functional     | Intersects With   | Continuous Monitoring                                      | MON-02   | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | MON-01       |  |
| OPS-34.02B.4                                                                                        | Container Management - Policies and Procedures   | Cloud service customer data is separated based on a risk assessment (cf. OPS-30);                                                                                                                                                                                                                                       | Functional     | Intersects With   | Multi-Tenant Environments                                  | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                                                                                                                                              | 5                        |       | CLD-06       |  |
| OPS-34.02B.5                                                                                        | Container Management - Policies and Procedures   | Access to the container host should take place in accordance with a roles and rights framework and a policy for managing access and access authorisations (cf. IAM-01, IAM-06);                                                                                                                                         | Functional     | Intersects With   | Identity & Access Management (IAM)                         | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | IAC-01       |  |
| OPS-34.02B.5                                                                                        | Container Management - Policies and Procedures   | Access to the container host should take place in accordance with a roles and rights framework and a policy for managing access and access authorisations (cf. IAM-01, IAM-06);                                                                                                                                         | Functional     | Intersects With   | Role-Based Access Control (RBAC)                           | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | IAC-08       |  |
| OPS-34.02B.5                                                                                        | Container Management - Policies and Procedures   | Access to the container host should take place in accordance with a roles and rights framework and a policy for managing access and access authorisations (cf. IAM-01, IAM-06);                                                                                                                                         | Functional     | Intersects With   | Privileged Account Management (PAM)                        | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | IAC-16       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                |                                                                                                                                                                                                                                                     |                |                   | Focal Document:                                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                   |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|---------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                |                                                                                                                                                                                                                                                     |                |                   | Focal Document URL:                                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                |                                                                                                                                                                                                                                                     |                |                   | Published STRM URL:                                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                        |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                       | Focal Document Element (FDE) Description                                                                                                                                                                                                            | STRM Rationale | STRM Relationship | SCF Control                                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |  |
| OPS-34.02B.6                                                                                        | Container Management - Policies and Procedures | Data stored on containers and data in transit should be encrypted as far as possible by the provider in accordance with the encryption policy (cf. CRY-01);                                                                                         | Functional     | Intersects With   | Encrypting Data In Transit                                                | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                             | 3                        |       | CRY-03       |  |
| OPS-34.02B.6                                                                                        | Container Management - Policies and Procedures | Data stored on containers and data in transit should be encrypted as far as possible by the provider in accordance with the encryption policy (cf. CRY-01);                                                                                         | Functional     | Intersects With   | Encrypting Data At Rest                                                   | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                | 5                        |       | CRY-05       |  |
| OPS-34.02B.7                                                                                        | Container Management - Policies and Procedures | Measures to ensure network security are established. This includes, for example, measures to detect network anomalies (cf. COS-01 and COS-03) such as unexpected data flows within the network or unwanted access attempts;                         | Functional     | Intersects With   | Network Intrusion Detection & Prevention Systems (NIDS & NIPS) Monitoring | MON-23   | Mechanisms exist to monitor Network Intrusion Detection / Prevention Systems (NIDS / NIPS) technologies on critical systems, key network segments and network choke points.                                                           | 3                        |       | MON-01.1     |  |
| OPS-34.02B.7                                                                                        | Container Management - Policies and Procedures | Measures to ensure network security are established. This includes, for example, measures to detect network anomalies (cf. COS-01 and COS-03) such as unexpected data flows within the network or unwanted access attempts;                         | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                                  | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                       | 3                        |       | NET-06       |  |
| OPS-34.02B.8                                                                                        | Container Management - Policies and Procedures | Changes to containers and images follow a regulated process (cf. DEV-03); and                                                                                                                                                                       | Functional     | Intersects With   | Configuration Change Control                                              | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                      | 5                        |       | CHG-02       |  |
| OPS-34.02B.9                                                                                        | Container Management - Policies and Procedures | Hardening processes are carried out according to general industry standards to ensure that no unnecessary system services are executed (cf. PSS-11).                                                                                                | Functional     | Intersects With   | Secure Baseline Configurations                                            | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                          | 5                        |       | CFG-02       |  |
| OPS-34.01AC                                                                                         | Container Management - Policies and Procedures | The policies and procedures additionally describe measures along the life cycle of containers that address at least the following aspects:                                                                                                          | Functional     | Intersects With   | Application Container                                                     | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                              | 3                        |       | SEA-21       |  |
| OPS-34.01AC.1                                                                                       | Container Management - Policies and Procedures | Container images are cryptographically signed and the signing key securely stored (cf. CRY-10) to ensure their authenticity and integrity;                                                                                                          | Functional     | Intersects With   | Signed Components                                                         | CHG-13   | Mechanisms exist to prevent the installation of software and firmware components without verification that the component has been digitally signed using an organization-approved certificate authority.                              | 5                        |       | CHG-04.2     |  |
| OPS-34.01AC.1                                                                                       | Container Management - Policies and Procedures | Container images are cryptographically signed and the signing key securely stored (cf. CRY-10) to ensure their authenticity and integrity;                                                                                                          | Functional     | Intersects With   | Transmission of Cybersecurity & Data Protection Attributes                | CRY-11   | Mechanisms exist to associate Technology Assets, Applications and/or Services (TAAS) security attributes with information exchanged between                                                                                           | 3                        |       | CRY-10       |  |
| OPS-34.01AC.2                                                                                       | Container Management - Policies and Procedures | Container behaviour is monitored and restricted using runtime security controls; and                                                                                                                                                                | Functional     | Intersects With   | Anomalous Behavior                                                        | MON-16   | Mechanisms exist to utilize User & Entity Behavior Analytics (UEBA) and/or User Activity Monitoring (UAM) solutions to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities. | 3                        |       | MON-16       |  |
| OPS-34.01AC.3                                                                                       | Container Management - Policies and Procedures | Software products used for the provision of container images are, where possible, regularly scanned for known vulnerabilities or malicious components in container images and dependencies.                                                         | Functional     | Intersects With   | Vulnerability Scanning                                                    | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                    | 5                        |       | VPM-06       |  |
| OPS-35.01B                                                                                          | Container Management - Implementation          | The cloud service provider designs, implements and maintains technical and organisational measures for the planning and management of containers along their life cycle according to the container management policies and procedures (cf. OPS-34). | Functional     | Intersects With   | Secure Baseline Configurations                                            | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                          | 3                        |       | CFG-02       |  |
| OPS-35.01B                                                                                          | Container Management - Implementation          | The cloud service provider designs, implements and maintains technical and organisational measures for the planning and management of containers along their life cycle according to the container management policies and procedures (cf. OPS-34). | Functional     | Intersects With   | Application Container                                                     | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                              | 5                        |       | SEA-21       |  |
| 5.7                                                                                                 | Identity and Access Management (IAM)           | Objective: Secure the authorisation and authentication of users of the cloud service provider to prevent unauthorised access.                                                                                                                       | Functional     | Subset Of         | Identity & Access Management (IAM)                                        | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                             | 10                       |       | IAC-01       |  |
| IAM-01.01B                                                                                          | Policy for Identities and Access Rights        | The cloud service provider documents, communicates and makes available according to SP-01:                                                                                                                                                          | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                | 3                        |       | GOV-02       |  |
| IAM-01.01B                                                                                          | Policy for Identities and Access Rights        | The cloud service provider documents, communicates and makes available according to SP-01:                                                                                                                                                          | Functional     | Intersects With   | Identity & Access Management (IAM)                                        | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                             | 5                        |       | IAC-01       |  |
| IAM-01.01B.1                                                                                        | Policy for Identities and Access Rights        | An authorisation framework based on role-based access control and the business and security requirements of the cloud service provider; and                                                                                                         | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                          | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.              | 8                        |       | IAC-08       |  |
| IAM-01.01B.2                                                                                        | Policy for Identities and Access Rights        | A policy for managing identities and access rights for internal and external personnel of the cloud service provider and system components that have a role in automated authorisation processes of the cloud service provider.                     | Functional     | Intersects With   | Identity & Access Management (IAM)                                        | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                             | 5                        |       | IAC-01       |  |
| IAM-01.01B.2                                                                                        | Policy for Identities and Access Rights        | A policy for managing identities and access rights for internal and external personnel of the cloud service provider and system components that have a role in automated authorisation processes of the cloud service provider.                     | Functional     | Intersects With   | Account Management                                                        | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.       | 3                        |       | IAC-15       |  |
| IAM-01.02B                                                                                          | Policy for Identities and Access Rights        | For the purpose of the business and security requirements these documents address at least the following aspects:                                                                                                                                   | Functional     | Intersects With   | Identity & Access Management (IAM)                                        | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                             | 5                        |       | IAC-01       |  |
| IAM-01.02B.1                                                                                        | Policy for Identities and Access Rights        | Aspects that are relevant for making access control decisions;                                                                                                                                                                                      | Functional     | Intersects With   | Access Enforcement                                                        | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                              | 3                        |       | IAC-20       |  |
| IAM-01.02B.2                                                                                        | Policy for Identities and Access Rights        | Assignment of unique usernames;                                                                                                                                                                                                                     | Functional     | Intersects With   | Standardized Identifier Management (User Names)                           | IAC-13.1 | Mechanisms exist to govern naming standards for usernames and Technology Assets, Applications and/or Services (TAAS).                                                                                                                 | 8                        |       | IAC-09       |  |
| IAM-01.02B.3                                                                                        | Policy for Identities and Access Rights        | Granting and modifying identities and access rights based on the 'least-privilege-principle' and the 'need-to-know-principle';                                                                                                                      | Functional     | Intersects With   | Least Privilege                                                           | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business                                            | 8                        |       | IAC-21       |  |
| IAM-01.02B.4                                                                                        | Policy for Identities and Access Rights        | Application of a role-based mechanism for assigning access rights;                                                                                                                                                                                  | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                          | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.              | 8                        |       | IAC-08       |  |
| IAM-01.02B.5                                                                                        | Policy for Identities and Access Rights        | Definition of the supported identity and role-based access types, including an assignment of access control parameters and roles to be considered for each type;                                                                                    | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                          | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.              | 3                        |       | IAC-08       |  |
| IAM-01.02B.5                                                                                        | Policy for Identities and Access Rights        | Definition of the supported identity and role-based access types, including an assignment of access control parameters and roles to be considered for each type;                                                                                    | Functional     | Intersects With   | Account Management                                                        | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.       | 3                        |       | IAC-15       |  |
| IAM-01.02B.6                                                                                        | Policy for Identities and Access Rights        | Segregation of duties between operational and monitoring functions ("Segregation of Duties");                                                                                                                                                       | Functional     | Intersects With   | Separation of Duties (SoD)                                                | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                  | 5                        |       | HRS-11       |  |
| IAM-01.02B.7                                                                                        | Policy for Identities and Access Rights        | Assigning and monitoring privileged access rights;                                                                                                                                                                                                  | Functional     | Intersects With   | Privileged Account Management (PAM)                                       | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                               | 5                        |       | IAC-16       |  |
| IAM-01.02B.7                                                                                        | Policy for Identities and Access Rights        | Assigning and monitoring privileged access rights;                                                                                                                                                                                                  | Functional     | Intersects With   | Privileged Account Inventories                                            | IAC-10.1 | Mechanisms exist to inventory all privileged accounts and validate that each person with elevated privileges is authorized by the appropriate level of organizational management.                                                     | 3                        |       | IAC-16.1     |  |
| IAM-01.02B.8                                                                                        | Policy for Identities and Access Rights        | Approval by authorised individual(s) or system(s) for granting or modifying identities and access rights before cloud service customer data, cloud service derived data and cloud service provider data can be accessed;                            | Functional     | Intersects With   | Account Management                                                        | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.       | 5                        |       | IAC-15       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document:                                                             |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                          |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document URL:                                                         |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                       |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Published STRM URL:                                                         |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                               |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                        | STRM Rationale | STRM Relationship | SCF Control                                                                 | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |  |
| IAM-01.02B.9                                                                                        | Policy for Identities and Access Rights                       | Regular review of assigned identities and access rights;                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                  | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                               | 5                        |       | IAC-17       |  |
| IAM-01.02B.10                                                                                       | Policy for Identities and Access Rights                       | Blocking and removing identities or limiting access in the event of inactivity;                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Disable Inactive Accounts                                                   | IAC-08.4 | Automated mechanisms exist to disable inactive accounts after an organization-defined time period.                                                                                                                                                                                                           | 5                        |       | IAC-15.3     |  |
| IAM-01.02B.11                                                                                       | Policy for Identities and Access Rights                       | Specific measures for managing identities whose use is restricted to emergency recovery and similar scenarios;                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 3                        |       | IAC-15       |  |
| IAM-01.02B.12                                                                                       | Policy for Identities and Access Rights                       | Time-based or event-driven removal or adjustment of access rights in the event of changes to job responsibility;                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Change of Roles & Duties                                                    | IAC-04.1 | Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.                                                                                                                                                                          | 5                        |       | IAC-07.1     |  |
| IAM-01.02B.13                                                                                       | Policy for Identities and Access Rights                       | Multi-factor authentication for users with privileged access;                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Privileged Account Management (PAM)                                         | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                      | 3                        |       | IAC-16       |  |
| IAM-01.02B.13                                                                                       | Policy for Identities and Access Rights                       | Multi-factor authentication for users with privileged access;                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                           | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data. | 5                        |       | IAC-06       |  |
| IAM-01.02B.13                                                                                       | Policy for Identities and Access Rights                       | Multi-factor authentication for users with privileged access;                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Multi-Factor Authentication (MFA) For Network Access to Privileged Accounts | IAC-37.5 | Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.                                                                                                                                                                                        | 5                        |       | IAC-06.1     |  |
| IAM-01.02B.13                                                                                       | Policy for Identities and Access Rights                       | Multi-factor authentication for users with privileged access;                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Multi-Factor Authentication (MFA) For Local Access to Privileged Accounts   | IAC-37.7 | Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate local access for privileged accounts.                                                                                                                                                                                          | 5                        |       | IAC-06.3     |  |
| IAM-01.02B.14                                                                                       | Policy for Identities and Access Rights                       | Remote access and access across geographic boundaries;                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Remote Access                                                               | NET-26   | Mechanisms exist to define, control and review organization-approved, secure remote access methods.                                                                                                                                                                                                          | 5                        |       | NET-14       |  |
| IAM-01.02B.15                                                                                       | Policy for Identities and Access Rights                       | Requirements for approving and documenting the management of identities and access rights; and                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 3                        |       | IAC-15       |  |
| IAM-01.02B.16                                                                                       | Policy for Identities and Access Rights                       | Measures to be taken upon the detection of a potential identity compromise, such as disabling and removing the affected identities.                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Authenticator Management                                                    | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                          | 3                        |       | IAC-10       |  |
| IAM-01.02B.16                                                                                       | Policy for Identities and Access Rights                       | Measures to be taken upon the detection of a potential identity compromise, such as disabling and removing the affected identities.                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Incident Handling                                                           | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                                              | 3                        |       | IRO-02       |  |
| IAM-01.03B                                                                                          | Policy for Identities and Access Rights                       | The cloud service provider is capable of producing a list of the currently granted cloud-based access rights for each identity under its responsibility.                                                                                                                                                                                                                                        | Functional     | Intersects With   | User & Service Account Inventories                                          | IAC-08.3 | Mechanisms exist to maintain a current list of authorized users and service accounts.                                                                                                                                                                                                                        | 5                        |       | IAC-01.3     |  |
| IAM-01.03B                                                                                          | Policy for Identities and Access Rights                       | The cloud service provider is capable of producing a list of the currently granted cloud-based access rights for each identity under its responsibility.                                                                                                                                                                                                                                        | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                  | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                               | 3                        |       | IAC-17       |  |
| IAM-01.01AC                                                                                         | Policy for Identities and Access Rights                       | Access logs are reviewed at least every month in order to detect attempts of unauthorised access or suspicious access patterns.                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Centralized Event Log & Security-Relevant Telemetry Review & Analysis       | MON-05.1 | Automated mechanisms exist to centrally collect, review and analyze event logs and security-relevant telemetry from multiple sources.                                                                                                                                                                        | 5                        |       | MON-02.2     |  |
| IAM-01.01AC                                                                                         | Policy for Identities and Access Rights                       | Access logs are reviewed at least every month in order to detect attempts of unauthorised access or suspicious access patterns.                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Analysis & Triage                   | MON-05.2 | Mechanisms exist to ensure event log and security-relevant telemetry reviews include analysis and triage practices that integrate with the organization's established incident response processes.                                                                                                           | 3                        |       | MON-17       |  |
| IAM-02.01B                                                                                          | Granting and Change of Identities and Access Rights           | Specified procedures for granting and modifying identities and access rights for internal and external personnel of the cloud service provider as well as for system components involved in automated authorisation processes of the cloud service provider ensure compliance with the role and rights policies and procedures as well as the policy for managing identities and access rights. | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 8                        |       | IAC-15       |  |
| IAM-02.02B                                                                                          | Granting and Change of Identities and Access Rights           | The aforementioned procedures include, but are not limited to:                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 5                        |       | IAC-15       |  |
| IAM-02.02B.1                                                                                        | Granting and Change of Identities and Access Rights           | Processes and technical controls to restrict access to the cloud service provider's data and system functions to authorised personnel; and                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Access Enforcement                                                          | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                                     | 5                        |       | IAC-20       |  |
| IAM-02.02B.2                                                                                        | Granting and Change of Identities and Access Rights           | Processes and technical controls to manage and verify access permissions within the cloud service provider's systems.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 3                        |       | IAC-15       |  |
| IAM-02.02B.2                                                                                        | Granting and Change of Identities and Access Rights           | Processes and technical controls to manage and verify access permissions within the cloud service provider's systems.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                  | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                               | 5                        |       | IAC-17       |  |
| IAM-02.03B                                                                                          | Granting and Change of Identities and Access Rights           | If the cloud service provider defines break glass accounts for use in case of a non-availability of the main procedure for authentication, specific requirements and procedures for the secure usage of those accounts are defined and implemented.                                                                                                                                             | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 3                        |       | IAC-15       |  |
| IAM-03.01B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities | The cloud service provider has a risk-based procedure in place for managing identities (cf. IAM-01), taking into account the types of data accessible via the identities of the internal and external personnel.                                                                                                                                                                                | Functional     | Intersects With   | Account Management                                                          | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types; and<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                          | 5                        |       | IAC-15       |  |
| IAM-03.01B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities | The cloud service provider has a risk-based procedure in place for managing identities (cf. IAM-01), taking into account the types of data accessible via the identities of the internal and external personnel.                                                                                                                                                                                | Functional     | Intersects With   | Risk Assessment                                                             | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                        | 3                        |       | RSK-04       |  |
| IAM-03.02B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities | As part of this procedure, specific parameters for automatically locking and withdrawing access due to inactivity or indications of brute force attacks are defined, with exceptions for the identities whose use is restricted to emergency recovery and similar scenarios.                                                                                                                    | Functional     | Intersects With   | Account Lockout                                                             | CFG-04.1 | Mechanisms exist to enforce a limit for consecutive invalid login attempts by a user during an organization-defined time period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded.                                                                            | 5                        |       | IAC-22       |  |
| IAM-03.02B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities | As part of this procedure, specific parameters for automatically locking and withdrawing access due to inactivity or indications of brute force attacks are defined, with exceptions for the identities whose use is restricted to emergency recovery and similar scenarios.                                                                                                                    | Functional     | Intersects With   | Disable Inactive Accounts                                                   | IAC-08.4 | Automated mechanisms exist to disable inactive accounts after an organization-defined time period.                                                                                                                                                                                                           | 5                        |       | IAC-15.3     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| FDE #                                                                                               | FDE Name                                                           | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
| IAM-03.03B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities      | The cloud service provider documents and implements a process for monitoring stolen and compromised credentials, which also includes disabling any identity for which an issue is identified. This process is implemented on all identities under the responsibility of the cloud service provider that have privileged access rights.                                                                                                   | Functional     | Intersects With   | Authenticator Management                                                                                                                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | IAC-10       |
| IAM-03.03B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities      | The cloud service provider documents and implements a process for monitoring stolen and compromised credentials, which also includes disabling any identity for which an issue is identified. This process is implemented on all identities under the responsibility of the cloud service provider that have privileged access rights.                                                                                                   | Functional     | Intersects With   | Threat Intelligence Feeds                                                                                                                                  | THR-04   | Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | THR-03       |
| IAM-03.04B                                                                                          | Risk-Based Procedure for Locking and Withdrawal of Identities      | The aforementioned process includes an exception mechanism to be applied if all identities needed to manage the situation are potentially compromised.                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Account Management                                                                                                                                         | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | IAC-15       |
| IAM-03.03AS                                                                                         | Risk-Based Procedure for Locking and Withdrawal of Identities      | IAM-03.03AS, sharpening IAM-03.03B<br>The cloud service provider documents and implements a process for monitoring stolen and compromised credentials, which also includes disabling any identity for which an issue is identified. This process is implemented on all identities under the responsibility of the cloud service provider.                                                                                                | Functional     | Intersects With   | Authenticator Management                                                                                                                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | IAC-10       |
| IAM-03.01AC                                                                                         | Risk-Based Procedure for Locking and Withdrawal of Identities      | The context of authentication attempts is monitored and suspicious events are, as relevant, flagged to authorised persons.                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Adaptive Identification & Authentication                                                                                                                   | IAC-41   | Mechanisms exist to allow individuals to utilize alternative methods of authentication under specific circumstances or situations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | IAC-13       |
| IAM-03.01AC                                                                                         | Risk-Based Procedure for Locking and Withdrawal of Identities      | The context of authentication attempts is monitored and suspicious events are, as relevant, flagged to authorised persons.                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Anomalous Behavior                                                                                                                                         | MON-16   | Mechanisms exist to utilize User & Entity Behavior Analytics (UEBA) and/or User Activity Monitoring (UAM) solutions to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | MON-16       |
| IAM-03.02AC                                                                                         | Risk-Based Procedure for Locking and Withdrawal of Identities      | The effectiveness of the procedures for locking and withdrawing identities is validated.                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Control Validation Testing (CVT)                                                                                                                           | IAO-04   | Mechanisms exist to formally assess the security, compliance and resilience controls in Technology Assets, Applications and/or Services (TAAS) through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | IAO-02       |
| IAM-03.03AC                                                                                         | Risk-Based Procedure for Locking and Withdrawal of Identities      | Timely and appropriate remediation measures address any deviations identified during validation.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Capabilities Deficiency Tracking                                                                                                                           | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| IAM-04.01B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | Access rights are timely adjusted or revoked if the job responsibilities of the cloud service provider's internal or external personnel or the tasks of system components involved in the cloud service provider's automated authorisation processes change.                                                                                                                                                                             | Functional     | Intersects With   | Change of Roles & Duties                                                                                                                                   | IAC-04.1 | Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8                        |       | IAC-07.1     |
| IAM-04.02B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | Privileged access rights are adjusted or revoked within 48 hours after the change taking effect.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Change of Roles & Duties                                                                                                                                   | IAC-04.1 | Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | IAC-07.1     |
| IAM-04.03B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | All other access rights are adjusted or revoked within 14 days.                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Change of Roles & Duties                                                                                                                                   | IAC-04.1 | Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | IAC-07.1     |
| IAM-04.04B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | After revocation, the procedure for granting identities and access rights (cf. IAM-02) is repeated.                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Account Management                                                                                                                                         | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | IAC-15       |
| IAM-04.05B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | In cases of role changes where temporary access may need to be granted, these access rights are approved, time-limited and documented.                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Account Management                                                                                                                                         | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | IAC-15       |
| IAM-04.05B                                                                                          | Withdrawal or Adjustment of Access Rights as the Task Area Changes | In cases of role changes where temporary access may need to be granted, these access rights are approved, time-limited and documented.                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Privileged Account Management (PAM)                                                                                                                        | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | IAC-16       |
| IAM-05.01B                                                                                          | Regular Review of Access Rights                                    | Identities and the associated access rights of internal and external personnel of the cloud service provider as well as of system components that play a role in automated authorisation processes of the cloud service provider are reviewed at least once a year and in case of significant changes to the cloud service to ensure that they still correspond to the actual area of use.                                               | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                                                                                                 | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8                        |       | IAC-17       |
| IAM-05.02B                                                                                          | Regular Review of Access Rights                                    | The review is carried out by authorised persons from the cloud service provider's organisational units, who can assess the appropriateness of the assigned access rights based on their knowledge of the task areas of the personnel or system components.                                                                                                                                                                               | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                                                                                                 | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | IAC-17       |
| IAM-05.03B                                                                                          | Regular Review of Access Rights                                    | Identified deviations are dealt with timely, but no later than seven days after their detection, through appropriate modification or withdrawal of the access rights.                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                                                                                                 | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | IAC-17       |
| IAM-05.04B                                                                                          | Regular Review of Access Rights                                    | When revoking identities, the system ensures that all production associated system components (e.g., virtual machines, storage, access rights) are identified, reassigned, or deleted to prevent the creation of orphaned resources. Clear processes and technical controls are established to identify and handle any orphaned resources that occur despite preventive measures, ensuring their timely reassignment or secure deletion. | Functional     | Intersects With   | Decommissioning                                                                                                                                            | AST-36   | Mechanisms exist to ensure Technology Assets, Applications and/or Services (TAAS) are properly decommissioned so that:<br>(1) Data is properly transitioned to new systems or archived; and<br>(2) Hard drives are either destroyed or erased in accordance with applicable organizational standards, as well as statutory, regulatory and contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                       | 3                        |       | AST-30       |
| IAM-05.04B                                                                                          | Regular Review of Access Rights                                    | When revoking identities, the system ensures that all production associated system components (e.g., virtual machines, storage, access rights) are identified, reassigned, or deleted to prevent the creation of orphaned resources. Clear processes and technical controls are established to identify and handle any orphaned resources that occur despite preventive measures, ensuring their timely reassignment or secure deletion. | Functional     | Intersects With   | Removal of Temporary / Emergency Accounts                                                                                                                  | IAC-11.1 | Automated mechanisms exist to disable or remove temporary and emergency accounts after an organization-defined time period for each type of account.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | IAC-15.2     |
| IAM-05.05B                                                                                          | Regular Review of Access Rights                                    | For system components that are not production associated, the cloud service provider designs, implements and maintains appropriate controls for the prevention of orphan resources based on a risk assessment (cf. OIS-07).                                                                                                                                                                                                              | Functional     | Intersects With   | Removal of Temporary / Emergency Accounts                                                                                                                  | IAC-11.1 | Automated mechanisms exist to disable or remove temporary and emergency accounts after an organization-defined time period for each type of account.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | IAC-15.2     |

| FDE #       | FDE Name                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                                                        | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                 | Strength of Relationship | Notes | Legacy SCF # |
|-------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| IAM-05.05B  | Regular Review of Access Rights       | For system components that are not production associated, the cloud service provider designs, implements and maintains appropriate controls for the prevention of orphan resources based on a risk assessment (cf. OIS-07).                                                                  | Functional     | Intersects With   | Risk Assessment                                                                    | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).               | 3                        |       | RSK-04       |
| IAM-05.01AC | Regular Review of Access Rights       | Privileged access rights are reviewed at least every six months, and in case of significant changes to the cloud service.                                                                                                                                                                    | Functional     | Intersects With   | Privileged Account Inventories                                                     | IAC-10.1 | Mechanisms exist to inventory all privileged accounts and validate that each person with elevated privileges is authorized by the appropriate level of organizational management.                                                                                                                   | 5                        |       | IAC-16.1     |
| IAM-05.01AC | Regular Review of Access Rights       | Privileged access rights are reviewed at least every six months, and in case of significant changes to the cloud service.                                                                                                                                                                    | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges                         | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                      | 5                        |       | IAC-17       |
| IAM-06.01B  | Privileged Access Rights              | Privileged access rights for internal and external personnel as well as technical users of the cloud service provider are assigned and changed in accordance with the policy for managing identities and access rights (cf. IAM-01) or a separate specific policy.                           | Functional     | Intersects With   | Privileged Account Management (PAM)                                                | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                             | 8                        |       | IAC-16       |
| IAM-06.02B  | Privileged Access Rights              | Privileged access rights are personalised, limited in time according to a risk assessment and assigned as necessary for the execution of tasks ("need-to-know-principle").                                                                                                                   | Functional     | Intersects With   | Privileged Account Management (PAM)                                                | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                             | 5                        |       | IAC-16       |
| IAM-06.02B  | Privileged Access Rights              | Privileged access rights are personalised, limited in time according to a risk assessment and assigned as necessary for the execution of tasks ("need-to-know-principle").                                                                                                                   | Functional     | Intersects With   | Least Privilege                                                                    | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business                                                                                                          | 5                        |       | IAC-21       |
| IAM-06.03B  | Privileged Access Rights              | Anonymous technical users are only accessed through authentication with a personalised identity.                                                                                                                                                                                             | Functional     | Intersects With   | Credential Sharing                                                                 | IAC-23   | Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic authentication methods.                                                                                                                                                                                          | 5                        |       | IAC-19       |
| IAM-06.03B  | Privileged Access Rights              | Anonymous technical users are only accessed through authentication with a personalised identity.                                                                                                                                                                                             | Functional     | Intersects With   | Identification & Authentication for Organizational Users                           | IAC-32   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.                                                                                                                            | 3                        |       | IAC-02       |
| IAM-06.04B  | Privileged Access Rights              | Activities of users with privileged access rights are logged in order to detect any misuse of privileged access in suspicious cases.                                                                                                                                                         | Functional     | Intersects With   | Privileged Command Execution                                                       | IAC-10.4 | Mechanisms exist to ensure privilege change requests require additional levels of authentication.                                                                                                                                                                                                   | 3                        |       | IAC-16.3     |
| IAM-06.04B  | Privileged Access Rights              | Activities of users with privileged access rights are logged in order to detect any misuse of privileged access in suspicious cases.                                                                                                                                                         | Functional     | Intersects With   | Audit Trails                                                                       | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                     | 5                        |       | MON-03.2     |
| IAM-06.05B  | Privileged Access Rights              | The logged information is automatically monitored for defined events that may indicate misuse.                                                                                                                                                                                               | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry                          | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                   | 3                        |       | MON-01.4     |
| IAM-06.05B  | Privileged Access Rights              | The logged information is automatically monitored for defined events that may indicate misuse.                                                                                                                                                                                               | Functional     | Intersects With   | Anomalous Behavior                                                                 | MON-16   | Mechanisms exist to utilize User & Entity Behavior Analytics (UEBA) and/or User Activity Monitoring (UAM) solutions to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.                                                               | 5                        |       | MON-16       |
| IAM-06.06B  | Privileged Access Rights              | When such an event is identified, the responsible personnel is automatically informed so that they can timely assess whether misuse has occurred and take corresponding action.                                                                                                              | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry                          | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                   | 5                        |       | MON-01.4     |
| IAM-06.07B  | Privileged Access Rights              | In the event of proven misuse of privileged access rights, disciplinary measures are taken in accordance with HR-04.                                                                                                                                                                         | Functional     | Intersects With   | Personnel Sanctions                                                                | HRS-10   | Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.                                                                                                                                                                              | 5                        |       | HRS-07       |
| IAM-06.08B  | Privileged Access Rights              | For containers and images, activities of users with privileged access are logged according to OPS-10.                                                                                                                                                                                        | Functional     | Intersects With   | Audit Trails                                                                       | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                     | 3                        |       | MON-03.2     |
| IAM-06.08B  | Privileged Access Rights              | For containers and images, activities of users with privileged access are logged according to OPS-10.                                                                                                                                                                                        | Functional     | Intersects With   | Application Container                                                              | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                            | 3                        |       | SEA-21       |
| IAM-06.09B  | Privileged Access Rights              | Access to the cloud service provider's administration interfaces requires the use of multi-factor authentication.                                                                                                                                                                            | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                                  | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for: (1) Remote network access; (2) Third-party Technology Assets, Applications and/or Services (TAAS); and/or (3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data. | 8                        |       | IAC-06       |
| IAM-06.09B  | Privileged Access Rights              | Access to the cloud service provider's administration interfaces requires the use of multi-factor authentication.                                                                                                                                                                            | Functional     | Intersects With   | Multi-Factor Authentication (MFA) For Network Access to Privileged Accounts        | IAC-37.5 | Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.                                                                                                                                                                               | 5                        |       | IAC-06.1     |
| IAM-06.01AC | Privileged Access Rights              | The cloud service provider maintains an inventory of the identities with privileged access rights under its responsibility. This inventory is kept up-to-date.                                                                                                                               | Functional     | Intersects With   | Privileged Account Inventories                                                     | IAC-10.1 | Mechanisms exist to inventory all privileged accounts and validate that each person with elevated privileges is authorized by the appropriate level of organizational management.                                                                                                                   | 8                        |       | IAC-16.1     |
| IAM-06.02AC | Privileged Access Rights              | The cloud service provider maintains a list of the personnel that is responsible for an identity assigned to a non-human entity within the cloud service provider's scope of responsibility. This list is reviewed every six months and in case of significant changes to the cloud service. | Functional     | Intersects With   | Technology Assets, Applications, Services and/or Data (TAASD) Ownership Assignment | AST-07.1 | Mechanisms exist to ensure Technology Assets, Applications, Services and/or Data (TAASD) ownership responsibilities are assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.            | 3                        |       | AST-03       |
| IAM-06.02AC | Privileged Access Rights              | The cloud service provider maintains a list of the personnel that is responsible for an identity assigned to a non-human entity within the cloud service provider's scope of responsibility. This list is reviewed every six months and in case of significant changes to the cloud service. | Functional     | Intersects With   | User & Service Account Inventories                                                 | IAC-08.3 | Mechanisms exist to maintain a current list of authorized users and service accounts.                                                                                                                                                                                                               | 5                        |       | IAC-01.3     |
| IAM-06.03AC | Privileged Access Rights              | For privileged users, phishing-resistant multi-factor authentication such as FIDO2 security keys or comparable mechanisms using public key cryptography and domain binding are implemented.                                                                                                  | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                                  | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for: (1) Remote network access; (2) Third-party Technology Assets, Applications and/or Services (TAAS); and/or (3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data. | 5                        |       | IAC-06       |
| IAM-06.03AC | Privileged Access Rights              | For privileged users, phishing-resistant multi-factor authentication such as FIDO2 security keys or comparable mechanisms using public key cryptography and domain binding are implemented.                                                                                                  | Functional     | Intersects With   | Phishing-Resistant Multi-Factor Authentication (MFA)                               | IAC-37.2 | Automated mechanisms exist to enforce phishing-resistant Multi-Factor Authentication (MFA) through authenticators that are cryptographically bound to the verifier's identity, preventing credential relay by an impersonating party.                                                               | 8                        |       |              |
| IAM-06.03AC | Privileged Access Rights              | For privileged users, phishing-resistant multi-factor authentication such as FIDO2 security keys or comparable mechanisms using public key cryptography and domain binding are implemented.                                                                                                  | Functional     | Intersects With   | Multi-Factor Authentication (MFA) For Network Access to Privileged Accounts        | IAC-37.5 | Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.                                                                                                                                                                               | 5                        |       | IAC-06.1     |
| IAM-06.04AC | Privileged Access Rights              | Privileged access rights are enforced through a privileged access management (PAM) solution with support for "just-in-time" elevation and "just-enough" access.                                                                                                                              | Functional     | Intersects With   | Privileged Account Management (PAM)                                                | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                             | 8                        |       | IAC-16       |
| IAM-07.01B  | Access to Cloud Service Customer Data | The cloud service provider implements partitioning measures that are:                                                                                                                                                                                                                        | Functional     | Intersects With   | Multi-Tenant Environments                                                          | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                           | 5                        |       | CLD-06       |
| IAM-07.01B  | Access to Cloud Service Customer Data | The cloud service provider implements partitioning measures that are:                                                                                                                                                                                                                        | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                                           | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                                     | 5                        |       | NET-06       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                   | Focal Document:                                          |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                 |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|----------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Secure Controls Framework (SCF) version 2026.3                                                      |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                   | Focal Document URL:                                      |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                              |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                   | Published STRM URL:                                      |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                      |                          |       |              |  |
| FDE #                                                                                               | FDE Name                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | STRM Rationale | STRM Relationship | SCF Control                                              | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                 | Strength of Relationship | Notes | Legacy SCF # |  |
| IAM-07.01B.1                                                                                        | Access to Cloud Service Customer Data | Sufficient for separating the system components for providing the cloud service from the system components of the cloud service provider's other information systems; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Segregation From Enterprise Services                     | NET-08.2 | Mechanisms exist to isolate sensitive and/or regulated data enclaves (secure zones) from corporate-provided IT resources by providing enclave-specific IT services (e.g., directory services, DNS, NTP, ITAM, antimalware and patch management) to those isolated network segments. | 5                        |       | NET-06.4     |  |
| IAM-07.01B.2                                                                                        | Access to Cloud Service Customer Data | Suitable for separating different cloud service customers from each other (cf. OPS-30 and OPS-31).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Multi-Tenant Environments                                | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                           | 5                        |       | CLD-06       |  |
| IAM-07.02B                                                                                          | Access to Cloud Service Customer Data | The partitioning measures of the cloud service provider ensure that security incidents, if they compromise the system components storing the cloud service customer data, do not also compromise the system components that manage the access to them.                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                 | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                     | 3                        |       | NET-06       |  |
| IAM-07.02B                                                                                          | Access to Cloud Service Customer Data | The partitioning measures of the cloud service provider ensure that security incidents, if they compromise the system components storing the cloud service customer data, do not also compromise the system components that manage the access to them.                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Defense-In-Depth (DiD) Architecture                      | SEA-06   | Mechanisms exist to implement security functions as a layered structure minimizing interactions between layers of the design and avoiding any dependence by lower layers on the functionality or correctness of higher layers.                                                      | 3                        |       | SEA-03       |  |
| IAM-07.03B                                                                                          | Access to Cloud Service Customer Data | Unless prohibited by applicable law, the cloud service customer is informed by the cloud service provider whenever internal or external personnel of the cloud service provider reads or writes to the cloud service customer data processed, stored or transmitted in the cloud service or has accessed it without the prior consent of the cloud service customer. The information is provided whenever cloud service customer data is/was accessed in unencrypted form or the contractual agreements with customers do not explicitly exclude informing the customer of such access.                                                                             | Functional     | Intersects With   | Access Enforcement                                       | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                            | 3                        |       | IAC-20       |  |
| IAM-07.04B                                                                                          | Access to Cloud Service Customer Data | Unless contractually agreed otherwise, the information provided about the access contains the cause, time, duration, geographic location, type and scope of the access, as well as the retention time of other data generated during access, such as logs or copies containing cloud service customer data. The information is sufficiently detailed to enable subject matter experts of the cloud service customer to assess the risks of the access.                                                                                                                                                                                                              | Functional     | Intersects With   | Access Enforcement                                       | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                            | 3                        |       | IAC-20       |  |
| IAM-07.05B                                                                                          | Access to Cloud Service Customer Data | The information is provided in accordance with the contractual agreements, but no later than 72 hours from the initiation of the access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Access Enforcement                                       | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                            | 3                        |       | IAC-20       |  |
| IAM-07.06B                                                                                          | Access to Cloud Service Customer Data | The cloud service provider discloses, through contractual agreements and before offering its services, all instances where the cloud service provider may access cloud service customer data in unencrypted form while it is processed, stored or transmitted in the cloud service.                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Third-Party Contract Requirements                        | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                        | 3                        |       | TPM-05       |  |
| IAM-07.03AS                                                                                         | Access to Cloud Service Customer Data | IAM-07.03AS, sharpening IAM-07.03B<br>Access to cloud service customer data and cloud service derived data by internal or external personnel of the cloud service provider requires the prior consent of an authorised department of the cloud service customer, provided that the cloud service customer's data is accessible in unencrypted form or contractual agreements do not explicitly exclude such consent. Additionally, if encrypted data and its decryption key are stored separately within the same cloud environment, prior consent is required not only for accessing the decryption key but also for accessing the encrypted data itself           | Functional     | Intersects With   | Access Enforcement                                       | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                            | 3                        |       | IAC-20       |  |
| IAM-07.04AS                                                                                         | Access to Cloud Service Customer Data | IAM-07.04AS, sharpening IAM-07.04B<br>Unless contractually agreed otherwise, the information provided for the consent contains the cause, time, duration, geographic location, type and scope of the access, as well as the retention time of other data generated during access, such as logs or copies containing cloud service customer data. The information is sufficiently detailed to enable subject matter experts of the cloud service customer to assess the risks of the access. In addition to the provided information, the cloud service provider specifies a time frame within which the cloud service customer shall respond to the access request. | Functional     | Intersects With   | Access Enforcement                                       | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                            | 3                        |       | IAC-20       |  |
| IAM-07.06AS                                                                                         | Access to Cloud Service Customer Data | IAM-07.06AS, sharpening IAM-07.06B<br>The cloud service provider discloses, through contractual agreements and before offering its services, all instances where the cloud service provider may access cloud service customer data or cloud service derived data in unencrypted form while it is processed, stored or transmitted in the cloud service.                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Third-Party Contract Requirements                        | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or Data (TAASD).                          | 3                        |       | TPM-05       |  |
| IAM-07.01AC                                                                                         | Access to Cloud Service Customer Data | If the cloud service provider might access the cloud service customer data transmitted, handled or stored in the cloud service in a non-encrypted way, the cloud service provider includes provisions through contractual agreements for cases in which seeking prior consent for such an access is not feasible.                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Contract Requirements                        | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                        | 3                        |       | TPM-05       |  |
| IAM-07.02AC                                                                                         | Access to Cloud Service Customer Data | In order to be able to directly or indirectly access cloud service customer data, any internal or external personnel of the cloud service provider has to pass an appropriate assessment, or has to instead be supervised by personnel who has passed an appropriate assessment (cf. HR-01). The cloud service provider verifies that one of these conditions is met before the access is granted. This applies to support operations as well.                                                                                                                                                                                                                      | Functional     | Intersects With   | Personnel Screening                                      | HRS-05   | Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.                                                                                                                                                                            | 5                        |       | HRS-04       |  |
| IAM-07.02AC                                                                                         | Access to Cloud Service Customer Data | In order to be able to directly or indirectly access cloud service customer data, any internal or external personnel of the cloud service provider has to pass an appropriate assessment, or has to instead be supervised by personnel who has passed an appropriate assessment (cf. HR-01). The cloud service provider verifies that one of these conditions is met before the access is granted. This applies to support operations as well.                                                                                                                                                                                                                      | Functional     | Intersects With   | Roles With Special Protection Measures                   | HRS-05.1 | Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria.                                                                              | 3                        |       | HRS-04.1     |  |
| IAM-07.03AC                                                                                         | Access to Cloud Service Customer      | If the performed access is supervised, the cloud service provider ensures that:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Privileged Command Execution                             | IAC-10.4 | Mechanisms exist to ensure privilege change requests require additional levels of authentication.                                                                                                                                                                                   | 3                        |       | IAC-16.3     |  |
| IAM-07.03AC.1                                                                                       | Access to Cloud Service Customer Data | The mechanisms used to perform the supervised access allow the supervising personnel to authorise or deny individual actions of the supervisee and ask for explanations in real time;                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Privileged Command Execution                             | IAC-10.4 | Mechanisms exist to ensure privilege change requests require additional levels of authentication.                                                                                                                                                                                   | 3                        |       | IAC-16.3     |  |
| IAM-07.03AC.2                                                                                       | Access to Cloud Service Customer Data | Any access rights that are granted as part of the supervised access are revoked at the end of the operation;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Account Management                                       | IAC-08   | Mechanisms exist to:<br>(1) Define authorized system account types;<br>(2) Define prohibited system account types; and<br>(3) Proactively govern individual, group, system, service, application, guest and temporary accounts.                                                     | 3                        |       | IAC-15       |  |
| IAM-07.03AC.3                                                                                       | Access to Cloud Service Customer      | All operations that are performed as part of the supervised access are logged as administration actions;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Audit Trails                                             | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                     | 3                        |       | MON-03.2     |  |
| IAM-07.03AC.4                                                                                       | Access to Cloud Service Customer Data | The supervisee and the device used to perform the supervised access are authenticated by the supervision solution;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Identification & Authentication for Organizational Users | IAC-32   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.                                                                                                            | 3                        |       | IAC-02       |  |
| IAM-07.03AC.4                                                                                       | Access to Cloud Service Customer Data | The supervisee and the device used to perform the supervised access are authenticated by the supervision solution;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Identification & Authentication for Devices              | IAC-34   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.                                                      | 3                        |       | IAC-04       |  |
| IAM-07.03AC.5                                                                                       | Access to Cloud Service Customer Data | The operations that the supervisee proposes and the actions of the supervising personnel are logged by the supervision solution, including operations that were denied; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Audit Trails                                             | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                     | 3                        |       | MON-03.2     |  |
| IAM-07.03AC.6                                                                                       | Access to Cloud Service Customer Data | Information flows towards the device of the supervisee are prevented by the supervision solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Data Flow Enforcement - Access Control Lists (ACLs)      | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                          | 3                        |       | NET-04       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document:                                            |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                           |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document URL:                                        |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                        |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Published STRM URL:                                        |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                |                          |       |              |  |
| FDE #                                                                                               | FDE Name                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                          | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                           | Strength of Relationship | Notes | Legacy SCF # |  |
| IAM-07.04AC                                                                                         | Access to Cloud Service Customer Data | If the cloud service customer is given access to interfaces for administrators and for end users as part of the cloud service, the cloud service provider separates these interfaces from one another and ensures that access paths for customer administrators differ from those for end users.                                                                                                                                                                  | Functional     | Intersects With   | Privileged Account Separation                              | IAC-10.2 | Mechanisms exist to separate privileged accounts between infrastructure environments to reduce the risk of a compromise in one infrastructure environment from laterally affecting other infrastructure environments.                                                                                         | 5                        |       | IAC-16.2     |  |
| IAM-07.04AC                                                                                         | Access to Cloud Service Customer Data | If the cloud service customer is given access to interfaces for administrators and for end users as part of the cloud service, the cloud service provider separates these interfaces from one another and ensures that access paths for customer administrators differ from those for end users.                                                                                                                                                                  | Functional     | Intersects With   | Network Device Plane Segmentation                          | NET-09   | Automated mechanisms exist to separate network appliance functions (e.g., management, control and data planes) to prevent ordinary traffic from accessing functions that:<br>(1) Manage network appliances; and/or<br>(2) Affect network operations.                                                          | 3                        |       | NET-06.8     |  |
| IAM-08.01B                                                                                          | Authentication Mechanisms             | System components in the cloud service provider's area of responsibility that are used to provide the cloud service authenticate users of the cloud service provider's internal and external personnel as well as system components that are involved in the cloud service provider's automated authorisation processes.                                                                                                                                          | Functional     | Intersects With   | Identification & Authentication for Organizational Users   | IAC-32   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.                                                                                                                                      | 8                        |       | IAC-02       |  |
| IAM-08.01B                                                                                          | Authentication Mechanisms             | System components in the cloud service provider's area of responsibility that are used to provide the cloud service authenticate users of the cloud service provider's internal and external personnel as well as system components that are involved in the cloud service provider's automated authorisation processes.                                                                                                                                          | Functional     | Intersects With   | Identification & Authentication for Devices                | IAC-34   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.                                                                                | 3                        |       | IAC-04       |  |
| IAM-08.02B                                                                                          | Authentication Mechanisms             | The cloud service provider enforces multi-factor authentication (MFA) for all access to the production environment. This requirement applies to both human users and automated processes, ensuring that only authorised entities can access systems and data in the production environment.                                                                                                                                                                       | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                          | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/ or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data. | 8                        |       | IAC-06       |  |
| IAM-08.03B                                                                                          | Authentication Mechanisms             | Within the production environment, user authentication takes place through passwords, digitally signed certificates or procedures that achieve at least an equivalent level of security. If digitally signed certificates are used, administration is carried out in accordance with the policies and procedures for the use of cryptographic mechanisms (cf. CRY-01).                                                                                            | Functional     | Intersects With   | Cryptographic Key Management                               | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                      | 3                        |       | CRY-09       |  |
| IAM-08.03B                                                                                          | Authentication Mechanisms             | Within the production environment, user authentication takes place through passwords, digitally signed certificates or procedures that achieve at least an equivalent level of security. If digitally signed certificates are used, administration is carried out in accordance with the policies and procedures for the use of cryptographic mechanisms (cf. CRY-01).                                                                                            | Functional     | Intersects With   | Password-Based Authentication                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |  |
| IAM-08.04B                                                                                          | Authentication Mechanisms             | The authentication requirements are derived from a risk assessment and documented, communicated and provided in an authentication policy according to SP-01. Compliance with the requirements is enforced by the configuration of the system components, as far as technically possible. The authentication policy describes at least the following aspects:                                                                                                      | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                        | 3                        |       | GOV-02       |  |
| IAM-08.04B                                                                                          | Authentication Mechanisms             | The authentication requirements are derived from a risk assessment and documented, communicated and provided in an authentication policy according to SP-01. Compliance with the requirements is enforced by the configuration of the system components, as far as technically possible. The authentication policy describes at least the following aspects:                                                                                                      | Functional     | Intersects With   | Identification & Authentication Policy                     | IAC-01   | Mechanisms exist to establish a formal, documented identification and authentication policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and                                                    | 8                        |       |              |  |
| IAM-08.04B                                                                                          | Authentication Mechanisms             | The authentication requirements are derived from a risk assessment and documented, communicated and provided in an authentication policy according to SP-01. Compliance with the requirements is enforced by the configuration of the system components, as far as technically possible. The authentication policy describes at least the following aspects:                                                                                                      | Functional     | Intersects With   | Authenticator Management                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 5                        |       | IAC-10       |  |
| IAM-08.04B.1                                                                                        | Authentication Mechanisms             | The selection of appropriate mechanisms for every level of risk and each identity type;                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Adaptive Identification & Authentication                   | IAC-41   | Mechanisms exist to allow individuals to utilize alternative methods of authentication under specific circumstances or situations.                                                                                                                                                                            | 5                        |       | IAC-13       |  |
| IAM-08.04B.2                                                                                        | Authentication Mechanisms             | The protection of credentials that the authentication mechanisms use, including the confidentiality of personal or shared authentication information and non-sharing of credentials;                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Protection of Authenticators                               | IAC-14.2 | Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.                                                                                                                                                             | 5                        |       | IAC-10.5     |  |
| IAM-08.04B.2                                                                                        | Authentication Mechanisms             | The protection of credentials that the authentication mechanisms use, including the confidentiality of personal or shared authentication information and non-sharing of credentials;                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Credential Sharing                                         | IAC-23   | Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic authentication methods.                                                                                                                                                                                                    | 3                        |       | IAC-19       |  |
| IAM-08.04B.3                                                                                        | Authentication Mechanisms             | The generation and distribution of credentials for any new identity;                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Authenticator Management                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 5                        |       | IAC-10       |  |
| IAM-08.04B.4                                                                                        | Authentication Mechanisms             | The non-reuse of credentials;                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Password-Based Authentication                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |  |
| IAM-08.04B.5                                                                                        | Authentication Mechanisms             | Rules on the storage of credentials;                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Protection of Authenticators                               | IAC-14.2 | Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.                                                                                                                                                             | 5                        |       | IAC-10.5     |  |
| IAM-08.04B.6                                                                                        | Authentication Mechanisms             | Rules for renewing credentials, including periodic renewals and renewals in case a credential is lost or compromised; and                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Authenticator Management                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 5                        |       | IAC-10       |  |
| IAM-08.04B.7                                                                                        | Authentication Mechanisms             | Rules on the required strength of credentials, including trade-offs between entropy and ability to memorise where applicable, as well as mechanisms for communicating and enforcing these rules.                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Password-Based Authentication                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |  |
| IAM-08.05B                                                                                          | Authentication Mechanisms             | The cloud service provider determines by means of a risk assessment (cf. OIS-07) the risk that the authentication mechanisms integrated into the system components under its responsibility used to provide the cloud service become outdated. Based on the results of the risk assessment, the cloud service provider implements appropriate measures for exchanging outdated authentication mechanisms or the system components into which they are integrated. | Functional     | Intersects With   | Authenticator Management                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 3                        |       | IAC-10       |  |
| IAM-08.05B                                                                                          | Authentication Mechanisms             | The cloud service provider determines by means of a risk assessment (cf. OIS-07) the risk that the authentication mechanisms integrated into the system components under its responsibility used to provide the cloud service become outdated. Based on the results of the risk assessment, the cloud service provider implements appropriate measures for exchanging outdated authentication mechanisms or the system components into which they are integrated. | Functional     | Intersects With   | Risk Assessment                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                         | 3                        |       | RSK-04       |  |
| IAM-08.06B                                                                                          | Authentication Mechanisms             | Any authentication mechanism integrated into the system components used to provide the cloud service has a mechanism for disabling an identity after a predefined number of unsuccessful authentication attempts.                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Account Lockout                                            | CFG-04.1 | Mechanisms exist to enforce a limit for consecutive invalid login attempts by a user during an organization-defined time period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded.                                                                             | 8                        |       | IAC-22       |  |
| IAM-08.07B                                                                                          | Authentication Mechanisms             | The cloud service provider implements measures which require that users can only access non-personal identities assigned to multiple persons after they have already been authenticated with their identity assigned to a single person.                                                                                                                                                                                                                          | Functional     | Intersects With   | Credential Sharing                                         | IAC-23   | Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic authentication methods.                                                                                                                                                                                                    | 5                        |       | IAC-19       |  |
| IAM-08.07B                                                                                          | Authentication Mechanisms             | The cloud service provider implements measures which require that users can only access non-personal identities assigned to multiple persons after they have already been authenticated with their identity assigned to a single person.                                                                                                                                                                                                                          | Functional     | Intersects With   | Identification & Authentication for Organizational Users   | IAC-32   | Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.                                                                                                                                      | 3                        |       | IAC-02       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                               |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                               |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                               |                          |       |              |
| FDE #                                                                                               | FDE Name                                       | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                         | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                           | Strength of Relationship | Notes | Legacy SCF # |
| IAM-08.02AS                                                                                         | Authentication Mechanisms                      | IAM-08.02AS, sharpening IAM-08.02B<br>The cloud service provider enforces multi-factor authentication (MFA) for all access to any environment. This requirement applies to both human users and automated processes, ensuring that only authorised entities can access systems and data in all of the environments.                                                                              | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                                                                                                          | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/ or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data. | 8                        |       | IAC-06       |
| IAM-08.03AS                                                                                         | Authentication Mechanisms                      | IAM-08.03AS, sharpening IAM-08.03B<br>Within an environment, user authentication takes place through passwords, digitally signed certificates or procedures that achieve at least an equivalent level of security. If digitally signed certificates are used, administration is carried out in accordance with the policies and procedures for the use of cryptographic mechanisms (cf. CRY-01). | Functional     | Intersects With   | Cryptographic Key Management                                                                                                                               | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                      | 3                        |       | CRY-09       |
| IAM-08.03AS                                                                                         | Authentication Mechanisms                      | IAM-08.03AS, sharpening IAM-08.03B<br>Within an environment, user authentication takes place through passwords, digitally signed certificates or procedures that achieve at least an equivalent level of security. If digitally signed certificates are used, administration is carried out in accordance with the policies and procedures for the use of cryptographic mechanisms (cf. CRY-01). | Functional     | Intersects With   | Password-Based Authentication                                                                                                                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |
| IAM-09.01B                                                                                          | Confidentiality of Authentication Information  | The allocation of authentication information to access system components used to provide the cloud service to internal and external users of the cloud service provider and system components that are involved in automated authorisation processes of the cloud service provider is done in an orderly manner that ensures the confidentiality of the information.                             | Functional     | Intersects With   | Authenticator Management                                                                                                                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 5                        |       | IAC-10       |
| IAM-09.01B                                                                                          | Confidentiality of Authentication Information  | The allocation of authentication information to access system components used to provide the cloud service to internal and external users of the cloud service provider and system components that are involved in automated authorisation processes of the cloud service provider is done in an orderly manner that ensures the confidentiality of the information.                             | Functional     | Intersects With   | Protection of Authenticators                                                                                                                               | IAC-14.2 | Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.                                                                                                                                                             | 3                        |       | IAC-10.5     |
| IAM-09.02B                                                                                          | Confidentiality of Authentication Information  | Authentication credentials are managed with a security level that matches or exceeds the classification of the system component they protect.                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Data & Asset Classification                                                                                                                                | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                  | 3                        |       | DCH-02       |
| IAM-09.02B                                                                                          | Confidentiality of Authentication Information  | Authentication credentials are managed with a security level that matches or exceeds the classification of the system component they protect.                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Protection of Authenticators                                                                                                                               | IAC-14.2 | Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.                                                                                                                                                             | 5                        |       | IAC-10.5     |
| IAM-09.03B                                                                                          | Confidentiality of Authentication Information  | If passwords are used as authentication information, their confidentiality is ensured by the following procedures, as far as technically possible:<br>Users can initially create the password themselves or shall change an initial password when logging on to the system component for the first time. An initial password loses its validity after a maximum of 14 days;                      | Functional     | Intersects With   | Password-Based Authentication                                                                                                                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |
| IAM-09.03B.1                                                                                        | Confidentiality of Authentication Information  | When creating passwords, compliance with the authentication policy (cf. IAM-08) is enforced as far as technically possible;                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Default Authenticators                                                                                                                                     | IAC-14.4 | Mechanisms exist to ensure default authenticators are changed as part of account creation or system installation.                                                                                                                                                                                             | 5                        |       | IAC-10.8     |
| IAM-09.03B.2                                                                                        | Confidentiality of Authentication Information  | The user is informed about changing or resetting the password; and                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Password-Based Authentication                                                                                                                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |
| IAM-09.03B.3                                                                                        | Confidentiality of Authentication Information  | The server-side storage takes place using state of the art cryptographic hash functions, with the exception of passwords that are stored in the plain text form for later use, for example in a password manager. In this case, state of the art cryptographic mechanisms are used to protect the passwords.                                                                                     | Functional     | Intersects With   | Authenticator Management                                                                                                                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 3                        |       | IAC-10       |
| IAM-09.03B.4                                                                                        | Confidentiality of Authentication Information  | The server-side storage takes place using state of the art cryptographic hash functions, with the exception of passwords that are stored in the plain text form for later use, for example in a password manager. In this case, state of the art cryptographic mechanisms are used to protect the passwords.                                                                                     | Functional     | Intersects With   | Cryptographic Hash                                                                                                                                         | CRY-14   | Mechanisms exist to utilize hash algorithms to generate a hash value that can be used to validate the integrity of data and/or software.                                                                                                                                                                      | 3                        |       | CRY-13       |
| IAM-09.03B.4                                                                                        | Confidentiality of Authentication Information  | The server-side storage takes place using state of the art cryptographic hash functions, with the exception of passwords that are stored in the plain text form for later use, for example in a password manager. In this case, state of the art cryptographic mechanisms are used to protect the passwords.                                                                                     | Functional     | Intersects With   | Password-Based Authentication                                                                                                                              | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                       | 5                        |       | IAC-10.1     |
| IAM-09.04B                                                                                          | Confidentiality of Authentication Information  | Deviations are evaluated by means of a risk assessment according to OIS-07 and mitigating measures derived from this are implemented.                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Risk Assessment                                                                                                                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                         | 3                        |       | RSK-04       |
| IAM-09.04B                                                                                          | Confidentiality of Authentication Information  | Deviations are evaluated by means of a risk assessment according to OIS-07 and mitigating measures derived from this are implemented.                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Compensating Countermeasures                                                                                                                               | RSK-18   | Mechanisms exist to identify and implement one, or more, compensating controls to reduce risk and threat exposure when the primary means of implementing the security function is unavailable or compromised.                                                                                                 | 3                        |       | RSK-06.2     |
| IAM-09.05B                                                                                          | Confidentiality of Authentication Information  | Rules and recommendations for managing credentials in accordance with the authentication policy (cf. IAM-08) are documented, communicated and made available to all users under the responsibility of the cloud service provider. They include recommendations on password managers and recommendations to specifically address classical attacks such as phishing, social attacks, and whaling. | Functional     | Intersects With   | User Responsibilities for Account Management                                                                                                               | IAC-22   | Mechanisms exist to compel users to follow accepted practices in the use of authentication mechanisms (e.g., passwords, passphrases, physical or logical security tokens, smart cards and certificates).                                                                                                      | 5                        |       | IAC-18       |
| IAM-09.05B                                                                                          | Confidentiality of Authentication Information  | Rules and recommendations for managing credentials in accordance with the authentication policy (cf. IAM-08) are documented, communicated and made available to all users under the responsibility of the cloud service provider. They include recommendations on password managers and recommendations to specifically address classical attacks such as phishing, social attacks, and whaling. | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training                                                                                                       | SAT-04   | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                                                           | 3                        |       | SAT-02       |
| IAM-09.06B                                                                                          | Confidentiality of Authentication Information  | Used cryptographic mechanisms comply with the policies and instructions for cryptographic mechanisms (cf. CRY-01).                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Use of Cryptographic Controls                                                                                                                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                | 5                        |       | CRY-01       |
| IAM-09.06B                                                                                          | Confidentiality of Authentication Information  | Used cryptographic mechanisms comply with the policies and instructions for cryptographic mechanisms (cf. CRY-01).                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Cryptographic Module Authentication                                                                                                                        | IAC-38   | Automated mechanisms exist to enable Technology Assets, Applications and/or Services (TAAS) to authenticate to a cryptographic module.                                                                                                                                                                        | 5                        |       | IAC-12       |
| IAM-09.07B                                                                                          | Confidentiality of Authentication Information  | Password reset procedures are valid for at most 24 hours. After the reset procedure has been used, the password is to be changed by the user.                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Authenticator Management                                                                                                                                   | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                           | 3                        |       | IAC-10       |
| IAM-09.01AC                                                                                         | Confidentiality of Authentication Information  | The users sign a declaration in which they assure that they treat personal (or shared) authentication information confidentially and keep it exclusively for themselves (within the members of the group).                                                                                                                                                                                       | Functional     | Intersects With   | User Responsibilities for Account Management                                                                                                               | IAC-22   | Mechanisms exist to compel users to follow accepted practices in the use of authentication mechanisms (e.g., passwords, passphrases, physical or logical security tokens, smart cards and certificates).                                                                                                      | 5                        |       | IAC-18       |
| IAM-09.01AC                                                                                         | Confidentiality of Authentication Information  | The users sign a declaration in which they assure that they treat personal (or shared) authentication information confidentially and keep it exclusively for themselves (within the members of the group).                                                                                                                                                                                       | Functional     | Intersects With   | Credential Sharing                                                                                                                                         | IAC-23   | Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic authentication methods.                                                                                                                                                                                                    | 3                        |       | IAC-19       |
| 5.8                                                                                                 | Cryptography and Key Management (CRY)          | Objective: Ensure appropriate and effective use of cryptography to protect the confidentiality, authenticity or integrity of information.                                                                                                                                                                                                                                                        | Functional     | No Relationship   | N/A                                                                                                                                                        | N/A      | N/A                                                                                                                                                                                                                                                                                                           | 0                        |       |              |
| CRY-01.01B                                                                                          | Policy for the Use of Cryptographic Mechanisms | Policies and procedures with procedures and technical safeguards for cryptographic mechanisms are documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                                                                                                                                        | Functional     | Subset Of         | Cryptographic Protections Policy                                                                                                                           | CRY-01   | Mechanisms exist to establish a formal, documented cryptographic protections policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and<br>(4) is updated, as necessary, to adapt to evolving      | 10                       |       |              |
| CRY-01.01B                                                                                          | Policy for the Use of Cryptographic Mechanisms | Policies and procedures with procedures and technical safeguards for cryptographic mechanisms are documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                                                                                                                                        | Functional     | Intersects With   | Use of Cryptographic Controls                                                                                                                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.                                                                                                                                                  | 8                        |       | CRY-01       |

| FDE #         | FDE Name                                       | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                    | STRM Rationale | STRM Relationship | SCF Control                                                                       | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                 | Strength of Relationship | Notes | Legacy SCF # |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| CRY-01.01B    | Policy for the Use of Cryptographic Mechanisms | Policies and procedures with procedures and technical safeguards for cryptographic mechanisms are documented, communicated and provided according to SP-01, in which the following aspects are described:                                                                                                                                                                                                                                   | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                        | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                              | 3                        |       | GOV-02       |
| CRY-01.01B.1  | Policy for the Use of Cryptographic Mechanisms | Usage of encryption procedures and secure network protocols that correspond to the state of the art;                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Use of Cryptographic Controls                                                     | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                                                                                      | 5                        |       | CRY-01       |
| CRY-01.01B.1  | Policy for the Use of Cryptographic Mechanisms | Usage of encryption procedures and secure network protocols that correspond to the state of the art;                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Safeguarding Data Over Open Networks                                              | NET-37   | Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive and/or regulated data during transmission over open, public networks.                                                                                                                                                                                                                                                                                 | 3                        |       | NET-12       |
| CRY-01.01B.2  | Policy for the Use of Cryptographic Mechanisms | Usage of hash functions and salt values, that both correspond to the state of the art;                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Cryptographic Hash                                                                | CRY-14   | Mechanisms exist to utilize hash algorithms to generate a hash value that can be used to validate the integrity of data and/or software.                                                                                                                                                                                                                                                                                                                            | 5                        |       | CRY-13       |
| CRY-01.01B.3  | Policy for the Use of Cryptographic Mechanisms | Usage of signature schemes that correspond to the state of the art;                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Use of Cryptographic Controls                                                     | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic                                                                                                                                                                                                                                                                                                                      | 5                        |       | CRY-01       |
| CRY-01.01B.4  | Policy for the Use of Cryptographic Mechanisms | Risk-based provisions for the use of encryption and authentication which are aligned with the information classification schemes (cf. AM-09) and consider the communication channel, type, strength and quality of the encryption;                                                                                                                                                                                                          | Functional     | Intersects With   | Use of Cryptographic Controls                                                     | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.                                                                                                                                                                                                                                                                                                        | 5                        |       | CRY-01       |
| CRY-01.01B.4  | Policy for the Use of Cryptographic Mechanisms | Risk-based provisions for the use of encryption and authentication which are aligned with the information classification schemes (cf. AM-09) and consider the communication channel, type, strength and quality of the encryption;                                                                                                                                                                                                          | Functional     | Intersects With   | Data & Asset Classification                                                       | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                                                                                                                                                                                        | 3                        |       | DCH-02       |
| CRY-01.01B.5  | Policy for the Use of Cryptographic Mechanisms | Requirements for the secure generation, storage, archiving, retrieval, distribution, withdrawal, backup, restoration and deletion of the keys;                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Cryptographic Key Management                                                      | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                            | 8                        |       | CRY-09       |
| CRY-01.01B.6  | Policy for the Use of Cryptographic Mechanisms | Requirements for the rotation of cryptographic keys that follow industry best practices and consider the potential risk of information exposure;                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Cryptographic Key Management                                                      | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                            | 5                        |       | CRY-09       |
| CRY-01.01B.7  | Policy for the Use of Cryptographic Mechanisms | Consideration of relevant legal and regulatory obligations and requirements;                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                                    | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                    | 3                        |       | CPL-01       |
| CRY-01.01B.7  | Policy for the Use of Cryptographic Mechanisms | Consideration of relevant legal and regulatory obligations and requirements;                                                                                                                                                                                                                                                                                                                                                                | Functional     | Subset Of         | Cryptographic Protections Policy                                                  | CRY-01   | Mechanisms exist to establish a formal, documented cryptographic protections policy that: (1) Conveys executive management's intent;                                                                                                                                                                                                                                                                                                                                | 10                       |       |              |
| CRY-01.01B.7  | Policy for the Use of Cryptographic Mechanisms | Consideration of relevant legal and regulatory obligations and requirements;                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Export-Controlled Cryptography                                                    | CRY-15   | Mechanisms exist to address the exporting of cryptographic technologies in compliance with relevant statutory and regulatory requirements.                                                                                                                                                                                                                                                                                                                          | 3                        |       | CRY-01.2     |
| CRY-01.01B.8  | Policy for the Use of Cryptographic Mechanisms | Documentation of a change management process for managing cryptographic, encryption, authentication and key management technology changes; and                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Change Management Program                                                         | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | CHG-01       |
| CRY-01.01B.8  | Policy for the Use of Cryptographic Mechanisms | Documentation of a change management process for managing cryptographic, encryption, authentication and key management technology changes; and                                                                                                                                                                                                                                                                                              | Functional     | Subset Of         | Cryptographic Protections Policy                                                  | CRY-01   | Mechanisms exist to establish a formal, documented cryptographic protections policy that: (1) Conveys executive management's intent; (2) Provides organizational direction and expected behaviors; (3) Is reviewed at least annually; and (4) Is updated, as necessary, to adapt to evolving                                                                                                                                                                        | 10                       |       |              |
| CRY-01.01B.9  | Policy for the Use of Cryptographic Mechanisms | Consideration of crypto-agility to allow for efficient substitution of implemented cryptographic mechanisms during their intended lifetimes.                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Crypto-Agility Architecture                                                       | QTS-09   | Mechanisms exist to validate design-level cryptographic agility across protocols, libraries, kernels and hardware to ensure Technology Assets, Applications and/or Services (TAAS) can support larger Post-Quantum Cryptography (PQC) key, signature and ciphertext sizes.                                                                                                                                                                                          | 5                        |       | QTS-06       |
| CRY-01.02B    | Policy for the Use of Cryptographic Mechanisms | Reviews of policies and procedures regarding cryptographic mechanisms include checks that the policies and procedures are up to date and comply with the BSI technical guideline (BSI TR-02102) or suitable NIST guidelines (e.g. FIPS 140 series and SP 800 series). Deviations are analysed and documented in a risk assessment for cryptographic mechanisms valid at the given time. Remediation measures are to be taken based on risk. | Functional     | Intersects With   | Use of Cryptographic Controls                                                     | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.                                                                                                                                                                                                                                                                                                        | 5                        |       | CRY-01       |
| CRY-01.02B    | Policy for the Use of Cryptographic Mechanisms | Reviews of policies and procedures regarding cryptographic mechanisms include checks that the policies and procedures are up to date and comply with the BSI technical guideline (BSI TR-02102) or suitable NIST guidelines (e.g. FIPS 140 series and SP 800 series). Deviations are analysed and documented in a risk assessment for cryptographic mechanisms valid at the given time. Remediation measures are to be taken based on risk. | Functional     | Intersects With   | Periodic Review & Update of Security, Compliance & Resilience Program             | GOV-04.1 | Mechanisms exist to review the Security, Compliance & Resilience Program (SCRIP), including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.                                                                                                                                                                                                            | 8                        |       | GOV-03       |
| CRY-01.01AC   | Policy for the Use of Cryptographic Mechanisms | The cloud service provider has defined and documented a Post-Quantum-Cryptography (PQC) strategy according to SP-01 to address threats posed by adversaries in possession of a quantum computer.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Quantum Security Policy                                                           | QTS-01   | Mechanisms exist to establish a formal, documented quantum security policy that: (1) Conveys executive management's intent; (2) Provides organizational direction and expected behaviors; (3) Is reviewed at least annually; and (4) Is updated, as necessary, to adapt to evolving risks, threats and other changes that affect the organization.                                                                                                                  | 5                        |       | QTS-01.1     |
| CRY-01.01AC   | Policy for the Use of Cryptographic Mechanisms | The cloud service provider has defined and documented a Post-Quantum-Cryptography (PQC) strategy according to SP-01 to address threats posed by adversaries in possession of a quantum computer.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Post-Quantum Cryptography Agility Plan (PQCAP)                                    | QTS-06   | Mechanisms exist to develop a risk-prioritized Post-Quantum Cryptography Agility Plan (PQCAP) that: (1) Enables cryptographic agility; (2) Aligns with evolving security standards; and (3) Defines the approach for selecting and implementing PQC algorithms.                                                                                                                                                                                                     | 8                        |       | QTS-03       |
| CRY-01.02AC   | Policy for the Use of Cryptographic Mechanisms | The cloud service provider's PQC strategy is aligned with cryptography policies and procedures and includes the following aspects:                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Post-Quantum Cryptography Agility Plan (PQCAP)                                    | QTS-06   | Mechanisms exist to develop a risk-prioritized Post-Quantum Cryptography Agility Plan (PQCAP) that: (1) Enables cryptographic agility; (2) Aligns with evolving security standards; and (3) Defines the approach for selecting and implementing PQC algorithms.                                                                                                                                                                                                     | 5                        |       | QTS-03       |
| CRY-01.02AC.1 | Policy for the Use of Cryptographic Mechanisms | Maintenance of an inventory of cryptographic mechanisms in use, including priority levels to each inventory item based on the impact and probabilities of the risks posed by quantum computing attacks and the effort to remediate such risks;                                                                                                                                                                                              | Functional     | Intersects With   | Data Shelf-Life Classification for Post-Quantum Cryptography (PQC) Prioritization | QTS-03   | Mechanisms exist to classify Technology Assets, Applications, Services and Data (TAASD) by confidentiality shelf-life and use that classification as a direct input to Post-Quantum Cryptography (PQC) migration prioritization, including prioritizing data with a shelf-life exceeding the expected PQC arrival horizon.                                                                                                                                          | 3                        |       | QTS-01.2     |
| CRY-01.02AC.1 | Policy for the Use of Cryptographic Mechanisms | Maintenance of an inventory of cryptographic mechanisms in use, including priority levels to each inventory item based on the impact and probabilities of the risks posed by quantum computing attacks and the effort to remediate such risks;                                                                                                                                                                                              | Functional     | Intersects With   | Post-Quantum Cryptography (PQC) Asset Inventory                                   | QTS-07.1 | Mechanisms exist to maintain a current inventory of cryptographic assets that includes: (1) Algorithms (asymmetric and symmetric); (2) Key lengths; (3) Libraries; (4) Protocols; (5) Associated Technology Assets, Applications and/or Services (TAAS) utilizing the cryptography; and (6) Federal Information Processing Standards (FIPS) validation status from the Cryptographic Module Validation Program (CMVP), including certificate number, if applicable. | 8                        |       | QTS-04.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |       |              |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |       |              |
| FDE #                                                                                               | FDE Name                                                   | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Strength of Relationship | Notes | Legacy SCF # |
| CRY-01.02AC.2                                                                                       | Policy for the Use of Cryptographic Mechanisms             | Staying informed about encryption measures that are deemed state of the art and secure against adversaries who possess a quantum computer;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Quantum Threat Intelligence Monitoring                                                                                                                     | QTS-08   | Mechanisms exist to maintain an ongoing quantum threat intelligence function that monitors:<br>(1) Cryptanalytic threat developments;<br>(2) Quantum computing capability advances; and<br>(3) NIST and/or regulatory updates to approved algorithm lists.                                                                                                                                                                                                                                           | 8                        |       | QTS-05.1     |
| CRY-01.02AC.3                                                                                       | Policy for the Use of Cryptographic Mechanisms             | Usage of hybrid cryptography models to ensure security for both quantum and non-quantum computing based attacks; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Hybrid / Composite Cryptography                                                                                                                            | QTS-09.9 | Mechanisms exist to leverage hybrid/composite algorithms as a transition path to Post-Quantum Cryptography (PQC) solutions that:<br>(1) Support hybrid signatures (e.g., ECDSA + ML-DSA) and hybrid Key Encapsulation Mechanisms (KEMs) (e.g., ECDH + ML-KEM);<br>(2) Ensure certificate formats, Public Key Infrastructure (PKI) and trust anchors can support dual-key or dual-certificate models; and<br>(3) Plan for eventual removal of classical algorithms once PQC confidence is sufficient. | 8                        |       | QTS-06.9     |
| CRY-01.02AC.4                                                                                       | Policy for the Use of Cryptographic Mechanisms             | Definition of trigger events, required resources, transition plans and success criteria for implementation of post-quantum cryptographic mechanisms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Post-Quantum Cryptography (PQC) Transition Planning & Hybrid Mode Support                                                                                  | QTS-06.1 | Mechanisms exist to allocate resources to:<br>(1) Transition legacy Technology Assets, Applications and/or Services (TAAS) to Post-Quantum Cryptography (PQC) algorithms; and<br>(2) Support hybrid cryptography during a defined transition period.                                                                                                                                                                                                                                                 | 8                        |       | QTS-03.1     |
| CRY-01.03AC                                                                                         | Policy for the Use of Cryptographic Mechanisms             | The PQC strategy, including the inventory and risk assessment, is reviewed at least annually or in case of significant changes impacting the PQC strategy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Cryptographic Agility Risk Assessment (CARA)                                                                                                               | QTS-04   | Mechanisms exist to perform a Cryptographic Agility Risk Assessment (CARA) that analyzes Technology Assets, Applications, Services and Data (TAASD) to:<br>(1) Identify TAASD most vulnerable to quantum-enabled cryptanalytic threats; and<br>(2) Prioritize TAASD based on potential business impact.                                                                                                                                                                                              | 3                        |       | QTS-02       |
| CRY-01.03AC                                                                                         | Policy for the Use of Cryptographic Mechanisms             | The PQC strategy, including the inventory and risk assessment, is reviewed at least annually or in case of significant changes impacting the PQC strategy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Post-Quantum Cryptography Agility Plan (PQCAP)                                                                                                             | QTS-06   | Mechanisms exist to develop a risk-prioritized Post-Quantum Cryptography Agility Plan (PQCAP) that:<br>(1) Enables cryptographic agility;<br>(2) Aligns with evolving security standards; and<br>(3) Defines the approach for selecting and implementing PQC algorithms.                                                                                                                                                                                                                             | 5                        |       | QTS-03       |
| CRY-02.01B                                                                                          | Cryptographic Change Management                            | When implementing changes to cryptographic systems, the cloud service provider performs an evaluation of their potential impact in accordance with DEV-06. This process includes an analysis of the cloud infrastructure of the cloud service, as well as an analysis of potential disruptions to cloud service customer-managed workloads and the evaluation of residual risks, cost implications, and integration benefits. The cloud service provider informs cloud service customers of these downstream effects to prevent unforeseen failures within the cloud service customer's specific cryptographic implementations. | Functional     | Intersects With   | Security Impact Analysis for Changes                                                                                                                       | CHG-06   | Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | CHG-03       |
| CRY-02.01B                                                                                          | Cryptographic Change Management                            | When implementing changes to cryptographic systems, the cloud service provider performs an evaluation of their potential impact in accordance with DEV-06. This process includes an analysis of the cloud infrastructure of the cloud service, as well as an analysis of potential disruptions to cloud service customer-managed workloads and the evaluation of residual risks, cost implications, and integration benefits. The cloud service provider informs cloud service customers of these downstream effects to prevent unforeseen failures within the cloud service customer's specific cryptographic implementations. | Functional     | Intersects With   | Use of Cryptographic Controls                                                                                                                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.                                                                                                                                                                                                                                                                                                                                         | 3                        |       | CRY-01       |
| CRY-02.02B                                                                                          | Cryptographic Change Management                            | All changes and adjustments to cryptographic systems are documented and traceable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Configuration Change Control                                                                                                                               | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | CHG-02       |
| CRY-02.03B                                                                                          | Cryptographic Change Management                            | The personnel responsible for cryptographic systems is regularly trained and informed about respective changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training                                                                                                      | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training:<br>(1) Before authorizing access to the system or performing assigned duties;<br>(2) When required by system changes; and<br>(3) Annually thereafter.                                                                                                                                                                                                                                                   | 5                        |       | SAT-03       |
| CRY-03.01B                                                                                          | Review of Cryptography Practices                           | The cloud service provider ensures that encryption, authentication and key management practices are regularly audited in accordance with COM-02 and COM-03 to identify and address potential vulnerabilities. At a minimum, reviews are performed annually and immediately following security incidents involving cryptographic components.                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Functional Review Of Security, Compliance & Resilience Controls                                                                                            | CPL-05.1 | Mechanisms exist to regularly review Technology Assets, Applications and/or Services (TAAS) for adherence to the organization's security, compliance and/or resilience policies and standards.                                                                                                                                                                                                                                                                                                       | 5                        |       | CPL-03.2     |
| CRY-03.01B                                                                                          | Review of Cryptography Practices                           | The cloud service provider ensures that encryption, authentication and key management practices are regularly audited in accordance with COM-02 and COM-03 to identify and address potential vulnerabilities. At a minimum, reviews are performed annually and immediately following security incidents involving cryptographic components.                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Cryptographic Cipher Suites and Protocols Inventory                                                                                                        | CRY-04   | Mechanisms exist to identify, document and review deployed cryptographic cipher suites and protocols to proactively respond to industry trends regarding the continued viability of utilized cryptographic cipher suites and protocols.                                                                                                                                                                                                                                                              | 5                        |       | CRY-01.5     |
| CRY-03.02B                                                                                          | Review of Cryptography Practices                           | As part of the reviews, the cloud service provider determines if the cryptographic practices align with the state of the art and updates them as needed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Cryptographic Cipher Suites and Protocols Inventory                                                                                                        | CRY-04   | Mechanisms exist to identify, document and review deployed cryptographic cipher suites and protocols to proactively respond to industry trends regarding the continued viability of utilized cryptographic cipher suites and protocols.                                                                                                                                                                                                                                                              | 5                        |       | CRY-01.5     |
| CRY-04.01B                                                                                          | Protection of Data for Transmission (Transport Protection) | The cloud service provider has established procedures and technical safeguards for state of the art encryption and authentication for the transmission of cloud service customer data and cloud service derived data over public networks.                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Encrypting Data In Transit                                                                                                                                 | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                                                                                                                                                                                                                                            | 8                        |       | CRY-03       |
| CRY-04.01B                                                                                          | Protection of Data for Transmission (Transport Protection) | The cloud service provider has established procedures and technical safeguards for state of the art encryption and authentication for the transmission of cloud service customer data and cloud service derived data over public networks.                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Integrity of Data In Transit                                                                                                                               | CRY-06   | Cryptographic mechanisms exist to detect unauthorized changes to data in transit.                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CRY-04       |
| CRY-04.02B                                                                                          | Protection of Data for Transmission (Transport Protection) | During remote access to the production environment, the cloud service provider uses state of the art cryptographic mechanisms, including personnel authentication, to protect the communication.                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Non-Console Administrative Access                                                                                                                          | CFG-04.7 | Cryptographic mechanisms exist to protect the confidentiality and integrity of non-console administrative access.                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CRY-06       |
| CRY-04.02B                                                                                          | Protection of Data for Transmission (Transport Protection) | During remote access to the production environment, the cloud service provider uses state of the art cryptographic mechanisms, including personnel authentication, to protect the communication.                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Remote Access Cryptographic Protections                                                                                                                    | NET-26.5 | Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | NET-14.2     |
| CRY-04.01AS                                                                                         | Protection of Data for Transmission (Transport Protection) | CRY-04.01AS, sharpening CRY-04.01B<br>The cloud service provider has established procedures and technical safeguards for state of the art encryption and authentication for the transmission of all data.                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Encrypting Data In Transit                                                                                                                                 | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                                                                                                                                                                                                                                            | 8                        |       | CRY-03       |
| CRY-04.01AS                                                                                         | Protection of Data for Transmission (Transport Protection) | CRY-04.01AS, sharpening CRY-04.01B<br>The cloud service provider has established procedures and technical safeguards for state of the art encryption and authentication for the transmission of all data.                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Integrity of Data In Transit                                                                                                                               | CRY-06   | Cryptographic mechanisms exist to detect unauthorized changes to data in transit.                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CRY-04       |
| CRY-05.01B                                                                                          | Encryption of Sensitive Data at Rest                       | The cloud service provider has established procedures and technical safeguards to encrypt cloud service customer data during storage (i.e. at rest).                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Encrypting Data At Rest                                                                                                                                    | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                                                                                                                                                                                                                               | 8                        |       | CRY-05       |
| CRY-05.02B                                                                                          | Encryption of Sensitive Data at Rest                       | In general, the private keys (for asymmetric algorithms) or secret keys (for symmetric algorithms) used for encryption are accessible only by the cloud service customer in accordance with applicable legal and regulatory obligations and requirements. If due to the nature of the cloud service, the cloud service provider has to access the private or secret keys of the customer in order to provide the cloud service, this access is performed in accordance with IAM-07. Exceptions follow a specified procedure.                                                                                                    | Functional     | Intersects With   | Cryptographic Key Management                                                                                                                               | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | CRY-09       |
| CRY-05.02B                                                                                          | Encryption of Sensitive Data at Rest                       | In general, the private keys (for asymmetric algorithms) or secret keys (for symmetric algorithms) used for encryption are accessible only by the cloud service customer in accordance with applicable legal and regulatory obligations and requirements. If due to the nature of the cloud service, the cloud service provider has to access the private or secret keys of the customer in order to provide the cloud service, this access is performed in accordance with IAM-07. Exceptions follow a specified procedure.                                                                                                    | Functional     | Intersects With   | External System Cryptographic Key Control                                                                                                                  | CRY-10.7 | Mechanisms exist to maintain control of cryptographic keys for encrypted material stored or transmitted through an external system.                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | CRY-09.7     |

| FDE #        | FDE Name                             | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                    | STRM Rationale | STRM Relationship | SCF Control                                                            | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                   | Strength of Relationship | Notes | Legacy SCF # |
|--------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| CRY-05.03B   | Encryption of Sensitive Data at Rest | The procedures for the use of private keys, including any exceptions, are agreed with the cloud service customer.                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Third-Party Cryptographic Keys                                         | CRY-10.6 | Mechanisms exist to ensure customers are provided with appropriate key management guidance whenever cryptographic keys are shared.                                                                                                                                                                                                                                                    | 5                        |       | CRY-09.6     |
| CRY-05.04B   | Encryption of Sensitive Data at Rest | If any changes of these procedures and technical safeguards may affect the confidentiality of the cloud service customer data, the cloud service provider communicates these changes to the cloud service                                                                                                                                                                                                   | Functional     | Intersects With   | Stakeholder Notification of Changes                                    | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                              | 5                        |       | CHG-05       |
| CRY-05.05B   | Encryption of Sensitive Data at Rest | If the cloud service provider uses a master key, the cloud service provider regularly tests the suitability of the design and operating effectiveness of the respective controls.                                                                                                                                                                                                                           | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 3                        |       | CRY-09       |
| CRY-05.05B   | Encryption of Sensitive Data at Rest | If the cloud service provider uses a master key, the cloud service provider regularly tests the suitability of the design and operating effectiveness of the respective controls.                                                                                                                                                                                                                           | Functional     | Intersects With   | Control Validation Testing (CVT)                                       | IAO-04   | Mechanisms exist to formally assess the security, compliance and resilience controls in Technology Assets, Applications and/or Services (TAAS) through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements. | 3                        |       | IAO-02       |
| CRY-05.01AC  | Encryption of Sensitive Data at Rest | The cloud service provider ensures that secure encryption mechanisms are in place to prevent the recovery of cloud service customer data when resources are reallocated or physical media are recovered.                                                                                                                                                                                                    | Functional     | Intersects With   | Encrypting Data At Rest                                                | CRY-07   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data at rest.                                                                                                                                                                                                                                                                                                | 3                        |       | CRY-05       |
| CRY-05.01AC  | Encryption of Sensitive Data at Rest | The cloud service provider ensures that secure encryption mechanisms are in place to prevent the recovery of cloud service customer data when resources are reallocated or physical media are recovered.                                                                                                                                                                                                    | Functional     | Intersects With   | Digital Media Sanitization                                             | DCH-18   | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                                      | 5                        |       | DCH-09       |
| CRY-06.01B   | Secure Key Generation                | Procedures and technical safeguards for the secure generation of keys for different cryptographic systems and applications are documented and implemented. These safeguards require the use of secure random bit generators or generation based on keys that were created in this fashion.                                                                                                                  | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-06.01B   | Secure Key Generation                | Procedures and technical safeguards for the secure generation of keys for different cryptographic systems and applications are documented and implemented. These safeguards require the use of secure random bit generators or generation based on keys that were created in this fashion.                                                                                                                  | Functional     | Intersects With   | Entropy Source & Random Bit Generation                                 | QTS-09.1 | Mechanisms exist to use validated entropy sources and random bit generators that comply with NIST SP 800-90B to support Post-Quantum Cryptography (PQC):<br>(1) Key generation;<br>(2) Nonce generation;<br>(3) Probabilistic algorithm inputs; and<br>(4) Key validation.                                                                                                            | 5                        |       | QTS-06.1     |
| CRY-07.01B   | Rotation of Cryptographic Keys       | The cloud service provider has established a schedule for rotating cryptographic keys that aligns with the requirements for cryptographic key rotation established in CRY-01. If, based on the results of a risk assessment, the cloud service provider does not perform key rotation, this decision is transparently communicated to the customer.                                                         | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-08.01B   | Public-Key Certificate Issuance      | The cloud service provider has documented and implemented procedures to securely issue and obtain public-key certificates, ensuring the integrity and authenticity of cryptographic keys. These procedures include:                                                                                                                                                                                         | Functional     | Intersects With   | Public Key Infrastructure (PKI)                                        | CRY-09   | Mechanisms exist to securely implement an internal Public Key Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service provider.                                                                                                                                                                                                                       | 8                        |       | CRY-08       |
| CRY-08.01B.1 | Public-Key Certificate Issuance      | Verification of identity before issuing public-key certificates that are issued by or on behalf of the cloud service provider for its own system components or personnel to ensure they are granted to legitimate entities;                                                                                                                                                                                 | Functional     | Intersects With   | Public Key Infrastructure (PKI)                                        | CRY-09   | Mechanisms exist to securely implement an internal Public Key Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service provider.                                                                                                                                                                                                                       | 5                        |       | CRY-08       |
| CRY-08.01B.1 | Public-Key Certificate Issuance      | Verification of identity before issuing public-key certificates that are issued by or on behalf of the cloud service provider for its own system components or personnel to ensure they are granted to legitimate entities;                                                                                                                                                                                 | Functional     | Intersects With   | Identity Proofing (Identity Verification)                              | IAC-05   | Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.                                                                                                                                                                                                                                                                      | 3                        |       | IAC-28       |
| CRY-08.01B.2 | Public-Key Certificate Issuance      | Secure methods for issuing certificates that are issued by or on behalf of the cloud service provider for its own system components or personnel to prevent unauthorised access; and                                                                                                                                                                                                                        | Functional     | Intersects With   | Public Key Infrastructure (PKI)                                        | CRY-09   | Mechanisms exist to securely implement an internal Public Key Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service                                                                                                                                                                                                                                 | 5                        |       | CRY-08       |
| CRY-08.01B.3 | Public-Key Certificate Issuance      | Procedures for obtaining public-key certificates from trusted Certificate Authorities to ensure the authenticity of the certificates used by the cloud service provider.                                                                                                                                                                                                                                    | Functional     | Intersects With   | Certificate Authorities                                                | CRY-12   | Automated mechanisms exist to enable the use of organization-defined Certificate Authorities (CAs) to facilitate the establishment of protected sessions.                                                                                                                                                                                                                             | 5                        |       | CRY-11       |
| CRY-09.01B   | Secure Key Provisioning              | The cloud service provider has documented and implemented procedures and technical safeguards to ensure that cryptographic keys are provisioned and activated securely within its area of responsibility. These procedures include the verification of identity and authorisation before provisioning and activating keys to ensure they are granted to legitimate entities.                                | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-09.01B   | Secure Key Provisioning              | The cloud service provider has documented and implemented procedures and technical safeguards to ensure that cryptographic keys are provisioned and activated securely within its area of responsibility. These procedures include the verification of identity and authorisation before provisioning and activating keys to ensure they are granted to legitimate entities.                                | Functional     | Intersects With   | Control & Distribution of Cryptographic Keys                           | CRY-10.4 | Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric cryptographic keys using industry recognized key management technology and processes.                                                                                                                                                                                                              | 5                        |       | CRY-09.4     |
| CRY-09.02B   | Secure Key Provisioning              | Provisioned keys include activation and deactivation dates to ensure that their use is time limited.                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 3                        |       | CRY-09       |
| CRY-10.01B   | Secure Storage of Keys               | The cloud service provider has documented and implemented technical safeguards for the secure storage of cryptographic keys. This includes ensuring separation of the key management system from the application and middleware layers, defining how authorised users gain access and addressing the geographic residency of keys to comply with contractual, legal, regulatory, and security requirements. | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-10.01B   | Secure Storage of Keys               | The cloud service provider has documented and implemented technical safeguards for the secure storage of cryptographic keys. This includes ensuring separation of the key management system from the application and middleware layers, defining how authorised users gain access and addressing the geographic residency of keys to comply with contractual, legal, regulatory, and security requirements. | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations | DCH-30.1 | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                                                                                                                                                          | 3                        |       | CLD-09       |
| CRY-10.01AC  | Secure Storage of Keys               | Based on a risk assessment (cf. OIS-07), the cloud service provider uses a suitable software or hardware security module for the secure storage of cryptographic keys.                                                                                                                                                                                                                                      | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-11.01B   | Cryptographic Key Archival           | The cloud service provider has documented and implemented procedures and technical safeguards for the secure archiving of cryptographic keys. These include:                                                                                                                                                                                                                                                | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 5                        |       | CRY-09       |
| CRY-11.01B.1 | Cryptographic Key Archival           | Storage of archived keys in a repository to prevent unauthorised access;                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 3                        |       | CRY-09       |
| CRY-11.01B.2 | Cryptographic Key Archival           | Restriction of access to archived keys to authorised personnel based on the principle of least privilege;                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 3                        |       | CRY-09       |
| CRY-11.01B.2 | Cryptographic Key Archival           | Restriction of access to archived keys to authorised personnel based on the principle of least privilege;                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Least Privilege                                                        | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business                                                                                                                                                                                            | 3                        |       | IAC-21       |
| CRY-11.01B.3 | Cryptographic Key Archival           | Support of later recovery of information through archived keys;                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Cryptographic Key Loss or Change                                       | CRY-10.3 | Mechanisms exist to ensure the availability of information in the event of the loss of cryptographic keys by individual users.                                                                                                                                                                                                                                                        | 5                        |       | CRY-09.3     |
| CRY-11.01B.4 | Cryptographic Key Archival           | Retention of archived keys only for as long as needed and secure destruction afterwards; and                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Cryptographic Key Management                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                              | 3                        |       | CRY-09       |
| CRY-11.01B.4 | Cryptographic Key Archival           | Retention of archived keys only for as long as needed and secure destruction afterwards; and                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                                   | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                     | 3                        |       | DCH-21       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document:                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Secure Controls Framework (SCF) version 2026.3                                                      |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document URL:                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Published STRM URL:                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                               |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                  | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |  |
| CRY-11.01B.5                                                                                        | Cryptographic Key Archival                | Logging of all activities related to the storage and recovery of archived keys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Content of Event Logs                     | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |  |
| CRY-12.01B                                                                                          | Cryptographic Key Transition Management   | The cloud service provider has documented and implemented procedures to oversee the transition of cryptographic keys, including their movement into and out of suspension. These procedures ensure that all key transitions are thoroughly monitored, reviewed, and approved to maintain security and comply with applicable laws and regulations.                                                                                                                                                                                                                                           | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 5                        |       | CRY-09       |  |
| CRY-13.01B                                                                                          | Handling of Compromised Keys              | The cloud service provider manages the use of compromised cryptographic keys to ensure they are only used in controlled circumstances and solely for decryption or verification (in case of signature keys), while complying with legal and regulatory                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 5                        |       | CRY-09       |  |
| CRY-13.02B                                                                                          | Handling of Compromised Keys              | The cloud service provider notifies affected cloud service customers without undue delay that their keys have been compromised and will no longer be used for encryption or signing.                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Incident Stakeholder Reporting            | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                                                                                                                                                                                                         | 5                        |       | IRO-10       |  |
| CRY-14.01B                                                                                          | Secure Deactivation of Cryptographic Keys | The cloud service provider has documented and implemented procedures to deactivate cryptographic keys. These procedures ensure that:                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 5                        |       | CRY-09       |  |
| CRY-14.01B.1                                                                                        | Secure Deactivation of Cryptographic Keys | Expired keys are no longer used for encryption purposes, but may still be used for decryption if necessary;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09       |  |
| CRY-14.01B.2                                                                                        | Secure Deactivation of Cryptographic Keys | Expired keys are no longer used for signature creation, but may still be used for signature verification;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09       |  |
| CRY-14.01B.3                                                                                        | Secure Deactivation of Cryptographic Keys | Deactivated keys are eventually destroyed when they are no longer required, with relevant metadata retained for auditing; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09       |  |
| CRY-14.01B.3                                                                                        | Secure Deactivation of Cryptographic Keys | Deactivated keys are eventually destroyed when they are no longer required, with relevant metadata retained for auditing; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Digital & Non-Digital Media Disposal      | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                                                                            | 3                        |       | DCH-21       |  |
| CRY-14.01B.4                                                                                        | Secure Deactivation of Cryptographic Keys | All actions related to key deactivation and destruction are recorded in the key management system to maintain a detailed audit log.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Content of Event Logs                     | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |  |
| CRY-15.01B                                                                                          | Requirements for Pre-Shared Keys          | If pre-shared keys or wildcard certificates are used, the cloud service provider has documented and implemented dedicated procedures and technical safeguards to ensure their secure use and provisioning.                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09       |  |
| CRY-15.01B                                                                                          | Requirements for Pre-Shared Keys          | If pre-shared keys or wildcard certificates are used, the cloud service provider has documented and implemented dedicated procedures and technical safeguards to ensure their secure use and provisioning.                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Certificate Monitoring                    | CRY-13   | Automated mechanisms exist to discover when new certificates are issued for organization-controlled domains.                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | CRY-12       |  |
| CRY-16.01B                                                                                          | Operational Continuity for Key Management | The cloud service provider has assessed the balance between conducting backups of key material stored in a Hardware Security Module (HSM) for key restoration and building redundancy or comparable measures for securing keys to ensure operational continuity. This assessment includes evaluating the risk of key exposure if control over the key material is lost. Decisions regarding whether to use the backups of keys or to establish redundancy are documented, and the chosen measures are reviewed for their effectiveness and compliance with contractual, legal and regulatory | Functional     | Intersects With   | Data Backups                              | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                               | 3                        |       | BCD-11       |  |
| CRY-16.01B                                                                                          | Operational Continuity for Key Management | The cloud service provider has assessed the balance between conducting backups of key material stored in a Hardware Security Module (HSM) for key restoration and building redundancy or comparable measures for securing keys to ensure operational continuity. This assessment includes evaluating the risk of key exposure if control over the key material is lost. Decisions regarding whether to use the backups of keys or to establish redundancy are documented, and the chosen measures are reviewed for their effectiveness and compliance with contractual, legal and regulatory | Functional     | Intersects With   | Cryptographic Key Loss or Change          | CRY-10.3 | Mechanisms exist to ensure the availability of information in the event of the loss of cryptographic keys by individual users.                                                                                                                                                                                                                                                                                                                               | 5                        |       | CRY-09.3     |  |
| CRY-16.02B                                                                                          | Operational Continuity for Key Management | Procedures for the recovery of lost or corrupted keys are in place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Cryptographic Key Loss or Change          | CRY-10.3 | Mechanisms exist to ensure the availability of information in the event of the loss of cryptographic keys by individual users.                                                                                                                                                                                                                                                                                                                               | 8                        |       | CRY-09.3     |  |
| CRY-17.01B                                                                                          | Cryptographic Key Lifecycle Management    | The cloud service provider has documented and implemented procedures and technical safeguards to monitor and document the lifecycle of cryptographic keys and materials.                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 5                        |       | CRY-09       |  |
| CRY-17.01B                                                                                          | Cryptographic Key Lifecycle Management    | The cloud service provider has documented and implemented procedures and technical safeguards to monitor and document the lifecycle of cryptographic keys and materials.                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Cryptographic Bill of Materials (CBOM)    | TDA-21.1 | Mechanisms exist to develop and maintain a Cryptographic Bill of Materials (CBOM) by analyzing the organization's cryptographic architecture, including:<br>(1) Hardware;<br>(2) Firmware;<br>(3) Software modules; and<br>(4) Communication protocols.                                                                                                                                                                                                      | 3                        |       | QTS-04.2     |  |
| CRY-17.02B                                                                                          | Cryptographic Key Lifecycle Management    | For all keys except for ephemeral keys, the aforementioned safeguards ensure detailed records of each key from creation to destruction, including any status changes.                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Cryptographic Key Management              | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09       |  |
| CRY-18.01B                                                                                          | Usage of External Key Management Systems  | In the case that external key management systems (KMS) are integrated into the service, the cloud service provider ensures that the procedures and technical safeguards for the usage of external key management systems (KMS) are established. The following aspects are taken into account:                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | External System Cryptographic Key Control | CRY-10.7 | Mechanisms exist to maintain control of cryptographic keys for encrypted material stored or transmitted through an external system.                                                                                                                                                                                                                                                                                                                          | 5                        |       | CRY-09.7     |  |
| CRY-18.01B                                                                                          | Usage of External Key Management Systems  | In the case that external key management systems (KMS) are integrated into the service, the cloud service provider ensures that the procedures and technical safeguards for the usage of external key management systems (KMS) are established. The following aspects are taken into account:                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Third-Party Services                      | TPM-12   | Mechanisms exist to mitigate the risks associated with third-party access to the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                                               | 3                        |       | TPM-04       |  |
| CRY-18.01B.1                                                                                        | Usage of External Key Management Systems  | The external KMS have recognised security certifications that reflect the state of the art to comply with legal, regulatory and contractual requirements;                                                                                                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Attestation (3PA)             | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors.                                                                                                                    | 5                        |       | TPM-05.8     |  |
| CRY-18.01B.2                                                                                        | Usage of External Key Management Systems  | The integration of the external KMS into the cloud infrastructure is secure to ensure the confidentiality, integrity, and availability of the keys;                                                                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | External System Cryptographic Key Control | CRY-10.7 | Mechanisms exist to maintain control of cryptographic keys for encrypted material stored or transmitted through an external system.                                                                                                                                                                                                                                                                                                                          | 5                        |       | CRY-09.7     |  |
| CRY-18.01B.3                                                                                        | Usage of External Key Management Systems  | Strict access control are implemented to ensure that only authorised users and systems can access the keys (cf. IAM-01);                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Access Enforcement                        | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                                                                                                                                                                                     | 5                        |       | IAC-20       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
| FDE #                                                                                               | FDE Name                                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                                                                                                            | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |
| CRY-18.01B.4                                                                                        | Usage of External Key Management Systems                                      | Procedures for the regular rotation and renewal of keys are defined and implemented to ensure the security of the keys (cf. CRY-07);                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Cryptographic Key Management                                                                                                           | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                     | 5                        |       | CRY-09       |
| CRY-18.01B.5                                                                                        | Usage of External Key Management Systems                                      | All accesses and operations on the external KMS are logged and monitored to detect and respond to suspicious activities; and                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Content of Event Logs                                                                                                                  | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 5                        |       | MON-03       |
| CRY-18.01B.6                                                                                        | Usage of External Key Management Systems                                      | The cloud service provider ensures that the external KMS is regularly checked for vulnerabilities (cf. OPS-25) and updated (cf. OPS-28) to meet current threats and technological developments.                                                                                                                                                                                                           | Functional     | Intersects With   | Software & Firmware Patching                                                                                                           | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                                                                                                                                                                                   | 3                        |       | VPM-05       |
| CRY-18.01B.6                                                                                        | Usage of External Key Management Systems                                      | The cloud service provider ensures that the external KMS is regularly checked for vulnerabilities (cf. OPS-25) and updated (cf. OPS-28) to meet current threats and technological developments.                                                                                                                                                                                                           | Functional     | Intersects With   | Vulnerability Scanning                                                                                                                 | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                                                                                                                                                                                                           | 5                        |       | VPM-06       |
| CRY-19.01B                                                                                          | Secure Handling of Customer Managed Keys                                      | The cloud service provider implements procedures and technical safeguards to ensure the secure handling of cryptographic keys managed by cloud service customers. In these procedures, the following aspects are considered:                                                                                                                                                                              | Functional     | Intersects With   | Third-Party Cryptographic Keys                                                                                                         | CRY-10.6 | Mechanisms exist to ensure customers are provided with appropriate key management guidance whenever cryptographic keys are shared.                                                                                                                                                                                                                                                                                                                           | 5                        |       | CRY-09.6     |
| CRY-19.01B.1                                                                                        | Secure Handling of Customer Managed Keys                                      | Secure integration of customer-generated keys ("Bring-Your-Own-Key"; BYOK) into the cloud environment;                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Control & Distribution of Cryptographic Keys                                                                                           | CRY-10.4 | Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric cryptographic keys using industry recognized key management technology and processes.                                                                                                                                                                                                                                                                                     | 3                        |       | CRY-09.4     |
| CRY-19.01B.1                                                                                        | Secure Handling of Customer Managed Keys                                      | Secure integration of customer-generated keys ("Bring-Your-Own-Key"; BYOK) into the cloud environment;                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Cryptographic Keys                                                                                                         | CRY-10.6 | Mechanisms exist to ensure customers are provided with appropriate key management guidance whenever cryptographic keys are shared.                                                                                                                                                                                                                                                                                                                           | 5                        |       | CRY-09.6     |
| CRY-19.01B.2                                                                                        | Secure Handling of Customer Managed Keys                                      | Logging of all activities related to customer-managed keys; and                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Content of Event Logs                                                                                                                  | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 5                        |       | MON-03       |
| CRY-19.01B.3                                                                                        | Secure Handling of Customer Managed Keys                                      | Definition of access control mechanisms to enable that only authorised users can gain access to customer-managed keys.                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Access Enforcement                                                                                                                     | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                                                                                                                                                                                     | 5                        |       | IAC-20       |
| 5.9                                                                                                 | Communication Security (COS)                                                  | Objective: Ensure the protection of information in networks and the corresponding information processing systems<br>Based on the results of a risk assessment carried out according to OIS-07, the cloud service provider has implemented technical safeguards which are suitable to timely detect and respond to attacks on the network of system components used for provisioning of the cloud service. | Functional     | No Relationship   | N/A                                                                                                                                    | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                        |       |              |
| COS-01.01B                                                                                          | Technical Safeguards                                                          | Based on the results of a risk assessment carried out according to OIS-07, the cloud service provider has implemented technical safeguards which are suitable to timely detect and respond to attacks on the network of system components used for provisioning of the cloud service.                                                                                                                     | Functional     | Intersects With   | Network Intrusion Detection & Prevention Systems (NIDS & NIPS) Monitoring                                                              | MON-23   | Mechanisms exist to monitor Network Intrusion Detection / Prevention Systems (NIDS / NIPS) technologies on critical systems, key network segments and network choke points.                                                                                                                                                                                                                                                                                  | 5                        |       | MON-01.1     |
| COS-01.01B                                                                                          | Technical Safeguards                                                          | Based on the results of a risk assessment carried out according to OIS-07, the cloud service provider has implemented technical safeguards which are suitable to timely detect and respond to attacks on the network of system components used for provisioning of the cloud service.                                                                                                                     | Functional     | Intersects With   | Network Intrusion Detection / Prevention Systems (NIDS / NIPS)                                                                         | NET-31   | Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.                                                                                                                                                                                                                                                                                                                | 5                        |       | NET-08       |
| COS-01.02B                                                                                          | Technical Safeguards                                                          | For these technical safeguards, preventive and protective measures are implemented at multiple tiers (defence in depth) within the cloud service to mitigate the risk of breaching the deployed defensive system. This includes network-based cyber attacks such as:                                                                                                                                      | Functional     | Intersects With   | Defense-In-Depth (DiD) Architecture                                                                                                    | SEA-06   | Mechanisms exist to implement security functions as a layered structure minimizing interactions between layers of the design and avoiding any dependence by lower layers on the functionality or correctness of higher layers.                                                                                                                                                                                                                               | 5                        |       | SEA-03       |
| COS-01.02B.1                                                                                        | Technical Safeguards                                                          | Attacks on the basis of irregular incoming or outgoing traffic patterns;                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Inbound & Outbound Communications Traffic                                                                                              | MON-22   | Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.                                                                                                                                                                                                                                                                                                                   | 5                        |       | MON-01.3     |
| COS-01.02B.2                                                                                        | Technical Safeguards                                                          | Distributed Denial-of-Service (DDoS) attacks;                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Denial of Service (DoS) Protection                                                                                                     | NET-21   | Automated mechanisms exist to protect against or limit the effects of denial of service attacks.                                                                                                                                                                                                                                                                                                                                                             | 8                        |       | NET-02.1     |
| COS-01.02B.3                                                                                        | Technical Safeguards                                                          | Spoofing attacks;                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Replay-Resistant Authentication                                                                                                        | IAC-03.1 | Automated mechanisms exist to employ replay-resistant authentication.                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | IAC-02.2     |
| COS-01.02B.3                                                                                        | Technical Safeguards                                                          | Spoofing attacks;                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Network Intrusion Detection / Prevention Systems (NIDS / NIPS)                                                                         | NET-31   | Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.                                                                                                                                                                                                                                                                                                                | 3                        |       | NET-08       |
| COS-01.02B.4                                                                                        | Technical Safeguards                                                          | Code injection attacks;                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Web Application Firewall (WAF)                                                                                                         | NET-34   | Mechanisms exist to deploy Web Application Firewalls (WAFs) to provide defense-in-depth protection for application-specific threats.                                                                                                                                                                                                                                                                                                                         | 5                        |       | WEB-03       |
| COS-01.02B.4                                                                                        | Technical Safeguards                                                          | Code injection attacks;                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Malformed Input Testing                                                                                                                | TDA-17.3 | Mechanisms exist to utilize testing methods to ensure Technology Assets, Applications and/or Services (TAAS) continue to operate as intended when subject to invalid or unexpected inputs on its                                                                                                                                                                                                                                                             | 3                        |       | TDA-09.4     |
| COS-01.02B.5                                                                                        | Technical Safeguards                                                          | DNS tunneling; and                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | DNS & Content Filtering                                                                                                                | NET-17   | Mechanisms exist to force Internet-bound network traffic through a proxy device (e.g., Policy Enforcement Point (PEP)) for URL content filtering and DNS filtering to limit a user's ability to connect to dangerous or prohibited Internet sites.                                                                                                                                                                                                           | 5                        |       | NET-18       |
| COS-01.02B.6                                                                                        | Technical Safeguards                                                          | IoT attacks targeting devices within a network.                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Embedded Technology Security Program                                                                                                   | EMB-02   | Mechanisms exist to facilitate the implementation of embedded technology controls.                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | EMB-01       |
| COS-01.02B.6                                                                                        | Technical Safeguards                                                          | IoT attacks targeting devices within a network.                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Network Intrusion Detection / Prevention Systems (NIDS / NIPS)                                                                         | NET-31   | Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.                                                                                                                                                                                                                                                                                                                | 3                        |       | NET-08       |
| COS-01.03B                                                                                          | Technical Safeguards                                                          | Data from corresponding technical safeguards implemented (cloud service provider data) is fed into the organisation's SIEM system (cf. OPS-13), so that (counter-) measures regarding correlating events can be initiated. The safeguards are documented, communicated and provided in accordance with SP-01.                                                                                             | Functional     | Intersects With   | Centralized Collection of Event Logs & Security-Relevant Telemetry                                                                     | MON-05   | Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support the centralized collection of event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                        | 5                        |       | MON-02       |
| COS-01.01AC                                                                                         | Technical Safeguards                                                          | Technical safeguards ensure that no unknown (physical or virtual) devices join the cloud service provider's (physical or virtual) network.                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Network Access Control (NAC)                                                                                                           | NET-16   | Automated mechanisms exist to employ Network Access Control (NAC), or a similar technology, which is capable of detecting unauthorized devices and disable network access to those unauthorized devices.                                                                                                                                                                                                                                                     | 8                        |       | AST-02.5     |
| COS-02.01B                                                                                          | Security Requirements for Connections in the Cloud Service Provider's Network | Specific security requirements are designed, documented and provided for establishing connections within the cloud service provider's network. The security requirements define for the cloud service provider's area of responsibility:                                                                                                                                                                  | Functional     | Intersects With   | Network Security Controls (NSC)                                                                                                        | NET-02   | Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).                                                                                                                                                                                                                                                                                                                                 | 5                        |       | NET-01       |
| COS-02.01B                                                                                          | Security Requirements for Connections in the Cloud Service Provider's Network | Specific security requirements are designed, documented and provided for establishing connections within the cloud service provider's network. The security requirements define for the cloud service provider's area of responsibility:                                                                                                                                                                  | Functional     | Intersects With   | Defense-In-Depth (DiD) Architecture                                                                                                    | SEA-06   | Mechanisms exist to implement security functions as a layered structure minimizing interactions between layers of the design and avoiding any dependence by lower layers on the functionality or correctness of higher layers.                                                                                                                                                                                                                               | 3                        |       | NET-02       |
| COS-02.01B.1                                                                                        | Security Requirements for Connections in the Cloud Service Provider's Network | In which cases the security zones are to be separated and in which cases cloud service customers are to be logically or physically separated;                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Multi-Tenant Environments                                                                                                              | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                                                                    | 3                        |       | CLD-06       |
| COS-02.01B.1                                                                                        | Security Requirements for Connections in the Cloud Service Provider's Network | In which cases the security zones are to be separated and in which cases cloud service customers are to be logically or physically separated;                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                                                                                               | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                                                                                                                                                                                              | 5                        |       | NET-06       |

| FDE #        | FDE Name                                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                   | STRM Rationale | STRM Relationship | SCF Control                                                     | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
|--------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| COS-02.01B.2 | Security Requirements for Connections in the Cloud Service Provider's Network | Which communication relationships and which network and application protocols are permitted in each case;                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Least Functionality                                             | CFG-03   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or                                                                                                                                | 3                        |       | CFG-03       |
| COS-02.01B.2 | Security Requirements for Connections in the Cloud Service Provider's Network | Which communication relationships and which network and application protocols are permitted in each case;                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Data Flow Enforcement – Access Control Lists (ACLs)             | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                                                                                | 5                        |       | NET-04       |
| COS-02.01B.3 | Security Requirements for Connections in the Cloud Service Provider's Network | How the data traffic for administration and monitoring is separated from each on network level;                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Network Device Plane Segmentation                               | NET-09   | Automated mechanisms exist to separate network appliance functions (e.g., management, control and data planes) to prevent ordinary traffic from accessing functions that:<br>(1) Manage network appliances; and/or<br>(2) Affect network operations.                                                                                      | 5                        |       | NET-06.8     |
| COS-02.01B.4 | Security Requirements for Connections in the Cloud Service Provider's Network | How office networks are secured with firewalls and secure WIFI configurations as well as VPN for remote access;                                                                                                                                                                                                                                            | Functional     | Intersects With   | Wireless Access Authentication & Encryption                     | CFG-04.8 | Mechanisms exist to protect the confidentiality and integrity of wireless networking technologies by implementing authentication and strong encryption.                                                                                                                                                                                   | 3                        |       | CRY-07       |
| COS-02.01B.4 | Security Requirements for Connections in the Cloud Service Provider's Network | How office networks are secured with firewalls and secure WIFI configurations as well as VPN for remote access;                                                                                                                                                                                                                                            | Functional     | Intersects With   | Boundary Protection                                             | NET-03   | Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.                                                                                                                                                                                                | 5                        |       | NET-03       |
| COS-02.01B.4 | Security Requirements for Connections in the Cloud Service Provider's Network | How office networks are secured with firewalls and secure WIFI configurations as well as VPN for remote access;                                                                                                                                                                                                                                            | Functional     | Intersects With   | Remote Access                                                   | NET-26   | Mechanisms exist to define, control and review organization-approved, secure remote access methods.                                                                                                                                                                                                                                       | 3                        |       | NET-14       |
| COS-02.01B.5 | Security Requirements for Connections in the Cloud Service Provider's Network | Which internal, cross-partition communication is permitted; and                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Data Flow Enforcement – Access Control Lists (ACLs)             | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                                                                                | 3                        |       | NET-04       |
| COS-02.01B.6 | Security Requirements for Connections in the Cloud Service Provider's Network | Which cross-network communication is allowed.                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Data Flow Enforcement – Access Control Lists (ACLs)             | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                                                                                | 3                        |       | NET-04       |
| COS-02.01B.6 | Security Requirements for Connections in the Cloud Service Provider's Network | Which cross-network communication is allowed.                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Interconnection Security Agreements (ISAs)                      | NET-05   | Mechanisms exist to authorize connections from systems to other systems using Interconnection Security Agreements (ISAs), or similar methods, that document, for each interconnection:<br>(1) Interface characteristics;<br>(2) Security, compliance and resilience requirements; and;<br>(3) The nature of the information communicated. | 3                        |       | NET-05       |
| COS-03.01B   | Monitoring of Connections in the Cloud Service Provider's Network             | The cloud service provider distinguishes between trusted and untrusted networks. Based on a risk assessment according to OIS-07, these are separated into different security zones for internal and external network areas (and DMZ, if applicable).                                                                                                       | Functional     | Intersects With   | Limit Network Connections                                       | NET-03.1 | Mechanisms exist to limit the number of concurrent external network connections to its Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                            | 3                        |       | NET-03.1     |
| COS-03.01B   | Monitoring of Connections in the Cloud Service Provider's Network             | The cloud service provider distinguishes between trusted and untrusted networks. Based on a risk assessment according to OIS-07, these are separated into different security zones for internal and external network areas (and DMZ, if applicable).                                                                                                       | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                        | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                                                                           | 5                        |       | NET-06       |
| COS-03.01B   | Monitoring of Connections in the Cloud Service Provider's Network             | The cloud service provider distinguishes between trusted and untrusted networks. Based on a risk assessment according to OIS-07, these are separated into different security zones for internal and external network areas (and DMZ, if applicable).                                                                                                       | Functional     | Intersects With   | Demilitarized Zones (DMZ)                                       | NET-33   | Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized Technology Assets, Applications and/or Services (TAAS) on certain services, protocols and ports.                                                                                                                                         | 5                        |       | WEB-02       |
| COS-03.02B   | Monitoring of Connections in the Cloud Service Provider's Network             | Physical and virtualised network environments are designed and configured to restrict and monitor the established connection to trusted or untrusted networks according to the defined security requirements (cf. COS-02).                                                                                                                                 | Functional     | Intersects With   | Inbound & Outbound Communications Traffic                       | MON-22   | Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.                                                                                                                                                                                                | 3                        |       | MON-01.3     |
| COS-03.02B   | Monitoring of Connections in the Cloud Service Provider's Network             | Physical and virtualised network environments are designed and configured to restrict and monitor the established connection to trusted or untrusted networks according to the defined security requirements (cf. COS-02).                                                                                                                                 | Functional     | Intersects With   | Boundary Protection                                             | NET-03   | Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.                                                                                                                                                                                                | 5                        |       | NET-03       |
| COS-03.03B   | Monitoring of Connections in the Cloud Service Provider's Network             | The cloud service provider ensures that the configuration of networks matches the security requirements (cf. COS-02). The cloud service provider reviews at least annually and in case of significant changes to the cloud service the design and implementation of the configuration of the connections with regard to the defined security requirements. | Functional     | Intersects With   | Functional Review Of Security, Compliance & Resilience Controls | CPL-05.1 | Mechanisms exist to regularly review Technology Assets, Applications and/or Services (TAAS) for adherence to the organization's security, compliance and/or resilience policies and standards.                                                                                                                                            | 5                        |       | CPL-03.2     |
| COS-03.03B   | Monitoring of Connections in the Cloud Service Provider's Network             | The cloud service provider ensures that the configuration of networks matches the security requirements (cf. COS-02). The cloud service provider reviews at least annually and in case of significant changes to the cloud service the design and implementation of the configuration of the connections with regard to the defined security requirements. | Functional     | Intersects With   | Network Security Controls (NSC)                                 | NET-02   | Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).                                                                                                                                                                                                              | 3                        |       | NET-01       |
| COS-03.04B   | Monitoring of Connections in the Cloud Service Provider's Network             | Identified vulnerabilities and deviations are subject to risk assessment in accordance with the risk management procedure (cf. OIS-07) and follow-up measures are defined and tracked (cf. OPS-18).                                                                                                                                                        | Functional     | Intersects With   | Risk Assessment                                                 | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                     | 3                        |       | RSK-04       |
| COS-03.04B   | Monitoring of Connections in the Cloud Service Provider's Network             | Identified vulnerabilities and deviations are subject to risk assessment in accordance with the risk management procedure (cf. OIS-07) and follow-up measures are defined and tracked (cf. OPS-18).                                                                                                                                                        | Functional     | Intersects With   | Vulnerability Remediation Process                               | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                          | 3                        |       | VPM-02       |
| COS-03.05B   | Monitoring of Connections in the Cloud Service Provider's Network             | At specified intervals, the business justification for using all services, protocols, and ports is reviewed. The review also includes the justifications for compensatory measures for the use of protocols that are considered insecure.                                                                                                                  | Functional     | Intersects With   | Periodic Configuration Reviews                                  | CFG-08   | Mechanisms exist to periodically review Technology Assets, Applications and/or Services (TAAS) configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.                                                                                                                             | 5                        |       | CFG-03.1     |
| COS-03.05B   | Monitoring of Connections in the Cloud Service Provider's Network             | At specified intervals, the business justification for using all services, protocols, and ports is reviewed. The review also includes the justifications for compensatory measures for the use of protocols that are considered insecure.                                                                                                                  | Functional     | Intersects With   | Identification & Justification of Ports, Protocols & Services   | TDA-08.4 | Mechanisms exist to require developers and/or process owners to identify, document and justify the business need for the ports, protocols and other services necessary to operate their technology solutions.                                                                                                                             | 5                        |       | TDA-02.5     |
| COS-04.01B   | Cross-Network Access                                                          | Each network perimeter is controlled by security gateways.                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Boundary Protection                                             | NET-03   | Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.                                                                                                                                                                                                | 8                        |       | NET-03       |
| COS-04.02B   | Cross-Network Access                                                          | The system access authorisation for cross-network access is based on a security assessment based on the requirements of the cloud service customers.                                                                                                                                                                                                       | Functional     | Intersects With   | Interconnection Security Agreements (ISAs)                      | NET-05   | Mechanisms exist to authorize connections from systems to other systems using Interconnection Security Agreements (ISAs), or similar methods, that document, for each interconnection:<br>(1) Interface characteristics;<br>(2) Security, compliance and resilience requirements; and;<br>(3) The nature of the information communicated. | 5                        |       | NET-05       |
| COS-04.01AS  | Cross-Network Access                                                          | COS-04.01AS, sharpening COS-04.01B<br>Each network perimeter is controlled by redundant and highly available security gateways.                                                                                                                                                                                                                            | Functional     | Intersects With   | Boundary Protection                                             | NET-03   | Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.                                                                                                                                                                                                | 5                        |       | NET-03       |
| COS-05.01B   | Networks for Administration                                                   | There are separate networks for the administrative management of the infrastructure and for the operation of management consoles. These networks are logically or physically separated from the cloud service customer's network and protected from unauthorised access by multi-factor authentication (cf. IAM-08).                                       | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                               | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/ or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data.                             | 5                        |       | IAC-06       |

| FDE #        | FDE Name                                                        | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                                            | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |
|--------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| COS-05.01B   | Networks for Administration                                     | There are separate networks for the administrative management of the infrastructure and for the operation of management consoles. These networks are logically or physically separated from the cloud service customer's network and protected from unauthorised access by multi-factor authentication (cf. IAM-08).           | Functional     | Intersects With   | Segregation From Enterprise Services                                   | NET-08.2 | Mechanisms exist to isolate sensitive and/or regulated data enclaves (secure zones) from corporate-provided IT resources by providing enclave-specific IT services (e.g., directory services, DNS, NTP, ITAM, antimalware and patch management) to those isolated network segments.        | 3                        |       | NET-06.4     |
| COS-05.01B   | Networks for Administration                                     | There are separate networks for the administrative management of the infrastructure and for the operation of management consoles. These networks are logically or physically separated from the cloud service customer's network and protected from unauthorised access by multi-factor authentication (cf. IAM-08).           | Functional     | Intersects With   | Network Device Plane Segmentation                                      | NET-09   | Automated mechanisms exist to separate network appliance functions (e.g., management, control and data planes) to prevent ordinary traffic from accessing functions that:<br>(1) Manage network appliances; and/or<br>(2) Affect network operations.                                       | 5                        |       | NET-06.8     |
| COS-05.02B   | Networks for Administration                                     | Networks used by the cloud service provider to create, migrate or orchestrate compute workloads (e.g. virtual machines, containers, functions) are physically or logically separated from tenant networks.                                                                                                                     | Functional     | Intersects With   | Multi-Tenant Environments                                              | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                  | 3                        |       | CLD-06       |
| COS-05.02B   | Networks for Administration                                     | Networks used by the cloud service provider to create, migrate or orchestrate compute workloads (e.g. virtual machines, containers, functions) are physically or logically separated from tenant networks.                                                                                                                     | Functional     | Intersects With   | Network Device Plane Segmentation                                      | NET-09   | Automated mechanisms exist to separate network appliance functions (e.g., management, control and data planes) to prevent ordinary traffic from accessing functions that:<br>(1) Manage network appliances; and/or<br>(2) Affect network operations.                                       | 5                        |       | NET-06.8     |
| COS-05.01AC  | Networks for Administration                                     | If there is no physical separation between the administration networks and other networks, the administration network traffic uses state of the art encryption (cf. CRY-01).                                                                                                                                                   | Functional     | Intersects With   | Non-Console Administrative Access                                      | CFG-04.7 | Cryptographic mechanisms exist to protect the confidentiality and integrity of non-console administrative access.                                                                                                                                                                          | 5                        |       | CRY-06       |
| COS-05.01AC  | Networks for Administration                                     | If there is no physical separation between the administration networks and other networks, the administration network traffic uses state of the art encryption (cf. CRY-01).                                                                                                                                                   | Functional     | Intersects With   | Network Device Plane Segmentation                                      | NET-09   | Automated mechanisms exist to separate network appliance functions (e.g., management, control and data planes) to prevent ordinary traffic from accessing functions that:<br>(1) Manage network appliances; and/or<br>(2) Affect network operations.                                       | 3                        |       | NET-06.8     |
| COS-06.01B   | Separation of Data Traffic in Jointly Used Network Environments | Cloud service customer data traffic in jointly used network environments is separated on network level according to a documented framework to ensure the confidentiality and integrity of the data transmitted.                                                                                                                | Functional     | Intersects With   | Multi-Tenant Environments                                              | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                  | 5                        |       | CLD-06       |
| COS-06.01B   | Separation of Data Traffic in Jointly Used Network Environments | Cloud service customer data traffic in jointly used network environments is separated on network level according to a documented framework to ensure the confidentiality and integrity of the data transmitted.                                                                                                                | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                               | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                            | 5                        |       | NET-06       |
| COS-06.01AC  | Separation of Data Traffic in Jointly Used Network Environments | In the case of IaaS/PaaS, the secure separation is ensured by physically separated networks or by means of state of the art encryption in combination with logical network separation or encapsulation.                                                                                                                        | Functional     | Intersects With   | Encrypting Data In Transit                                             | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                                  | 5                        |       | CRY-03       |
| COS-06.01AC  | Separation of Data Traffic in Jointly Used Network Environments | In the case of IaaS/PaaS, the secure separation is ensured by physically separated networks or by means of state of the art encryption in combination with logical network separation or encapsulation.                                                                                                                        | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                               | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                            | 5                        |       | NET-06       |
| COS-07.01B   | Documentation of the Network Topology                           | The documentation of the logical structure of the network used to provide or operate the cloud service is traceable and up-to-date, in order to avoid administrative errors during live operation and to ensure timely recovery in the event of incidents in accordance with contractual obligations. The documentation shows: | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 8                        |       | AST-04       |
| COS-07.01B.1 | Documentation of the Network Topology                           | How the subnets are allocated;                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 5                        |       | AST-04       |
| COS-07.01B.2 | Documentation of the Network Topology                           | How the network is zoned and segmented;                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 5                        |       | AST-04       |
| COS-07.01B.2 | Documentation of the Network Topology                           | How the network is zoned and segmented;                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Network Segmentation (macrosegmentation)                               | NET-06   | Mechanisms exist to implement network segmentation within network architectures to isolate Technology Assets, Applications and/or Services (TAAS) from other network resources.                                                                                                            | 3                        |       | NET-06       |
| COS-07.01B.3 | Documentation of the Network Topology                           | How the network connects with third party and public networks; and                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 5                        |       | AST-04       |
| COS-07.01B.4 | Documentation of the Network Topology                           | How the data flows between different subnets and system components within the network to support the management, monitoring and analysis of the network.                                                                                                                                                                       | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 5                        |       | AST-04       |
| COS-07.01B.4 | Documentation of the Network Topology                           | How the data flows between different subnets and system components within the network to support the management, monitoring and analysis of the network.                                                                                                                                                                       | Functional     | Intersects With   | Data Action Mapping                                                    | AST-17.2 | Mechanisms exist to create and maintain a map of Technology Assets, Applications and/or Services (TAAS) where sensitive and/or regulated data is stored, transmitted or processed.                                                                                                         | 3                        |       | AST-02.8     |
| COS-07.02B   | Documentation of the Network Topology                           | The partitions, regions, zones or location in which the cloud service customer data is stored are indicated.                                                                                                                                                                                                                   | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                           | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows. | 3                        |       | AST-04       |
| COS-07.02B   | Documentation of the Network Topology                           | The partitions, regions, zones or location in which the cloud service customer data is stored are indicated.                                                                                                                                                                                                                   | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations | DCH-30.1 | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                                                               | 5                        |       | CLD-09       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document:                                                 |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Focal Document URL:                                             |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                   | Published STRM URL:                                             |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |       |              |  |
| FDE #                                                                                               | FDE Name                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | STRM Rationale | STRM Relationship | SCF Control                                                     | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Strength of Relationship | Notes | Legacy SCF # |  |
| COS-07.03B                                                                                          | Documentation of the Network Topology | The cloud service provider establishes and maintains an accurate representation of the technical and logical structure of the cloud service provider's systems based on the network topology documentation and the asset inventory (cf. AM-02). The documentation includes the system components that provide security functions and the system components that host the corresponding cloud service customer data and cloud service derived data, or provide sensitive functions.                                                          | Functional     | Intersects With   | Asset Inventories                                               | AST-04   | Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAAS) that:<br>(1) Accurately reflects the current TAAS in use;<br>(2) Identifies authorized software products, including business justification details;<br>(3) Is at the level of granularity deemed necessary for tracking and reporting;<br>(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and<br>(5) Is available for review and audit by designated organizational personnel. | 3                        |       | AST-02       |  |
| COS-07.03B                                                                                          | Documentation of the Network Topology | The cloud service provider establishes and maintains an accurate representation of the technical and logical structure of the cloud service provider's systems based on the network topology documentation and the asset inventory (cf. AM-02). The documentation includes the system components that provide security functions and the system components that host the corresponding cloud service customer data and cloud service derived data, or provide sensitive functions.                                                          | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                    | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows.                                                                                                                                                                                                                                                          | 5                        |       | AST-04       |  |
| COS-07.04B                                                                                          | Documentation of the Network Topology | The network topology documentation is reviewed at least once a year. Timely and appropriate remediation measures address any deviations identified during the review.                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Network Diagrams & Data Flow Diagrams (DFDs)                    | AST-17   | Mechanisms exist to maintain network architecture diagrams that:<br>(1) Contain sufficient detail to assess the security of the network's architecture;<br>(2) Reflect the current architecture of the network environment; and<br>(3) Document all sensitive and/or regulated data flows.                                                                                                                                                                                                                                                          | 5                        |       | AST-04       |  |
| COS-08.01B                                                                                          | Policies for Data Transmission        | Policies and procedures with technical and organisational safeguards in order to protect the transmission of cloud service customer data, cloud service derived data, cloud service provider data and account data against unauthorised interception, manipulation, copying, modification, redirection, destruction or malware intrusion are documented, communicated and provided according to SP-01. The policies and procedures establish a reference to the asset classification and labelling (cf. AM-09) and cryptographic mechanisms | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation      | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | GOV-02       |  |
| COS-08.01B                                                                                          | Policies for Data Transmission        | Policies and procedures with technical and organisational safeguards in order to protect the transmission of cloud service customer data, cloud service derived data, cloud service provider data and account data against unauthorised interception, manipulation, copying, modification, redirection, destruction or malware intrusion are documented, communicated and provided according to SP-01. The policies and procedures establish a reference to the asset classification and labelling (cf. AM-09) and cryptographic mechanisms | Functional     | Intersects With   | Safeguarding Data Over Open Networks                            | NET-37   | Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive and/or regulated data during transmission over open, public networks.                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | NET-12       |  |
| COS-08.02B                                                                                          | Policies for Data Transmission        | Technical safeguards outlined in the documented policies and procedures to protect the transmission of data are implemented and reviewed regularly, as well as in case of significant changes to the cloud service.                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Functional Review Of Security, Compliance & Resilience Controls | CPL-05.1 | Mechanisms exist to regularly review Technology Assets, Applications and/or Services (TAAS) for adherence to the organization's security, compliance and/or resilience policies and standards.                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | CPL-03.2     |  |
| COS-08.02B                                                                                          | Policies for Data Transmission        | Technical safeguards outlined in the documented policies and procedures to protect the transmission of data are implemented and reviewed regularly, as well as in case of significant changes to the cloud service.                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Safeguarding Data Over Open Networks                            | NET-37   | Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive and/or regulated data during transmission over open, public networks.                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | NET-12       |  |
| 5.10                                                                                                | Portability and Interoperability (PI) | Objective: Enable the ability to access the cloud service via other cloud services or IT systems of the cloud service customers, to obtain the stored data at the end of the contractual relationship and to securely delete it from the cloud service provider.                                                                                                                                                                                                                                                                            | Functional     | No Relationship   | N/A                                                             | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                        |       |              |  |
| PI-01.01B                                                                                           | Safety of Input and Output Interfaces | For inbound and outbound interfaces through which the cloud service can be accessed by other cloud services or IT systems of cloud service customers, the cloud service provider designs, implements and maintains controls regarding the following aspects:                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Data Handling & Portability                                     | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | CLD-07       |  |
| PI-01.01B                                                                                           | Safety of Input and Output Interfaces | For inbound and outbound interfaces through which the cloud service can be accessed by other cloud services or IT systems of cloud service customers, the cloud service provider designs, implements and maintains controls regarding the following aspects:                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Application Programming Interface (API) Security                | NET-35   | Mechanisms exist to ensure support for secure interoperability between components with Application Programming Interfaces (APIs).                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | CLD-04       |  |
| PI-01.01B.1                                                                                         | Safety of Input and Output Interfaces | The use of standardised communication protocols for interactions between different application interfaces to ensure the confidentiality and integrity of the transmitted information according to its protection needs, and the adequate authentication of the user;                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Data Handling & Portability                                     | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | CLD-07       |  |
| PI-01.01B.1                                                                                         | Safety of Input and Output Interfaces | The use of standardised communication protocols for interactions between different application interfaces to ensure the confidentiality and integrity of the transmitted information according to its protection needs, and the adequate authentication of the user;                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Encrypting Data In Transit                                      | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | CRY-03       |  |
| PI-01.01B.2                                                                                         | Safety of Input and Output Interfaces | The use of encryption according to CRY-02 in case of communication over untrusted networks;                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Encrypting Data In Transit                                      | CRY-05   | Cryptographic mechanisms exist to prevent the unauthorized disclosure of data in transit.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                        |       | CRY-03       |  |
| PI-01.01B.3                                                                                         | Safety of Input and Output Interfaces | The use of standardised data formats and common data processing standards to facilitate information processing interoperability;                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Standardized Virtualization Formats                             | CLD-09   | Mechanisms exist to ensure interoperability by requiring cloud providers to use industry-recognized formats and provide documentation of custom changes for review.                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | CLD-08       |  |
| PI-01.01B.4                                                                                         | Safety of Input and Output Interfaces | The implementation of mechanisms to validate data integrity and establish backup and recovery processes to ensure data security and reliability during exchange, usage and transfer; and                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Data Backups                                                    | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                      | 3                        |       | BCD-11       |  |
| PI-01.01B.4                                                                                         | Safety of Input and Output Interfaces | The implementation of mechanisms to validate data integrity and establish backup and recovery processes to ensure data security and reliability during exchange, usage and transfer; and                                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Integrity of Data In Transit                                    | CRY-06   | Cryptographic mechanisms exist to detect unauthorized changes to data in transit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | CRY-04       |  |
| PI-01.01B.5                                                                                         | Safety of Input and Output Interfaces | The provision of up-to-date information about the available communication protocols, as well as applicable data formats and data processing standards.                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Administrator Documentation                                     | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe:<br>(1) Secure configuration, installation and operation of the TAAS;<br>(2) Effective use and maintenance of security features/functions; and<br>(3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                                 | 3                        |       | TDA-04       |  |
| PI-01.02B                                                                                           | Safety of Input and Output Interfaces | The cloud service provider provides suitable technical means for extracting cloud service customer data in accordance with the aforementioned policies and procedures to the cloud service customer. Where data volume, format, or architecture make a customer-driven extraction infeasible, the cloud service provider provides appropriate extraction services to the cloud service customer.                                                                                                                                            | Functional     | Intersects With   | Data Handling & Portability                                     | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | CLD-07       |  |
| PI-01.02B                                                                                           | Safety of Input and Output Interfaces | The cloud service provider provides suitable technical means for extracting cloud service customer data in accordance with the aforementioned policies and procedures to the cloud service customer. Where data volume, format, or architecture make a customer-driven extraction infeasible, the cloud service provider provides appropriate extraction services to the cloud service customer.                                                                                                                                            | Functional     | Intersects With   | Data Portability                                                | PRI-41   | Mechanisms exist to format exports of Personal Data (PD) in a structured, machine-readable format that allows data subjects to transfer their PD to another controller without hindrance.                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | PRI-06.6     |  |
| PI-01.01AC                                                                                          | Safety of Input and Output Interfaces | The cloud service provider sets up an application firewall to protect the administration interfaces for cloud service customers that are accessible over public networks.                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Web Application Firewall (WAF)                                  | NET-34   | Mechanisms exist to deploy Web Application Firewalls (WAFs) to provide defense-in-depth protection for application-specific threats.                                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | WEB-03       |  |
| PI-01.02AC                                                                                          | Safety of Input and Output Interfaces | The cloud service provides cloud service customers with interfaces for custom identity providers to manage the authentication information of users under the responsibility of the cloud service customer. These interfaces are accompanied by a standardised protocol to facilitate communication between the cloud service and the external identity provider.                                                                                                                                                                            | Functional     | Intersects With   | Identity & Access Management (IAM)                              | IAC-02   | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | IAC-01       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document:                                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                        |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Focal Document URL:                                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                     |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                   |                |                   | Published STRM URL:                                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                             |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                               | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                          | STRM Rationale | STRM Relationship | SCF Control                                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |  |
| PI-01.03AC                                                                                          | Safety of Input and Output Interfaces                                  | The interfaces are clearly documented to enable subject matter experts of the cloud service customer to integrate their identity provider with the cloud service.                                                                                                                                                                                                                                 | Functional     | Intersects With   | Administrator Documentation                                               | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions. | 3                        |       | TDA-04       |  |
| PI-02.01B                                                                                           | Contractual Agreements for the Provision of Data                       | In contractual agreements, the following aspects are defined for provisioning of cloud service customer data following termination of the contractual relationship, insofar as these are applicable to the cloud service:                                                                                                                                                                         | Functional     | Intersects With   | Data Handling & Portability                                               | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                       | 3                        |       | CLD-07       |  |
| PI-02.01B                                                                                           | Contractual Agreements for the Provision of Data                       | In contractual agreements, the following aspects are defined for provisioning of cloud service customer data following termination of the contractual relationship, insofar as these are applicable to the cloud service:                                                                                                                                                                         | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 5                        |       | TPM-05       |  |
| PI-02.01B.1                                                                                         | Contractual Agreements for the Provision of Data                       | Type, scope and format of the cloud service customer data the cloud service provider provides to the cloud service customer;                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Data Handling & Portability                                               | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                       | 3                        |       | CLD-07       |  |
| PI-02.01B.2                                                                                         | Contractual Agreements for the Provision of Data                       | Methods for delivering the data to the cloud service customer;                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Data Handling & Portability                                               | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                       | 3                        |       | CLD-07       |  |
| PI-02.01B.3                                                                                         | Contractual Agreements for the Provision of Data                       | Conditions and time frames for cloud service customer data provisioning throughout the duration of the contractual relationship;                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 3                        |       | TPM-05       |  |
| PI-02.01B.4                                                                                         | Contractual Agreements for the Provision of Data                       | Right of termination of the contract and definition of the time frame within which the cloud service provider makes the cloud service customer data available to the cloud service customer after termination of the contract;                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 3                        |       | TPM-05       |  |
| PI-02.01B.5                                                                                         | Contractual Agreements for the Provision of Data                       | Definition of the point in time as of which the cloud service provider makes the cloud service customer data inaccessible to the cloud service customer and deletes these after termination of the contract;                                                                                                                                                                                      | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                                      | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                          | 3                        |       | DCH-21       |  |
| PI-02.01B.6                                                                                         | Contractual Agreements for the Provision of Data                       | The cloud service customers' responsibilities and obligations to cooperate for the provision of the cloud service customer data; and                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix | TPM-11   | Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for security, compliance and resilience controls between internal stakeholders and External Service Providers (ESPs).                                                                                                             | 3                        |       | TPM-05.4     |  |
| PI-02.01B.7                                                                                         | Contractual Agreements for the Provision of Data                       | Cloud service customer data remains the property of the cloud service customer throughout the entire contractual relationship. After its termination, the data is once again the sole property and possession of the cloud service customer.                                                                                                                                                      | Functional     | Intersects With   | Data Stewardship                                                          | DCH-06   | Mechanisms exist to ensure data stewardship is assigned, documented and communicated.                                                                                                                                                                                                                                                                                                                      | 3                        |       | DCH-01.1     |  |
| PI-02.01B.8                                                                                         | Contractual Agreements for the Provision of Data                       | The definitions are based on the needs of subject matter experts of potential customers who assess the suitability of the cloud service with regard to a dependency on the cloud service provider as well as legal and regulatory requirements.                                                                                                                                                   | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 3                        |       | TPM-05       |  |
| PI-02.01AC                                                                                          | Contractual Agreements for the Provision of Data                       | The design of the aspects is based on legal and regulatory requirements in the environment of the cloud service provider. The cloud service provider identifies the requirements regularly, at least once a year, and checks these for actuality and adjusts the contractual agreements accordingly.                                                                                              | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance                            | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                           | 5                        |       | CPL-01       |  |
| PI-02.01AC                                                                                          | Contractual Agreements for the Provision of Data                       | The design of the aspects is based on legal and regulatory requirements in the environment of the cloud service provider. The cloud service provider identifies the requirements regularly, at least once a year, and checks these for actuality and adjusts the contractual agreements accordingly.                                                                                              | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 3                        |       | TPM-05       |  |
| PI-02.02AC                                                                                          | Contractual Agreements for the Provision of Data                       | The cloud service provider also provides cloud service derived data to the cloud service customer upon termination of the contractual relationship. The provision of this data is also defined in the contractual agreements and includes the aspects specified in the basic criterion.                                                                                                           | Functional     | Intersects With   | Data Handling & Portability                                               | CLD-08   | Mechanisms exist to ensure cloud providers use secure protocols for the import, export and management of data in cloud-based Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                       | 3                        |       | CLD-07       |  |
| PI-02.02AC                                                                                          | Contractual Agreements for the Provision of Data                       | The cloud service provider also provides cloud service derived data to the cloud service customer upon termination of the contractual relationship. The provision of this data is also defined in the contractual agreements and includes the aspects specified in the basic criterion.                                                                                                           | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                               | 3                        |       | TPM-05       |  |
| PI-03.01B                                                                                           | Secure Deletion of Data                                                | The cloud service provider's procedures for deleting cloud service customer data, cloud service derived data and account data upon termination of the contractual relationship ensure compliance with the contractual agreements (cf. PI-02). Exceptions are only made if they are required by a valid court order or needed for the fulfillment of known future financial and legal obligations. | Functional     | Intersects With   | Digital & Non-Digital Media Disposal                                      | DCH-17   | Mechanisms exist to securely dispose of, destroy and/or erase digital and non-digital media when it is no longer required, using organization-defined procedures.                                                                                                                                                                                                                                          | 5                        |       | DCH-21       |  |
| PI-03.01B                                                                                           | Secure Deletion of Data                                                | The cloud service provider's procedures for deleting cloud service customer data, cloud service derived data and account data upon termination of the contractual relationship ensure compliance with the contractual agreements (cf. PI-02). Exceptions are only made if they are required by a valid court order or needed for the fulfillment of known future financial and legal obligations. | Functional     | Intersects With   | Digital Media Sanitization                                                | DCH-18   | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                                                           | 3                        |       | DCH-09       |  |
| PI-03.02B                                                                                           | Secure Deletion of Data                                                | The deletion procedures prevent recovery by forensic means that comply with the established rules of technology.                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Digital Media Sanitization                                                | DCH-18   | Mechanisms exist to sanitize digital media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.                                                                                                                                                                           | 8                        |       | DCH-09       |  |
| PI-03.03B                                                                                           | Secure Deletion of Data                                                | The deletion of the cloud service customer data, cloud service derived data and account data is documented in a manner that enables the cloud service customer to obtain proof of the deletion of its data.                                                                                                                                                                                       | Functional     | Intersects With   | Digital Media Sanitization Documentation                                  | DCH-18.2 | Mechanisms exist to supervise, track, document and verify digital media sanitization and disposal actions.                                                                                                                                                                                                                                                                                                 | 5                        |       | DCH-09.1     |  |
| 5.11                                                                                                | Procurement, Development and Modification of Information Systems (DEV) | Objective: Ensure information security in the development cycle of cloud service system components.                                                                                                                                                                                                                                                                                               | Functional     | No Relationship   | N/A                                                                       | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                        | 0                        |       |              |  |
| DEV-01.01B                                                                                          | Policies for the Development/Procurement of System Components          | Policies and procedures with technical and organisational measures for the secure development of system components of the cloud service are documented, communicated and provided in accordance with SP-01. The policies and procedures contain guidelines for the entire life cycle of the cloud service and are based on recognised standards and methods with regard to the following aspects: | Functional     | Intersects With   | Secure Development Life Cycle (SDLC) Management                           | PRM-07   | Mechanisms exist to ensure changes to Technology Assets, Applications and/or Services (TAAS) within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.                                                                                                                                                                                                      | 5                        |       | PRM-07       |  |
| DEV-01.01B                                                                                          | Policies for the Development/Procurement of System Components          | Policies and procedures with technical and organisational measures for the secure development of system components of the cloud service are documented, communicated and provided in accordance with SP-01. The policies and procedures contain guidelines for the entire life cycle of the cloud service and are based on recognised standards and methods with regard to the following aspects: | Functional     | Intersects With   | Secure Software Development Practices (SSDP)                              | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                            | 5                        |       | TDA-06       |  |
| DEV-01.01B.1                                                                                        | Policies for the Development/Procurement of System Components          | Security and quality in software development (requirements, design, implementation, testing and verification), including the existence of a security by design principle, enforcing the consideration of information security requirements in the software development phase;                                                                                                                     | Functional     | Intersects With   | Secure Engineering Principles                                             | SEA-05   | Mechanisms exist to facilitate the implementation of industry-recognized security, compliance and resilience practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).                                                                                                                                               | 5                        |       | SEA-01       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                               |                                                                                                                                                                                                                                                                                                                                                                      |                | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                               |                                                                                                                                                                                                                                                                                                                                                                      |                | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                               |                                                                                                                                                                                                                                                                                                                                                                      |                | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |
| FDE #                                                                                               | FDE Name                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                             | STRM Rationale | STRM Relationship                                                                                                                                          | SCF Control                                                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                | Strength of Relationship | Notes | Legacy SCF # |
| DEV-01.01B.1                                                                                        | Policies for the Development/Procurement of System Components | Security and quality in software development (requirements, design, implementation, testing and verification), including the existence of a security by design principle, enforcing the consideration of information security requirements in the software development phase;                                                                                        | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | TDA-06       |
| DEV-01.01B.2                                                                                        | Policies for the Development/Procurement of System Components | Security and quality in software deployment (including continuous delivery);                                                                                                                                                                                                                                                                                         | Functional     | Intersects With                                                                                                                                            | Change Management Program                                        | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | CHG-01       |
| DEV-01.01B.2                                                                                        | Policies for the Development/Procurement of System Components | Security and quality in software deployment (including continuous delivery);                                                                                                                                                                                                                                                                                         | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-06       |
| DEV-01.01B.3                                                                                        | Policies for the Development/Procurement of System Components | Security and quality in operation (reaction to identified faults and vulnerabilities); and                                                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-06       |
| DEV-01.01B.3                                                                                        | Policies for the Development/Procurement of System Components | Security and quality in operation (reaction to identified faults and vulnerabilities); and                                                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Vulnerability Remediation Process                                | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | VPM-02       |
| DEV-01.01B.4                                                                                        | Policies for the Development/Procurement of System Components | Secure coding standards and practices (reduction of vulnerabilities being introduced to the code).                                                                                                                                                                                                                                                                   | Functional     | Intersects With                                                                                                                                            | Software Assurance Maturity Model (SAMM)                         | TDA-03.1 | Mechanisms exist to utilize a Software Assurance Maturity Model (SAMM) to govern a secure development lifecycle for the development of Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                     | 8                        |       | TDA-06.3     |
| DEV-01.02B                                                                                          | Policies for the Development/Procurement of System Components | Guidelines for the secure development of the cloud service define principles to ensure the system architecture and software operated by the cloud service provider within the production environment are designed in such a way that access to cloud service customer data by the cloud service provider is minimised wherever possible.                             | Functional     | Intersects With                                                                                                                                            | Least Privilege                                                  | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.                                                                                                                                                                                                                                                              | 3                        |       | IAC-21       |
| DEV-01.02B                                                                                          | Policies for the Development/Procurement of System Components | Guidelines for the secure development of the cloud service define principles to ensure the system architecture and software operated by the cloud service provider within the production environment are designed in such a way that access to cloud service customer data by the cloud service provider is minimised wherever possible.                             | Functional     | Intersects With                                                                                                                                            | Secure Engineering Principles                                    | SEA-05   | Mechanisms exist to facilitate the implementation of industry-recognized security, compliance and resilience practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                       | 3                        |       | SEA-01       |
| DEV-01.03B                                                                                          | Policies for the Development/Procurement of System Components | The cloud service provider defines measures to enforce the specified standards and guidelines as part of the policies and procedures for the secure development of system components of the cloud service.                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Conformity Monitoring                                            | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                                        | 3                        |       | CPL-03       |
| DEV-01.03B                                                                                          | Policies for the Development/Procurement of System Components | The cloud service provider defines measures to enforce the specified standards and guidelines as part of the policies and procedures for the secure development of system components of the cloud service.                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-06       |
| DEV-01.01AC                                                                                         | Policies for the Development/Procurement of System Components | In procurement, products are preferred which have been certified according to the 'Common Criteria for Information Technology Security Evaluation' (short: Common Criteria - CC) Evaluation Assurance Level EAL 4. If non-certified products are to be procured instead of available certified products, a risk assessment is carried out in accordance with OIS-07. | Functional     | Intersects With                                                                                                                                            | Risk Assessment                                                  | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                              | 3                        |       | RSK-04       |
| DEV-01.01AC                                                                                         | Policies for the Development/Procurement of System Components | In procurement, products are preferred which have been certified according to the 'Common Criteria for Information Technology Security Evaluation' (short: Common Criteria - CC) Evaluation Assurance Level EAL 4. If non-certified products are to be procured instead of available certified products, a risk assessment is carried out in accordance with OIS-07. | Functional     | Intersects With                                                                                                                                            | Product Management                                               | TDA-06   | Mechanisms exist to design and implement product management processes to proactively govern the design, development and production of Technology Assets, Applications and/or Services (TAAS) across the System Development Life Cycle (SDLC) to:<br>(1) Improve functionality;<br>(2) Enhance security and resiliency capabilities;<br>(3) Correct security deficiencies; and<br>(4) Conform with applicable statutory, regulatory and/or contractual obligations. | 5                        |       | TDA-01.1     |
| DEV-02.01B                                                                                          | Outsourcing of the Development                                | In the case of outsourced development of the cloud service (or individual system components), specifications regarding the following aspects are contractually agreed between the cloud service provider and the service organisation:                                                                                                                               | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-06       |
| DEV-02.01B                                                                                          | Outsourcing of the Development                                | In the case of outsourced development of the cloud service (or individual system components), specifications regarding the following aspects are contractually agreed between the cloud service provider and the service organisation:                                                                                                                               | Functional     | Intersects With                                                                                                                                            | Third-Party Contract Requirements                                | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                                                                                       | 5                        |       | TPM-05       |
| DEV-02.01B.1                                                                                        | Outsourcing of the Development                                | Security in software development (requirements, design, implementation, tests and verifications) in accordance with recognised standards and methods, ensuring a security level equivalent to that of the cloud service provider's internal development;                                                                                                             | Functional     | Intersects With                                                                                                                                            | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | TDA-06       |
| DEV-02.01B.1                                                                                        | Outsourcing of the Development                                | Security in software development (requirements, design, implementation, tests and verifications) in accordance with recognised standards and methods, ensuring a security level equivalent to that of the cloud service provider's internal development;                                                                                                             | Functional     | Intersects With                                                                                                                                            | Third-Party Contract Requirements                                | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                                                                                       | 3                        |       | TPM-05       |
| DEV-02.01B.2                                                                                        | Outsourcing of the Development                                | Acceptance testing of the quality of the services provided in accordance with the agreed functional and non-functional requirements; and                                                                                                                                                                                                                             | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                      | 5                        |       | TDA-09       |
| DEV-02.01B.3                                                                                        | Outsourcing of the Development                                | Providing evidence that sufficient verifications have been carried out to rule out the existence of known vulnerabilities.                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                      | 3                        |       | TDA-09       |
| DEV-02.01B.3                                                                                        | Outsourcing of the Development                                | Providing evidence that sufficient verifications have been carried out to rule out the existence of known vulnerabilities.                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Vulnerability Scanning                                           | VPM-12   | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                                                                                                                                                                                                                 | 3                        |       | VPM-06       |
| DEV-02.02B                                                                                          | Outsourcing of the Development                                | Before outsourcing the development of the cloud service or components thereof, the cloud service provider conducts a risk assessment according to SSO-02 that takes into account at least the following aspects:                                                                                                                                                     | Functional     | Intersects With                                                                                                                                            | Supply Chain Risk Assessment (SCRA)                              | RSK-21   | Mechanisms exist to periodically assess supply chain risks associated with Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                 | 3                        |       | RSK-09.1     |
| DEV-02.02B                                                                                          | Outsourcing of the Development                                | Before outsourcing the development of the cloud service or components thereof, the cloud service provider conducts a risk assessment according to SSO-02 that takes into account at least the following aspects:                                                                                                                                                     | Functional     | Intersects With                                                                                                                                            | Third-Party Risk Assessments & Approvals                         | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                | 5                        |       | TPM-04.1     |
| DEV-02.02B.1                                                                                        | Outsourcing of the Development                                | Management of source code by the service organisation;                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With                                                                                                                                            | Developer Configuration Management                               | TDA-20   | Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation.                                                                                                                                                                                                                                                                                                 | 5                        |       | TDA-14       |
| DEV-02.02B.2                                                                                        | Outsourcing of the Development                                | Accessibility of source code to the cloud service provider;                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With                                                                                                                                            | Developer Configuration Management                               | TDA-20   | Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation.                                                                                                                                                                                                                                                                                                 | 5                        |       | TDA-14       |

| FDE #        | FDE Name                                                                                                    | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship | SCF Control                                                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |
|--------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| DEV-02.02B.3 | Outsourcing of the Development                                                                              | Human resource procedures implemented by the service organisation;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Developer Screening                                              | TDA-19   | Mechanisms exist to ensure that the developers of Technology Assets, Applications and/or Services (TAAS) have the requisite skillset and appropriate access authorizations.                                                                                                                                                                                                                                | 3                        |       | TDA-13       |
| DEV-02.02B.3 | Outsourcing of the Development                                                                              | Human resource procedures implemented by the service organisation;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Third-Party Personnel Security                                   | TPM-13   | Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.                                                                                                                                                                                                                                                                       | 5                        |       | TPM-06       |
| DEV-02.02B.4 | Outsourcing of the Development                                                                              | Required access to the development, test and preproduction environments of the cloud service provider; and                                                                                                                                                                                                                               | Functional     | Intersects With   | Separation of Development, Testing and Operational Environments  | TDA-15.1 | Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational environment and to ensure no impact to production Technology Assets, Applications and/or Services (TAAS).                                                                                                                                   | 3                        |       | TDA-08       |
| DEV-02.02B.4 | Outsourcing of the Development                                                                              | Required access to the development, test and preproduction environments of the cloud service provider; and                                                                                                                                                                                                                               | Functional     | Intersects With   | Third-Party Services                                             | TPM-12   | Mechanisms exist to mitigate the risks associated with third-party access to the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                             | 3                        |       | TPM-04       |
| DEV-02.02B.5 | Outsourcing of the Development                                                                              | Management of subcontractors engaged by the service organisation.                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Contract Flow-Down Requirements                                  | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                                                                                                                                | 5                        |       | TPM-05.2     |
| DEV-02.01AC  | Outsourcing of the Development                                                                              | The cloud service provider documents and implements a procedure that enables the supervision and control of the outsourced development activity to ensure that it complies with the secure development policy of the cloud service provider, and that the security level achieved through it matches the security level achieved through | Functional     | Intersects With   | Secure Software Development Practices (SSDP)                     | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                            | 3                        |       | TDA-06       |
| DEV-02.01AC  | Outsourcing of the Development                                                                              | The cloud service provider documents and implements a procedure that enables the supervision and control of the outsourced development activity to ensure that it complies with the secure development policy of the cloud service provider, and that the security level achieved through it matches the security level achieved through | Functional     | Intersects With   | Review of Third-Party Services                                   | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                                                                                      | 5                        |       | TPM-08       |
| DEV-02.02AC  | Outsourcing of the Development                                                                              | When a change contains work from outsourced development, the cloud service provider's personnel runs the tests needed to decide whether the change can be deployed.                                                                                                                                                                      | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                    | 5                        |       | TDA-09       |
| DEV-03.01B   | Policies for Changes to System Components                                                                   | Policies and procedures with procedures and technical safeguards for change management of system components of the cloud service are documented, communicated and provided according to SP-01 with regard to the following aspects:                                                                                                      | Functional     | Intersects With   | Change Management Program                                        | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                                                                                                                                                                                                          | 8                        |       | CHG-01       |
| DEV-03.01B   | Policies for Changes to System Components                                                                   | Policies and procedures with procedures and technical safeguards for change management of system components of the cloud service are documented, communicated and provided according to SP-01 with regard to the following aspects:                                                                                                      | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation       | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                     | 3                        |       | GOV-02       |
| DEV-03.01B.1 | Policies for Changes to System Components                                                                   | Criteria for risk assessment, categorisation and prioritisation of changes and related requirements for the type and scope of testing to be performed, and necessary approvals for the development/implementation of the change and releases for deployment in the production environment by authorised personnel or system components;  | Functional     | Intersects With   | Configuration Change Control                                     | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                           | 5                        |       | CHG-02       |
| DEV-03.01B.1 | Policies for Changes to System Components                                                                   | Criteria for risk assessment, categorisation and prioritisation of changes and related requirements for the type and scope of testing to be performed, and necessary approvals for the development/implementation of the change and releases for deployment in the production environment by authorised personnel or system components;  | Functional     | Intersects With   | Security Impact Analysis for Changes                             | CHG-06   | Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.                                                                                                                                                                                                                                                                                    | 5                        |       | CHG-03       |
| DEV-03.01B.2 | Policies for Changes to System Components                                                                   | Requirements for the performance and documentation of tests;                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Test, Validate & Document Changes                                | CHG-07   | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into                                                                                                                                                                                                                                                                   | 5                        |       | CHG-02.2     |
| DEV-03.01B.3 | Policies for Changes to System Components                                                                   | Requirements for segregation of duties during development, testing and release of changes;                                                                                                                                                                                                                                               | Functional     | Intersects With   | Separation of Duties (SoD)                                       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                                       | 5                        |       | HRS-11       |
| DEV-03.01B.3 | Policies for Changes to System Components                                                                   | Requirements for segregation of duties during development, testing and release of changes;                                                                                                                                                                                                                                               | Functional     | Intersects With   | Separation of Development, Testing and Operational Environments  | TDA-15.1 | Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational environment and to ensure no impact to production Technology Assets, Applications and/or Services (TAAS).                                                                                                                                   | 3                        |       | TDA-08       |
| DEV-03.01B.4 | Policies for Changes to System Components                                                                   | Requirements for the proper information of cloud service customers about the type and scope of the change as well as the resulting obligations to cooperate in accordance with the contractual agreements;                                                                                                                               | Functional     | Intersects With   | Stakeholder Notification of Changes                              | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                   | 5                        |       | CHG-05       |
| DEV-03.01B.5 | Policies for Changes to System Components                                                                   | Requirements for the documentation of changes in system, operational and user documentation;                                                                                                                                                                                                                                             | Functional     | Intersects With   | Configuration Change Control                                     | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                           | 3                        |       | CHG-02       |
| DEV-03.01B.5 | Policies for Changes to System Components                                                                   | Requirements for the documentation of changes in system, operational and user documentation;                                                                                                                                                                                                                                             | Functional     | Intersects With   | Administrator Documentation                                      | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions. | 3                        |       | TDA-04       |
| DEV-03.01B.6 | Policies for Changes to System Components                                                                   | Requirements for the implementation and documentation of emergency changes such that - as far as reasonably possible - they comply with the same level of security as normal changes;                                                                                                                                                    | Functional     | Intersects With   | Configuration Change Control                                     | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                           | 3                        |       | CHG-02       |
| DEV-03.01B.7 | Policies for Changes to System Components                                                                   | Requirements for the handling of unexpected effects of those changes, including corrective actions;                                                                                                                                                                                                                                      | Functional     | Intersects With   | Control Functionality Verification                               | CHG-09   | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                              | 5                        |       | CHG-06       |
| DEV-03.01B.8 | Policies for Changes to System Components                                                                   | Requirements for the increased testing for the development of security features that implement technical mechanisms and safeguards; and                                                                                                                                                                                                  | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                    | 3                        |       | TDA-09       |
| DEV-03.01B.9 | Policies for Changes to System Components                                                                   | Requirements for managing exceptions, including emergency changes, to ensure related risks are appropriately mitigated.                                                                                                                                                                                                                  | Functional     | Intersects With   | Configuration Change Control                                     | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                           | 3                        |       | CHG-02       |
| DEV-03.01B.9 | Policies for Changes to System Components                                                                   | Requirements for managing exceptions, including emergency changes, to ensure related risks are appropriately mitigated.                                                                                                                                                                                                                  | Functional     | Intersects With   | Exception Management                                             | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                                                                                   | 3                        |       | GOV-02.1     |
| DEV-04.01B   | Safety Training and Awareness Programmes Regarding Continuous Software Delivery and Associated Systems, and | The cloud service provider provides a training programme for regular, role-based security training and awareness for internal and external personnel on standards and methods for:                                                                                                                                                       | Functional     | Intersects With   | Role-Based Security, Compliance & Resilience Training            | SAT-05   | Mechanisms exist to provide role-based security, compliance and resilience-related training: (1) Before authorizing access to the system or performing assigned duties; and (2) When required by system changes; and (3) Annually thereafter.                                                                                                                                                              | 5                        |       | SAT-03       |

| FDE #        | FDE Name                                                                                                                   | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | STRM Rationale | STRM Relationship | SCF Control                                                      | SCF #  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Strength of Relationship | Notes | Legacy SCF # |
|--------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| DEV-04.01B   | Safety Training and Awareness Programme Regarding Continuous Software Delivery and Associated Systems,                     | The cloud service provider provides a training programme for regular, role-based security training and awareness for internal and external personnel on standards and methods for:                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Continuing Professional Education (CPE) - DevOps Personnel       | SAT-08 | Mechanisms exist to ensure application development and operations (DevOps) personnel receive Continuing Professional Education (CPE) training on Secure Software Development Practices (SSDP) to appropriately address evolving threats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | SAT-03.8     |
| DEV-04.01B.1 | Safety Training and Awareness Programme Regarding Continuous Software Delivery and Associated Systems,                     | Secure software development and provision as well as on how to use the tools used for this purpose; and                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Continuing Professional Education (CPE) - DevOps Personnel       | SAT-08 | Mechanisms exist to ensure application development and operations (DevOps) personnel receive Continuing Professional Education (CPE) training on Secure Software Development Practices (SSDP) to appropriately address evolving threats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | SAT-03.8     |
| DEV-04.01B.2 | Safety Training and Awareness Programme Regarding Continuous Software Delivery and Associated Systems,                     | Risks linked to malicious code and best practices to reduce the impact of an infection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Security, Compliance & Resilience Awareness Training             | SAT-04 | Mechanisms exist to provide all employees and contractors appropriate security, compliance and resilience awareness education and training that is relevant for their job function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | SAT-02       |
| DEV-04.02B   | Safety Training and Awareness Programme Regarding Continuous Software Delivery and Associated Systems, Components or Tools | The programme is regularly reviewed and updated with regard to the applicable policies and procedures, the assigned roles and responsibilities and the tools used.                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Maintaining Workforce Development Relevancy                      | SAT-03 | Mechanisms exist to periodically review security workforce development and awareness training to account for changes to:<br>(1) Organizational policies, standards and procedures;<br>(2) Assigned roles and responsibilities;<br>(3) Relevant threats and risks; and<br>(4) Technological developments.                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | SAT-01.1     |
| DEV-05.01B   | Design Documentation for Security Features                                                                                 | Design documentation for security features is based on a security analysis of the adequacy and planned effectiveness of the features. A specification of expected inputs, outputs and possible errors is included in the documentation.                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Secure Engineering Principles                                    | SEA-05 | Mechanisms exist to facilitate the implementation of industry-recognized security, compliance and resilience practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                        |       | SEA-01       |
| DEV-05.01B   | Design Documentation for Security Features                                                                                 | Design documentation for security features is based on a security analysis of the adequacy and planned effectiveness of the features. A specification of expected inputs, outputs and possible errors is included in the documentation.                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Developer Architecture & Design                                  | TDA-04 | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to produce a design specification and security architecture that:<br>(1) Is consistent with and supportive of the organization's security architecture which is established within and is an integrated part of the organization's enterprise architecture;<br>(2) Accurately and completely describes the required security functionality and the allocation of security, compliance and resilience controls among physical and logical components; and<br>(3) Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection. | 5                        |       | TDA-05       |
| DEV-06.01B   | Risk Assessment, Categorisation and Prioritisation of Changes                                                              | In accordance with the applicable policies, changes are subject to a risk assessment evaluating its potential impact on the overall cloud service in scope. In addition, when multiple changes are implemented concurrently, their mutual interactions and cumulative effects are also subject to the risk assessment in order to identify potential conflicts or dependencies. All identified risks and dependencies are categorised and prioritised accordingly.                                                                                                | Functional     | Intersects With   | Security Impact Analysis for Changes                             | CHG-06 | Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8                        |       | CHG-03       |
| DEV-06.02B   | Risk Assessment, Categorisation and Prioritisation of Changes                                                              | If the risk associated to a planned change is high, appropriate mitigation measures are taken before deploying the change in the cloud service's production environment.                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Security Impact Analysis for Changes                             | CHG-06 | Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | CHG-03       |
| DEV-06.02B   | Risk Assessment, Categorisation and Prioritisation of Changes                                                              | If the risk associated to a planned change is high, appropriate mitigation measures are taken before deploying the change in the cloud service's production environment.                                                                                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Risk Remediation                                                 | RSK-17 | Mechanisms exist to remediate risks to an acceptable level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | RSK-06       |
| DEV-06.01AC  | Risk Assessment, Categorisation and Prioritisation of Changes                                                              | In accordance with the contractual agreements, meaningful information about the occasion, time, duration, type and scope of the change is submitted to authorised bodies of the cloud service customer so that they can carry out their own risk assessment before the change is made available in the production environment. Regardless of the contractual agreements, this is done for changes that have the highest risk category based on their risk assessment. This does not include changes without an effect on the service usage or security posture of | Functional     | Intersects With   | Stakeholder Notification of Changes                              | CHG-08 | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                        |       | CHG-05       |
| DEV-07.01B   | Testing Changes                                                                                                            | Changes to the cloud service are subject to appropriate testing according to documented test procedures during software development and deployment.                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Test, Validate & Document Changes                                | CHG-07 | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | CHG-02.2     |
| DEV-07.01B   | Testing Changes                                                                                                            | Changes to the cloud service are subject to appropriate testing according to documented test procedures during software development and deployment.                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17 | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                                                                                                                                                                                                                                                                                           | 5                        |       | TDA-09       |
| DEV-07.02B   | Testing Changes                                                                                                            | The type and scope of the tests correspond to the risk assessment. The tests are carried out by appropriately qualified personnel of the cloud service provider or by automated test procedures that comply with established rules of technology. Cloud service customers are involved into the tests in accordance with the contractual requirements.                                                                                                                                                                                                            | Functional     | Intersects With   | Test, Validate & Document Changes                                | CHG-07 | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into production.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CHG-02.2     |
| DEV-07.02B   | Testing Changes                                                                                                            | The type and scope of the tests correspond to the risk assessment. The tests are carried out by appropriately qualified personnel of the cloud service provider or by automated test procedures that comply with established rules of technology. Cloud service customers are involved into the tests in accordance with the contractual requirements.                                                                                                                                                                                                            | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17 | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                                                                                                                                                                                                                                                                                           | 3                        |       | TDA-09       |
| DEV-07.03B   | Testing Changes                                                                                                            | Before using cloud service customer data for tests, the cloud service provider first obtains approval from that cloud service customer and anonymises the cloud service customer data. The cloud service provider ensures the confidentiality of the data during the whole process.                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | De-identification (Anonymization)                                | DCH-36 | Mechanisms exist to de-identify sensitive and/or regulated data through<br>(1) Anonymization;<br>(2) De-identification;<br>(3) Pseudonymization; and/or<br>(4) Redaction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | DCH-23       |
| DEV-07.03B   | Testing Changes                                                                                                            | Before using cloud service customer data for tests, the cloud service provider first obtains approval from that cloud service customer and anonymises the cloud service customer data. The cloud service provider ensures the confidentiality of the data during the whole                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Use of Live Data                                                 | TDA-18 | Mechanisms exist to approve, document and control the use of live data in development and test environments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8                        |       | TDA-10       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                    |                                                                                                                                                                                                                                                                                                                                   |                | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                    |                                                                                                                                                                                                                                                                                                                                   |                | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                    |                                                                                                                                                                                                                                                                                                                                   |                | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |       |              |
| FDE #                                                                                               | FDE Name           | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                          | STRM Rationale | STRM Relationship                                                                                                                                          | SCF Control                                                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Strength of Relationship | Notes | Legacy SCF # |
| DEV-07.04B                                                                                          | Testing Changes    | The security features of the cloud service are subject to tests that fully cover the security features' specification (cf. DEV-05), including all specified error conditions. The documentation of these tests covers at least the following aspects:                                                                             | Functional     | Intersects With                                                                                                                                            | Developer Architecture & Design                                  | TDA-04   | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to produce a design specification and security architecture that:<br>(1) Is consistent with and supportive of the organization's security architecture which is established within and is an integrated part of the organization's enterprise architecture;<br>(2) Accurately and completely describes the required security functionality and the allocation of security, compliance and resilience controls among physical and logical components; and<br>(3) Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection. | 3                        |       | TDA-05       |
| DEV-07.04B                                                                                          | Testing Changes    | The security features of the cloud service are subject to tests that fully cover the security features' specification (cf. DEV-05), including all specified error conditions. The documentation of these tests covers at least the following aspects:                                                                             | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                                                                                                                                                                                                                                                                                           | 5                        |       | TDA-09       |
| DEV-07.04B.1                                                                                        | Testing Changes    | A description of the test;                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With                                                                                                                                            | Test, Validate & Document Changes                                | CHG-07   | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into production.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CHG-02.2     |
| DEV-07.04B.1                                                                                        | Testing Changes    | A description of the test;                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | TDA-09       |
| DEV-07.04B.2                                                                                        | Testing Changes    | The initial conditions;                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                                                                                                                                                                                                                                                                                           | 3                        |       | TDA-09       |
| DEV-07.04B.3                                                                                        | Testing Changes    | The expected outcome; and                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                                                                                                                                                                                                                                                                                                                                           | 3                        |       | TDA-09       |
| DEV-07.04B.4                                                                                        | Testing Changes    | Procedures for running the test.                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With                                                                                                                                            | Test, Validate & Document Changes                                | CHG-07   | Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented into production.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | CHG-02.2     |
| DEV-07.04B.4                                                                                        | Testing Changes    | Procedures for running the test.                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With                                                                                                                                            | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | TDA-09       |
| DEV-07.05B                                                                                          | Testing Changes    | The severity of the errors and vulnerabilities identified in the tests, which are relevant for the deployment decision, is determined according to defined criteria and actions for timely remediation or mitigation are initiated.                                                                                               | Functional     | Intersects With                                                                                                                                            | Vulnerability Ranking                                            | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5                        |       | VPM-03       |
| DEV-07.05B                                                                                          | Testing Changes    | The severity of the errors and vulnerabilities identified in the tests, which are relevant for the deployment decision, is determined according to defined criteria and actions for timely remediation or mitigation are initiated.                                                                                               | Functional     | Intersects With                                                                                                                                            | Vulnerability Remediation Process                                | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | VPM-02       |
| DEV-07.01AC                                                                                         | Testing Changes    | Pre-launch penetration tests are carried out during the test phase of the cloud service in accordance with the penetration test framework (cf. OPS-22 additional criterion). The severity of identified vulnerabilities is assessed according to defined criteria and actions for timely remediation or mitigation are initiated. | Functional     | Intersects With                                                                                                                                            | Application Penetration Testing                                  | TDA-17.4 | Mechanisms exist to perform application-level penetration testing of custom-made Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | TDA-09.5     |
| DEV-07.01AC                                                                                         | Testing Changes    | Pre-launch penetration tests are carried out during the test phase of the cloud service in accordance with the penetration test framework (cf. OPS-22 additional criterion). The severity of identified vulnerabilities is assessed according to defined criteria and actions for timely remediation or mitigation are initiated. | Functional     | Intersects With                                                                                                                                            | Penetration Testing                                              | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | VPM-07       |
| DEV-08.01B                                                                                          | Logging of Changes | System components for version control and software deployment that are used to manage changes to system components of the cloud service in the production environment are subject to a role and rights framework according to IAM-01 and authorisation mechanisms.                                                                | Functional     | Intersects With                                                                                                                                            | Access Restriction For Change                                    | CHG-04.1 | Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | CHG-04       |
| DEV-08.01B                                                                                          | Logging of Changes | System components for version control and software deployment that are used to manage changes to system components of the cloud service in the production environment are subject to a role and rights framework according to IAM-01 and authorisation mechanisms.                                                                | Functional     | Intersects With                                                                                                                                            | Role-Based Access Control (RBAC)                                 | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | IAC-08       |
| DEV-08.02B                                                                                          | Logging of Changes | The configuration of these system components ensures that all changes performed by the cloud service provider to system components in the production environment are recorded and can be traced back to the individuals or system components contributing to their development, deployment or implementation.                     | Functional     | Intersects With                                                                                                                                            | Post Configuration Change Reviews                                | CHG-11   | Mechanisms exist to perform after-the-fact reviews of configuration change logs to discover any unauthorized changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | CHG-04.1     |
| DEV-08.02B                                                                                          | Logging of Changes | The configuration of these system components ensures that all changes performed by the cloud service provider to system components in the production environment are recorded and can be traced back to the individuals or system components contributing to their development, deployment or implementation.                     | Functional     | Intersects With                                                                                                                                            | Audit Trails                                                     | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | MON-03.2     |
| DEV-08.01AC                                                                                         | Logging of Changes | The cloud service provider enforces the role and rights framework by monitoring the changes made to system components of the cloud service in the production environment. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                        | Functional     | Intersects With                                                                                                                                            | Control Functionality Verification                               | CHG-09   | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | CHG-06       |
| DEV-08.01AC                                                                                         | Logging of Changes | The cloud service provider enforces the role and rights framework by monitoring the changes made to system components of the cloud service in the production environment. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                        | Functional     | Intersects With                                                                                                                                            | Post Configuration Change Reviews                                | CHG-11   | Mechanisms exist to perform after-the-fact reviews of configuration change logs to discover any unauthorized changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | CHG-04.1     |
| DEV-09.01B                                                                                          | Version Control    | The cloud service provider uses a version control system that adequately ensures the confidentiality, integrity and authenticity of the source code during all development stages.                                                                                                                                                | Functional     | Intersects With                                                                                                                                            | Software / Firmware Integrity Verification                       | TDA-20.3 | Mechanisms exist to require developers of Technology Assets, Applications and/or Services (TAAS) to enable integrity verification of software and firmware components.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | TDA-14.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                   | Focal Document:                                                  |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
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| Secure Controls Framework (SCF) version 2026.3                                                      |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                   | Focal Document URL:                                              |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                   | Published STRM URL:                                              |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                               | STRM Rationale | STRM Relationship | SCF Control                                                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |  |
| DEV-09.02B                                                                                          | Version Control                                       | Version control procedures track dependencies of individual changes and attribute each change to individual contributors. The version control procedures are capable of restoring affected system components back to a previous state.                                                                                                                                                                                                                                 | Functional     | Intersects With   | Retention Of Previous Configurations                             | CFG-09   | Mechanisms exist to retain previous versions of secure baseline configuration to support roll back.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                        |       | CFG-02.3     |  |
| DEV-09.02B                                                                                          | Version Control                                       | Version control procedures track dependencies of individual changes and attribute each change to individual contributors. The version control procedures are capable of restoring affected system components back to a previous state.                                                                                                                                                                                                                                 | Functional     | Intersects With   | Software / Firmware Integrity Verification                       | TDA-20.3 | Mechanisms exist to require developers of Technology Assets, Applications and/or Services (TAAS) to enable integrity verification of software and firmware components.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                        |       | TDA-14.1     |  |
| DEV-09.03B                                                                                          | Version Control                                       | Version control covers all internally and externally developed software, configurations and third party commercial products under the responsibility of the cloud service provider.                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Software / Firmware Integrity Verification                       | TDA-20.3 | Mechanisms exist to require developers of Technology Assets, Applications and/or Services (TAAS) to enable integrity verification of software and firmware components.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-14.1     |  |
| DEV-09.01AC                                                                                         | Version Control                                       | Version control procedures provide appropriate safeguards to ensure that the integrity and availability of cloud service customer data is not compromised when system components are restored back to their previous state.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Retention Of Previous Configurations                             | CFG-09   | Mechanisms exist to retain previous versions of secure baseline configuration to support roll back.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                        |       | CFG-02.3     |  |
| DEV-09.01AC                                                                                         | Version Control                                       | Version control procedures provide appropriate safeguards to ensure that the integrity and availability of cloud service customer data is not compromised when system components are restored back to their previous state.                                                                                                                                                                                                                                            | Functional     | Intersects With   | Software / Firmware Integrity Verification                       | TDA-20.3 | Mechanisms exist to require developers of Technology Assets, Applications and/or Services (TAAS) to enable integrity verification of software and firmware components.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | TDA-14.1     |  |
| DEV-09.02AC                                                                                         | Version Control                                       | The cloud service provider keeps a record of all deployed software versions and system configurations. This record enables the recreation of a previously implemented environment in a test environment. The retention time for this history is risk-based (cf. OIS-07), defined in the policy for version control and aligned to the support life cycle of the cloud service.                                                                                         | Functional     | Intersects With   | Retention Of Previous Configurations                             | CFG-09   | Mechanisms exist to retain previous versions of secure baseline configuration to support roll back.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | CFG-02.3     |  |
| DEV-10.01B                                                                                          | Approvals for Provision in the Production Environment | Authorised personnel or system components of the cloud service provider approve changes to the cloud service based on defined criteria (e.g. test results and required approvals) before these are made available to the cloud service customers in the production                                                                                                                                                                                                     | Functional     | Intersects With   | Configuration Change Control                                     | CHG-03   | Mechanisms exist to govern the technical configuration change control processes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        |       | CHG-02       |  |
| DEV-10.01B                                                                                          | Approvals for Provision in the Production Environment | Authorised personnel or system components of the cloud service provider approve changes to the cloud service based on defined criteria (e.g. test results and required approvals) before these are made available to the cloud service customers in the production                                                                                                                                                                                                     | Functional     | Intersects With   | Authorize Technology Assets, Applications and/or Services (TAAS) | GOV-11.4 | Mechanisms exist to compel data and/or process owners to obtain authorization for the production use of each Technology Asset, Application and/or Service (TAAS) under their control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | GOV-15.4     |  |
| DEV-10.02B                                                                                          | Provision in the Production                           | Cloud service customers are involved in the release according to contractual agreements.                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Stakeholder Notification of Changes                              | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | CHG-05       |  |
| DEV-10.01AC                                                                                         | Approvals for Provision in the Production Environment | The approval process is monitored. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Control Functionality Verification                               | CHG-09   | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | CHG-06       |  |
| DEV-10.01AC                                                                                         | Approvals for Provision in the Production Environment | The approval process is monitored. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Capabilities Deficiency Tracking                                 | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |  |
| DEV-11.01B                                                                                          | Protection of Development and Test Environments       | Development and test environments under the responsibility of the cloud service provider undergo a risk assessment (cf. OIS-07) and are protected with appropriate security measures against identified risks. This also includes extending the backup plan (cf. OPS-06) to the necessary parts of those environments.                                                                                                                                                 | Functional     | Intersects With   | Data Backups                                                     | BCD-24   | Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfy Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                        |       | BCD-11       |  |
| DEV-11.01B                                                                                          | Protection of Development and Test Environments       | Development and test environments under the responsibility of the cloud service provider undergo a risk assessment (cf. OIS-07) and are protected with appropriate security measures against identified risks. This also includes extending the backup plan (cf. OPS-06) to the necessary parts of those environments.                                                                                                                                                 | Functional     | Intersects With   | Secure Development Environments                                  | TDA-15   | Mechanisms exist to maintain a segmented development network to ensure a secure development environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                        |       | TDA-07       |  |
| DEV-12.01B                                                                                          | Separation of Environments                            | Production environments are physically or logically separated from test or development environments to prevent unauthorised access to cloud service customer data, the spread of malware, or unintended changes to system components. Cloud service customer data contained in the production environments is not used in test or development environments, unless explicitly approved by cloud service customers, in order not to compromise their confidentiality.   | Functional     | Intersects With   | Separation of Development, Testing and Operational Environments  | TDA-15.1 | Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational environment and to ensure no impact to production Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                        |       | TDA-08       |  |
| DEV-12.01B                                                                                          | Separation of Environments                            | Production environments are physically or logically separated from test or development environments to prevent unauthorised access to cloud service customer data, the spread of malware, or unintended changes to system components. Cloud service customer data contained in the production environments is not used in test or development environments, unless explicitly approved by cloud service customers, in order not to compromise their confidentiality.   | Functional     | Intersects With   | Use of Live Data                                                 | TDA-18   | Mechanisms exist to approve, document and control the use of live data in development and test environments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | TDA-10       |  |
| DEV-12.02B                                                                                          | Separation of Environments                            | Unless unavoidable, the cloud service provider does not reuse the cryptographic secret and private keys and other secrets used in production environments in other, non-production environments. Any unavoidable reuse of the cryptographic secret and private keys between production and non-production environments is documented and justified in accordance with the process for handling exceptions (cf. SP-03) and the risk management procedures (cf. OIS-07). | Functional     | Intersects With   | Cryptographic Key Management                                     | CRY-10   | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | CRY-09       |  |
| DEV-13.01B                                                                                          | Transparency about Software Components                | The cloud service provider ensures that, as part of the software development process, a list of software components is created, maintained, and kept up-to-date for every developed or integrated software component.                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                        |       | TDA-04.2     |  |
| DEV-13.02B                                                                                          | Transparency about Software Components                | The cloud service provider maintains a list of software components for integrated software components as well, except where such information is not available and cannot be produced with reasonable effort. The risk from these exceptions is treated according to SP-03.                                                                                                                                                                                             | Functional     | Intersects With   | Exception Management                                             | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | GOV-02.1     |  |
| DEV-13.02B                                                                                          | Transparency about Software Components                | The cloud service provider maintains a list of software components for integrated software components as well, except where such information is not available and cannot be produced with reasonable effort. The risk from these exceptions is treated according to SP-03.                                                                                                                                                                                             | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | TDA-04.2     |  |
| DEV-14.01B                                                                                          | Secure Use of Third Party Hardware and Software       | Policies and procedures for the use of third party and open source software are documented, communicated and provided in accordance with SP-01.                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Open Source Software                                             | CFG-13   | Mechanisms exist to establish parameters for the secure use of open source software.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | CFG-04.1     |  |
| DEV-14.01B                                                                                          | Secure Use of Third Party Hardware and Software       | Policies and procedures for the use of third party and open source software are documented, communicated and provided in accordance with SP-01.                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation       | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | GOV-02       |  |
| DEV-14.02B                                                                                          | Secure Use of Third Party Hardware and Software       | For the hardware and software products (cf. DEV-13) used in the development of the cloud service, a list of dependencies to those products is maintained.                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Hardware Bill of Materials (HBOM)                                | TDA-21.2 | Mechanisms exist to generate, or obtain, a Hardware Bill of Materials (HBOM) for Technology Assets, Applications and/or Services (TAAS) that lists hardware components in use, including component identifiers, versions and suppliers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       |              |  |

| FDE #        | FDE Name                                                                     | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                 | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
|--------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| DEV-14.02B   | Secure Use of Third Party Hardware and Software                              | For the hardware and software products (cf. DEV-13) used in the development of the cloud service, a list of dependencies to those products is maintained.                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Software Bill of Materials (SBOM)                          | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                  | 5                        |       | TDA-04.2     |
| DEV-14.03B   | Secure Use of Third Party Hardware and Software                              | Only trusted sources are used to retrieve third party software. Whenever possible, the authenticity of the software is verified.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Signed Components                                          | CHG-13   | Mechanisms exist to prevent the installation of software and firmware components without verification that the component has been digitally signed using an organization-approved certificate authority.                                                                                                                                  | 3                        |       | CHG-04.2     |
| DEV-14.03B   | Secure Use of Third Party Hardware and Software                              | Only trusted sources are used to retrieve third party software. Whenever possible, the authenticity of the software is verified.                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Product Tampering and Counterfeiting (PTC)                 | TDA-09   | Mechanisms exist to maintain awareness of component authenticity by developing and implementing Product Tampering and Counterfeiting (PTC) practices that include the means to detect and prevent counterfeit components.                                                                                                                 | 5                        |       | TDA-11       |
| DEV-14.01AC  | Secure Use of Third Party Hardware and Software                              | In procurement for the development of the cloud service, the cloud service provider performs a risk assessment in accordance with OIS-07 for every hardware and software product.                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Risk Assessment                                            | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                     | 3                        |       | RSK-04       |
| DEV-14.01AC  | Secure Use of Third Party Hardware and Software                              | In procurement for the development of the cloud service, the cloud service provider performs a risk assessment in accordance with OIS-07 for every hardware and software product.                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                   | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 5                        |       | TPM-04.1     |
| DEV-15.01B   | Exceptions to the Change Management Process                                  | The cloud service provider's change management process implements procedures for managing exceptions, including emergency changes, to ensure related risks are appropriately mitigated.                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Change Management Program                                  | CHG-02   | Mechanisms exist to facilitate the implementation of a change management program.                                                                                                                                                                                                                                                         | 5                        |       | CHG-01       |
| DEV-15.01B   | Exceptions to the Change Management Process                                  | The cloud service provider's change management process implements procedures for managing exceptions, including emergency changes, to ensure related risks are appropriately mitigated.                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Exception Management                                       | GOV-04.2 | Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and                                                                                                                                                                                                  | 3                        |       | GOV-02.1     |
| 5.12         | Monitoring of Service Providers and Suppliers                                | Objective: Ensure the protection of information that service providers or suppliers of the cloud service provider (service organisation) can access and monitor the agreed services and security requirements.                                                                                                                                                                                                                                                           | Functional     | No Relationship   | N/A                                                        | N/A      | N/A                                                                                                                                                                                                                                                                                                                                       | 0                        |       |              |
| SSO-01.01B   | Policies and Procedures for Controlling and Monitoring Service Organisations | Policies and procedures for controlling and monitoring service organisations whose services contribute to the development or operation of the cloud service are documented, communicated and provided in accordance with SP-01 with respect to the following aspects:                                                                                                                                                                                                    | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                    | 3                        |       | GOV-02       |
| SSO-01.01B   | Policies and Procedures for Controlling and Monitoring Service Organisations | Policies and procedures for controlling and monitoring service organisations whose services contribute to the development or operation of the cloud service are documented, communicated and provided in accordance with SP-01 with respect to the following aspects:                                                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Management                                     | TPM-02   | Mechanisms exist to facilitate the implementation of third-party management controls.                                                                                                                                                                                                                                                     | 8                        |       | TPM-01       |
| SSO-01.01B.1 | Policies and Procedures for Controlling and Monitoring Service Organisations | Requirements for the assessment of risks resulting from the procurement of third-party services;                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Supply Chain Risk Management (SCRM) Plan                   | RSK-20   | Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of Technology Assets, Applications and/or Services (TAAS), including documenting selected mitigating actions and monitoring performance against those plans.                            | 3                        |       | RSK-09       |
| SSO-01.01B.1 | Policies and Procedures for Controlling and Monitoring Service Organisations | Requirements for the assessment of risks resulting from the procurement of third-party services;                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                   | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                       | 5                        |       | TPM-04.1     |
| SSO-01.01B.2 | Policies and Procedures for Controlling and Monitoring Service Organisations | Requirements for the classification of service organisations based on the risk assessment by the cloud service provider and the determination of whether the service organisation is a subservice organisation;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Third-Party Criticality Assessments                        | TPM-09   | Mechanisms exist to identify, prioritize and assess suppliers and partners of critical Technology Assets, Applications and/or Services (TAAS) using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.                                                                | 5                        |       | TPM-02       |
| SSO-01.01B.3 | Policies and Procedures for Controlling and Monitoring Service Organisations | Information security requirements for the processing, storage or transmission of information by service organisations based on the established rules of technology, and under consideration of the criteria in this catalogue;                                                                                                                                                                                                                                           | Functional     | Intersects With   | Third-Party Contract Requirements                          | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                              | 5                        |       | TPM-05       |
| SSO-01.01B.4 | Policies and Procedures for Controlling and Monitoring Service Organisations | Information security awareness and training requirements for personnel;                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Vendor-Specific Security, Compliance & Resilience Training | SAT-05.4 | Mechanisms exist to incorporate vendor-specific security, compliance and resilience training in support of new technology initiatives.                                                                                                                                                                                                    | 5                        |       | SAT-03.4     |
| SSO-01.01B.5 | Policies and Procedures for Controlling and Monitoring Service Organisations | Applicable legal and regulatory requirements;                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance             | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                          | 5                        |       | CPL-01       |
| SSO-01.01B.6 | Policies and Procedures for Controlling and Monitoring Service Organisations | Requirements for dealing with vulnerabilities, security incidents and incidents;                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Third-Party Incident Response & Recovery Capabilities      | TPM-21   | Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.                                                                                                                                                                                                                        | 5                        |       | TPM-11       |
| SSO-01.01B.7 | Policies and Procedures for Controlling and Monitoring Service Organisations | Specifications for the contractual agreement of these requirements;                                                                                                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Third-Party Contract Requirements                          | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                              | 5                        |       | TPM-05       |
| SSO-01.01B.8 | Policies and Procedures for Controlling and Monitoring Service Organisations | Specifications for the monitoring of these requirements; and                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Review of Third-Party Services                             | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 5                        |       | TPM-08       |
| SSO-01.01B.9 | Policies and Procedures for Controlling and Monitoring Service Organisations | Specifications for applying these requirements also to subservice organisations used by the service organisations, insofar as the services provided by these subservice organisations also contribute to the development or operation of the cloud service.                                                                                                                                                                                                              | Functional     | Intersects With   | Contract Flow-Down Requirements                            | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                                                               | 8                        |       | TPM-05.2     |
| SSO-01.01AC  | Policies and Procedures for Controlling and Monitoring Service Organisations | Subservice organisations of the cloud service provider are contractually obliged to provide regular reports by independent auditors on the suitability of the design and operating effectiveness of their service-related system of internal control system that allow the cloud service provider to determine whether the subservice organisation designed and operated controls that are commensurate with the expected complementary subservice organisation controls | Functional     | Intersects With   | Third-Party Attestation (3PA)                              | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors. | 8                        |       | TPM-05.8     |
| SSO-01.02AC  | Policies and Procedures for Controlling and Monitoring Service Organisations | In case no such reports can be provided, the cloud service provider agrees appropriate information and audit rights to assess the design and operations of the service-related system of internal control regarding the expected CSOC.                                                                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Contract Requirements                          | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                              | 5                        |       | TPM-05       |
| SSO-01.02AC  | Policies and Procedures for Controlling and Monitoring Service Organisations | In case no such reports can be provided, the cloud service provider agrees appropriate information and audit rights to assess the design and operations of the service-related system of internal control regarding the expected CSOC.                                                                                                                                                                                                                                   | Functional     | Intersects With   | Review of Third-Party Services                             | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 3                        |       | TPM-08       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document:                                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                            |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document URL:                                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                         |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Published STRM URL:                                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                 |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                 | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STRM Rationale | STRM Relationship | SCF Control                                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                            | Strength of Relationship | Notes | Legacy SCF # |  |
| SSO-02.01B                                                                                          | Risk Assessment of Service Organisations | Service organisations of the cloud service provider undergo a risk assessment in accordance with the policies and procedures for the control and monitoring of service organisations prior to contributing to the development or operation of the cloud service. The risk assessment includes the identification, analysis, evaluation, treatment and documentation of risks with regard to the following aspects:                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Supply Chain Risk Assessment (SCRA)                                       | RSK-21   | Mechanisms exist to periodically assess supply chain risks associated with Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                             | 5                        |       | RSK-09.1     |  |
| SSO-02.01B                                                                                          | Risk Assessment of Service Organisations | Service organisations of the cloud service provider undergo a risk assessment in accordance with the policies and procedures for the control and monitoring of service organisations prior to contributing to the development or operation of the cloud service. The risk assessment includes the identification, analysis, evaluation, treatment and documentation of risks with regard to the following aspects:                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                                  | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                            | 8                        |       | TPM-04.1     |  |
| SSO-02.01B.1                                                                                        | Risk Assessment of Service Organisations | Protection needs regarding the confidentiality, integrity, availability and authenticity of cloud service customer data, cloud service derived data, cloud service provider data and account data processed, stored or transmitted by the service organisation;                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Data & Asset Classification                                               | DCH-04   | Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.                                                                                                                                                   | 3                        |       | DCH-02       |  |
| SSO-02.01B.1                                                                                        | Risk Assessment of Service Organisations | Protection needs regarding the confidentiality, integrity, availability and authenticity of cloud service customer data, cloud service derived data, cloud service provider data and account data processed, stored or transmitted by the service organisation;                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                     | TPM-12.2 | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                                                                    | 5                        |       | TPM-04.4     |  |
| SSO-02.01B.2                                                                                        | Risk Assessment of Service Organisations | Impact of a protection breach on the provision of the cloud service;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Business Impact Analysis (BIA)                                            | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                 | 3                        |       | RSK-08       |  |
| SSO-02.01B.2                                                                                        | Risk Assessment of Service Organisations | Impact of a protection breach on the provision of the cloud service;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                                  | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                            | 3                        |       | TPM-04.1     |  |
| SSO-02.01B.3                                                                                        | Risk Assessment of Service Organisations | The cloud service provider's dependence on the service organisation for the scope, complexity and uniqueness of the provided service, including the consideration of possible alternatives;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Approved Technologies                                                     | AST-10   | Mechanisms exist to maintain a current list of approved technologies (hardware and software).                                                                                                                                                                                                  | 3                        |       | AST-01.4     |  |
| SSO-02.01B.3                                                                                        | Risk Assessment of Service Organisations | The cloud service provider's dependence on the service organisation for the scope, complexity and uniqueness of the provided service, including the consideration of possible alternatives;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Supply Chain Risk Management (SCRM)                                       | TPM-04   | Mechanisms exist to:<br>(1) Evaluate security risks and threats associated with Technology Assets, Applications and/or Services (TAAS) supply chains; and<br>(2) Take appropriate remediation actions to minimize the organization's exposure to those risks and threats, as necessary.        | 3                        |       | TPM-03       |  |
| SSO-02.01B.4                                                                                        | Risk Assessment of Service Organisations | Complementary subservice organisation controls (CSOCs) assumed in the design of cloud service provider's controls to meet the applicable CS criteria;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix | TPM-11   | Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for security, compliance and resilience controls between internal stakeholders and External Service Providers (ESPs). | 3                        |       | TPM-05.4     |  |
| SSO-02.01B.5                                                                                        | Risk Assessment of Service Organisations | Deviations regarding the design and operation of CSOCs assumed at service organisations considered as subservice organisations and mitigating measures by the cloud service provider to address such deviations;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Third-Party Deficiency Remediation                                        | TPM-18   | Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.                                                                                                                                  | 5                        |       | TPM-09       |  |
| SSO-02.01B.6                                                                                        | Risk Assessment of Service Organisations | The ability of the cloud service provider to diversify sources of supply and limit vendor lock-in;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Supplier Diversity                                                        | TPM-06   | Mechanisms exist to obtain security, compliance and resilience technologies from different suppliers to minimize supply chain risk.                                                                                                                                                            | 5                        |       | TDA-03.1     |  |
| SSO-02.01B.7                                                                                        | Risk Assessment of Service Organisations | Whether service organisations used by the cloud service provider themselves use subcontracted service organisations (subcontractors) that contribute to the development and operation of the cloud service; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Contract Flow-Down Requirements                                           | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                    | 5                        |       | TPM-05.2     |  |
| SSO-02.01B.8                                                                                        | Risk Assessment of Service Organisations | If service organisations used by the cloud service provider themselves use subcontractors, the types of data processed by the subcontractors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                     | TPM-12.2 | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                                                                    | 3                        |       | TPM-04.4     |  |
| SSO-02.01B.8                                                                                        | Risk Assessment of Service Organisations | If service organisations used by the cloud service provider themselves use subcontractors, the types of data processed by the subcontractors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Contract Flow-Down Requirements                                           | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                    | 3                        |       | TPM-05.2     |  |
| SSO-02.02B                                                                                          | Risk Assessment of Service Organisations | The adequacy of the risk assessment is reviewed regularly, at least annually, by qualified personnel of the cloud service provider during service usage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Risk Assessment Update                                                    | RSK-13.2 | Mechanisms exist to routinely update risk assessments and react accordingly upon identifying new security vulnerabilities, including using outside sources for security vulnerability information.                                                                                             | 3                        |       | RSK-07       |  |
| SSO-02.02B                                                                                          | Risk Assessment of Service Organisations | The adequacy of the risk assessment is reviewed regularly, at least annually, by qualified personnel of the cloud service provider during service usage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                                  | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                                                                            | 5                        |       | TPM-04.1     |  |
| SSO-03.01B                                                                                          | Data Processing of Service Organisations | If the cloud service provider relies on assets from a supplier or on services from subservice organisations for the operation of the cloud service, it does not allow those suppliers or service organisations to access any cloud service customer data, cloud service derived data or account data. Exceptions are made only if the cloud service provider has performed a risk assessment according to OIS-07 on the possibility of cloud service customer data, cloud service derived data or account data being exposed.                                                                                                                                                                                   | Functional     | Intersects With   | Access Enforcement                                                        | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                       | 3                        |       | IAC-20       |  |
| SSO-03.01B                                                                                          | Data Processing of Service Organisations | If the cloud service provider relies on assets from a supplier or on services from subservice organisations for the operation of the cloud service, it does not allow those suppliers or service organisations to access any cloud service customer data, cloud service derived data or account data. Exceptions are made only if the cloud service provider has performed a risk assessment according to OIS-07 on the possibility of cloud service customer data, cloud service derived data or account data being exposed.                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                     | TPM-12.2 | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                                                                    | 5                        |       | TPM-04.4     |  |
| SSO-03.02B                                                                                          | Data Processing of Service Organisations | The cloud service provider obtains written authorisation of the customer prior to the processing of cloud service customer data, cloud service derived data or account data when engaging service organisations. This can be achieved by authorisation of the customer, per service organisation, or by way of a general pre-authorisation between the cloud service provider and the customer.                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                     | TPM-12.2 | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                                                                    | 3                        |       | TPM-04.4     |  |
| SSO-03.02B                                                                                          | Data Processing of Service Organisations | The cloud service provider obtains written authorisation of the customer prior to the processing of cloud service customer data, cloud service derived data or account data when engaging service organisations. This can be achieved by authorisation of the customer, per service organisation, or by way of a general pre-authorisation between the cloud service provider and the customer.                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Third-Party Contract Requirements                                         | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or Data (TAASD).                                     | 3                        |       | TPM-05       |  |
| SSO-03.01AS                                                                                         | Data Processing of Service Organisations | SSO-03.01AS, sharpening SSO-03.01B<br>If the cloud service provider relies on assets from a supplier or on services from subservice organisations for the operation of the cloud service, it does not allow those suppliers or service organisations to access any cloud service customer data, cloud service derived data or account data. Exceptions are made only if the cloud service provider has performed a risk assessment according to OIS-07 on the possibility of cloud service customer data, cloud service derived data or account data being exposed, and it is ensured that all operations requiring access to those data types are performed or supervised by authorised personnel (cf. HR-01). | Functional     | Intersects With   | Access Enforcement                                                        | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                       | 3                        |       | IAC-20       |  |
| SSO-03.01AS                                                                                         | Data Processing of Service Organisation  | SSO-03.01AS, sharpening SSO-03.01B<br>If the cloud service provider relies on assets from a supplier or on services from subservice organisations for the operation of the cloud service, it does not allow those suppliers or service organisations to access any cloud service customer data, cloud service derived data or account data. Exceptions are made only if the cloud service provider has performed a risk assessment according to OIS-07 on the possibility of cloud service customer data, cloud service derived data or account data being exposed, and it is ensured that all operations requiring access to those data types are performed or supervised by authorised personnel (cf. HR-01). | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                     | TPM-12.2 | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                                                                    | 5                        |       | TPM-04.4     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                            |                                                                                                                                                                                                                                                  |                |                   | Focal Document:                                                        |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                       |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                            |                                                                                                                                                                                                                                                  |                |                   | Focal Document URL:                                                    |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                    |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                            |                                                                                                                                                                                                                                                  |                |                   | Published STRM URL:                                                    |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                            |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                   | Focal Document Element (FDE) Description                                                                                                                                                                                                         | STRM Rationale | STRM Relationship | SCF Control                                                            | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |  |
| SSO-04.01B                                                                                          | Directory of Service Organisations         | The cloud service provider maintains a directory for controlling and monitoring the service organisations that contribute services to the delivery of the cloud service. The following information is maintained in the directory:               | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 8                        |       | TPM-01.1     |  |
| SSO-04.01B.1                                                                                        | Directory of Service Organisations         | Company name;                                                                                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.2                                                                                        | Directory of Service Organisations         | Address of the head office;                                                                                                                                                                                                                      | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.3                                                                                        | Directory of Service Organisations         | Applicable legal jurisdiction;                                                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.4                                                                                        | Directory of Service Organisations         | Locations where cloud service customer data, cloud service derived data, cloud service provider data and account data is processed and stored;                                                                                                   | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations | DCH-30.1 | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                                                                                                              | 3                        |       | CLD-09       |  |
| SSO-04.01B.4                                                                                        | Directory of Service Organisations         | Locations where cloud service customer data, cloud service derived data, cloud service provider data and account data is processed and stored;                                                                                                   | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.5                                                                                        | Directory of Service Organisations         | Responsible contact group/person at the service organisation;                                                                                                                                                                                    | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.6                                                                                        | Directory of Service Organisations         | Responsible contact group/person at the cloud service provider;                                                                                                                                                                                  | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.7                                                                                        | Directory of Service Organisations         | Description of the service;                                                                                                                                                                                                                      | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.8                                                                                        | Directory of Service Organisations         | Classification based on the risk assessment;                                                                                                                                                                                                     | Functional     | Intersects With   | Third-Party Criticality Assessments                                    | TPM-09   | Mechanisms exist to identify, prioritize and assess suppliers and partners of critical Technology Assets, Applications and/or Services (TAAS) using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.                                                                | 3                        |       | TPM-02       |  |
| SSO-04.01B.9                                                                                        | Directory of Service Organisations         | Beginning of service usage; and                                                                                                                                                                                                                  | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 3                        |       | TPM-01.1     |  |
| SSO-04.01B.10                                                                                       | Directory of Service Organisations         | Proof of compliance with contractually agreed requirements.                                                                                                                                                                                      | Functional     | Intersects With   | Review of Third-Party Services                                         | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 3                        |       | TPM-08       |  |
| SSO-04.02B                                                                                          | Directory of Service Organisations         | The inventory is reviewed at least annually for completeness, accuracy and validity of the information.                                                                                                                                          | Functional     | Intersects With   | Third-Party Inventories                                                | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                | 5                        |       | TPM-01.1     |  |
| SSO-05.01B                                                                                          | Monitoring of Compliance with Requirements | The cloud service provider monitors compliance with information security requirements and applicable legal and regulatory requirements in accordance with policies and procedures concerning controlling and monitoring of service organisation. | Functional     | Intersects With   | Review of Third-Party Services                                         | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 8                        |       | TPM-08       |  |
| SSO-05.02B                                                                                          | Monitoring of Compliance with Requirements | Monitoring includes a regular review of the following information to the extent that such information is to be provided by service organisations in accordance with the contractual agreements:                                                  | Functional     | Intersects With   | Review of Third-Party Services                                         | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 5                        |       | TPM-08       |  |
| SSO-05.02B.1                                                                                        | Monitoring of Compliance with Requirements | Reports on the quality of the service provided;                                                                                                                                                                                                  | Functional     | Intersects With   | Review of Third-Party Services                                         | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 3                        |       | TPM-08       |  |
| SSO-05.02B.2                                                                                        | Monitoring of Compliance with Requirements | Certificates of the management systems' compliance with international standards;                                                                                                                                                                 | Functional     | Intersects With   | Third-Party Attestation (3PA)                                          | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors. | 5                        |       | TPM-05.8     |  |
| SSO-05.02B.3                                                                                        | Monitoring of Compliance with Requirements | Records of the service organisations on the handling of vulnerabilities, security incidents and incidents;                                                                                                                                       | Functional     | Intersects With   | Third-Party Incident Response & Recovery Capabilities                  | TPM-21   | Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.                                                                                                                                                                                                                        | 5                        |       | TPM-11       |  |
| SSO-05.02B.4                                                                                        | Monitoring of Compliance with Requirements | Independent third party reports on the design and operation of their service-related system of internal control; and                                                                                                                             | Functional     | Intersects With   | Third-Party Attestation (3PA)                                          | TPM-23   | Mechanisms exist to obtain an attestation from an independent Third-Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for security, compliance and resilience controls, including any flow-down requirements to contractors and subcontractors. | 5                        |       | TPM-05.8     |  |
| SSO-05.02B.5                                                                                        | Monitoring of Compliance with Requirements | If service organisations used by the cloud service provider themselves use subcontractors, the compliance of their subcontractors with relevant contractual, legal and regulatory requirements.                                                  | Functional     | Intersects With   | Contract Flow-Down Requirements                                        | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                                                               | 5                        |       | TPM-05.2     |  |
| SSO-05.02B.5                                                                                        | Monitoring of Compliance with Requirements | If service organisations used by the cloud service provider themselves use subcontractors, the compliance of their subcontractors with relevant contractual, legal and regulatory requirements.                                                  | Functional     | Intersects With   | Review of Third-Party Services                                         | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                                                                                                                                     | 3                        |       | TPM-08       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document:                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                               |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Secure Controls Framework (SCF) version 2026.3                                                      |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Focal Document URL:                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                            |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                   | Published STRM URL:                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                    |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                               | Strength of Relationship | Notes | Legacy SCF # |  |
| SSO-05.03B                                                                                          | Monitoring of Compliance with Requirements              | The frequency of the monitoring corresponds to the classification of the service organisation based on the risk assessment conducted by the cloud service provider (cf. SSO-02).                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 3                        |       | TPM-08       |  |
| SSO-05.04B                                                                                          | Monitoring of Compliance with Requirements              | If a service organisation is considered to be a subservice organisation, the cloud service provider assesses this relationship and carries out appropriate procedures to ensure that the applicable C5 criteria are met. Appropriate procedures provide reasonable assurance:                                                                                                                                                                      | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 5                        |       | TPM-08       |  |
| SSO-05.04B.1                                                                                        | Monitoring of Compliance with Requirements              | That the subservice organisation has designed and operated relevant controls; and                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 3                        |       | TPM-08       |  |
| SSO-05.04B.2                                                                                        | Monitoring of Compliance with Requirements              | That the subservice organisation's controls correspond to the expected complementary subservice organisation controls (CSOCs) assumed in the design of the cloud service providers controls.                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 3                        |       | TPM-08       |  |
| SSO-05.05B                                                                                          | Monitoring of Compliance with Requirements              | Identified deviations are subjected to analysis, evaluation and treatment in accordance with the risk assessment of service organisations (cf. SSO-02).                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Third-Party Deficiency Remediation                        | TPM-18   | Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.                                                                     | 5                        |       | TPM-09       |  |
| SSO-05.06B                                                                                          | Monitoring of Compliance with Requirements              | If a service organisation contributing to the provision of the cloud service undergoes a change that has a significant adverse effect on the cloud service provider's level of security, the cloud service provider communicates this to all of its cloud service customers without undue delay.                                                                                                                                                   | Functional     | Intersects With   | Stakeholder Notification of Changes                       | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                          | 5                        |       | CHG-05       |  |
| SSO-05.06B                                                                                          | Monitoring of Compliance with Requirements              | If a service organisation contributing to the provision of the cloud service undergoes a change that has a significant adverse effect on the cloud service provider's level of security, the cloud service provider communicates this to all of its cloud service customers without undue delay.                                                                                                                                                   | Functional     | Intersects With   | Incident Stakeholder Reporting                            | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                              | 3                        |       | IRO-10       |  |
| SSO-05.07B                                                                                          | Monitoring of Compliance with Requirements              | The cloud service provider establishes and documents a procedure to regularly review non-disclosure or confidentiality requirements for all service organisations involved in providing the cloud service. This procedure is implemented in practice, and the review is conducted at least once per year.                                                                                                                                          | Functional     | Intersects With   | Confidentiality Agreements                                | HRS-07.1 | Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, for both employees and third parties.                          | 5                        |       | HRS-06.1     |  |
| SSO-05.07B                                                                                          | Monitoring of Compliance with Requirements              | The cloud service provider establishes and documents a procedure to regularly review non-disclosure or confidentiality requirements for all service organisations involved in providing the cloud service. This procedure is implemented in practice, and the review is conducted at least once per year.                                                                                                                                          | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 3                        |       | TPM-08       |  |
| SSO-05.01AC                                                                                         | Monitoring of Compliance with Requirements              | The procedures for monitoring compliance with the requirements are supplemented by automatic procedures relating to the following aspects:                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 5                        |       | TPM-08       |  |
| SSO-05.01AC.1                                                                                       | Monitoring of Compliance with Requirements              | Configuration of system components;                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                   | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                    | 3                        |       | CFG-06       |  |
| SSO-05.01AC.2                                                                                       | Monitoring of Compliance with Requirements              | Performance and availability of system components;                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Performance Monitoring                                    | CAP-05   | Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical Technology Assets, Applications and/or Services (TAAS).                                                            | 3                        |       | CAP-04       |  |
| SSO-05.01AC.3                                                                                       | Monitoring of Compliance with Requirements              | Response time to incidents and security incidents; and                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Third-Party Incident Response & Recovery Capabilities     | TPM-21   | Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.                                                                                                                | 3                        |       | TPM-11       |  |
| SSO-05.01AC.4                                                                                       | Monitoring of Compliance with Requirements              | Recovery time (time until completion of error handling).                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)              | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                       | 3                        |       | BCD-01.4     |  |
| SSO-05.02AC                                                                                         | Monitoring of Compliance with Requirements              | Identified violations and discrepancies are automatically reported to the responsible personnel or system components of the cloud service provider for prompt assessment and action.                                                                                                                                                                                                                                                               | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness. | 3                        |       | MON-01.4     |  |
| SSO-05.02AC                                                                                         | Monitoring of Compliance with Requirements              | Identified violations and discrepancies are automatically reported to the responsible personnel or system components of the cloud service provider for prompt assessment and action.                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Third-Party Deficiency Remediation                        | TPM-18   | Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.                                                                     | 3                        |       | TPM-09       |  |
| SSO-05.03AC                                                                                         | Monitoring of Compliance with Requirements              | The cloud service provider defines and implements a process for conducting periodic security assessments for all service organisations. The nature and scope of these security assessments correspond to the risk associated with each service organisation. These risk-based security assessments ensure that service organisations meet the required security standards and that any potential risks are identified and mitigated appropriately. | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals                  | TPM-10   | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                               | 3                        |       | TPM-04.1     |  |
| SSO-05.03AC                                                                                         | Monitoring of Compliance with Requirements              | The cloud service provider defines and implements a process for conducting periodic security assessments for all service organisations. The nature and scope of these security assessments correspond to the risk associated with each service organisation. These risk-based security assessments ensure that service organisations meet the required security standards and that any potential risks are identified and mitigated appropriately. | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 5                        |       | TPM-08       |  |
| SSO-06.01B                                                                                          | Contract Termination Strategy for Service Organisations | The cloud service provider has defined and documented contract termination or exit strategies for the purchase of services where the risk assessment of the service organisations regarding the scope, complexity and uniqueness of the service provided resulted in a very high dependency (cf. Supplementary Information).                                                                                                                       | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 8                        |       | TPM-05.7     |  |
| SSO-06.02B                                                                                          | Contract Termination Strategy for Service Organisations | Exit strategies are aligned with operational continuity plans and include the following aspects:                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Business Continuity Management System (BCMS)              | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.   | 3                        |       | BCD-01       |  |
| SSO-06.02B                                                                                          | Contract Termination Strategy for Service Organisations | Exit strategies are aligned with operational continuity plans and include the following aspects:                                                                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 5                        |       | TPM-05.7     |  |
| SSO-06.02B.1                                                                                        | Contract Termination Strategy for Service Organisations | Analysis of the potential costs, impacts, resources and timing of the transition of a purchased service to an alternative service organisation;                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 3                        |       | TPM-05.7     |  |
| SSO-06.02B.2                                                                                        | Contract Termination Strategy for Service Organisations | Definition and allocation of roles, responsibilities and sufficient resources to perform the activities for a transition;                                                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 3                        |       | TPM-05.7     |  |
| SSO-06.02B.3                                                                                        | Contract Termination Strategy for Service Organisations | Definition of success criteria for the transition; and                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 3                        |       | TPM-05.7     |  |
| SSO-06.02B.4                                                                                        | Contract Termination Strategy for Service Organisations | Definition of indicators for monitoring the performance of services, which should initiate the withdrawal from the service if the results are unacceptable.                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Review of Third-Party Services                            | TPM-15   | Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for security, compliance and resilience controls.                             | 3                        |       | TPM-08       |  |
| SSO-06.02B.4                                                                                        | Contract Termination Strategy for Service Organisations | Definition of indicators for monitoring the performance of services, which should initiate the withdrawal from the service if the results are unacceptable.                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Break Clauses                                             | TPM-19   | Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for security, compliance and/or resilience controls.                                                                           | 3                        |       | TPM-05.7     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                               |                                                                                                                                                                                                                                                                                                                                                |                | Focal Document: Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                        |                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                               |                                                                                                                                                                                                                                                                                                                                                |                | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                               |                                                                                                                                                                                                                                                                                                                                                |                | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |
| FDE #                                                                                               | FDE Name                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship                                                                                                                                          | SCF Control                                         | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |
| SSO-07.01B                                                                                          | Ensuring Transparency within Service Organisations            | The cloud service provider designs, implements and maintains controls to ensure transparency within its service organisations with respect to the following aspects:                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Third-Party Management                              | TPM-02   | Mechanisms exist to facilitate the implementation of third-party management controls.                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | TPM-01       |
| SSO-07.01B.1                                                                                        | Ensuring Transparency within Service Organisations            | Data flow and interfaces between the cloud service provider and service organisations used by the cloud service provider are documented, including measures regarding the secure transmission and access control for data shared with service organisations; and                                                                               | Functional     | Intersects With                                                                                                                                            | Data Action Mapping                                 | AST-17.2 | Mechanisms exist to create and maintain a map of Technology Assets, Applications and/or Services (TAAS) where sensitive and/or regulated data is stored, transmitted or processed.                                                                                                                                                                                                                                                                           | 5                        |       | AST-02.8     |
| SSO-07.01B.1                                                                                        | Ensuring Transparency within Service Organisations            | Data flow and interfaces between the cloud service provider and service organisations used by the cloud service provider are documented, including measures regarding the secure transmission and access control for data shared with service organisations; and                                                                               | Functional     | Intersects With                                                                                                                                            | Safeguarding Data Over Open Networks                | NET-37   | Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive and/or regulated data during transmission over open, public networks.                                                                                                                                                                                                                                                                          | 3                        |       | NET-12       |
| SSO-07.01B.2                                                                                        | Ensuring Transparency within Service Organisations            | Cloud service customers are informed of service organisations used by the cloud service provider for development and operation of the cloud service and what type of data these service organisations and their subcontractors are processing.                                                                                                 | Functional     | Intersects With                                                                                                                                            | Third-Party Inventories                             | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                   | 3                        |       | TPM-01.1     |
| SSO-07.01B.3                                                                                        | Ensuring Transparency within Service Organisations            | Cloud service customers are informed which of the service organisations themselves use subcontractors to process cloud service customer data.                                                                                                                                                                                                  | Functional     | Intersects With                                                                                                                                            | Contract Flow-Down Requirements                     | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                                                                                                                                                                                  | 3                        |       | TPM-05.2     |
| SSO-07.02B                                                                                          | Ensuring Transparency within Service Organisations            | The cloud service provider documents this information and reviews its completeness, accuracy and validity at least annually.                                                                                                                                                                                                                   | Functional     | Intersects With                                                                                                                                            | Third-Party Inventories                             | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                   | 3                        |       | TPM-01.1     |
| SSO-07.01AS                                                                                         | Ensuring Transparency within Service Organisations            | SSO-07.01AS, sharpening SSO-07.01B<br>The cloud service provider designs, implements and maintains controls to ensure transparency within its service organisations with respect to the following aspects:                                                                                                                                     | Functional     | Intersects With                                                                                                                                            | Third-Party Management                              | TPM-02   | Mechanisms exist to facilitate the implementation of third-party management controls.                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | TPM-01       |
| SSO-07.01AS.1                                                                                       | Ensuring Transparency within Service Organisations            | Data flow and interfaces between the cloud service provider and service organisations used by the cloud service provider are documented, including measures regarding the secure transmission and access control for data shared with service organisations; and                                                                               | Functional     | Intersects With                                                                                                                                            | Data Action Mapping                                 | AST-17.2 | Mechanisms exist to create and maintain a map of Technology Assets, Applications and/or Services (TAAS) where sensitive and/or regulated data is stored, transmitted or processed.                                                                                                                                                                                                                                                                           | 5                        |       | AST-02.8     |
| SSO-07.01AS.1                                                                                       | Ensuring Transparency within Service Organisations            | Data flow and interfaces between the cloud service provider and service organisations used by the cloud service provider are documented, including measures regarding the secure transmission and access control for data shared with service organisations; and                                                                               | Functional     | Intersects With                                                                                                                                            | Safeguarding Data Over Open Networks                | NET-37   | Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive and/or regulated data during transmission over open, public networks.                                                                                                                                                                                                                                                                          | 3                        |       | NET-12       |
| SSO-07.01AS.2                                                                                       | Ensuring Transparency within Service Organisations            | Cloud service customers are informed of service organisations and their subcontractors used by the cloud service provider for development and operation of the cloud service and what type of data these service organisations and their subcontractors are processing.                                                                        | Functional     | Intersects With                                                                                                                                            | Third-Party Inventories                             | TPM-08   | Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                   | 3                        |       | TPM-01.1     |
| SSO-07.01AS.3                                                                                       | Ensuring Transparency within Service Organisations            | Cloud service customers are informed which of the service organisations themselves use subcontractors to process cloud service customer data.                                                                                                                                                                                                  | Functional     | Intersects With                                                                                                                                            | Contract Flow-Down Requirements                     | TPM-14.1 | Mechanisms exist to ensure applicable security, compliance and resilience requirements are included in contracts that flow-down to applicable subcontractors and suppliers.                                                                                                                                                                                                                                                                                  | 3                        |       | TPM-05.2     |
| SSO-08.01B                                                                                          | Controlling Exchanges with Suppliers of Functional Components | When functional components used for the provision of the cloud service may directly or indirectly access cloud service customer data, the cloud service provider defines and implements a policy according to SP-01 that does not allow a direct exchange between such components and their suppliers.                                         | Functional     | Intersects With                                                                                                                                            | Data Flow Enforcement - Access Control Lists (ACLs) | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                                                                                                                                                                                                   | 3                        |       | NET-04       |
| SSO-08.01B                                                                                          | Controlling Exchanges with Suppliers of Functional Components | When functional components used for the provision of the cloud service may directly or indirectly access cloud service customer data, the cloud service provider defines and implements a policy according to SP-01 that does not allow a direct exchange between such components and their suppliers.                                         | Functional     | Intersects With                                                                                                                                            | Third-Party Services                                | TPM-12   | Mechanisms exist to mitigate the risks associated with third-party access to the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                                                                               | 3                        |       | TPM-04       |
| SSO-08.02B                                                                                          | Controlling Exchanges with Suppliers of Functional Components | In addition, procedures are defined and implemented according to SP-01 that require the cloud service provider to authorise any content provided by a supplier for its functional components or to be sent from a functional component to its supplier. The authorisation takes place before the content is transferred and for each transfer. | Functional     | Intersects With                                                                                                                                            | Sensitive / Regulated Data Sharing Decisions        | DCH-08.1 | Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.                                                                                                                                                                                                                                                                                                                     | 3                        |       | DCH-14       |
| SSO-08.02B                                                                                          | Controlling Exchanges with Suppliers of Functional Components | In addition, procedures are defined and implemented according to SP-01 that require the cloud service provider to authorise any content provided by a supplier for its functional components or to be sent from a functional component to its supplier. The authorisation takes place before the content is transferred and for each transfer. | Functional     | Intersects With                                                                                                                                            | Data Flow Enforcement - Access Control Lists (ACLs) | NET-04   | Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.                                                                                                                                                                                                                                                                                   | 3                        |       | NET-04       |
| SSO-08.03B                                                                                          | Controlling Exchanges with Suppliers of Functional Components | When a procedure for authorising content before its transfer is automated, the cloud service provider implements it using a solution that maintains traces of:                                                                                                                                                                                 | Functional     | Intersects With                                                                                                                                            | Content of Event Logs                               | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| SSO-08.03B.1                                                                                        | Controlling Exchanges with Suppliers of Functional Components | The operations that are proposed by the functional component's supplier;                                                                                                                                                                                                                                                                       | Functional     | Intersects With                                                                                                                                            | Content of Event Logs                               | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| SSO-08.03B.2                                                                                        | Controlling Exchanges with Suppliers of Functional Components | The verification that is performed to authorise the content before its transfer; and                                                                                                                                                                                                                                                           | Functional     | Intersects With                                                                                                                                            | Content of Event Logs                               | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| SSO-08.03B.3                                                                                        | Controlling Exchanges with Suppliers of Functional Components | The transfers, both incoming and outgoing, that are effectively performed.                                                                                                                                                                                                                                                                     | Functional     | Intersects With                                                                                                                                            | Content of Event Logs                               | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| 5.13                                                                                                | Security Incident Management (SIM)                            | Objective: Ensure a consistent and comprehensive approach to the capturing, evaluation, communication and handling of security incidents.                                                                                                                                                                                                      | Functional     | No Relationship                                                                                                                                            | N/A                                                 | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                        |       |              |

| FDE #       | FDE Name                                | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                               | STRM Rationale | STRM Relationship | SCF Control                                            | SCF #  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |
|-------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|--------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| SIM-01.01B  | Policy for Security Incident Management | Policies, procedures and technical safeguards are documented, communicated and provided in accordance with SP-01 to ensure a fast, effective and proper response to all known security incidents. The cloud service provider defines guidelines for the classification, prioritisation, escalation and root cause analysis of security incidents and creates interfaces to the incident management and business continuity management. | Functional     | Intersects With   | Incident Response Operations                           | IRO-02 | Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity and data protection-related incidents.                                                       | 8                        |       | IRO-01       |
| SIM-01.01B  | Policy for Security Incident Management | Policies, procedures and technical safeguards are documented, communicated and provided in accordance with SP-01 to ensure a fast, effective and proper response to all known security incidents. The cloud service provider defines guidelines for the classification, prioritisation, escalation and root cause analysis of security incidents and creates interfaces to the incident management and business continuity management. | Functional     | Intersects With   | Incident Classification & Prioritization               | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                        | 3                        |       | IRO-02.4     |
| SIM-01.02B  | Policy for Security Incident Management | The cloud service provider has set up a 'Computer Security Incident Response Team' (CSIRT), which contributes to the coordinated resolution of occurring security incidents.                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Integrated Security Incident Response Team (ISIRT)     | IRO-11 | Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity and data protection incident response operations.                                 | 8                        |       | IRO-07       |
| SIM-01.03B  | Policy for Security Incident Management | Communication channels with the cloud service customers are identified and defined and customers affected by security incidents are informed in a timely and appropriate manner.                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Regulatory & Law Enforcement Contacts                  | IRO-15 | Mechanisms exist to maintain incident response contacts with applicable regulatory and law enforcement agencies.                                                                                                                           | 3                        |       | IRO-14       |
| SIM-01.03B  | Policy for Security Incident Management | Communication channels with the cloud service customers are identified and defined and customers affected by security incidents are informed in a timely and appropriate manner.                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Incident Stakeholder Reporting                         | IRO-16 | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                       | 5                        |       | IRO-10       |
| SIM-01.04B  | Policy for Security Incident Management | There are procedures as to how the data of a suspicious system can be collected in a conclusive manner in the event of a security incident.                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Chain of Custody & Forensics                           | IRO-13 | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                | 5                        |       | IRO-08       |
| SIM-02.01B  | Security Incident Response Plans        | The cloud service provider has documented, approved and communicated one or more security incident response plans. The plans address all stages of incident response, including identification, containment, eradication, recovery, and lessons learned. They are approved by subject matter experts of the cloud service provider and communicated to all relevant stakeholders.                                                      | Functional     | Intersects With   | Incident Handling                                      | IRO-06 | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                            | 3                        |       | IRO-02       |
| SIM-02.01B  | Security Incident Response Plans        | The cloud service provider has documented, approved and communicated one or more security incident response plans. The plans address all stages of incident response, including identification, containment, eradication, recovery, and lessons learned. They are approved by subject matter experts of the cloud service provider and communicated to all relevant stakeholders.                                                      | Functional     | Intersects With   | Incident Response Plan (IRP)                           | IRO-08 | Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.                                                                                                                     | 8                        |       | IRO-04       |
| SIM-02.02B  | Security Incident Response Plans        | The plans are evaluated and updated at least annually or as necessary to reflect changes in the organisational structure or environment.                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Data Breach                                            | IRO-22 | Mechanisms exist to address data breaches, or other incidents involving the unauthorized disclosure of sensitive or regulated data, according to applicable laws, regulations and contractual obligations.                                 | 5                        |       | IRO-04.1     |
| SIM-03.01B  | Processing of Security Incidents        | Subject matter experts of the cloud service provider classify, prioritise and perform root-cause analyses for events that could constitute a security incident.                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Incident Classification & Prioritization               | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                        | 5                        |       | IRO-02.4     |
| SIM-03.01B  | Processing of Security Incidents        | Subject matter experts of the cloud service provider classify, prioritise and perform root-cause analyses for events that could constitute a security incident.                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned            | IRO-14 | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                           | 3                        |       | IRO-13       |
| SIM-03.02B  | Processing of Security Incidents        | The results of these root-cause analyses are documented, shared with relevant stakeholders, and used as part of evaluation and learning processes.                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned            | IRO-14 | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                           | 5                        |       | IRO-13       |
| SIM-03.03B  | Processing of Security Incidents        | If the cloud service provider determines that it requires external assistance for processing a security incident, it selects an incident response service based on their competence and trustworthiness or by following the recommendations of a national cybersecurity authority.                                                                                                                                                     | Functional     | Intersects With   | Integrated Security Incident Response Team (ISIRT)     | IRO-11 | Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity and data protection incident response operations.                                 | 3                        |       | IRO-07       |
| SIM-03.03B  | Processing of Security Incidents        | If the cloud service provider determines that it requires external assistance for processing a security incident, it selects an incident response service based on their competence and trustworthiness or by following the recommendations of a national cybersecurity authority.                                                                                                                                                     | Functional     | Intersects With   | Third-Party Risk Assessments & Approvals               | TPM-10 | Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related Technology Assets, Applications and/or Services (TAAS).                                                                        | 3                        |       | TPM-04.1     |
| SIM-03.04B  | Processing of Security Incidents        | A catalogue providing clear identification of information security incidents affecting cloud service customer data is maintained and used for the classification of information security incidents.                                                                                                                                                                                                                                    | Functional     | Intersects With   | Incident Classification & Prioritization               | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                        | 5                        |       | IRO-02.4     |
| SIM-03.05B  | Processing of Security Incidents        | The cloud service provider also uses the incident classification mechanism for the correlation of information security events, and assesses as well as classifies the correlated information security events according to their criticality.                                                                                                                                                                                           | Functional     | Intersects With   | Incident Classification & Prioritization               | IRO-04 | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                        | 3                        |       | IRO-02.4     |
| SIM-03.05B  | Processing of Security Incidents        | The cloud service provider also uses the incident classification mechanism for the correlation of information security events, and assesses as well as classifies the correlated information security events according to their criticality.                                                                                                                                                                                           | Functional     | Intersects With   | Correlate Monitoring Information                       | MON-08 | Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness. | 5                        |       | MON-02.1     |
| SIM-03.06B  | Processing of Security Incidents        | All documents and evidence that provide details on security incidents related to the cloud service are archived in a secure and tamper-proof manner, in line with criticality and regulatory requirements.                                                                                                                                                                                                                             | Functional     | Intersects With   | Chain of Custody & Forensics                           | IRO-13 | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                | 5                        |       | IRO-08       |
| SIM-03.06B  | Processing of Security Incidents        | All documents and evidence that provide details on security incidents related to the cloud service are archived in a secure and tamper-proof manner, in line with criticality and regulatory requirements.                                                                                                                                                                                                                             | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry | MON-12 | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                   | 3                        |       | MON-08       |
| SIM-03.07B  | Processing of Security Incidents        | The analysis process provides sufficient traceability to understand root causes and attack progression, appropriate to the risk and impact of the security incident.                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Chain of Custody & Forensics                           | IRO-13 | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                | 3                        |       | IRO-08       |
| SIM-03.07B  | Processing of Security Incidents        | The analysis process provides sufficient traceability to understand root causes and attack progression, appropriate to the risk and impact of the security incident.                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned            | IRO-14 | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                           | 5                        |       | IRO-13       |
| SIM-03.01AC | Processing of Security Incidents        | The cloud service provider simulates the identification, analysis and defence of security incidents and attacks at least once a year through appropriate tests and exercises (e.g. Red Team training).                                                                                                                                                                                                                                 | Functional     | Intersects With   | Incident Response Capabilities Testing                 | IRO-09 | Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.                                                                             | 5                        |       | IRO-06       |
| SIM-03.01AC | Processing of Security Incidents        | The cloud service provider simulates the identification, analysis and defence of security incidents and attacks at least once a year through appropriate tests and exercises (e.g. Red Team training).                                                                                                                                                                                                                                 | Functional     | Intersects With   | Red Team Exercises                                     | VPM-21 | Mechanisms exist to utilize "red team" exercises to simulate attempts by adversaries to compromise Technology Assets, Applications and/or Services (TAAS) in accordance with organization-defined rules of engagement.                     | 5                        |       | VPM-10       |
| SIM-03.02AC | Processing of Security Incidents        | An integrated team of forensic/incident responder personnel, specifically qualified to preserve evidence and manage a chain of custody, is established or contracted for their services.                                                                                                                                                                                                                                               | Functional     | Intersects With   | Chain of Custody & Forensics                           | IRO-13 | Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.                                                | 8                        |       | IRO-08       |

| FDE #        | FDE Name                                                             | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                | STRM Rationale | STRM Relationship | SCF Control                                 | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Strength of Relationship | Notes | Legacy SCF # |
|--------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|---------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| SIM-03.03AC  | Processing of Security Incidents                                     | The cloud service provider verifies the application of incident management policies and procedures by monitoring the information security incident handling processes. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                 | Functional     | Intersects With   | Capabilities Deficiency Tracking            | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POAM) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| SIM-03.03AC  | Processing of Security Incidents                                     | The cloud service provider verifies the application of incident management policies and procedures by monitoring the information security incident handling processes. Timely and appropriate remediation measures address any deviations identified during monitoring.                                                                                                                 | Functional     | Intersects With   | Incident Handling                           | IRO-06   | Mechanisms exist to cover:<br>(1) Preparation;<br>(2) Automated event detection or manual incident report intake;<br>(3) Analysis;<br>(4) Containment;<br>(5) Eradication; and<br>(6) Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                        |       | IRO-02       |
| SIM-04.01B   | Documentation and Reporting of Security Incidents                    | After a security incident has been processed, the solution is documented in accordance with the contractual agreements and the documentation is sent to the affected customers for final acknowledgement or, if applicable, as confirmation.                                                                                                                                            | Functional     | Intersects With   | Incident Stakeholder Reporting              | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | IRO-10       |
| SIM-04.02B   | Documentation and Reporting of Security Incidents                    | Information on security incidents or confirmed security breaches is made available to all affected customers.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Incident Stakeholder Reporting              | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | IRO-10       |
| SIM-04.01AC  | Documentation and Reporting of Security Incidents                    | The customer can either actively approve solutions or the solution is automatically approved after a certain period.                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Incident Stakeholder Reporting              | IRO-16   | Mechanisms exist to timely-report incidents to applicable:<br>(1) Internal stakeholders;<br>(2) Affected clients & third-parties; and<br>(3) Regulatory authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | IRO-10       |
| SIM-04.02AC  | Documentation and Reporting of Security Incidents                    | The contract between the cloud service provider and the cloud service customer regulates which data is made available to the cloud service customer for his own analysis in the event of security incidents.                                                                                                                                                                            | Functional     | Intersects With   | Multi-Tenant Forensics Capabilities         | CLD-07.2 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate prompt forensic investigations in the event of a suspected or confirmed security incident.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | CLD-06.3     |
| SIM-04.02AC  | Documentation and Reporting of Security Incidents                    | The contract between the cloud service provider and the cloud service customer regulates which data is made available to the cloud service customer for his own analysis in the event of security incidents.                                                                                                                                                                            | Functional     | Intersects With   | Third-Party Contract Requirements           | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | TPM-05       |
| SIM-05.01B   | Duty of the Personnel to Report Security Incidents to a Central Body | The cloud service provider informs personnel and external business partners of their obligations. If necessary, they agree to or are contractually obliged to timely report all security events that become known to them and are directly related to the cloud service provided by the cloud service provider to a previously designated central office of the cloud service provider. | Functional     | Intersects With   | Terms of Employment                         | HRS-06   | Mechanisms exist to require all employees and contractors to apply cybersecurity and data protection principles in their daily work to enable secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                        |       | HRS-05       |
| SIM-05.01B   | Duty of the Personnel to Report Security Incidents to a Central Body | The cloud service provider informs personnel and external business partners of their obligations. If necessary, they agree to or are contractually obliged to timely report all security events that become known to them and are directly related to the cloud service provided by the cloud service provider to a previously designated central office of the cloud service provider. | Functional     | Intersects With   | Incident Reporting Assistance               | IRO-18   | Mechanisms exist to provide incident response advice and assistance to users of Technology Assets, Applications and/or Services (TAAS) for the handling and reporting of actual and potential cybersecurity and data protection incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | IRO-11       |
| SIM-05.02B   | Duty of the Personnel to Report Security Incidents to a Central Body | The cloud service provider communicates that 'false reports' of events that do not subsequently turn out to be incidents do not have any negative consequences.                                                                                                                                                                                                                         | Functional     | Intersects With   | Incident Reporting Assistance               | IRO-18   | Mechanisms exist to provide incident response advice and assistance to users of Technology Assets, Applications and/or Services (TAAS) for the handling and reporting of actual and potential cybersecurity and data protection incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | IRO-11       |
| SIM-05.03B   | Duty of the Personnel to Report Security Incidents to a Central Body | The information security incident reporting mechanisms are communicated to personnel, cloud service customers and service organisations of the cloud service provider.                                                                                                                                                                                                                  | Functional     | Intersects With   | Incident Reporting Assistance               | IRO-18   | Mechanisms exist to provide incident response advice and assistance to users of Technology Assets, Applications and/or Services (TAAS) for the handling and reporting of actual and potential cybersecurity and data protection incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | IRO-11       |
| SIM-06.01B   | Evaluation and Learning Process                                      | Mechanisms are in place to measure and monitor the type and scope of security incidents and to report them to supporting bodies.                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Measures of Performance                     | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRP) measures of performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | GOV-05       |
| SIM-06.01B   | Evaluation and Learning Process                                      | Mechanisms are in place to measure and monitor the type and scope of security incidents and to report them to supporting bodies.                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Situational Awareness For Incidents         | IRO-16.1 | Mechanisms exist to document, monitor and report the status of cybersecurity and data protection incidents to internal stakeholders all the way through the resolution of the incident.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | IRO-09       |
| SIM-06.02B   | Evaluation and Learning Process                                      | The cloud service provider defines, implements and maintains a knowledge repository containing:                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                        |       | IRO-13       |
| SIM-06.02B.1 | Evaluation and Learning Process                                      | Security incidents;                                                                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | IRO-13       |
| SIM-06.02B.2 | Evaluation and Learning Process                                      | Measures taken for the solution of these security incidents; and                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | IRO-13       |
| SIM-06.02B.3 | Evaluation and Learning Process                                      | Information about the assets affected by these security incidents.                                                                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | IRO-13       |
| SIM-06.02B.4 | Evaluation and Learning Process                                      | This information is used to supplement the classification catalogue of incidents (cf. SIM-03).                                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Incident Classification & Prioritization    | IRO-04   | Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                        |       | IRO-02.4     |
| SIM-06.03B   | Evaluation and Learning Process                                      | The information obtained from the security incident monitoring and the intelligence gathered in the knowledge repository is used to identify recurring security events or security incidents, or potential significant security incidents, to determine the need for advanced safeguards, and for implementing them.                                                                    | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                        |       | IRO-13       |
| SIM-06.03B   | Evaluation and Learning Process                                      | The information obtained from the security incident monitoring and the intelligence gathered in the knowledge repository is used to identify recurring security events or security incidents, or potential significant security incidents, to determine the need for advanced safeguards, and for implementing them.                                                                    | Functional     | Intersects With   | Threat Analysis                             | THR-08   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | THR-10       |
| SIM-06.04B   | Evaluation and Learning Process                                      | The evaluation and learning process includes the results of root-cause analyses conducted in accordance with SIM-03.                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Root Cause Analysis (RCA) & Lessons Learned | IRO-14   | Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity and data protection incidents to reduce the likelihood or impact of future incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                        |       | IRO-13       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                     |                                                                                                                                                                                                                                                                                        |                |                   | Focal Document:                                              |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                              |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                     |                                                                                                                                                                                                                                                                                        |                |                   | Focal Document URL:                                          |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                           |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                     |                                                                                                                                                                                                                                                                                        |                |                   | Published STRM URL:                                          |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                   |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                            | Focal Document Element (FDE) Description                                                                                                                                                                                                                                               | STRM Rationale | STRM Relationship | SCF Control                                                  | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                              | Strength of Relationship | Notes | Legacy SCF # |  |
| 5.14                                                                                                | Business Continuity Management (BCM)                | Objective: Plan, implement, maintain and test procedures and measures for business continuity and emergency management.                                                                                                                                                                | Functional     | Intersects With   | Business Continuity & Disaster Recovery Policy               | BCD-01   | Mechanisms exist to establish a formal, documented Business Continuity and Disaster Recovery (BC/DR) policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and<br>(4) Is updated, as necessary, to adapt to evolving | 5                        |       |              |  |
| 5.14                                                                                                | Business Continuity Management (BCM)                | Objective: Plan, implement, maintain and test procedures and measures for business continuity and emergency management.                                                                                                                                                                | Functional     | Subset Of         | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 10                       |       | BCD-01       |  |
| BCM-01.01B                                                                                          | Business Continuity and Emergency Management System | The cloud service provider operates a business continuity and emergency management system in accordance with ISO 22301 and/or BSI 200-4.                                                                                                                                               | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 8                        |       | BCD-01       |  |
| BCM-01.01B                                                                                          | Business Continuity and Emergency Management System | The cloud service provider operates a business continuity and emergency management system in accordance with ISO 22301 and/or BSI 200-4.                                                                                                                                               | Functional     | Intersects With   | Secure Practices Alignment Justification                     | GOV-03.1 | Mechanisms exist to align the organization's Security, Compliance & Resilience Program (SCRPP) with one or more industry-recognized frameworks that:<br>(1) Support external scrutiny; and<br>(2) Provide defensible justification for secure                                                                                    | 3                        |       | GOV-01.4     |  |
| BCM-01.02B                                                                                          | Business Continuity and Emergency Management System | Policies and procedures for the cloud service's business continuity management, including strategy and guidelines, business impact analyses, and business continuity plans, are documented, communicated, and made available in accordance with SP-01 regarding the following aspects: | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 5                        |       | BCD-01       |  |
| BCM-01.02B                                                                                          | Business Continuity and Emergency Management System | Policies and procedures for the cloud service's business continuity management, including strategy and guidelines, business impact analyses, and business continuity plans, are documented, communicated, and made available in accordance with SP-01 regarding the following aspects: | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation   | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                           | 3                        |       | GOV-02       |  |
| BCM-01.02B                                                                                          | Business Continuity and Emergency Management System | Policies and procedures for the cloud service's business continuity management, including strategy and guidelines, business impact analyses, and business continuity plans, are documented, communicated, and made available in accordance with SP-01 regarding the following aspects: | Functional     | Intersects With   | Business Continuity & Disaster Recovery Policy               | BCD-01   | Mechanisms exist to establish a formal, documented Business Continuity and Disaster Recovery (BC/DR) policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;<br>(3) Is reviewed at least annually; and<br>(4) Is updated, as necessary, to adapt to evolving | 8                        |       |              |  |
| BCM-01.02B.1                                                                                        | Business Continuity and Emergency Management System | Goals of the BCM;                                                                                                                                                                                                                                                                      | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-01.02B.2                                                                                        | Business Continuity and Emergency Management System | Roles and responsibilities, management commitment;                                                                                                                                                                                                                                     | Functional     | Intersects With   | Recovery Operations Criteria                                 | BCD-05   | Mechanisms exist to define specific criteria that must be met to initiate Business Continuity / Disaster Recovery (BC/DR) plans that facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                               | 5                        |       | BCD-01.5     |  |
| BCM-01.02B.3                                                                                        | Business Continuity and Emergency Management System | Scoping of the BCM, identifying relevant business processes;                                                                                                                                                                                                                           | Functional     | Intersects With   | Identify Critical Assets                                     | AST-05   | Mechanisms exist to identify and document the critical Technology Assets, Applications, Services and/or Data (TAASD) that support essential missions and business functions.                                                                                                                                                     | 5                        |       | BCD-02       |  |
| BCM-01.02B.4                                                                                        | Business Continuity and Emergency Management System | Interfaces, in particular to Incident Management;                                                                                                                                                                                                                                      | Functional     | Intersects With   | Coordinate with Related Plans                                | BCD-07.3 | Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.                                                                                                                                                                                                   | 5                        |       | BCD-01.1     |  |
| BCM-01.02B.4                                                                                        | Business Continuity and Emergency Management System | Interfaces, in particular to Incident Management;                                                                                                                                                                                                                                      | Functional     | Intersects With   | Incident Response Plan (IRP)                                 | IRO-08   | Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.                                                                                                                                                                                                           | 3                        |       | IRO-04       |  |
| BCM-01.02B.5                                                                                        | Business Continuity and Emergency Management System | Communication with relevant entities and competent authorities;                                                                                                                                                                                                                        | Functional     | Intersects With   | Contingency Plan Update Notifications                        | BCD-07.2 | Mechanisms exist to keep stakeholders informed of changes to contingency plans.                                                                                                                                                                                                                                                  | 3                        |       | BCD-06.2     |  |
| BCM-01.02B.5                                                                                        | Business Continuity and Emergency Management System | Communication with relevant entities and competent authorities;                                                                                                                                                                                                                        | Functional     | Intersects With   | Contacts With Authorities                                    | GOV-15   | Mechanisms exist to identify and document appropriate contacts with relevant law enforcement and regulatory bodies.                                                                                                                                                                                                              | 3                        |       | GOV-06       |  |
| BCM-01.02B.6                                                                                        | Business Continuity and Emergency Management System | Methodology;                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Business Continuity & Disaster Recovery Policy               | BCD-01   | Mechanisms exist to establish a formal, documented Business Continuity and Disaster Recovery (BC/DR) policy that:<br>(1) Conveys executive management's intent;<br>(2) Provides organizational direction and expected behaviors;                                                                                                 | 5                        |       |              |  |
| BCM-01.02B.6                                                                                        | Business Continuity and Emergency Management System | Methodology;                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-01.02B.7                                                                                        | Business Continuity and Emergency Management System | Consideration of Risk;                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Risk Assessment                                              | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                            | 3                        |       | RSK-04       |  |
| BCM-01.02B.8                                                                                        | Business Continuity and Emergency Management System | Business Impact Analysis (BIA);                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Business Impact Analysis (BIA)                               | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                   | 5                        |       | RSK-08       |  |
| BCM-01.02B.9                                                                                        | Business Continuity and Emergency Management System | Business Continuity Plan (BCP);                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 5                        |       | BCD-01       |  |
| BCM-01.02B.10                                                                                       | Business Continuity and Emergency Management System | Resource Planning (usually part of the BCP);                                                                                                                                                                                                                                           | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-01.02B.10                                                                                       | Business Continuity and Emergency Management System | Resource Planning (usually part of the BCP);                                                                                                                                                                                                                                           | Functional     | Intersects With   | Allocation of Resources                                      | PRM-06   | Mechanisms exist to identify and allocate resources for management, operational, technical and data protection requirements within business process planning for projects / initiatives.                                                                                                                                         | 3                        |       | PRM-03       |  |
| BCM-01.02B.11                                                                                       | Business Continuity and Emergency Management System | Testing of Business Continuity Plans and regular updates to BCM documentation; and                                                                                                                                                                                                     | Functional     | Intersects With   | Contingency Plan Testing & Exercises                         | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                                                                                        | 5                        |       | BCD-04       |  |
| BCM-01.02B.12                                                                                       | Business Continuity and Emergency Management System | Continuous improvement of the Business Continuity Management.                                                                                                                                                                                                                          | Functional     | Intersects With   | Contingency Plan Root Cause Analysis (RCA) & Lessons Learned | BCD-11   | Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.                                                                                                                                                                                             | 3                        |       | BCD-05       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                     |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document:                                             |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                     |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document URL:                                         |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                     |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Published STRM URL:                                         |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                            | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                                 | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strength of Relationship | Notes | Legacy SCF # |  |
| BCM-01.03B                                                                                          | Business Continuity and Emergency Management System | The top management (or a member of the top management) of the cloud service provider is named as the process owner of business continuity and emergency management and is responsible for establishing the process within the company as well as ensuring compliance with the guidelines. They ensure that sufficient resources are made available for an effective process. | Functional     | Intersects With   | Recovery Operations Criteria                                | BCD-05   | Mechanisms exist to define specific criteria that must be met to initiate Business Continuity / Disaster Recovery (BC/DR) plans that facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                               | 5                        |       | BCD-01.5     |  |
| BCM-01.03B                                                                                          | Business Continuity and Emergency Management System | The top management (or a member of the top management) of the cloud service provider is named as the process owner of business continuity and emergency management and is responsible for establishing the process within the company as well as ensuring compliance with the guidelines. They ensure that sufficient resources are made available for an effective process. | Functional     | Intersects With   | Assigned Security, Compliance & Resilience Responsibilities | GOV-05   | Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide Security, Compliance & Resilience Program (SCRAP).                                                                                                                                                                                                                                                                               | 3                        |       | GOV-04       |  |
| BCM-01.04B                                                                                          | Business Continuity and Emergency Management System | People in management and other relevant leadership positions demonstrate leadership and commitment to this issue by encouraging personnel to actively contribute to the effectiveness of continuity and emergency management.                                                                                                                                                | Functional     | Intersects With   | Recovery Operations Criteria                                | BCD-05   | Mechanisms exist to define specific criteria that must be met to initiate Business Continuity / Disaster Recovery (BC/DR) plans that facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                               | 3                        |       | BCD-01.5     |  |
| BCM-01.04B                                                                                          | Business Continuity and Emergency Management System | People in management and other relevant leadership positions demonstrate leadership and commitment to this issue by encouraging personnel to actively contribute to the effectiveness of continuity and emergency management.                                                                                                                                                | Functional     | Intersects With   | Status Reporting To Governing Body                          | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRAP).                                                                                                                                                                                                                                                                                  | 3                        |       | GOV-01.2     |  |
| BCM-02.01B                                                                                          | Business Impact Analysis                            | The cloud service provider performs a Business Impact Analysis (BIA). In this BIA, the cloud service provider analyses the impact of disrupting activities to its organisation with respect the development and operations of the cloud service in accordance with applicable policies and procedures with at least the following aspects:                                   | Functional     | Intersects With   | Identify Critical Assets                                    | AST-05   | Mechanisms exist to identify and document the critical Technology Assets, Applications, Services and/or Data (TAASD) that support essential missions and business functions.                                                                                                                                                                                                                                                                                                                                     | 5                        |       | BCD-02       |  |
| BCM-02.01B                                                                                          | Business Impact Analysis                            | The cloud service provider performs a Business Impact Analysis (BIA). In this BIA, the cloud service provider analyses the impact of disrupting activities to its organisation with respect the development and operations of the cloud service in accordance with applicable policies and procedures with at least the following aspects:                                   | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 8                        |       | RSK-08       |  |
| BCM-02.01B.1                                                                                        | Business Impact Analysis                            | Possible scenarios based on a risk assessment that includes cybersecurity risks;                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | RSK-08       |  |
| BCM-02.01B.1                                                                                        | Business Impact Analysis                            | Possible scenarios based on a risk assessment that includes cybersecurity risks;                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Risk Identification                                         | RSK-09   | Mechanisms exist to identify and document risks, both internal and external.                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | RSK-03       |  |
| BCM-02.01B.2                                                                                        | Business Impact Analysis                            | Identification of critical products and services;                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Identify Critical Assets                                    | AST-05   | Mechanisms exist to identify and document the critical Technology Assets, Applications, Services and/or Data (TAASD) that support essential missions and business functions.                                                                                                                                                                                                                                                                                                                                     | 5                        |       | BCD-02       |  |
| BCM-02.01B.3                                                                                        | Business Impact Analysis                            | Identification of dependencies, including processes (including resources required), applications, business partners and third parties;                                                                                                                                                                                                                                       | Functional     | Intersects With   | Identify Critical Assets                                    | AST-05   | Mechanisms exist to identify and document the critical Technology Assets, Applications, Services and/or Data (TAASD) that support essential missions and business functions.                                                                                                                                                                                                                                                                                                                                     | 3                        |       | BCD-02       |  |
| BCM-02.01B.3                                                                                        | Business Impact Analysis                            | Identification of dependencies, including processes (including resources required), applications, business partners and third parties;                                                                                                                                                                                                                                       | Functional     | Intersects With   | Third-Party Criticality Assessments                         | TPM-09   | Mechanisms exist to identify, prioritize and assess suppliers and partners of critical Technology Assets, Applications and/or Services (TAAS) using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.                                                                                                                                                                                                                                       | 3                        |       | TPM-02       |  |
| BCM-02.01B.4                                                                                        | Business Impact Analysis                            | Capturing threats to critical products and services;                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | RSK-08       |  |
| BCM-02.01B.4                                                                                        | Business Impact Analysis                            | Capturing threats to critical products and services;                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Threat Catalog                                              | THR-06   | Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | THR-09       |  |
| BCM-02.01B.5                                                                                        | Business Impact Analysis                            | Identification of effects resulting from planned and unplanned outages, service degradations and changes over time;                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | RSK-08       |  |
| BCM-02.01B.6                                                                                        | Business Impact Analysis                            | Determination of the maximum tolerable period of downtime and service degradation;                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)                | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | BCD-01.4     |  |
| BCM-02.01B.7                                                                                        | Business Impact Analysis                            | Identification of restoration priorities;                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Resume All Missions & Business Functions                    | BCD-08   | Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation.                                                                                                                                                                                                                                                                                                                                                                      | 5                        |       | BCD-02.1     |  |
| BCM-02.01B.8                                                                                        | Business Impact Analysis                            | Determination of time targets for the resumption of critical products and services within the maximum acceptable time period (i.e. RTO);                                                                                                                                                                                                                                     | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)                | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                                                                                                      | 8                        |       | BCD-01.4     |  |
| BCM-02.01B.9                                                                                        | Business Impact Analysis                            | Determination of time targets for the maximum reasonable period during which cloud service derived data, cloud service provider data, account data and, if its processing is contractually agreed upon, cloud service customer data can be lost and not recovered (i.e. RPO); and Estimation of the resources needed for resumption.                                         | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)                | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                                                                                                      | 8                        |       | BCD-01.4     |  |
| BCM-02.01B.10                                                                                       | Business Impact Analysis                            |                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Allocation of Resources                                     | PRM-06   | Mechanisms exist to identify and allocate resources for management, operational, technical and data protection requirements within business process planning for projects / initiatives.                                                                                                                                                                                                                                                                                                                         | 3                        |       | PRM-03       |  |
| BCM-02.01B.10                                                                                       | Business Impact Analysis                            | Estimation of the resources needed for resumption.                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | RSK-08       |  |
| BCM-02.02B                                                                                          | Business Impact Analysis                            | The business impact analysis adheres to the applicable policies and procedures and is reviewed at regular intervals, at least once a year, or after significant organisational or environment-related changes.                                                                                                                                                               | Functional     | Intersects With   | Business Impact Analysis (BIA)                              | RSK-08   | Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess security, compliance and resilience risks.                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | RSK-08       |  |
| BCM-03.01B                                                                                          | Business Continuity Plans                           | Based on the results of the business impact analysis, business continuity plans are documented in a consistent manner, and in accordance with applicable policies and procedures. Business continuity plans take the following aspects into account:                                                                                                                         | Functional     | Intersects With   | Business Continuity Management System (BCMS)                | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                                                                                                                                                                                                  | 8                        |       | BCD-01       |  |
| BCM-03.01B.1                                                                                        | Business Continuity Plans                           | Defined purpose and scope with consideration of the relevant dependencies;                                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Business Continuity Management System (BCMS)                | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                                                                                                                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-03.01B.2                                                                                        | Business Continuity Plans                           | Accessibility and comprehensibility of the plans for persons who are to act accordingly;                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Contingency Training                                        | BCD-09   | Mechanisms exist to adequately train contingency personnel and applicable stakeholders in their contingency roles and responsibilities.                                                                                                                                                                                                                                                                                                                                                                          | 3                        |       | BCD-03       |  |
| BCM-03.01B.3                                                                                        | Business Continuity Plans                           | Ownership by at least one designated person responsible for review, updating and approval;                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Ongoing Contingency Planning                                | BCD-07   | Mechanisms exist to update contingency plans due to changes affecting:<br>(1) People (e.g., personnel changes);<br>(2) Processes (e.g., new, altered or decommissioned business practices, including third-party services);<br>(3) Technologies (e.g., new, altered or decommissioned technologies);<br>(4) Data (e.g., changes to data flows and/or data repositories);<br>(5) Facilities (e.g., new, altered or decommissioned physical infrastructure); and/or<br>(6) Feedback from contingency plan testing. | 3                        |       | BCD-06       |  |
| BCM-03.01B.3                                                                                        | Business Continuity Plans                           | Ownership by at least one designated person responsible for review, updating and approval;                                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Assigned Security, Compliance & Resilience Responsibilities | GOV-05   | Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide Security, Compliance & Resilience Program (SCRAP).                                                                                                                                                                                                                                                                               | 3                        |       | GOV-04       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Focal Document:                                              |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Focal Document URL:                                          |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                   | Published STRM URL:                                          |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                                 | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                   | STRM Rationale | STRM Relationship | SCF Control                                                  | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strength of Relationship | Notes | Legacy SCF # |  |
| BCM-03.01B.4                                                                                        | Business Continuity Plans                                                                | Defined communication channels, roles and responsibilities including notification of the customer;                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Recovery Operations Criteria                                 | BCD-05   | Mechanisms exist to define specific criteria that must be met to initiate Business Continuity / Disaster Recovery (BC/DR) plans that facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                               | 3                        |       | BCD-01.5     |  |
| BCM-03.01B.4                                                                                        | Business Continuity Plans                                                                | Defined communication channels, roles and responsibilities including notification of the customer;                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Contingency Plan Update Notifications                        | BCD-07.2 | Mechanisms exist to keep stakeholders informed of changes to contingency plans.                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |       | BCD-06.2     |  |
| BCM-03.01B.5                                                                                        | Business Continuity Plans                                                                | Recovery procedures, manual interim solutions and reference information (taking into account prioritisation in the recovery of cloud hardware objects and services and alignment with customers);                                                                                                                                                                                                                          | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                                                                                                                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-03.01B.5                                                                                        | Business Continuity Plans                                                                | Recovery procedures, manual interim solutions and reference information (taking into account prioritisation in the recovery of cloud hardware objects and services and alignment with customers);                                                                                                                                                                                                                          | Functional     | Intersects With   | Continue Essential Mission & Business Functions              | BCD-08.1 | Mechanisms exist to continue essential missions and business functions with little or no loss of operational continuity and sustain that continuity until full system restoration of primary processing and/or storage sites is performed.                                                                                                                                                                                                                                                                       | 5                        |       | BCD-02.2     |  |
| BCM-03.01B.6                                                                                        | Business Continuity Plans                                                                | Methods for putting the plans into effect;                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                                                                                                                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-03.01B.7                                                                                        | Business Continuity Plans                                                                | Continuous process improvement;                                                                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Contingency Plan Root Cause Analysis (RCA) & Lessons Learned | BCD-11   | Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | BCD-05       |  |
| BCM-03.01B.8                                                                                        | Business Continuity Plans                                                                | Consistency over all locations, zones, regions and partitions; and                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Business Continuity Management System (BCMS)                 | BCD-02   | Mechanisms exist to operate a Business Continuity Management System (BCMS) to achieve resilient Technology Assets, Applications, Services and/or Data (TAASD) during:<br>(1) Routine operations; and<br>(2) Adverse conditions.                                                                                                                                                                                                                                                                                  | 3                        |       | BCD-01       |  |
| BCM-03.01B.9                                                                                        | Business Continuity Plans                                                                | Interfaces to Security Incident Management.                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Coordinate with Related Plans                                | BCD-07.3 | Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.                                                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | BCD-01.1     |  |
| BCM-03.01B.9                                                                                        | Business Continuity Plans                                                                | Interfaces to Security Incident Management.                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Incident Response Plan (IRP)                                 | IRO-08   | Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | IRO-04       |  |
| BCM-03.02B                                                                                          | Business Continuity Plans                                                                | The business continuity plans are reviewed at regular intervals, at least once a year, or after significant organisational or environment-related changes.                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Ongoing Contingency Planning                                 | BCD-07   | Mechanisms exist to update contingency plans due to changes affecting:<br>(1) People (e.g., personnel changes);<br>(2) Processes (e.g., new, altered or decommissioned business practices, including third-party services);<br>(3) Technologies (e.g., new, altered or decommissioned technologies);<br>(4) Data (e.g., changes to data flows and/or data repositories);<br>(5) Facilities (e.g., new, altered or decommissioned physical infrastructure); and/or<br>(6) Feedback from contingency plan testing. | 5                        |       | BCD-06       |  |
| BCM-04.01B                                                                                          | Testing Business Continuity                                                              | Business continuity plans are tested on a regular basis (at least annually) or after significant organisational or environmental changes. Tests involve affected cloud service customers and relevant third parties (e.g. service organisations).                                                                                                                                                                          | Functional     | Intersects With   | Contingency Plan Testing & Exercises                         | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                                                                                                                                                                                                                                                                        | 8                        |       | BCD-04       |  |
| BCM-04.01B                                                                                          | Testing Business Continuity                                                              | Business continuity plans are tested on a regular basis (at least annually) or after significant organisational or environmental changes. Tests involve affected cloud service customers and relevant third parties (e.g. service organisations).                                                                                                                                                                          | Functional     | Intersects With   | Coordinated Testing with Related Plans                       | BCD-10.1 | Mechanisms exist to coordinate contingency plan testing with internal and external parties responsible for related plans.                                                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | BCD-04.1     |  |
| BCM-04.02B                                                                                          | Testing Business Continuity                                                              | The tests are documented and results are taken into account to review the business continuity plans and for future business continuity measures.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Contingency Plan Testing & Exercises                         | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                                                                                                                                                                                                                                                                        | 5                        |       | BCD-04       |  |
| BCM-04.02B                                                                                          | Testing Business Continuity                                                              | The tests are documented and results are taken into account to review the business continuity plans and for future business continuity measures.                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Contingency Plan Root Cause Analysis (RCA) & Lessons Learned | BCD-11   | Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | BCD-05       |  |
| BCM-04.01AC                                                                                         | Testing Business Continuity                                                              | In addition to the tests, exercises are also carried out which, among other things, have resulted in scenarios from security incidents that have already occurred in the past.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Contingency Plan Testing & Exercises                         | BCD-10   | Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | BCD-04       |  |
| BCM-04.01AC                                                                                         | Testing Business Continuity                                                              | In addition to the tests, exercises are also carried out which, among other things, have resulted in scenarios from security incidents that have already occurred in the past.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Incident Response Capabilities Testing                       | IRO-09   | Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | IRO-06       |  |
| BCM-04.02AC                                                                                         | Testing Business Continuity                                                              | The cloud service provider has procedures in place to ensure that cloud service customers are timely informed about planned activities related to business continuity tests and exercises that could affect the information security of the cloud service (e.g. regarding its availability). This information includes the scheduled time frame for the operations as well as a description of the work to be carried out. | Functional     | Intersects With   | Coordinated Testing with Related Plans                       | BCD-10.1 | Mechanisms exist to coordinate contingency plan testing with internal and external parties responsible for related plans.                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | BCD-04.1     |  |
| BCM-04.02AC                                                                                         | Testing Business Continuity                                                              | The cloud service provider has procedures in place to ensure that cloud service customers are timely informed about planned activities related to business continuity tests and exercises that could affect the information security of the cloud service (e.g. regarding its availability). This information includes the scheduled time frame for the operations as well as a description of the work to be carried out. | Functional     | Intersects With   | Stakeholder Notification of Changes                          | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | CHG-05       |  |
| BCM-04.03AC                                                                                         | Testing Business Continuity                                                              | The cloud service provider provides cloud service customers an assessment of the potential impacts of those tests and exercises concerning the information security of the cloud service and with details for contacting the cloud service provider.                                                                                                                                                                       | Functional     | Intersects With   | Coordinated Testing with Related Plans                       | BCD-10.1 | Mechanisms exist to coordinate contingency plan testing with internal and external parties responsible for related plans.                                                                                                                                                                                                                                                                                                                                                                                        | 3                        |       | BCD-04.1     |  |
| BCM-04.04AC                                                                                         | Testing Business Continuity                                                              | After a completed exercise, the existing alarm and notification plan is reviewed and (if needed) adapted.                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Ongoing Contingency Planning                                 | BCD-07   | Mechanisms exist to update contingency plans due to changes affecting:<br>(1) People (e.g., personnel changes);<br>(2) Processes (e.g., new, altered or decommissioned business practices, including third-party services);<br>(3) Technologies (e.g., new, altered or decommissioned technologies);<br>(4) Data (e.g., changes to data flows and/or data repositories);<br>(5) Facilities (e.g., new, altered or decommissioned physical infrastructure); and/or<br>(6) Feedback from contingency plan testing. | 3                        |       | BCD-06       |  |
| BCM-04.04AC                                                                                         | Testing Business Continuity                                                              | After a completed exercise, the existing alarm and notification plan is reviewed and (if needed) adapted.                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Regulatory & Law Enforcement Contacts                        | IRO-15   | Mechanisms exist to maintain incident response contacts with applicable regulatory and law enforcement agencies.                                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | IRO-14       |  |
| 5.15                                                                                                | Compliance (COM)                                                                         | Objective: Avoid non-compliance with legal, regulatory, self-imposed or contractual information security and compliance requirements.                                                                                                                                                                                                                                                                                      | Functional     | No Relationship   | N/A                                                          | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                        |       |              |  |
| COM-01.01B                                                                                          | Identification of Applicable Legal, Regulatory, Self-imposed or Contractual Requirements | The legal, regulatory, self-imposed and contractual requirements relevant to the information security of the cloud service as well as the cloud service provider's procedures for complying with these requirements are explicitly defined and documented.                                                                                                                                                                 | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance               | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                                                                 | 8                        |       | CPL-01       |  |
| COM-01.01AC                                                                                         | Identification of Applicable Legal, Regulatory, Self-imposed or Contractual Requirements | The cloud service provider provides an overview of the procedures described in the basic criterion upon request by the cloud service customer.                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance               | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                                                                                                 | 3                        |       | CPL-01       |  |

| FDE #        | FDE Name                                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                                                  | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |
|--------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| COM-02.01B   | Policy for Planning and Conducting Audits                     | The cloud service provider documents and implements an audit programme over multiple years that defines the scope and the frequency of the audits. The audit programme takes into consideration the management of change, policies, and the results of the risk assessment (cf. OIS-07).                                                                                     | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 5                        |       | CPL-02       |
| COM-02.01B   | Policy for Planning and Conducting Audits                     | The cloud service provider documents and implements an audit programme over multiple years that defines the scope and the frequency of the audits. The audit programme takes into consideration the management of change, policies, and the results of the risk assessment (cf. OIS-07).                                                                                     | Functional     | Intersects With   | Information Assurance (IA) Operations                                        | IAO-02   | Mechanisms exist to facilitate the implementation of security, compliance and resilience assessment and authorization controls.                                                                                                                                                                                                                                                                                                                              | 3                        |       | IAO-01       |
| COM-02.02B   | Policy for Planning and Conducting Audits                     | Risk-based policies and procedures for planning and conducting audits are documented, communicated and made available in accordance with SP-01 and address the following aspects in order to prevent adverse effects on the operation of the cloud service from the audit:                                                                                                   | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation                   | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                                       | 8                        |       | GOV-02       |
| COM-02.02B.1 | Policy for Planning and Conducting Audits                     | Restriction to read-only access to system components in accordance with the agreed audit plan and as necessary to perform the activities;                                                                                                                                                                                                                                    | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 3                        |       | CPL-02       |
| COM-02.02B.1 | Policy for Planning and Conducting Audits                     | Restriction to read-only access to system components in accordance with the agreed audit plan and as necessary to perform the activities;                                                                                                                                                                                                                                    | Functional     | Intersects With   | Audit Planning Activities                                                    | CPL-07.3 | Mechanisms exist to thoughtfully plan audits by including input from operational risk and compliance partners to minimize the impact of audit-related activities on business operations.                                                                                                                                                                                                                                                                     | 5                        |       | CPL-04       |
| COM-02.02B.1 | Policy for Planning and Conducting Audits                     | Restriction to read-only access to system components in accordance with the agreed audit plan and as necessary to perform the activities;                                                                                                                                                                                                                                    | Functional     | Intersects With   | Least Privilege                                                              | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business                                                                                                                                                                                                                                                                   | 3                        |       | IAC-21       |
| COM-02.02B.2 | Policy for Planning and Conducting Audits                     | Activities that may result in outages, degradations of the cloud service or breaches of contractual requirements are performed during scheduled maintenance windows or outside peak periods;                                                                                                                                                                                 | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 3                        |       | CPL-02       |
| COM-02.02B.3 | Policy for Planning and Conducting Audits                     | Logging and monitoring of activities;                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Content of Event Logs                                                        | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| COM-02.02B.4 | Policy for Planning and Conducting Audits                     | Review of server and network equipment configurations under the responsibility of the cloud service provider;                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Functional Review Of Security, Compliance & Resilience Controls              | CPL-05.1 | Mechanisms exist to regularly review Technology Assets, Applications and/or Services (TAAS) for adherence to the organization's security, compliance and/or resilience policies and standards.                                                                                                                                                                                                                                                               | 5                        |       | CPL-03.2     |
| COM-02.02B.5 | Policy for Planning and Conducting Audits                     | Intrusion testing for external access points; and                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | External Vulnerability Assessment                                            | VPM-14   | Mechanisms exist to perform quarterly external vulnerability scans (outside the organization's network looking inward) via a reputable vulnerability service provider, which include rescans until passing results are obtained or all "high" vulnerabilities are resolved, as defined by the Common Vulnerability Scoring System (CVSS).                                                                                                                    | 3                        |       | VPM-06.6     |
| COM-02.02B.5 | Policy for Planning and Conducting Audits                     | Intrusion testing for external access points; and                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Penetration Testing                                                          | VPM-18   | Mechanisms exist to conduct penetration testing on Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                   | 5                        |       | VPM-07       |
| COM-02.02B.6 | Policy for Planning and Conducting Audits                     | Source code reviews of internally developed security features.                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Static Code Analysis                                                         | TDA-17.1 | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to employ static code analysis tools to identify and remediate common flaws and document the results of the analysis.                                                                                                                                                                                                                                   | 5                        |       | TDA-09.2     |
| COM-02.01AS  | Policy for Planning and Conducting Audits                     | COM-02.01AS, sharpening COM-02.01B<br>The cloud service provider documents and implements an audit programme over three years that defines the scope and the frequency of the audits. The audit programme takes into consideration the management of change, policies, and the results of the risk assessment (cf. OIS-07).                                                  | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 5                        |       | CPL-02       |
| COM-02.01AC  | Policy for Planning and Conducting Audits                     | The cloud service provider grants its cloud service customers contractually agreed information and audit rights. These rights may be exercised individually or as part of group audits.                                                                                                                                                                                      | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 3                        |       | CPL-02       |
| COM-02.01AC  | Policy for Planning and Conducting Audits                     | The cloud service provider grants its cloud service customers contractually agreed information and audit rights. These rights may be exercised individually or as part of group audits.                                                                                                                                                                                      | Functional     | Intersects With   | Third-Party Contract Requirements                                            | TPM-14   | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or                                                                                                                                                                                                                 | 3                        |       | TPM-05       |
| COM-03.01B   | Internal Audits of the Information Security Management System | Subject matter experts check the compliance of the information security management system at regular intervals, at least annually, with the relevant and applicable legal, regulatory, self-imposed or contractual requirements (cf. COM-01) through internal audits. This includes checks regarding:                                                                        | Functional     | Intersects With   | Conformity Monitoring                                                        | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                                  | 3                        |       | CPL-03       |
| COM-03.01B   | Internal Audits of the Information Security Management System | Subject matter experts check the compliance of the information security management system at regular intervals, at least annually, with the relevant and applicable legal, regulatory, self-imposed or contractual requirements (cf. COM-01) through internal audits. This includes checks regarding:                                                                        | Functional     | Intersects With   | Executive Leadership Oversight of Security, Compliance & Resilience Controls | CPL-07   | Mechanisms exist to provide a security, compliance and resilience controls oversight function that reports to the organization's executive leadership.                                                                                                                                                                                                                                                                                                       | 8                        |       | CPL-02       |
| COM-03.01B.1 | Internal Audits of the Information Security Management System | Compliance with the policies and procedures (cf. SP-01) within their scope of responsibility (cf. OIS-01); and                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Functional Review Of Security, Compliance & Resilience Controls              | CPL-05.1 | Mechanisms exist to regularly review Technology Assets, Applications and/or Services (TAAS) for adherence to the organization's security, compliance and/or resilience policies and standards.                                                                                                                                                                                                                                                               | 5                        |       | CPL-03.2     |
| COM-03.01B.2 | Internal Audits of the Information Security Management System | Effectiveness of organisational and operational measures to manage the risks posed to the security of network and information systems (cf. OIS-07).                                                                                                                                                                                                                          | Functional     | Intersects With   | Control Validation Testing (CVT)                                             | IAO-04   | Mechanisms exist to formally assess the security, compliance and resilience controls in Technology Assets, Applications and/or Services (TAAS) through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.                                                                        | 5                        |       | IAO-02       |
| COM-03.01B.2 | Internal Audits of the Information Security Management System | Effectiveness of organisational and operational measures to manage the risks posed to the security of network and information systems (cf. OIS-07).                                                                                                                                                                                                                          | Functional     | Intersects With   | Risk Assessment                                                              | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                        | 3                        |       | RSK-04       |
| COM-03.02B   | Internal Audits of the Information Security Management System | Subject matter experts conducting internal audits are not in the line of authority of the personnel of the area under review. If the size of the cloud service provider does not allow such separation of line of authority, alternative measures to guarantee the impartiality of compliance checks are put in place.                                                       | Functional     | Intersects With   | Internal Audit Function                                                      | CPL-07.1 | Mechanisms exist to implement an internal audit function that is capable of providing executive management with insights into the overall management of the organization's security, compliance and resilience capabilities.                                                                                                                                                                                                                                 | 8                        |       | CPL-02.1     |
| COM-03.03B   | Internal Audits of the Information Security Management System | Identified vulnerabilities and deviations as well as non-conformities from the applicable legal, regulatory, self-imposed and contractual requirements relevant to the information security of the cloud service, are subjected to a risk assessment in accordance with the risk management procedure (cf. OIS-07). Follow-up measures are defined and tracked (cf. OPS-18). | Functional     | Intersects With   | Non-Conformity Oversight                                                     | CPL-06   | Mechanisms exist to identify and document instances of non-conformity with statutory, regulatory and/or contractual obligations, in order to develop appropriate risk mitigation actions.                                                                                                                                                                                                                                                                    | 5                        |       | CPL-01.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document:                                           |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Focal Document URL:                                       |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |                |                   | Published STRM URL:                                       |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                                                              | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                     | STRM Rationale | STRM Relationship | SCF Control                                               | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |  |
| COM-03.03B                                                                                          | Internal Audits of the Information Security Management System                         | Identified vulnerabilities and deviations as well as non-conformities from the applicable legal, regulatory, self-imposed and contractual requirements relevant to the information security of the cloud service, are subjected to a risk assessment in accordance with the risk management procedure (cf. OIS-07). Follow-up measures are defined and tracked (cf. OPS-18). | Functional     | Intersects With   | Risk Response                                             | RSK-16   | Mechanisms exist to ensure proper risk response actions were performed to remediate findings from security, compliance and/or resilience-related:<br>(1) Assessments;<br>(2) Audits; and/or<br>(3) Incidents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | RSK-06.1     |  |
| COM-03.01AC                                                                                         | Internal Audits of the Information Security Management System                         | Based on a risk assessment (cf. OIS-07) and technical feasibility, the cloud service provider decides to which extent internal audits are supplemented by procedures to automatically monitor applicable requirements of policies and procedures with regard to the following aspects:                                                                                       | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                   | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                        |       | CFG-06       |  |
| COM-03.01AC                                                                                         | Internal Audits of the Information Security Management System                         | Based on a risk assessment (cf. OIS-07) and technical feasibility, the cloud service provider decides to which extent internal audits are supplemented by procedures to automatically monitor applicable requirements of policies and procedures with regard to the following aspects:                                                                                       | Functional     | Intersects With   | Conformity Monitoring                                     | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CPL-03       |  |
| COM-03.01AC.1                                                                                       | Internal Audits of the Information Security Management System                         | Configuration of system components to provide the cloud service within the cloud service provider's area of responsibility;                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Integrity Assurance & Enforcement (IAE)                   | CFG-08.2 | Automated mechanisms exist to:<br>(1) Identify unauthorized deviations from an approved secure baseline configuration; and<br>(2) Implement automated resiliency actions to remediate the unauthorized change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                        |       | CFG-06       |  |
| COM-03.01AC.2                                                                                       | Internal Audits of the Information Security Management System                         | Performance and availability of these system components;                                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Performance Monitoring                                    | CAP-05   | Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                        |       | CAP-04       |  |
| COM-03.01AC.3                                                                                       | Internal Audits of the Information Security Management System                         | Response time to incidents and security incidents; and                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Situational Awareness For Incidents                       | IRO-16.1 | Mechanisms exist to document, monitor and report the status of cybersecurity and data protection incidents to internal stakeholders all the way through the resolution of the incident.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | IRO-09       |  |
| COM-03.01AC.4                                                                                       | Internal Audits of the Information Security Management System                         | Recovery time (time to completion of error handling).                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Recovery Time / Point Objectives (RTO / RPO)              | BCD-04.1 | Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | BCD-01.4     |  |
| COM-03.02AC                                                                                         | Internal Audits of the Information Security Management System                         | Identified vulnerabilities and deviations are automatically reported to the appropriate cloud service provider's subject matter experts for immediate assessment and action.                                                                                                                                                                                                 | Functional     | Intersects With   | Capabilities Deficiency Tracking                          | IAO-12   | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |  |
| COM-03.02AC                                                                                         | Internal Audits of the Information Security Management System                         | Identified vulnerabilities and deviations are automatically reported to the appropriate cloud service provider's subject matter experts for immediate assessment and action.                                                                                                                                                                                                 | Functional     | Intersects With   | System Generated Event Logs & Security-Relevant Telemetry | MON-04   | Mechanisms exist to generate, monitor, correlate and respond to event logs and security-relevant telemetry from physical, cybersecurity, data protection and supply chain activities to achieve integrated situational awareness.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                        |       | MON-01.4     |  |
| COM-03.03AC                                                                                         | Internal Audits of the Information Security Management System                         | The cloud service provider provides interfaces to cloud service customers so that they can check compliance with selected contractual agreements in real time.                                                                                                                                                                                                               | Functional     | Intersects With   | Conformity Monitoring                                     | CPL-05   | Mechanisms exist to validate that Technology Assets, Applications, Services and/or Data (TAASD) conform to the organization's security, compliance and/or resilience policies, standards and other applicable requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-03       |  |
| COM-04.01B                                                                                          | Information on Information Security Performance and Management Assessment of the ISMS | The top management of the cloud service provider is regularly informed about the information security performance within the scope of the ISMS in order to ensure its continued suitability, adequacy and effectiveness. The information is included in the management review of the ISMS. This management review is performed at least once a year.                         | Functional     | Intersects With   | Status Reporting To Governing Body                        | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8                        |       | GOV-01.2     |  |
| COM-04.01B                                                                                          | Information on Information Security Performance and Management Assessment of the ISMS | The top management of the cloud service provider is regularly informed about the information security performance within the scope of the ISMS in order to ensure its continued suitability, adequacy and effectiveness. The information is included in the management review of the ISMS. This management review is performed at least once a year.                         | Functional     | Intersects With   | Measures of Performance                                   | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRCP) measures of performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | GOV-05       |  |
| COM-04.01AC                                                                                         | Information on Information Security Performance and Management Assessment of the ISMS | The cloud service provider defines and implements technical and operational metrics that align with the organisation's business objectives, security requirements, and compliance obligations. These metrics are documented and included in the management review of the ISMS to ensure their continued suitability, adequacy, and effectiveness.                            | Functional     | Intersects With   | Measures of Performance                                   | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRCP) measures of performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                        |       | GOV-05       |  |
| COM-04.01AC                                                                                         | Information on Information Security Performance and Management Assessment of the ISMS | The cloud service provider defines and implements technical and operational metrics that align with the organisation's business objectives, security requirements, and compliance obligations. These metrics are documented and included in the management review of the ISMS to ensure their continued suitability, adequacy, and effectiveness.                            | Functional     | Intersects With   | Key Performance Indicators (KPIs)                         | GOV-12.1 | Mechanisms exist to develop, report and monitor Key Performance Indicators (KPIs) to assist organizational management in performance monitoring, trend analysis, and possible control redesign or replacement for the Security, Compliance & Resilience Program (SCRCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        |       | GOV-05.1     |  |
| COM-04.02AC                                                                                         | Information on Information Security Performance and Management Assessment of the ISMS | The responsible business units of the cloud service provider report at least annually to the top management on the the status and effectiveness of the policies and procedures that are relevant to the top management review of the information security management system. This reporting includes at least:                                                               | Functional     | Intersects With   | Status Reporting To Governing Body                        | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                        |       | GOV-01.2     |  |
| COM-04.02AC.1                                                                                       | Information on Information Security Performance and Management Assessment of the ISMS | Implemented changes to address cybersecurity risks for the topic addressed in the policy or procedure;                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Status Reporting To Governing Body                        | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | GOV-01.2     |  |
| COM-04.02AC.2                                                                                       | Information on Information Security Performance and Management Assessment of the ISMS | Information security incidents for the topic addressed in the policy or procedure and the follow-up;                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Situational Awareness For Incidents                       | IRO-16.1 | Mechanisms exist to document, monitor and report the status of cybersecurity and data protection incidents to internal stakeholders all the way through the resolution of the incident.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                        |       | IRO-09       |  |
| COM-04.02AC.3                                                                                       | Information on Information Security Performance and Management Assessment of the ISMS | Performance of the internal controls regarding information security for the topic addressed in the policy or procedure; and                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Measures of Performance                                   | GOV-12   | Mechanisms exist to develop, report and monitor Security, Compliance & Resilience Program (SCRCP) measures of performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                        |       | GOV-05       |  |
| COM-04.02AC.4                                                                                       | Information on Information Security Performance and Management Assessment of the ISMS | Planned changes for the topic addressed in the policy or procedure to address cybersecurity risks and information security and cybersecurity.                                                                                                                                                                                                                                | Functional     | Intersects With   | Status Reporting To Governing Body                        | GOV-09.1 | Mechanisms exist to provide governance oversight reporting and recommendations enabling executives to make decisions about matters considered material to the organization's Security, Compliance & Resilience Program (SCRCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | GOV-01.2     |  |
| 5.16                                                                                                | Dealing with Investigation Requests from Government Agencies (INQ)                    | Objective: Ensure appropriate handling of government investigation requests for legal review, information to cloud service customers, and limitation of access to or disclosure of data.                                                                                                                                                                                     | Functional     | No Relationship   | N/A                                                       | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                        |       |              |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document:                                     | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
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| Secure Controls Framework (SCF) version 2026.3                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document URL:                                 | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Published STRM URL:                                 | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              |
| FDE #                                                                                               | FDE Name                                                                            | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                         | SCF #                                                                                                                                  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Strength of Relationship | Notes | Legacy SCF # |
| INQ-01.01B                                                                                          | Legal Assessment of Investigation Requests                                          | Investigation requests from government agencies for cloud service customer data, cloud service derived data and account data are subject to a documented legal assessment by subject matter experts of the cloud service provider. The assessment determines whether the government agency has an applicable and legally valid legal basis and what further steps need to be taken for the given request. | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CPL-06       |
| INQ-01.01B                                                                                          | Legal Assessment of Investigation Requests                                          | Investigation requests from government agencies for cloud service customer data, cloud service derived data and account data are subject to a documented legal assessment by subject matter experts of the cloud service provider. The assessment determines whether the government agency has an applicable and legally valid legal basis and what further steps need to be taken for the given request. | Functional     | Intersects With   | Notification of Disclosure Requests To Data Subject | PRI-18                                                                                                                                 | Mechanisms exist to notify data subjects of applicable legal requests to disclose Personal Data (PD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | PRI-14.2     |
| INQ-01.02B                                                                                          | Legal Assessment of Investigation Requests                                          | Access to or disclosure of cloud service customer data, cloud service derived data or account data in response to government investigation requests is only permitted if the cloud service provider has performed a legal assessment. This assessment has to confirm that there is an applicable and valid legal basis and that the request must be granted according to this basis.                      | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CPL-06       |
| INQ-02.01B                                                                                          | Informing Cloud Service Customers about Investigation Requests                      | The cloud service provider informs the affected cloud service customer(s) without undue delay, unless the applicable legal basis, on which the government agency's request is based, prohibits this or there are clear indications of illegal actions in connection with the use of the cloud service.                                                                                                    | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-02.01B                                                                                          | Informing Cloud Service Customers about Investigation Requests                      | The cloud service provider informs the affected cloud service customer(s) without undue delay, unless the applicable legal basis, on which the government agency's request is based, prohibits this or there are clear indications of illegal actions in connection with the use of the cloud service.                                                                                                    | Functional     | Intersects With   | Notification of Disclosure Requests To Data Subject | PRI-18                                                                                                                                 | Mechanisms exist to notify data subjects of applicable legal requests to disclose Personal Data (PD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                        |       | PRI-14.2     |
| INQ-03.01B                                                                                          | Limiting Access to or Disclosure of Data in Investigation Requests                  | The cloud service provider's procedures for granting access to or disclosing cloud service customer data and cloud service derived data in the context of investigation requests from government agencies ensure that the agencies only gain access to or insight into the data that is the subject of the investigation request.                                                                         | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                        |       | CPL-06       |
| INQ-03.01B                                                                                          | Limiting Access to or Disclosure of Data in Investigation Requests                  | The cloud service provider's procedures for granting access to or disclosing cloud service customer data and cloud service derived data in the context of investigation requests from government agencies ensure that the agencies only gain access to or insight into the data that is the subject of the investigation request.                                                                         | Functional     | Intersects With   | Least Privilege                                     | IAC-30                                                                                                                                 | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                        |       | IAC-21       |
| INQ-03.02B                                                                                          | Limiting Access to or Disclosure of Data in Investigation Requests                  | If no clear limitation of the cloud service customer data and cloud service derived data is possible, the cloud service provider anonymises or pseudonymises this data so that government agencies can only assign it to those cloud service customers who are subject of the investigation request.                                                                                                      | Functional     | Intersects With   | De-identification (Anonymization)                   | DCH-36                                                                                                                                 | Mechanisms exist to de-identify sensitive and/or regulated data through<br>(1) Anonymization;<br>(2) De-identification;<br>(3) Pseudonymization; and/or<br>(4) Redaction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                        |       | DCH-23       |
| INQ-03.01AC                                                                                         | Limiting Access to or Disclosure of Data in Investigation Requests                  | The access and activities performed by or on behalf of investigators are monitored by the cloud service provider as determined by the process described in INQ-01.                                                                                                                                                                                                                                        | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-03.01AC                                                                                         | Limiting Access to or Disclosure of Data in Investigation Requests                  | The access and activities performed by or on behalf of investigators are monitored by the cloud service provider as determined by the process described in INQ-01.                                                                                                                                                                                                                                        | Functional     | Intersects With   | Audit Trails                                        | MON-09.1                                                                                                                               | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                        |       | MON-03.2     |
| INQ-03.02AC                                                                                         | Limiting Access to or Disclosure of Data in Investigation Requests                  | Timely and appropriate remediation measures address any deviations identified during the monitoring of the activities performed by or on behalf of investigators.                                                                                                                                                                                                                                         | Functional     | Intersects With   | Capabilities Deficiency Tracking                    | IAO-12                                                                                                                                 | Mechanisms exist to govern identified deficiencies (e.g., Plan of Action and Milestones (POA&M) or similar methodology) that formally documents, at a minimum:<br>(1) Deficiency tracking number;<br>(2) Applicable security, compliance and/or resilience control;<br>(3) Description of the deficiency(ies);<br>(4) Risk associated with the deficiency(ies);<br>(5) Source deficiency identification/detection;<br>(6) Temporary compensating controls, if applicable;<br>(7) Point of Contact (POC) (e.g., asset/process owner);<br>(8) Resources required to conduct remediation actions;<br>(9) Planned remedial actions to the deficiency(ies);<br>(10) Proposed remediation timeline; and<br>(11) Disposition statement (e.g., closeout summary). | 3                        |       | IAO-05       |
| INQ-04.01B                                                                                          | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The cloud service provider documents the technical procedures per service and other technical information regarding the provision or disclosure of cloud service customer data in response to valid investigation requests and provides it to cloud service customers.                                                                                                                                    | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-04.01B                                                                                          | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The cloud service provider documents the technical procedures per service and other technical information regarding the provision or disclosure of cloud service customer data in response to valid investigation requests and provides it to cloud service customers.                                                                                                                                    | Functional     | Intersects With   | Administrator Documentation                         | TDA-08.3                                                                                                                               | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe:<br>(1) Secure configuration, installation and operation of the TAAS;<br>(2) Effective use and maintenance of security features/functions; and<br>(3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                                                                                                                                                                                                                                                                                                                       | 3                        |       | TDA-04       |
| INQ-04.02B                                                                                          | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The type and scope of the information provided to the cloud service customers is based on the needs of their expert personnel to assess risks to the cloud service customer's data confidentiality. At a minimum, the following aspects are addressed:                                                                                                                                                    | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-04.02B.1                                                                                        | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The process for the provision and disclosure of cloud service customer data in response to legitimate investigation requests;                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-04.02B.2                                                                                        | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The technical capabilities and limitations of the cloud service provider regarding disclosure of cloud service customer data;                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Government Surveillance                             | CPL-20                                                                                                                                 | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                        |       | CPL-06       |
| INQ-04.02B.3                                                                                        | Communication of Technical Procedures for Data Disclosure in Investigation Requests | Logging mechanisms implemented to records access for disclosure of cloud service customer data;                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Content of Event Logs                               | MON-09                                                                                                                                 | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event.                                                                                                                                                                                                                                                                                              | 3                        |       | MON-03       |

| FDE #         | FDE Name                                                                            | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | STRM Rationale | STRM Relationship | SCF Control                                                | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |
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| INQ-04.02B.4  | Communication of Technical Procedures for Data Disclosure in Investigation Requests | Access possibilities for cloud service customers to review such logs;                                                                                                                                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                    | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                | 3                        |       | CLD-06.2     |
| INQ-04.02B.5  | Communication of Technical Procedures for Data Disclosure in Investigation Requests | Methods and technical procedures per service for accessing and disclosing cloud service customer data; and                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Government Surveillance                                    | CPL-20   | Mechanisms exist to constrain the host government from having unrestricted and unmonitored access to the organization's Technology Assets, Applications, Services and/or Data (TAASD) that could potentially violate other applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                | 3                        |       | CPL-06       |
| INQ-04.02B.6  | Communication of Technical Procedures for Data Disclosure in Investigation Requests | Laws, regulations, or other legal means and their applicability concerning the cloud service provider's ability to inform its customers about the provision and disclosure of cloud service customer data.                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Statutory, Regulatory & Contractual Compliance             | CPL-02   | Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.                                                                                                                                                                                                                                                                                                           | 3                        |       | CPL-01       |
| INQ-04.03B    | Communication of Technical Procedures for Data Disclosure in Investigation Requests | The aforementioned document is maintained in accordance with SP-01 and aligned with the cloud service provider's guidelines on minimising access to cloud service customer data (cf. DEV-01) to ensure its relevance and accuracy for cloud service customers.                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Publishing Security, Compliance & Resilience Documentation | GOV-04   | Mechanisms exist to establish, maintain and disseminate policies, standards and procedures necessary for secure, compliant and resilient capabilities.                                                                                                                                                                                                                                                                                     | 3                        |       | GOV-02       |
| 5.17          | Product Safety and Security (PSS)                                                   | Objective: Provide up-to-date information on the secure configuration and known vulnerabilities of the cloud service for cloud service customers, appropriate mechanisms for troubleshooting and logging, as well as authentication and authorisation of users of cloud service customers.                                                                                                                                                                                                                         | Functional     | No Relationship   | N/A                                                        | N/A      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                        |       |              |
| PSS-01.01B    | Guidelines and Recommendations for Cloud Service Customers                          | The cloud service provider publishes guidelines and recommendations for cloud service customers regarding the secure use of the cloud service provided. The information contained therein is intended to assist the cloud service customer in the secure configuration and use of the cloud service, as well as the implementation of complementary customer controls, to the extent applicable to the cloud service and the responsibility of the cloud service customer.                                         | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                       | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                           | 3                        |       | CLD-06.1     |
| PSS-01.01B    | Guidelines and Recommendations for Cloud Service Customers                          | The cloud service provider publishes guidelines and recommendations for cloud service customers regarding the secure use of the cloud service provided. The information contained therein is intended to assist the cloud service customer in the secure configuration and use of the cloud service, as well as the implementation of complementary customer controls, to the extent applicable to the cloud service and the responsibility of the cloud service customer.                                         | Functional     | Intersects With   | Administrator Documentation                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                 | 5                        |       | TDA-04       |
| PSS-01.02B    | Guidelines and Recommendations for Cloud Service Customers                          | The type and scope of the information in the guidelines and recommendations for the secure use of the cloud service provided will be based on the needs of subject matter experts of the cloud service customers who set information security requirements, implement them or verify the implementation (e.g. IT, Compliance, Internal Audit). The information in the guidelines and recommendations for the secure use of the cloud service address the following aspects, where applicable to the cloud service: | Functional     | Intersects With   | Administrator Documentation                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                 | 5                        |       | TDA-04       |
| PSS-01.02B.1  | Guidelines and Recommendations for Cloud Service Customers                          | Procedures for secure configuration;                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Secure Baseline Configurations                             | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                                                                                                                                                               | 3                        |       | CFG-02       |
| PSS-01.02B.2  | Guidelines and Recommendations for Cloud Service Customers                          | Information sources on known vulnerabilities and update mechanisms;                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Vulnerability & Patch Management Program (VPM)             | VPM-02   | Mechanisms exist to facilitate the implementation and monitoring of risk-based vulnerability management capabilities.                                                                                                                                                                                                                                                                                                                      | 3                        |       | VPM-01       |
| PSS-01.02B.3  | Guidelines and Recommendations for Cloud Service Customers                          | Malware protection for containers or virtual machines;                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Malicious Code Protection (Antimalware)                    | END-04   | Mechanisms exist to utilize antimalware, or similar technologies, to detect and eradicate malicious code.                                                                                                                                                                                                                                                                                                                                  | 3                        |       | END-04       |
| PSS-01.02B.4  | Guidelines and Recommendations for Cloud Service Customers                          | Error handling and logging mechanisms;                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Content of Event Logs                                      | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |
| PSS-01.02B.5  | Guidelines and Recommendations for Cloud Service Customers                          | Authentication mechanisms;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Functional     | Intersects With   | Authenticator Management                                   | IAC-14   | Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                                                                                                                                                              | 3                        |       | IAC-10       |
| PSS-01.02B.6  | Guidelines and Recommendations for Cloud Service Customers                          | Roles and rights framework including combinations that result in an elevated risk;                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Role-Based Access Control (RBAC)                           | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                                                                   | 3                        |       | IAC-08       |
| PSS-01.02B.7  | Guidelines and Recommendations for Cloud Service Customers                          | Services and functions for administration of the cloud service by privileged users;                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Privileged Account Management (PAM)                        | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                    | 3                        |       | IAC-16       |
| PSS-01.02B.8  | Guidelines and Recommendations for Cloud Service Customers                          | Complementary user entity controls;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                       | CLD-03.1 | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                                                           | 5                        |       | CLD-06.1     |
| PSS-01.02B.9  | Guidelines and Recommendations for Cloud Service Customers                          | Encryption mechanisms and services;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Functional     | Intersects With   | Use of Cryptographic Controls                              | CRY-02   | Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.                                                                                                                                                                                                                                                                               | 3                        |       | CRY-01       |
| PSS-01.02B.10 | Guidelines and Recommendations for Cloud Service Customers                          | Data leakage prevention;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Data Loss Prevention (DLP)                                 | DCH-40   | Automated mechanisms exist to implement Data Loss Prevention (DLP) to protect sensitive information as it is stored, transmitted and processed.                                                                                                                                                                                                                                                                                            | 3                        |       | NET-17       |
| PSS-01.02B.11 | Guidelines and Recommendations for Cloud Service Customers                          | Secure application development and operation on the cloud service;                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Secure Software Development Practices (SSDP)               | TDA-05   | Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).                                                                                                                                                                                                                                                                                                                                            | 3                        |       | TDA-06       |
| PSS-01.02B.12 | Guidelines and Recommendations for Cloud Service Customers                          | Instructions for using and configuring defensive mechanisms;                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Administrator Documentation                                | TDA-08.3 | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions.                                 | 3                        |       | TDA-04       |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                            |                                                                                                                                                                                                                                                                                     |                |                   | Focal Document:                                                  | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                            |                          |       |              |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                            |                                                                                                                                                                                                                                                                                     |                |                   | Focal Document URL:                                              | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                                                                                                                                                                                                                                                                                                                                                            |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                            |                                                                                                                                                                                                                                                                                     |                |                   | Published STRM URL:                                              | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |                                                                                                                                                                                                                                                                                                                                                                                                            |                          |       |              |
| FDE #                                                                                               | FDE Name                                                   | Focal Document Element (FDE) Description                                                                                                                                                                                                                                            | STRM Rationale | STRM Relationship | SCF Control                                                      | SCF #                                                                                                                                  | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                        | Strength of Relationship | Notes | Legacy SCF # |
| PSS-01.02B.13                                                                                       | Guidelines and Recommendations for Cloud Service Customers | Instructions for using and configuring wide-area distributed architecture mechanisms;                                                                                                                                                                                               | Functional     | Intersects With   | Administrator Documentation                                      | TDA-08.3                                                                                                                               | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions. | 3                        |       | TDA-04       |
| PSS-01.02B.14                                                                                       | Guidelines and Recommendations for Cloud Service Customers | Methods used for client data separation (cf. OPS-30 and OPS-31);                                                                                                                                                                                                                    | Functional     | Intersects With   | Multi-Tenant Environments                                        | CLD-07                                                                                                                                 | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                                  | 3                        |       | CLD-06       |
| PSS-01.02B.15                                                                                       | Guidelines and Recommendations for Cloud Service Customers | How information security risks related to the use of the cloud service can be addressed through proper logging and monitoring mechanisms; and                                                                                                                                       | Functional     | Intersects With   | Continuous Monitoring                                            | MON-02                                                                                                                                 | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                                                                                                                                                                                  | 3                        |       | MON-01       |
| PSS-01.02B.16                                                                                       | Guidelines and Recommendations for Cloud Service Customers | Inbound and outbound interfaces through which the cloud service can be accessed by other cloud services or IT systems of cloud service customers (cf. PI-01).                                                                                                                       | Functional     | Intersects With   | Application Programming Interface (API) Security                 | NET-35                                                                                                                                 | Mechanisms exist to ensure support for secure interoperability between components with Application Programming Interfaces (APIs).                                                                                                                                                                                                                                                                          | 3                        |       | CLD-04       |
| PSS-01.03B                                                                                          | Guidelines and Recommendations for Cloud Service Customers | The cloud service provider describes in the user documentation all necessary complementary user entity controls (CUECs) and corresponding explanations of them, so that the cloud service customer has sufficient information for appropriate risk management on its side.          | Functional     | Intersects With   | Customer Responsibility Matrix (CRM)                             | CLD-03.1                                                                                                                               | Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for security, compliance and resilience controls between the Cloud Service Provider (CSP) and its customers.                                                                                                                                                                           | 8                        |       | CLD-06.1     |
| PSS-01.04B                                                                                          | Guidelines and Recommendations for Cloud Service Customers | The above-mentioned information is maintained so that it is applicable to the cloud service provided in the version intended for productive use.                                                                                                                                    | Functional     | Intersects With   | Administrator Documentation                                      | TDA-08.3                                                                                                                               | Mechanisms exist to obtain, protect and distribute administrator documentation for Technology Assets, Applications and/or Services (TAAS) that describe: (1) Secure configuration, installation and operation of the TAAS; (2) Effective use and maintenance of security features/functions; and (3) Known vulnerabilities regarding configuration and use of administrative (e.g., privileged) functions. | 3                        |       | TDA-04       |
| PSS-01.01AC                                                                                         | Guidelines and Recommendations for Cloud Service Customers | The cloud service provider notifies cloud service customers in a timely manner about any planned modifications to the cloud service so that the affected cloud service customers can react appropriately with organisational and technical measures before the changes take effect. | Functional     | Intersects With   | Stakeholder Notification of Changes                              | CHG-08                                                                                                                                 | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                                   | 5                        |       | CHG-05       |
| PSS-02.01B                                                                                          | Identification of Vulnerabilities of the Cloud Service     | The cloud service provider applies appropriate measures to check the cloud service for vulnerabilities which might have been integrated into the cloud service during the software development process.                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17                                                                                                                                 | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                    | 5                        |       | TDA-09       |
| PSS-02.01B                                                                                          | Identification of Vulnerabilities of the Cloud Service     | The cloud service provider applies appropriate measures to check the cloud service for vulnerabilities which might have been integrated into the cloud service during the software development process.                                                                             | Functional     | Intersects With   | Vulnerability Scanning                                           | VPM-12                                                                                                                                 | Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.                                                                                                                                                                                                                                                                         | 3                        |       | VPM-06       |
| PSS-02.02B                                                                                          | Identification of Vulnerabilities of the Cloud Service     | The procedures for identifying such vulnerabilities are part of the software development process and, depending on a risk assessment, include the following activities:                                                                                                             | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17                                                                                                                                 | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and                    | 5                        |       | TDA-09       |
| PSS-02.02B.1                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Static Application Security Testing;                                                                                                                                                                                                                                                | Functional     | Intersects With   | Static Code Analysis                                             | TDA-17.1                                                                                                                               | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to employ static code analysis tools to identify and remediate common flaws and document the results of the analysis.                                                                                                                                                                                 | 8                        |       | TDA-09.2     |
| PSS-02.02B.2                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Dynamic Application Security Testing;                                                                                                                                                                                                                                               | Functional     | Intersects With   | Dynamic Code Analysis                                            | TDA-17.2                                                                                                                               | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to employ dynamic code analysis tools to identify and remediate common flaws and document the results of the analysis.                                                                                                                                                                                | 8                        |       | TDA-09.3     |
| PSS-02.02B.3                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Code reviews by the cloud service provider's subject matter experts;                                                                                                                                                                                                                | Functional     | Intersects With   | Manual Code Review                                               | TDA-17.5                                                                                                                               | Mechanisms exist to require the developers of Technology Assets, Applications and/or Services (TAAS) to employ a manual code review process to identify and remediate unique flaws that require knowledge of the application's requirements and design.                                                                                                                                                    | 8                        |       | TDA-09.7     |
| PSS-02.02B.4                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Conducting security checks based on a list of software components or Software Bill of Materials (SBOM); and                                                                                                                                                                         | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                | TDA-21.4                                                                                                                               | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                   | 5                        |       | TDA-04.2     |
| PSS-02.02B.5                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Obtaining information about confirmed vulnerabilities in software libraries provided by third parties and used in their own cloud service.                                                                                                                                          | Functional     | Intersects With   | Threat Intelligence Feeds                                        | THR-04                                                                                                                                 | Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.                                                                                                                                                          | 3                        |       | THR-03       |
| PSS-02.02B.5                                                                                        | Identification of Vulnerabilities of the Cloud Service     | Obtaining information about confirmed vulnerabilities in software libraries provided by third parties and used in their own cloud service.                                                                                                                                          | Functional     | Intersects With   | Continuous Vulnerability Remediation Activities                  | VPM-06.2                                                                                                                               | Mechanisms exist to address new threats and vulnerabilities on an ongoing basis and ensure assets are protected against known attacks.                                                                                                                                                                                                                                                                     | 3                        |       | VPM-04       |
| PSS-02.03B                                                                                          | Identification of Vulnerabilities of the Cloud Service     | The severity of identified vulnerabilities is assessed according to defined criteria and measures are taken to immediately eliminate or mitigate them.                                                                                                                              | Functional     | Intersects With   | Vulnerability Ranking                                            | VPM-05                                                                                                                                 | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                                                                                                                                | 5                        |       | VPM-03       |
| PSS-02.03B                                                                                          | Identification of Vulnerabilities of the Cloud Service     | The severity of identified vulnerabilities is assessed according to defined criteria and measures are taken to immediately eliminate or mitigate them.                                                                                                                              | Functional     | Intersects With   | Vulnerability Remediation Process                                | VPM-06                                                                                                                                 | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                                                                                           | 3                        |       | VPM-02       |
| PSS-02.01AC                                                                                         | Identification of Vulnerabilities of the Cloud Service     | The procedures for identifying such vulnerabilities also include annual code reviews or security penetration tests by qualified external third parties.                                                                                                                             | Functional     | Intersects With   | Application Penetration Testing                                  | TDA-17.4                                                                                                                               | Mechanisms exist to perform application-level penetration testing of custom-made Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                   | 5                        |       | TDA-09.5     |
| PSS-02.01AC                                                                                         | Identification of Vulnerabilities of the Cloud Service     | The procedures for identifying such vulnerabilities also include annual code reviews or security penetration tests by qualified external third parties.                                                                                                                             | Functional     | Intersects With   | Independent Penetration Agent or Team                            | VPM-19                                                                                                                                 | Mechanisms exist to utilize an independent assessor or penetration team to perform penetration testing.                                                                                                                                                                                                                                                                                                    | 5                        |       | VPM-07.1     |
| PSS-03.01B                                                                                          | Informing Customers about Known Vulnerabilities            | The cloud service provider ensures through a coordinated process that cloud service customers have access to regularly updated information about known vulnerabilities associated with the cloud service that may impact the information security of the customer. This includes:   | Functional     | Intersects With   | Vulnerability Disclosure Program (VDP)                           | THR-12                                                                                                                                 | Mechanisms exist to establish a Vulnerability Disclosure Program (VDP) to assist with the secure development and maintenance of Technology Assets, Applications and/or Services (TAAS) that receives unsolicited input from the public about vulnerabilities in organizational TAAS.                                                                                                                       | 5                        |       | THR-06       |
| PSS-03.01B                                                                                          | Informing Customers about Known Vulnerabilities            | The cloud service provider ensures through a coordinated process that cloud service customers have access to regularly updated information about known vulnerabilities associated with the cloud service that may impact the information security of the customer. This includes:   | Functional     | Intersects With   | Vulnerability & Patch Management Program (VPMP)                  | VPM-02                                                                                                                                 | Mechanisms exist to facilitate the implementation and monitoring of risk-based vulnerability management capabilities.                                                                                                                                                                                                                                                                                      | 3                        |       | VPM-01       |
| PSS-03.01B.1                                                                                        | Informing Customers about Known Vulnerabilities            | Known-exploited vulnerabilities;                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Known Exploited Vulnerabilities (KEV) Mitigations                | VPM-06.3                                                                                                                               | Mechanisms exist to prioritize remediation and mitigation of Known Exploited Vulnerabilities (KEV) by: (1) Reducing or removing public exposure to exploitation; and                                                                                                                                                                                                                                       | 5                        |       | VPM-02.1     |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document:                                                    |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |  |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document URL:                                                |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                       |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Published STRM URL:                                                |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                               |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                        | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                        | STRM Rationale | STRM Relationship | SCF Control                                                        | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |  |
| PSS-03.01B.2                                                                                        | Informing Customers about Known Vulnerabilities | Known vulnerabilities for which a patch and/or mitigating measures are provided by the cloud service provider (N-Day vulnerabilities), with appropriate references to the patch/measure; and                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Software & Firmware Patching                                       | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                                                                                                                                                                                   | 3                        |       | VPM-05       |  |
| PSS-03.01B.3                                                                                        | Informing Customers about Known Vulnerabilities | Known vulnerabilities for which a patch and/or mitigating measures are unlikely to be provided by the cloud service provider (Forever-Day vulnerabilities), along with a justification for why they are not provided.                                                                                                                                                                                                                           | Functional     | Intersects With   | Unsupported Technology Assets, Applications and/or Services (TAAS) | AST-39   | Mechanisms exist to prevent unsupported Technology Assets, Applications and/or Services (TAAS) by:<br>(1) Removing and/or replacing TAAS when support for the components is no longer available from the developer, vendor or manufacturer; and<br>(2) Requiring justification and documented approval for the continued use of unsupported TAAS required                                                                                                    | 3                        |       | TDA-17       |  |
| PSS-03.01B.4                                                                                        | Informing Customers about Known Vulnerabilities | These pertain to the provided cloud service and assets provided by the cloud service provider that the cloud service customers have to install, provide or operate within their own responsibility.                                                                                                                                                                                                                                             | Functional     | Intersects With   | Vulnerability Disclosure Program (VDP)                             | THR-12   | Mechanisms exist to establish a Vulnerability Disclosure Program (VDP) to assist with the secure development and maintenance of Technology Assets, Applications and/or Services (TAAS) that receives unsolicited input from the public about vulnerabilities in organizational TAAS.                                                                                                                                                                         | 3                        |       | THR-06       |  |
| PSS-03.02B                                                                                          | Informing Customers about Known Vulnerabilities | The information provided to the cloud service customers includes, where available, a description of applicable and planned remediation or mitigation measures for the identified vulnerabilities.                                                                                                                                                                                                                                               | Functional     | Intersects With   | Vulnerability Disclosure Program (VDP)                             | THR-12   | Mechanisms exist to establish a Vulnerability Disclosure Program (VDP) to assist with the secure development and maintenance of Technology Assets, Applications and/or Services (TAAS) that receives unsolicited input from the public about vulnerabilities in organizational TAAS.                                                                                                                                                                         | 3                        |       | THR-06       |  |
| PSS-03.02B                                                                                          | Informing Customers about Known Vulnerabilities | The information provided to the cloud service customers includes, where available, a description of applicable and planned remediation or mitigation measures for the identified vulnerabilities.                                                                                                                                                                                                                                               | Functional     | Intersects With   | Vulnerability Remediation Process                                  | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                                                                                                                                             | 3                        |       | VPM-02       |  |
| PSS-03.03B                                                                                          | Informing Customers about Known Vulnerabilities | These vulnerabilities are also identified based on data from a list of software components or Software Bill of Materials (SBOM) data.                                                                                                                                                                                                                                                                                                           | Functional     | Intersects With   | Software Bill of Materials (SBOM)                                  | TDA-21.4 | Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Technology Assets, Applications and/or Services (TAAS) that lists software packages in use, including versions and applicable licenses.                                                                                                                                                                                                                                     | 5                        |       | TDA-04.2     |  |
| PSS-03.04B                                                                                          | Informing Customers about Known Vulnerabilities | The vulnerabilities are presented with references to the Common Vulnerabilities and Exposures (CVE) and assessments are based on:                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Vulnerability Ranking                                              | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                                                                                                                                                                                  | 5                        |       | VPM-03       |  |
| PSS-03.04B.1                                                                                        | Informing Customers about Known Vulnerabilities | The Common Vulnerability Scoring System (CVSS); and                                                                                                                                                                                                                                                                                                                                                                                             | Functional     | Intersects With   | Vulnerability Ranking                                              | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                                                                                                                                                                                  | 5                        |       | VPM-03       |  |
| PSS-03.04B.2                                                                                        | Informing Customers about Known Vulnerabilities | The Exploit Prediction Scoring System (EPSS), the Stakeholder-Specific Vulnerability Categorization (SSVC) or other similar scoring metrics                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Vulnerability Exploitation Analysis                                | VPM-04   | Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats exploiting known vulnerabilities.                                                                                                                                                                                                                                                                        | 5                        |       | VPM-03.1     |  |
| PSS-03.04B.3                                                                                        | Informing Customers about Known Vulnerabilities | in the latest version valid at the time of the assessment. This information is accessible to all cloud customers and supports their risk assessment and follow-up actions, with references to vulnerability-specific measures where applicable.                                                                                                                                                                                                 | Functional     | Intersects With   | Vulnerability Ranking                                              | VPM-05   | Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.                                                                                                                                                                                                                                                                                  | 3                        |       | VPM-03       |  |
| PSS-03.05B                                                                                          | Informing Customers about Known Vulnerabilities | The cloud service provider consults the vulnerability information of its suppliers and service organisations at least daily. The published vulnerabilities are analysed in regards to their potential impact on the cloud service, and handled in accordance with the vulnerability handling process (cf. OPS-18). If the supplier or service organisation does not provide daily information, the related risk is managed according to OIS-07. | Functional     | Intersects With   | Threat Intelligence Feeds                                          | THR-04   | Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.                                                                                                                                                                                                            | 5                        |       | THR-03       |  |
| PSS-03.05B                                                                                          | Informing Customers about Known Vulnerabilities | The cloud service provider consults the vulnerability information of its suppliers and service organisations at least daily. The published vulnerabilities are analysed in regards to their potential impact on the cloud service, and handled in accordance with the vulnerability handling process (cf. OPS-18). If the supplier or service organisation does not provide daily information, the related risk is managed according to OIS-07. | Functional     | Intersects With   | Continuous Vulnerability Remediation Activities                    | VPM-06.2 | Mechanisms exist to address new threats and vulnerabilities on an ongoing basis and ensure assets are protected against known attacks.                                                                                                                                                                                                                                                                                                                       | 3                        |       | VPM-04       |  |
| PSS-03.01AC                                                                                         | Informing Customers about Known Vulnerabilities | Assets provided by the cloud service provider, which must be installed, provided or operated by cloud service customers within their area of responsibility, are equipped with automatic update mechanisms. After approval by the respective cloud service customer, software updates are rolled out by the cloud service provider.                                                                                                             | Functional     | Intersects With   | Alternate Sources for Continued Support                            | AST-39.1 | Mechanisms exist to provide in-house support or contract external providers for support with unsupported Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                             | 3                        |       | TDA-17.1     |  |
| PSS-03.01AC                                                                                         | Informing Customers about Known Vulnerabilities | Assets provided by the cloud service provider, which must be installed, provided or operated by cloud service customers within their area of responsibility, are equipped with automatic update mechanisms. After approval by the respective cloud service customer, software updates are rolled out by the cloud service provider.                                                                                                             | Functional     | Intersects With   | Software & Firmware Patching                                       | VPM-08   | Mechanisms exist to conduct software patching for all deployed Technology Assets, Applications and/or Services (TAAS), including firmware.                                                                                                                                                                                                                                                                                                                   | 3                        |       | VPM-05       |  |
| PSS-03.02AC                                                                                         | Informing Customers about Known Vulnerabilities | Vulnerabilities are disclosed in accordance with the Common Security Advisory Framework Version 2.0 or higher, and as specified in BSI's Technical Guideline TR-03191.                                                                                                                                                                                                                                                                          | Functional     | Intersects With   | Vulnerability Disclosure Program (VDP)                             | THR-12   | Mechanisms exist to establish a Vulnerability Disclosure Program (VDP) to assist with the secure development and maintenance of Technology Assets, Applications and/or Services (TAAS) that receives unsolicited input from the public about vulnerabilities in organizational TAAS.                                                                                                                                                                         | 3                        |       | THR-06       |  |
| PSS-04.01B                                                                                          | Error handling and Logging Mechanisms           | The cloud service provided is equipped with error handling and logging mechanisms for system components under the responsibility of the cloud service customer. These enable cloud service customers to obtain security-related information about the security status of the cloud service as well as the data, services or functions it provides.                                                                                              | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                            | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                  | 5                        |       | CLD-06.2     |  |
| PSS-04.01B                                                                                          | Error handling and Logging Mechanisms           | The cloud service provided is equipped with error handling and logging mechanisms for system components under the responsibility of the cloud service customer. These enable cloud service customers to obtain security-related information about the security status of the cloud service as well as the data, services or functions it provides.                                                                                              | Functional     | Intersects With   | Content of Event Logs                                              | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 5                        |       | MON-03       |  |
| PSS-04.02B                                                                                          | Error handling and Logging Mechanisms           | These mechanisms are designed to address identified security risks related to the use of the cloud service. The cloud service provider identifies and documents these risks in advance, ensuring that the implemented logging mechanisms capture relevant events and activities.                                                                                                                                                                | Functional     | Intersects With   | Event Log & Security-Relevant Telemetry Monitoring                 | MON-03   | Mechanisms exist to review event logs and security-relevant telemetry on an ongoing basis and escalate incidents in accordance with established timelines and procedures.                                                                                                                                                                                                                                                                                    | 3                        |       | MON-01.8     |  |
| PSS-04.02B                                                                                          | Error handling and Logging Mechanisms           | These mechanisms are designed to address identified security risks related to the use of the cloud service. The cloud service provider identifies and documents these risks in advance, ensuring that the implemented logging mechanisms capture relevant events and activities.                                                                                                                                                                | Functional     | Intersects With   | Risk Assessment                                                    | RSK-13   | Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                        | 3                        |       | RSK-04       |  |
| PSS-04.03B                                                                                          | Error handling and Logging Mechanisms           | The information is detailed enough to allow cloud service customers to check the following aspects, insofar as they are applicable to the cloud service:                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                            | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                  | 3                        |       | CLD-06.2     |  |
| PSS-04.03B.1                                                                                        | Error handling and Logging Mechanisms           | Which cloud service customer data and cloud service derived data, services or functions available to the cloud service customer within the cloud service, have been accessed by whom, when and from where (Audit Logs);                                                                                                                                                                                                                         | Functional     | Intersects With   | Audit Trails                                                       | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                                                                                                                                                                              | 5                        |       | MON-03.2     |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                               |                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document:                                                    |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                                                                                          |                          |       |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
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| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                               |                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Focal Document URL:                                                |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                                                                                       |                          |       |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                               |                                                                                                                                                                                                                                                                                                                                                                           |                |                   | Published STRM URL:                                                |          | https://content.securecontrolsframework.com/strm/scf-strm-amea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                                                                               |                          |       |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| FDE #                                                                                               | FDE Name                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                  | STRM Rationale | STRM Relationship | SCF Control                                                        | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-04.03B.2                                                                                        | Error handling and Logging Mechanisms         | Malfunctions during processing of automatic or manual actions; and                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Content of Event Logs                                              | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. | 3                        |       | MON-03       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-04.03B.3                                                                                        | Error handling and Logging Mechanisms         | Changes to security-relevant configuration parameters, error handling and logging mechanisms, user authentication, action authorisation, cryptography, and communication security.                                                                                                                                                                                        |                |                   |                                                                    |          | Control Functionality Verification                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |       |              | CHG-09 | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                                                                                | 3        |  | CHG-06 |
| PSS-04.03B.3                                                                                        | Error handling and Logging Mechanisms         | Changes to security-relevant configuration parameters, error handling and logging mechanisms, user authentication, action authorisation, cryptography, and communication security.                                                                                                                                                                                        |                |                   |                                                                    |          | Content of Event Logs                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |       |              | MON-09 | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. |          |  |        |
| PSS-04.04B                                                                                          | Error handling and Logging Mechanisms         | The logged information is protected from unauthorised access and modification and can be deleted by the cloud service customer.                                                                                                                                                                                                                                           | Functional     | Intersects With   | Protection of Event Logs & Security-Relevant Telemetry             | MON-12   | Mechanisms exist to protect event logs, security-relevant telemetry and audit tools from unauthorized access, modification and deletion.                                                                                                                                                                                                                                                                                                                     | 5                        |       | MON-08       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-04.05B                                                                                          | Error handling and Logging Mechanisms         | Where applicable, the cloud service customer can activate or deactivate the logging and can control the scope and verbosity of the logging the cloud service provides.                                                                                                                                                                                                    | Functional     | Intersects With   | Content of Event Logs                                              | MON-09   | Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum:<br>(1) Establish what type of event occurred;<br>(2) When (date and time) the event occurred;<br>(3) Where the event occurred;<br>(4) The source of the event;<br>(5) The outcome (success or failure) of the event; and<br>(6) The identity of any user/subject associated with the event. |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MON-03   |  |        |
| PSS-04.06B                                                                                          | Error handling and Logging Mechanisms         | The logging of management plane actions by the cloud service customers covers all relevant systems and system components.                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                            | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                  | 3                        |       | CLD-06.2     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-04.06B                                                                                          | Error handling and Logging Mechanisms         | The logging of management plane actions by the cloud service customers covers all relevant systems and system components.                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Audit Trails                                                       | MON-09.1 | Mechanisms exist to link system access to individual users or service accounts.                                                                                                                                                                                                                                                                                                                                                                              |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MON-03.2 |  |        |
| PSS-04.01AC                                                                                         | Error handling and Logging Mechanisms         | Cloud service customers can retrieve security-related information via documented interfaces which are suitable for further processing this information as part of their Security Information and Event Management (SIEM).                                                                                                                                                 | Functional     | Intersects With   | Multi-Tenant Event Logging Capabilities                            | CLD-07.1 | Mechanisms exist to ensure Multi-Tenant Service Providers (MTSP) facilitate security event logging capabilities for its customers that are consistent with applicable statutory, regulatory and/or contractual obligations.                                                                                                                                                                                                                                  | 5                        |       | CLD-06.2     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-04.01AC                                                                                         | Error handling and Logging Mechanisms         | Cloud service customers can retrieve security-related information via documented interfaces which are suitable for further processing this information as part of their Security Information and Event Management (SIEM).                                                                                                                                                 | Functional     | Intersects With   | Centralized Collection of Event Logs & Security-Relevant Telemetry | MON-05   | Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support the centralized collection of event logs and security-relevant telemetry.                                                                                                                                                                                                                                                                        |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MON-02   |  |        |
| PSS-05.01B                                                                                          | Authentication Mechanisms                     | The cloud service provided is equipped with authentication mechanisms that can force multi-factor authentication for users, IT components or applications within the cloud service customers' area of responsibility. These authentication mechanisms are set up at all access points that allow users, IT components or applications to interact with the cloud service. | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                  | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/ or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data.                                                                                                                                                | 5                        |       | IAC-06       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-05.02B                                                                                          | Authentication Mechanisms                     | For privileged users, IT components or applications under the responsibility of the cloud service customer, these authentication mechanisms can be enforced by the cloud service customer.                                                                                                                                                                                | Functional     | Intersects With   | Privileged Account Management (PAM)                                | IAC-10   | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                                                                                                                                                                                                                                      |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IAC-16   |  |        |
| PSS-05.02B                                                                                          | Authentication Mechanisms                     | For privileged users, IT components or applications under the responsibility of the cloud service customer, these authentication mechanisms can be enforced by the cloud service customer.                                                                                                                                                                                | Functional     | Intersects With   | Multi-Factor Authentication (MFA)                                  | IAC-37   | Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:<br>(1) Remote network access;<br>(2) Third-party Technology Assets, Applications and/or Services (TAAS); and/ or<br>(3) Non-console access to critical TAAS that store, transmit and/or process sensitive and/or regulated data.                                                                                                                                                | 5                        |       | IAC-06       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-05.01AC                                                                                         | Authentication Mechanisms                     | The cloud service offers out-of-band (OOB) authentication, in which the factors are transmitted via different channels (e.g. Internet and mobile network).                                                                                                                                                                                                                | Functional     | Intersects With   | Out-of-Band (OOB) Multi-Factor Authentication (MFA)                | IAC-37.3 | Mechanisms exist to implement Out-of-Band (OOB) Multi-Factor Authentication (MFA) for access to privileged and non-privileged accounts such that one of the factors is independently provided by a device separate from the system being accessed.                                                                                                                                                                                                           |                          |       |              | 8      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IAC-06.4 |  |        |
| PSS-06.01B                                                                                          | Session Management                            | To protect confidentiality, availability, integrity and authenticity during interactions with the cloud service, a suitable session management system is used that corresponds to the established rules of technology and is protected against known attacks.                                                                                                             | Functional     | Intersects With   | Session Integrity                                                  | NET-29   | Mechanisms exist to protect the authenticity and integrity of communications sessions.                                                                                                                                                                                                                                                                                                                                                                       | 5                        |       | NET-09       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-06.01B                                                                                          | Session Management                            | To protect confidentiality, availability, integrity and authenticity during interactions with the cloud service, a suitable session management system is used that corresponds to the established rules of technology and is protected against known attacks.                                                                                                             | Functional     | Intersects With   | Client-Facing Web Services                                         | WEB-06   | Mechanisms exist to deploy reasonably-expected security, compliance and resilience controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.                                                                                                                                                                                                                           |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WEB-04   |  |        |
| PSS-06.02B                                                                                          | Session Management                            | Mechanisms are implemented that invalidate a session after it has been detected as inactive. The inactivity can be detected by time measurement. In this case, the time interval can be configured by the cloud service provider or - if technically possible - by the cloud service customer.                                                                            | Functional     | Intersects With   | Session Lock                                                       | CFG-04.3 | Mechanisms exist to initiate a session lock after an organization-defined time period of inactivity, or upon receiving a request from a user and retain the session lock until the user reestablishes access using established identification and authentication methods.                                                                                                                                                                                    | 3                        |       | IAC-24       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-06.02B                                                                                          | Session Management                            | Mechanisms are implemented that invalidate a session after it has been detected as inactive. The inactivity can be detected by time measurement. In this case, the time interval can be configured by the cloud service provider or - if technically possible - by the cloud service customer.                                                                            | Functional     | Intersects With   | Session Termination                                                | CFG-04.5 | Automated mechanisms exist to log out users, both locally on the network and for remote sessions, at the end of the session or after an organization-defined period of inactivity.                                                                                                                                                                                                                                                                           |                          |       |              | 8      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IAC-25   |  |        |
| PSS-07.01B                                                                                          | Confidentiality of Authentication Information | If passwords are used as authentication information for the cloud service, the cloud service provider provides the cloud service customers with the following procedures to protect the confidentiality of the passwords:                                                                                                                                                 | Functional     | Intersects With   | Password-Based Authentication                                      | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                                                                                                                                                                      | 5                        |       | IAC-10.1     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-07.01B.1                                                                                        | Confidentiality of Authentication Information | Users can initially create the password themselves or must change an initial password when logging in to the cloud service for the first time. An initial password loses its validity after a maximum of 14 days;                                                                                                                                                         | Functional     | Intersects With   | Default Authenticators                                             | IAC-14.4 | Mechanisms exist to ensure default authenticators are changed as part of account creation or system installation.                                                                                                                                                                                                                                                                                                                                            |                          |       |              | 5      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IAC-10.8 |  |        |
| PSS-07.01B.2                                                                                        | Confidentiality of Authentication Information | When creating passwords, compliance with the length and complexity requirements of the cloud service provider (cf. IAM-08) or the cloud service customer is technically enforced;                                                                                                                                                                                         | Functional     | Intersects With   | Password-Based Authentication                                      | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                                                                                                                                                                      | 5                        |       | IAC-10.1     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |
| PSS-07.01B.3                                                                                        | Confidentiality of Authentication Information | The user is informed about changing or resetting the password. Password reset procedures are valid for at most 48 hours. After the reset procedure has been used, the password is to be changed by the user; and                                                                                                                                                          | Functional     | Intersects With   | Authenticator Management                                           | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                                                                                                                                                                          |                          |       |              | 3      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IAC-10   |  |        |
| PSS-07.01B.4                                                                                        | Confidentiality of Authentication Information | The server-side storage uses hash functions in combination with salt values, both corresponding to the state of the art.                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Password-Based Authentication                                      | IAC-15   | Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.                                                                                                                                                                                                                                                                                                                      | 5                        |       | IAC-10.1     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |  |        |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document:                                                  |          | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026)                                                                                                                                                                                                                                                                                                                           |                          |       |              |  |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|--|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Focal Document URL:                                              |          | https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile                                                                                                                                                                                                                                                        |                          |       |              |  |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                |                |                   | Published STRM URL:                                              |          | https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                                                                                                                                                                                                                                                                                |                          |       |              |  |
| FDE #                                                                                               | FDE Name                                      | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                       | STRM Rationale | STRM Relationship | SCF Control                                                      | SCF #    | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                                                                                                                                                                           | Strength of Relationship | Notes | Legacy SCF # |  |
| PSS-07.02B                                                                                          | Confidentiality of Authentication Information | Rules and recommendations are shared with the cloud service customers as applicable to the users under their responsibility. The cloud service provider offers the cloud service customers tools for the management and enforcement of these rules.                                                                                                                                                            | Functional     | Intersects With   | User Responsibilities for Account Management                     | IAC-22   | Mechanisms exist to compel users to follow accepted practices in the use of authentication mechanisms (e.g., passwords, passphrases, physical or logical security tokens, smart cards and                                                                                                                                                                                                     | 5                        |       | IAC-18       |  |
| PSS-07.03B                                                                                          | Confidentiality of Authentication Information | When distributing credentials, the cloud service provider verifies the recipient's identity, validates the request and protects the credentials by using additional security mechanisms such as multi-factor authentication.                                                                                                                                                                                   | Functional     | Intersects With   | Identity Proofing (Identity Verification)                        | IAC-05   | Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.                                                                                                                                                                                                                                                                              | 3                        |       | IAC-28       |  |
| PSS-07.03B                                                                                          | Confidentiality of Authentication Information | When distributing credentials, the cloud service provider verifies the recipient's identity, validates the request and protects the credentials by using additional security mechanisms such as multi-factor authentication.                                                                                                                                                                                   | Functional     | Intersects With   | Authenticator Management                                         | IAC-14   | Mechanisms exist to:<br>(1) Securely manage authenticators for users and devices; and<br>(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.                                                                                                                                                                                           | 5                        |       | IAC-10       |  |
| PSS-08.01B                                                                                          | Roles and Rights Framework                    | The cloud service provided comprises a roles and rights framework for users of the cloud service customer. This framework allows users to manage their own access rights. It describes access rights and roles for the functions provided by the cloud service. Cloud service customers can configure relevant access control parameters themselves.                                                           | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                 | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                      | 5                        |       | IAC-08       |  |
| PSS-08.02B                                                                                          | Roles and Rights Framework                    | The access rights and roles are suitable for enabling users of the cloud service customer to manage access authorisations and permissions in accordance with the principle of least-privilege and how it is necessary for the performance of tasks ("need-to-know-principle") and to implement the principle of functional separation between operational and controlling functions ("segregation of duties"). | Functional     | Intersects With   | Separation of Duties (SoD)                                       | HRS-14   | Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.                                                                                                                                                                                                                                                          | 3                        |       | HRS-11       |  |
| PSS-08.02B                                                                                          | Roles and Rights Framework                    | The access rights and roles are suitable for enabling users of the cloud service customer to manage access authorisations and permissions in accordance with the principle of least-privilege and how it is necessary for the performance of tasks ("need-to-know-principle") and to implement the principle of functional separation between operational and controlling functions ("segregation of duties"). | Functional     | Intersects With   | Least Privilege                                                  | IAC-30   | Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.                                                                                                                                                                                         | 5                        |       | IAC-21       |  |
| PSS-08.03B                                                                                          | Roles and Rights Framework                    | The cloud service provided is equipped with a functionality to help cloud service customers review user access rights under their responsibility.                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges       | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                                                                                                                | 5                        |       | IAC-17       |  |
| PSS-08.04B                                                                                          | Roles and Rights Framework                    | In case the cloud service includes the management of customer identities, for a given customer identity, the cloud service provided is equipped with a functionality to provide the list of access rights currently granted to that identity according to the contractual terms.                                                                                                                               | Functional     | Intersects With   | User & Service Account Inventories                               | IAC-08.3 | Mechanisms exist to maintain a current list of authorized users and service accounts.                                                                                                                                                                                                                                                                                                         | 3                        |       | IAC-01.3     |  |
| PSS-08.04B                                                                                          | Roles and Rights Framework                    | In case the cloud service includes the management of customer identities, for a given customer identity, the cloud service provided is equipped with a functionality to provide the list of access rights currently granted to that identity according to the contractual terms.                                                                                                                               | Functional     | Intersects With   | Periodic Review of Individual & Service Account Privileges       | IAC-12   | Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as                                                                                                                                                                                                | 3                        |       | IAC-17       |  |
| PSS-09.01B                                                                                          | Authorisation Mechanisms                      | Access to the functions provided by the cloud service is restricted by access controls (authorisation mechanisms) that verify whether users, IT components, or applications are authorised to perform certain actions.                                                                                                                                                                                         | Functional     | Intersects With   | Access Enforcement                                               | IAC-25   | Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."                                                                                                                                                                                                                                                                      | 8                        |       | IAC-20       |  |
| PSS-09.02B                                                                                          | Authorisation Mechanisms                      | The cloud service provider validates the functionality of the authorisation mechanisms before new functions are made available to cloud service customers and in the event of changes to the authorisation mechanisms of existing functions (cf. DEV-07).                                                                                                                                                      | Functional     | Intersects With   | Control Functionality Verification                               | CHG-09   | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                 | 5                        |       | CHG-06       |  |
| PSS-09.02B                                                                                          | Authorisation Mechanisms                      | The cloud service provider validates the functionality of the authorisation mechanisms before new functions are made available to cloud service customers and in the event of changes to the authorisation mechanisms of existing functions (cf. DEV-07).                                                                                                                                                      | Functional     | Intersects With   | Security, Compliance & Resilience Testing Throughout Development | TDA-17   | Mechanisms exist to require system developers/integrators consult with security, compliance and/or resilience personnel to:<br>(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;<br>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the control testing and evaluation process; and | 3                        |       | TDA-09       |  |
| PSS-09.03B                                                                                          | Authorisation Mechanisms                      | If validation activities reveal vulnerabilities, the procedures for identifying vulnerabilities (cf. PSS-02) are applied and measures for timely remediation or mitigation are initiated.                                                                                                                                                                                                                      | Functional     | Intersects With   | Vulnerability Remediation Process                                | VPM-06   | Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.                                                                                                                                                                                                                                                                                              | 5                        |       | VPM-02       |  |
| PSS-09.01AC                                                                                         | Authorisation Mechanisms                      | Access controls are attribute-based to enable granular and contextual checks against multiple attributes of a user, IT component, or application (e.g., role, location, authentication method).                                                                                                                                                                                                                | Functional     | Intersects With   | Role-Based Access Control (RBAC)                                 | IAC-06   | Mechanisms exist to enforce Role-Based Access Control (RBAC) for Technology Assets, Applications, Services and/or Data (TAASD) to restrict access to individuals assigned specific roles with legitimate business needs.                                                                                                                                                                      | 3                        |       | IAC-08       |  |
| PSS-09.01AC                                                                                         | Authorisation Mechanisms                      | Access controls are attribute-based to enable granular and contextual checks against multiple attributes of a user, IT component, or application (e.g., role, location, authentication method).                                                                                                                                                                                                                | Functional     | Intersects With   | Adaptive Identification & Authentication                         | IAC-41   | Mechanisms exist to allow individuals to utilize alternative methods of authentication under specific circumstances or situations.                                                                                                                                                                                                                                                            | 3                        |       | IAC-13       |  |
| PSS-10.01B                                                                                          | Software Defined Networking                   | If the cloud service offers functions for software-defined networking (SDN), the confidentiality of cloud service customer data is ensured by suitable SDN procedures.                                                                                                                                                                                                                                         | Functional     | Intersects With   | Multi-Tenant Environments                                        | CLD-07   | Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.                                                                                                                                                                     | 3                        |       | CLD-06       |  |
| PSS-10.01B                                                                                          | Software Defined Networking                   | If the cloud service offers functions for software-defined networking (SDN), the confidentiality of cloud service customer data is ensured by suitable SDN procedures.                                                                                                                                                                                                                                         | Functional     | Intersects With   | Software Defined Networking (SDN)                                | NET-12   | Automated mechanisms exist to enable dynamic, policy-driven network segmentation, access controls and traffic management with a Software Defined Networking (SDN) architecture.                                                                                                                                                                                                               | 5                        |       | NET-06.7     |  |
| PSS-10.02B                                                                                          | Software Defined Networking                   | The cloud service provider validates the functionality of the SDN functions before providing new SDN features to cloud service customers or modifying existing SDN features. Identified defects are assessed and corrected in a risk-oriented manner.                                                                                                                                                          | Functional     | Intersects With   | Control Functionality Verification                               | CHG-09   | Mechanisms exist to verify the functionality of security, compliance and resilience controls following implemented changes to ensure applicable controls operate as designed.                                                                                                                                                                                                                 | 3                        |       | CHG-06       |  |
| PSS-10.02B                                                                                          | Software Defined Networking                   | The cloud service provider validates the functionality of the SDN functions before providing new SDN features to cloud service customers or modifying existing SDN features. Identified defects are assessed and corrected in a risk-oriented manner.                                                                                                                                                          | Functional     | Intersects With   | Software Defined Networking (SDN)                                | NET-12   | Automated mechanisms exist to enable dynamic, policy-driven network segmentation, access controls and traffic management with a Software Defined Networking (SDN) architecture.                                                                                                                                                                                                               | 3                        |       | NET-06.7     |  |
| PSS-11.01B                                                                                          | Images for Virtual Machines and Containers    | If cloud service customers operate virtual machines or containers with the cloud service, the cloud service provided is equipped with functionalities that ensure the following aspects:                                                                                                                                                                                                                       | Functional     | Intersects With   | Virtual Machine Images                                           | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                                                                                                                              | 5                        |       | CLD-05       |  |
| PSS-11.01B                                                                                          | Images for Virtual Machines and Containers    | If cloud service customers operate virtual machines or containers with the cloud service, the cloud service provided is equipped with functionalities that ensure the following aspects:                                                                                                                                                                                                                       | Functional     | Intersects With   | Application Container                                            | SEA-31   | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                                                                                                                                                                      | 3                        |       | SEA-21       |  |
| PSS-11.01B.1                                                                                        | Images for Virtual Machines and Containers    | Cloud service customers can restrict the selection of images of virtual machines or containers according to their specifications, so that users of the cloud service customer can only launch the images or containers released according to these restrictions.                                                                                                                                               | Functional     | Intersects With   | Restrict Roles Permitted To Install Software                     | CFG-12   | Automated mechanisms exist to prevent the installation of software, unless the action is performed by a privileged user or service.                                                                                                                                                                                                                                                           | 3                        |       | CFG-05       |  |
| PSS-11.01B.1                                                                                        | Images for Virtual Machines and Containers    | Cloud service customers can restrict the selection of images of virtual machines or containers according to their specifications, so that users of the cloud service customer can only launch the images or containers released according to these restrictions.                                                                                                                                               | Functional     | Intersects With   | Virtual Machine Images                                           | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                                                                                                                              | 3                        |       | CLD-05       |  |
| PSS-11.01B.2                                                                                        | Images for Virtual Machines and Containers    | If the cloud service provider provides images of virtual machines or containers to the cloud service customer, the cloud service provider appropriately informs the cloud service customer of the changes made to the previous version.                                                                                                                                                                        | Functional     | Intersects With   | Stakeholder Notification of Changes                              | CHG-08   | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                                                                                                                                                                      | 3                        |       | CHG-05       |  |
| PSS-11.01B.3                                                                                        | Images for Virtual Machines and Containers    | Images provided by the cloud service provider are labelled with information regarding their origin; and                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Provenance                                                       | AST-14   | Mechanisms exist to track the origin, development, ownership, location and changes to Technology Assets, Applications, Services and/or Data (TAASD).                                                                                                                                                                                                                                          | 3                        |       | AST-03.2     |  |
| PSS-11.01B.3                                                                                        | Images for Virtual Machines and Containers    | Images provided by the cloud service provider are labelled with information regarding their origin; and                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Virtual Machine Images                                           | SEA-23.1 | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                                                                                                                                                                              | 3                        |       | CLD-05       |  |
| PSS-11.01B.4                                                                                        | Images for Virtual Machines and Containers    | Images provided by the cloud service provider are hardened according to generally accepted industry standards.                                                                                                                                                                                                                                                                                                 | Functional     | Intersects With   | Secure Baseline Configurations                                   | CFG-04   | Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted hardening standards.                                                                                                                                                                                  | 5                        |       | CFG-02       |  |

| NIST IR 8477-Based Set Theory Relationship Mapping (STRM)                                           |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document:                                                                                                                                            | Germany - Cloud Computing Compliance Controls Catalogue (C5) (2026) |                                                                                                                                                                                                                                              |                          |       |              |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|
| Reference Document: Secure Controls Framework (SCF) version 2026.3                                  |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Focal Document URL: https://www.bsi.bund.de/SharedDocs/Downloads/EN/BSI/CloudComputing/ComplianceControlsCatalogue/2026/C5_2026.pdf?__blob=publicationFile |                                                                     |                                                                                                                                                                                                                                              |                          |       |              |
| STRM Guidance: https://securecontrolsframework.com/start-here/set-theory-relationship-mapping-strm/ |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                   | Published STRM URL: https://content.securecontrolsframework.com/strm/scf-strm-emea-deu-c5-2026.pdf                                                         |                                                                     |                                                                                                                                                                                                                                              |                          |       |              |
| FDE #                                                                                               | FDE Name                                   | Focal Document Element (FDE) Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STRM Rationale | STRM Relationship | SCF Control                                                                                                                                                | SCF #                                                               | Secure Controls Framework (SCF) Control Description                                                                                                                                                                                          | Strength of Relationship | Notes | Legacy SCF # |
| PSS-11.01B.4                                                                                        | Images for Virtual Machines and Containers | Images provided by the cloud service provider are hardened according to generally accepted industry standards.                                                                                                                                                                                                                                                                                                                                                                                                                  | Functional     | Intersects With   | Virtual Machine Images                                                                                                                                     | SEA-23.1                                                            | Mechanisms exist to ensure the integrity of virtual machine images at all times.                                                                                                                                                             | 3                        |       | CLD-05       |
| PSS-11.01AC                                                                                         | Images for Virtual Machines and Containers | The cloud service provider checks the integrity and authenticity of virtual machines or container images at startup and informs the cloud service customer accordingly about the results of those checks.                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Endpoint File Integrity Monitoring (FIM)                                                                                                                   | END-11                                                              | Mechanisms exist to utilize File Integrity Monitor (FIM), or similar technologies, to detect and report on unauthorized changes to selected files and configuration settings.                                                                | 3                        |       | END-06       |
| PSS-11.01AC                                                                                         | Images for Virtual Machines and Containers | The cloud service provider checks the integrity and authenticity of virtual machines or container images at startup and informs the cloud service customer accordingly about the results of those checks.                                                                                                                                                                                                                                                                                                                       | Functional     | Intersects With   | Software / Firmware Integrity Verification                                                                                                                 | TDA-20.3                                                            | Mechanisms exist to require developers of Technology Assets, Applications and/or Services (TAAS) to enable integrity verification of software and firmware components.                                                                       | 5                        |       | TDA-14.1     |
| PSS-11.02AC                                                                                         | Images for Virtual Machines and Containers | During runtime, the cloud service provider protects the virtual machines or container images against tampering and informs the cloud service customer accordingly about the status during runtime.                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Endpoint File Integrity Monitoring (FIM)                                                                                                                   | END-11                                                              | Mechanisms exist to utilize File Integrity Monitor (FIM), or similar technologies, to detect and report on unauthorized changes to selected files and configuration settings.                                                                | 3                        |       | END-06       |
| PSS-11.02AC                                                                                         | Images for Virtual Machines and Containers | During runtime, the cloud service provider protects the virtual machines or container images against tampering and informs the cloud service customer accordingly about the status during runtime.                                                                                                                                                                                                                                                                                                                              | Functional     | Intersects With   | Application Container                                                                                                                                      | SEA-31                                                              | Mechanisms exist to utilize an application container (virtualization approach) to isolate to a known set of dependencies, access methods and interfaces.                                                                                     | 3                        |       | SEA-21       |
| PSS-12.01B                                                                                          | Region of Data Processing and Storage      | The architecture of the cloud service, including the technical design of its infrastructure, ensures that cloud service customer data and eventual data backups thereof are processed and stored only in the region specified in the contractual agreements with the cloud service provider. If the cloud service customer is able to select from multiple regions, processing and storage of the aforementioned data is limited to the selected regions.                                                                       | Functional     | Intersects With   | Geographic Data Location                                                                                                                                   | DCH-30                                                              | Mechanisms exist to inventory, document and maintain data flows for data that is resident (permanently or temporarily) within geographically distributed Technology Assets, Applications and/or Services (TAAS) (physical and virtual).      | 3                        |       | DCH-19       |
| PSS-12.01B                                                                                          | Region of Data Processing and Storage      | The architecture of the cloud service, including the technical design of its infrastructure, ensures that cloud service customer data and eventual data backups thereof are processed and stored only in the region specified in the contractual agreements with the cloud service provider. If the cloud service customer is able to select from multiple regions, processing and storage of the aforementioned data is limited to the selected regions.                                                                       | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 8                        |       | CLD-09       |
| PSS-12.02B                                                                                          | Region of Data Processing and Storage      | Processing and storage of cloud service customer data within the service organisations of the cloud service provider also adheres to the regions selected by the cloud service customer.                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.02B                                                                                          | Region of Data Processing and Storage      | Processing and storage of cloud service customer data within the service organisations of the cloud service provider also adheres to the regions selected by the cloud service customer.                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                                                                                                      | TPM-12.2                                                            | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                  | 5                        |       | TPM-04.4     |
| PSS-12.03B                                                                                          | Region of Data Processing and Storage      | The contractual agreements specify the regions in which processing and storage of cloud service customer data, cloud service derived data and account data occurs and the circumstances under which changes may be applied.                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 5                        |       | CLD-09       |
| PSS-12.03B                                                                                          | Region of Data Processing and Storage      | The contractual agreements specify the regions in which processing and storage of cloud service customer data, cloud service derived data and account data occurs and the circumstances under which changes may be applied.                                                                                                                                                                                                                                                                                                     | Functional     | Intersects With   | Third-Party Contract Requirements                                                                                                                          | TPM-14                                                              | Mechanisms exist to require contractual requirements for applicable security, compliance and resilience requirements with third-parties, reflecting the organization's needs to protect its Technology Assets, Applications, Services and/or | 3                        |       | TPM-05       |
| PSS-12.04B                                                                                          | Region of Data Processing and Storage      | Customers are notified beforehand in case of any changes to the regions in which the aforementioned data is processed or stored. If the cloud service provider has not been granted prior general authorisation by the cloud service customer to do so, such authorisations are obtained in accordance with the requirements specified in the contractual agreements or let the cloud service customer exercise termination rights.                                                                                             | Functional     | Intersects With   | Stakeholder Notification of Changes                                                                                                                        | CHG-08                                                              | Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.                                                                                                                                     | 5                        |       | CHG-05       |
| PSS-12.04B                                                                                          | Region of Data Processing and Storage      | Customers are notified beforehand in case of any changes to the regions in which the aforementioned data is processed or stored. If the cloud service provider has not been granted prior general authorisation by the cloud service customer to do so, such authorisations are obtained in accordance with the requirements specified in the contractual agreements or let the cloud service customer exercise termination rights.                                                                                             | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.01AS                                                                                         | Region of Data Processing and Storage      | PSS-12.01AS, sharpening PSS-12.01B<br>The architecture of the cloud service, including the technical design of its infrastructure, ensures that the cloud service customer data, cloud service derived data and eventual data backups thereof are processed and stored only in the region specified in the contractual agreements with the cloud service provider. If the cloud service customer is able to select from multiple regions, processing and storage of the aforementioned data is limited to the selected regions. | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 8                        |       | CLD-09       |
| PSS-12.02AS                                                                                         | Region of Data Processing and Storage      | PSS-12.02AS, sharpening PSS-12.02B<br>Processing and storage of cloud service customer data and cloud service derived data within the service organisations of the cloud service provider also adheres to the regions selected by the cloud service customer.                                                                                                                                                                                                                                                                   | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                                                                                                      | TPM-12.2                                                            | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                  | 5                        |       | TPM-04.4     |
| PSS-12.01AC                                                                                         | Region of Data Processing and Storage      | The cloud service provider offers partitions selectable by the cloud service customer where partition-specific identity management is enforced for both cloud service customers and all cloud service provider personnel. Identity verification and identity storage are confined to the geographical boundaries of the selected partition.                                                                                                                                                                                     | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.01AC                                                                                         | Region of Data Processing and Storage      | The cloud service provider offers partitions selectable by the cloud service customer where partition-specific identity management is enforced for both cloud service customers and all cloud service provider personnel. Identity verification and identity storage are confined to the geographical boundaries of the selected partition.                                                                                                                                                                                     | Functional     | Intersects With   | Identity & Access Management (IAM)                                                                                                                         | IAC-02                                                              | Mechanisms exist to facilitate the implementation of Identification and Access Management (IAM) controls.                                                                                                                                    | 3                        |       | IAC-01       |
| PSS-12.02AC                                                                                         | Region of Data Processing and Storage      | Within these partitions, the following operations by the cloud service provider are restricted to occur only within the geographical boundaries of the customer-selected partitions:                                                                                                                                                                                                                                                                                                                                            | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.02AC.1                                                                                       | Region of Data Processing and Storage      | Privileged access to the production environment by the cloud service provider, including potential access to cloud service customer data and cloud service derived data;                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.02AC.1                                                                                       | Region of Data Processing and Storage      | Privileged access to the production environment by the cloud service provider, including potential access to cloud service customer data and cloud service derived data;                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Privileged Account Management (PAM)                                                                                                                        | IAC-10                                                              | Mechanisms exist to restrict and control privileged access rights for users and Technology Assets, Applications and/or Services (TAAS).                                                                                                      | 3                        |       | IAC-16       |
| PSS-12.02AC.2                                                                                       | Region of Data Processing and Storage      | System logging and event monitoring by the cloud service provider, except for processing event logs specifically for threat intelligence and handling IP addresses for routing purposes; and                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.02AC.2                                                                                       | Region of Data Processing and Storage      | System logging and event monitoring by the cloud service provider, except for processing event logs specifically for threat intelligence and handling IP addresses for routing purposes; and                                                                                                                                                                                                                                                                                                                                    | Functional     | Intersects With   | Continuous Monitoring                                                                                                                                      | MON-02                                                              | Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.                                                                                                                                                    | 3                        |       | MON-01       |
| PSS-12.02AC.3                                                                                       | Region of Data Processing and Storage      | Cryptographic key management and storage practices to ensure keys are handled and stored within limits of the partition.                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Cryptographic Key Management                                                                                                                               | CRY-10                                                              | Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.                                                                                                     | 3                        |       | CRY-09       |
| PSS-12.02AC.3                                                                                       | Region of Data Processing and Storage      | Cryptographic key management and storage practices to ensure keys are handled and stored within limits of the partition.                                                                                                                                                                                                                                                                                                                                                                                                        | Functional     | Intersects With   | Geolocation Requirements for Processing, Storage and Service Locations                                                                                     | DCH-30.1                                                            | Mechanisms exist to control the location of Technology Assets, Applications and/or Services (TAAS) processing and/or storage based on business requirements that includes statutory, regulatory and contractual obligations.                 | 3                        |       | CLD-09       |
| PSS-12.02AC.4                                                                                       | Region of Data Processing and Storage      | These restrictions considering partitions also apply to any service organisations involved in the operation of the cloud service.                                                                                                                                                                                                                                                                                                                                                                                               | Functional     | Intersects With   | Third-Party Processing, Storage and Service Locations                                                                                                      | TPM-12.2                                                            | Mechanisms exist to restrict the location of information processing/storage based on business requirements.                                                                                                                                  | 3                        |       | TPM-04.4     |