# **Set Theory Relationship Mapping (STRM)**



Reference Document: Secure Controls Framework (SCF) version 2024.2

Focal Document: CJIS Security Policy v5.9.3

Focal Document URL: https://le.fbi.gov/cjis-division/cjis-security-policy-resource-center

STRM URL: https://content.securecontrolsframework.com/strm/scf-2024-2-CJIS-5-9-3.pdf

Set Theory Relationship Mapping (STRM) is well-suited for mapping between sets of elements that exist in two distinct concepts that are mostly the same as each other (e.g., cybersecurity & data privacy requirements). STRM also allows the strength of the mapping to be captured.

STRM relies on a justification for the relationship claim. There are three (3) options for the rationale, which is a high-level context within which the two concepts are related:

- 1. Syntactic: How similar is the wording that expresses the two concepts? This is a word-for-word analysis of the relationship, not an interpretation of the language.
- 2. Semantic: How similar are the meanings of the two concepts? This involves some interpretation of each concept's language.
- 3. Functional: How similar are the results of executing the two concepts? This involves understanding what will happen if the two concepts are implemented, performed, or otherwise executed

Based on NIST IR 8477, STRM supports five (5) five relationship types to describe the logical similarity between two distinct concepts:

- 1. Subset Of
- 2. Intersects With
- 3. Equal
- 4. Superset Of
- 5. No Relationship



#### Relationship Type #1: SUBSET OF

Focal Document Element is a subset of SCF control. In other words, SCF control contains everything that Focal Document Element does and more.

#### Relationship Type #2: INTERSECTS WITH

SCF control has some overlap with Focal Document Element, but each includes content that the other does not.

### Relationship Type #3: EOUAL

SCF control and Focal Document Element are the same, although not necessarily identical.

## Relationship Type #4: SUPERSET OF

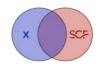
Focal Document Element is a superset of SCF control. In other words, Focal Document Element contains everything that SCF control does and more.

### Relationship Type #5: NO RELATIONSHIP

SCF control and Focal Document Element are unrelated; their content does not overlap.



SUBSET OF Relative Relationship Strength (control versus control)



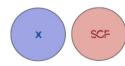
INTERSECTS WITH Relative Relationship Strength (control versus control)



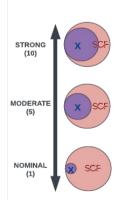
EQUAL Relative Relationship Strength (control versus control)

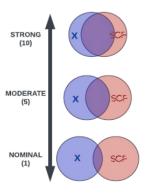


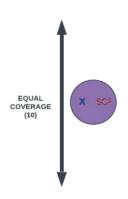
SUPERSET OF Relative Relationship Strength (control versus control)

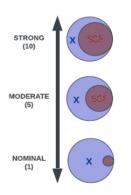


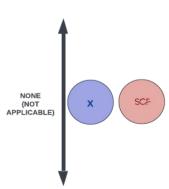
NO RELATIONSHIP
Relative Relationship Strength
(control versus control)











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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 (optional)
4.1	Criminal Justice Information (CII)	Criminal Justice Information is the term used to refer to all of the FBI CIIS provided data necessary for law enforcement and civil agencies to perform their missions including but not limited to biometric, identify listory, biographic, property, and case/incident history data. The following categories of CI describe the various data sets foused by the FBI CIIS architecture.  1. Biometric Data—data Stoued by the FBI CIIS architecture. Dehysical or behavioral in the control of the c	Functional	no rélationship	N/A	N/A	N/A	(Optional)	No requirements to map to.
	Criminal History Record	aforementioned CII until the information is: released to the public via authorized dissemilation leg., within a court system, presented in crime reports data; released in the interest of public safety); purged or destroyed in accordance with applicable record retention rules. CII introduced into the court system pursuant to a judicial proceeding that can be released to the public via a public records request is not subject to the CIIS Security Policy.  Criminal History Record information (CHIN), sometimes informally referred to as "restricted data", is a subset of CII. Due to its comparatively sensitive nature,	Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
4.1.1	Information (CHRI)	additional controls are required for the access, use and dissemination of CHRI. In addition to the dissemination restrictions outlined below, Title 28, Part 20, Code	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	5	
4.2	Access, Use and Dissemination of Criminal History Record Information (CHRI), NCIC Restricted Files Information, and NCIC Non- Restricted Files Information	This section describes the requirements for the access, use and dissemination of CHR, NCIC restricted files information, and NCIC non-restricted files information.  Information obtained from the III is considered CHRI. Rules governing the access,	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.2.1	Proper Access, Use, and Dissemination of CHRI	information obtained from the iii is considered c.Hixi. Rules governing the access, use, and dissemination of C.HRI are found in Title 28, Part 20, C.FR. The III shall be accessed only for an authorized purpose. Further, C.HRI shall only be used for an	Functional	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.  Mechanisms exist to ensure data and assets are categorized in accordance with	10	
	Dissemination of Crist	authorized purpose consistent with the purpose for which III was accessed.	Functional	intersects with	Data & Asset Classification Statutory, Regulatory &	DCH-02	mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.  Mechanisms exist to facilitate the identification and implementation of relevant	5	
		The NCIC hosts restricted files and non-restricted files. NCIC restricted files are	Functional	subset of	Contractual Compliance	CPL-01	statutory, regulatory and contractual controls.  Mechanisms exist to ensure data and assets are categorized in accordance with	10	
4.2.2	Proper Access, Use, and Dissemination of NCIC Restricted Files Information	distinguished from NICL non-restricted files by the policies governing their access and use. Proper access to, use, and dissemination of data from restricted files shall be consistent with the access, use, and dissemination policies concerning the ill described in Title 28, Part 20, CFR, and the NICL Operating Manual. The restricted files, which shall be protected as CHRI, are as follows:  1. Gang files  2. Threat Screening Center Files 3. Supervised Release Files 4. National Sex Offender Registry Files	Functional	intersects with	Data & Asset Classification  Personal Data Retention & Disposal	PRI-05	apolicable statutory, regulatory and contractual requirements.  Mechanisms exist to IV), including metadata, for an organization-defined time period to fulfill the purposes (identified in the notice or as required by law;  *Olispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and  *Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
	Restricted rives information	S. Netsonal acconstruction (page) y lites S. Nistonical Protection Order Files of the NCIC 6. Identity Therk Files 7. Protective Interest files 8. Person With Information (PWI) data in the Missing Person Files 9. Violent Person File 10. NICS Denied Transactions File The remaining NCI files are considered non-restricted files.	Functional	intersects with	Internal Use of Personal Data For Testing, Training and Research	PRI-05.1	Mechanisms exist to address the use of Personal Data (PD) for internal testing, training and research that:  "Aleas measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and  "Authorizes the use of PD when such information is required for internal testing, training and research.	5	
		The remaining were messare considered non-restricted mes.	Functional	intersects with	Usage Restrictions of Sensitive Personal Data	PRI-05.4	Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized purpose(s) consistent with applicable laws, regulations and in data privacy notices.	5	
4.2.3	Proper Access, Use, and Dissemination of NCIC Non- Restricted Files Information	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
			Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
4.2.3.1	For Official Purposes	NCIC non-restricted files are those not listed as restricted files in Section 4.2.2.  NCIC non-restricted files information may be accessed and used for any authorized purpose consistent with the inquiring agency's responsibility. Information obtained may be disseminated to (a) other government agencies or	Functional	intersects with	Personal Data Retention & Disposal	PRI-05	Mechanisms exist to:  *Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identifiled in the notice or as required by law;  *Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and  *Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
		(b) private entitles authorized by law to receive such information for any purpose consistent with their responsibilities.	Functional	intersects with	Internal Use of Personal Data For Testing, Training and Research	PRI-05.1	Mechanisms exist to address the use of Personal Data (PD) for internal testing, training and research that *Takes measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and *Authorites the use of PD when such information is required for internal testing, training and research.	5	
			Functional	intersects with	Usage Restrictions of Sensitive Personal Data	PRI-05.4	Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized purpose(s) consistent with applicable laws, regulations and in data privacy notices.	5	
		NCC non-restricted files may be accessed for other purposes consistent with the resources of the inquiring agency; however, requests for bulk data are discouraged. Information derived from NCC non-restricted files for other than law enforcement purposes can be used by authorized criminal justice personnel	Functional	intersects with	Personal Data Retention & Disposal	PRI-05	Mechanisms exist to:  *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;  *Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and  *Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
4.2.3.2	For Other Authorized Purposes	only to confirm the status of a person or property (i.e., wanted or stolen). An inquiring agency, sunthorized to charge a nominal administrative fee for such service. Non-restricted files information shall not be disseminated commercially. A response to a NCQ Feeston inquiry may include NCQ restricted files information as well as NCIC non-restricted files information. Agencies shall not disseminate restricted files information for purposes other than law enforcement.	Functional	intersects with	Internal Use of Personal Data For Testing, Training and Research	PRI-05.1	Mechanisms exist to address the use of Personal Data (PD) for internal testing, training and research that:  "Takes measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and  "Authorizes the use of PD when such information is required for internal testing, training and research.	5	
			Functional	intersects with	Usage Restrictions of Sensitive Personal Data	PRI-05.4	Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized purpose(s) consistent with applicable laws, regulations and in data privacy notices.	5	
4.2.3.3	CSO Authority in Other Circumstances	If no federal, state or local law or policy prohibition exists, the CSO may exercise discretion to approve or deny dissemination of NCIC non-restricted file information.	Functional Functional	intersects with	Data Stewardship  Disclosure of Information	DCH-01.1 DCH-03.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.  Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized parties with a need to know.	5	
4.2.4	Storage	When CHRI is stored, agencies shall establish appropriate administrative, technical and physical safeguards to ensure the security and confidentiality of the information. These records shall be stored for extended periods only when they are key elements for the integrity and/or utility of case flies and/or criminal record files. See Section 5.9 for physical security controls.	Functional	subset of	Sensitive / Regulated Data Protection	DCH-01.2	parties with a need to know.  Mechanisms exist to protect sensitive/regulated data wherever it is stored.	10	
4.2.5	Justification and Penalties	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.2.5.1	Justification	In addition to the use of purpose codes and logging information, all users shall provide a reason for all III inquiries whenever requested by NCIC System Managers, CSAs, local agency administrators, or their representatives.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.2.5.2	Penalties	Improper access, use or dissemination of CHRI and NCIC Non-Restricted Files information is serious and may result in administrative sanctions including, but not limited to, termination of services and state and federal criminal penalties.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
1			Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
		For the nurnoses of this document. PIL is information which can be used to	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	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 (ontional)	Notes (optional)
4.3	Personally Identifiable Information (PII)	distinguish or trace an individual's identity, such as name, social security number, or biometric records, alone or when combined with other personal or identifying information which is linked or linkable to a specific individual, such as date and place of birth, or mother's maden name. Any FBI CIIS provided data maintained by an agency, including but not limited to education, financial transactions, medical history, and criminal or employment history may include PII. A criminal history record for example inherently contains PII as would a Law Enforcement	Functional	intersects with	Personal Data Retention & Disposal	PRI-05	Mechanisms exist to:  *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;  *Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and  *Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
		National Data Exchange (N-DSL) case file.  Pli shall be extracted from Cli for the purpose of official business only. Agencies shall develop policies, based on state and local privacy rules, to ensure appropriate controls are applied when handling Pile extracted from Cli. Due to the expansive nature of Pil, this Policy does not specify auditing, logging, or personnel security requirements associated with the life cycle of Pil.	Functional	intersects with	Internal Use of Personal Data For Testing, Training and Research	PRI-05.1	Mechanisms exist to address the use of Personal Data (PD) for internal testing, training and research that:  "Aless measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and  "Authorizes the use of PD when such information is required for internal testing, training and research.	5	
			Functional	intersects with	Usage Restrictions of Sensitive Personal Data	PRI-05.4	Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized purpose(s) consistent with applicable laws, regulations and in data privacy notices.  Mechanisms exist to utilize a process to assist users in making information sharing	5	
5.1	Policy Area 1: Information Exchange Agreements	The information shared through communication mediums shall be protected with appropriate security safeguards. The agreements established by entities sharing information across systems and communications mediums are vital to ensuring all parties fully understand and agree to a set of security standards.	Functional	intersects with subset of	Information Sharing  Cybersecurity & Data  Protection Governance	DCH-14 GOV-01	decisions to ensure data is appropriately protected.  Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		Before exchanging CII, agencies shall put formal agreements in place that specify security controls. The exchange of information may take several forms including	Functional	intersects with	Program Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
5.1.1	Information Exchange	electronic mail, instant messages, web services, facsimile, hard copy, and information systems sending, receiving and storing CII. Information exchange agreements outline the roles, responsibilities, and data	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		Procedures for handling and storage of information shall be established to protect that information from unauthorized disclosure, alteration or misuse. Using the requirements in this Policy as a starting point, the procedures shall	Functional Functional	subset of intersects with	Data Protection  Data Stewardship	DCH-01 DCH-01.1	Mechanisms exist to facilitate the implementation of data protection controls.  Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	10 5	
5.1.1.1	Information Handling	using the requirements in this Poincy as a starting point, the procedures shall apply to the handling, processing, storing, and communication of CII. These procedures apply to the exchange of CII no matter the form of exchange.	Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection	10	
		The policies for information handling and protection also apply to using CJI shared with or received from FBI CJIS for noncriminal justice purposes. In general, a noncriminal justice purpose includes the use of criminal history records for	Functional	intersects with	Program Sensitive Information Storage, Handling &	SAT-03.3	governance controls.  Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive information is formally trained in data handling requirements.	5	
		purposes authorized by federal or state law other than purposes relating to the	Functional	intersects with	Processing Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
			Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CIIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CIIS records information programs.	Functional	intersects with	Program  Adequate Security for Sensitive / Regulated Data In Support of Contracts	IAO-03.2	Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5	
5.1.1.2	State and Federal Agency User Agreements	This agreement shall include the standards and sanctions governing utilization of CJIS systems. As coordinated through the particular CSA or SIB Chief, each Interface Agency shall also allow the FBI to periodically test the ability to	Functional	intersects with	In Support of Contracts  Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data	5	
		penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CIIS Division shall be coordinated with the CSA head.	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	subject.  Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
			Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
		Any CIA receiving access to CII shall enter into a signed written agreement with the appropriate signatory authority of the CSA providing the access. The written agreement shall specify the FBI CIIS systems and services to which the agency will	Functional	intersects with	Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
		have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include:  1. Audit.	Functional	intersects with	Adequate Security for Sensitive / Regulated Data In Support of Contracts	IAO-03.2	Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5	
5.1.1.3	Criminal Justice Agency User Agreements	Dissemination.     Hit confirmation.     Logging.	Functional	intersects with	Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
		5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness.	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
		9. Training. 10. Use of the system. 11. Validation.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
			Functional	intersects with	Information Sharing  Adequate Security for	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
		A NCJA (government) designated to perform criminal justice functions for a CJA shall be eligible for access to the CJI. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or	Functional	intersects with	Sensitive / Regulated Data In Support of Contracts	IAO-03.2	Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.  Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes	5	
5.1.1.4	Interagency and Management Control Agreements	interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CJA, which stipulates management control of the criminal justice function remains solely with the CJA. The MCA may be a separate	Functional	intersects with	Information Sharing With Third Parties	PRI-07	identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
		document or included with the language of an interagency agreement. An example of an NCJA (government) is a city information technology (IT) department.	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.  Mechanisms exist to require contractual requirements for cybersecurity & data privacy	5	
		The CJIS Security Addendum is a uniform addendum to an agreement between	Functional	intersects with	Third-Party Contract Requirements	TPM-05 DCH-14	requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.  Mechanisms exist to utilize a process to assist users in making information sharing	5	
		the government agency and a private contractor, approved by the Attorney General of the United States, which specifically authorizes access to CHRI, limits the use of the information to the purposes for which it is provided, ensures the security and confidentiality of the information is consistent with existing	Functional	intersects with	Adequate Security for Sensitive / Regulated Data	IAO-03.2	decisions to ensure data is appropriately protected.  Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5	
5.1.1.5	Private Contractor User Agreements and CJIS	regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require. Private contractors who perform criminal justice functions shall meet the same	Functional	intersects with	In Support of Contracts  Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data	5	
	Security Addendum	training and certification criteria required by governmental agencies performing a similar function, and shall be subject to the same extent of audit review as are local user agencies. All private contractors who perform criminal justice functions shall acknowledge, via signing of the CJIS Security	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	subject.  Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
		Addendum Certification page, and abide by all aspects of the CJIS Security Addendum. The CJIS Security Addendum is presented in Appendix H. Modifications to the CJIS Security Addendum shall be enacted only by the FBI.  1. Private contractors designated to perform criminal justice functions for a CJA	Functional	intersects with	Providers  Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its	5	
		A NCJA (public) designated to request civil fingerprint-based background checks, with the full consent of the individual to whom a background check is taking	Functional	intersects with	Information Sharing	DCH-14	Systems, processes and data.  Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
		place, for noncriminal justice functions, shall be eligible for access to CII. Access shall be permitted when such designation is authorized pursuant to federal law or state statute approved by the U.S. Attorney General. A NCIA (public) receiving access to CII shall enter into a signed written agreement with the appropriate	Functional	intersects with	Adequate Security for Sensitive / Regulated Data In Support of Contracts	IAO-03.2	Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5	
5.1.1.6	Agency User Agreements	signatory authority of the CSA/SIB providing the access. An example of a NCJA (public) is a county school board. A NCJA (private) designated to request civil fingerprint-based background checks,	Functional	intersects with	Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
		with the full consent of the individual to whom a background check is taking place, for noncriminal justice functions, shall be eligible for access to CJI. Access shall be permitted when such designation is authorized pursuant to federal law or state statute approved by the U.S. Attorney General. A NCIA (private) receiving	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
		access to CII shall enter into a signed written agreement with the appropriate signatory authority of the CSA, SIB, or authorized agency providing the access. An example of a NCIA (private) is a local bank.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
		Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA	Functional	intersects with	Information Sharing  Adequate Security for	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.  Mechanisms exist to protect sensitive / regulated data that is collected, developed,	5	
		(private) for noncriminal justice functions shall be eligible for access to CII.  Access shall be permitted when such designation is authorized pursuant to federal law or state statute approved by the U.S. Attorney General. All  Channelers accessing CII shall be subject to the terms and conditions described	Functional	intersects with	Sensitive / Regulated Data In Support of Contracts	IAO-03.2	received, transmitted, used or stored in support of the performance of a contract.  Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes	5	
5.1.1.7	Outsourcing Standards for Channelers	in the Compact Council Security and Management Control Outsourcing Standard. Each Channeler that directly accesses CJI shall also allow the FBI to conduct periodic penetration testing.	Functional	intersects with	Third Parties  Data Privacy Requirements	PRI-07	identified in the data privacy notice and with the implicit or explicit consent of the data subject.  Mechanisms exist to include data privacy requirements in contracts and other	5	
		Channelers leveraging CJI to perform civil functions on behalf of an Authorized Recipient shall meet the same training and certification criteria required by governmental agencies performing a similar function, and shall be subject to the	Functional	intersects with	for Contractors & Service Providers	PRI-07.1	acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.  Mechanisms exist to require contractual requirements for cybersecurity & data privacy	5	
		same extent of audit review as are local user agencies.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	mechanisms exist to require conflictual requirements for cypersecurity at data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	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 (optional)
			Functional	intersects with	Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	(optional) 5	
		Contractors designated to perform noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) for noncriminal justice functions shall be eliable for access to CII. Access shall be emritted when such designation is	Functional	intersects with	Adequate Security for Sensitive / Regulated Data In Support of Contracts	IAO-03.2	Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5	
5.1.1.8	Outsourcing Standards for	authorized pursuant to federal law or state statute approved by the U.S. Attorney General. All contractors accessing CJI shall be subject to the terms and conditions	Functional	intersects with	Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data	5	
	Non-Channelers	described in the Compact Council Outsourcing Standard for Non-Channelers. Contractors leveraging CII to perform civil functions on behalf of an Authorized Recipient shall meet the same training and certification criteria required by governmental agencies performing a similar function, and shall be subject to the	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	subject.  Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
		same extent of audit review as are local user agencies.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
5.1.2	Monitoring, Review, and Delivery of Services	As specified in the interagency agreements, MCAs, and contractual agreements with private contractors, the services, reports and records provided by the service provider shall be regularly monitored and reviewed. The CIA, authorized agency, or FB shall maintain sufficient overall control and visibility into all security aspects to include, but not filmited to, identification of vulnerabilities and information security incident reporting/response. The incidient reporting/response process used by the service provider shall conform to the incident reporting/response specifications provided in this Policy.	Functional	intersects with	Service Delivery (Business Process Support)	OPS-03	Mechanisms exist to define supporting business processes and implement appropriate governance and service management to ensure appropriate planning, delivery and support of the organization's technology capabilities supporting business functions, workforce, and/or customers based on industry-recognized standards to achieve the specific goals of the process area.	5	
5.1.2.1	Managing Changes to Service Providers	Any changes to services provided by a service provider shall be managed by the CIA, authorized agency. of BI. This includes provision of services, changes to existing services, and new services. Evaluation of the risks to the agency shall be undertaken based on the criticality of the data, system, and the impact of the change.	Functional	intersects with	Service Delivery (Business Process Support)	OPS-03	Mechanisms exist to define supporting business processes and implement appropriate governance and service management to ensure appropriate planning, delivery and support of the organization's technology capabilities supporting business functions, workforce, and/or customers based on industry-recognized standards to achieve the specific goals of the process area.	5	
5.1.3	Secondary Dissemination	If CHRI is released to another authorized agency, and that agency was not part of the releasing agency's primary information exchange agreement(s), the releasing agency shall log such dissemination.	Functional	subset of	Disclosure of Information	DCH-03.1	Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized parties with a need to know.  Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized	10	
			Functional	intersects with	Disclosure of Information Information Sharing	DCH-03.1 DCH-14	parties with a need to know.  Mechanisms exist to utilize a process to assist users in making information sharing	5	
	Secondary Dissemination of	If CJI does not contain CHRI and is not part of an information exchange agreement then it does not need to be logged. Dissemination shall conform to the local policy validating the requestor of the CJI as an employee and/or	Functional	intersects with	Information Sharing With Third Parties	PRI-07	decisions to ensure data is appropriately protected.  Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
5.1.4	Non-CHRI CJI	contractor of a law enforcement agency or civil agency requiring the CII to perform their mission or a member of the public receiving CII via authorized dissemination.	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
			Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
		Security training is key to the human element of information security. All users with authorized access to CII should be made aware of their individual	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
5.2	AWARENESS AND TRAINING (AT)	responsibilities and expected behavior when accessing CJI and the systems which process CJI. LASOs require enhanced training on the specific duties and responsibilities of those positions and the impact those positions have on the	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
		overall security of information systems.	Functional	subset of	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
			Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
5.3	INCIDENT RESPONSE (IR)	N/A	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
			Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
		Agencies shall implement audit and accountability controls to increase the probability of authorized users conforming to a prescribed pattern of behavior. Agencies shall carefully assess the inventory of components that compose their	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
		information systems to determine which security controls are applicable to the various components.	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
5.4	Policy Area 4: Auditing and Accountability	Auditing controls are typically applied to the components of an information system that provide auditing capability (servers, etc.) and would not necessarily be applied to every user-level workstation within the agency. As technology	Functional	intersects with	Alert Threshold Tuning	MON- 01.13	Mechanisms exist to "tune" event monitoring technologies through analyzing communications traffic/event patterns and developing profiles representing common traffic patterns and/or events.	5	
		advances, more powerful and diverse functionality can be found in such devices as personal digital assistants and cellular telephones, which may require the application of security controls in accordance with an agency assessment of risk.	Functional	intersects with	Analyze and Prioritize Monitoring Requirements	MON- 01.16	Mechanisms exist to assess the organization's needs for monitoring and prioritize the monitoring of assets, based on asset criticality and the sensitivity of the data it stores, transmits and processes.	5	
		Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event logs.	5	
			Functional	intersects with	Correlate Monitoring Information	MON-02.1	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	
			Functional	intersects with	Alert Threshold Tuning	MON- 01.13	Mechanisms exist to "tune" event monitoring technologies through analyzing communications traffic/event patterns and developing profiles representing common traffic patterns and/or events.	5	
			Functional	intersects with	Analyze and Prioritize Monitoring Requirements	MON- 01.16	Mechanisms exist to assess the organization's needs for monitoring and prioritize the monitoring of assets, based on asset criticality and the sensitivity of the data it stores, transmits and processes.	5	
		The agency's information system shall generate audit records for defined events.	Functional	intersects with	Automated Tools for Real- Time Analysis	MON-01.2	Mechanisms exist to utilize a Security incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation.	5	
		These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall	Functional	intersects with	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
	Auditable Events and	specify which information system components carry out auditing activities.  Auditing activity can affect information system performance and this issue must be considered as a separate factor during the acquisition of information systems.	Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
5.4.1	Content (Information Systems)	The agency's information system shall produce, at the application and/or operating system level, audit records containing sufficient information to establish what events occurred, the sources of the events, and the outcomes of the events. The agency shall periodically review and update the list of agency-	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event logs.	5	
		the events. In a agency- defined auditable events. In the event an agency does not use an automated system, manual recording of activities shall still take place.	Functional	intersects with	Correlate Monitoring Information	MON-02.1	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. Mechanisms exist to configure systems to produce event logs that contain sufficient	5	
			Functional	intersects with	Content of Event Logs	MON-03	Mechanisms exist to configure systems to produce event togs that contain sumicient information, to, at minimum:  *Establish what type of event occurred;  *When (date and time) the event occurred;  *When expect of the event occurred;  *The source of the event;  *The outcome (success or failure) of the event; and  *The identity of any user/subject associated with the event.  Mechanisms exist to configure systems to produce event logs that contain sufficient	5	
	Content	The following content shall be included with every audited event:  1. Date and time of the event.  2. The component of the information system (e.g., software component, hardware component) where the event occurred.  3. Type of event.  4. User/subject identity.  5. Outcome (success or failure) of the event.	Functional	intersects with	Content of Event Logs	MON-03	Mechanisms exist to contigure systems to produce event togs that contain sumicient information to, at a minimum:  *Establish what type of event occurred;  *When (date and time) the event occurred;  *When the event occurred;  *The source of the event;  *The outcome (success or alluler) of the event; and  *The identity of any user/subject associated with the event.	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 (optional)
								(optional)	
5.4.1.1	Events	The following events shall be logged:  1. Successful and unsuccessful system log-on attempts.  2. Successful and unsuccessful system log-on attempts.  2. Successful and unsuccessful strempts to use:  a. access permission on a user account, file, directory or other system resource;  b. create permission on a user account, file, directory or other system resource;  c. write permission on a user account, file, directory or other system resource;  c. change permission on a user account, file, directory or other system resource.  3. Successful and unsuccessful strempts to change account passwords.  4. Successful and unsuccessful strempts to change account passwords.  5. Successful and unsuccessful attempts to change account passwords.  5. Successful and full follie;  5. More accessful and follies full follies.  6. Successful and follies full follies.  6. Lestroy the audit log file;  6. Lestroy the audit log file;	Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
		The following content shall be included with every audited event:	Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
5.4.1.1.1	Content	1. Date and time of the event. 2. The component of the information system (e.g., software component, hardware component) where the event occurred. 3. Type of event. 4. User/subject identity, 5. Outcome (success or failure) of the event.	Functional	intersects with	Content of Event Logs	MON-03	Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum:  - Establish what type of event occurred;  - When (date and time) the event occurred;  - When extreme the event occurred;  - When the event occurred;  - The outcome (success or failure) of the event; and  - The outcome (success or failure) of the event; and  - The identity of any user/subject associated with the event.	5	
5.4.2	Response to Audit Processing Failures	The agency's information system shall provide alerts to appropriate agency officials in the event of an audit processing failure. Audit processing failures include, for example: software/hardware errors, failures in the audit capturing mechanisms, and audit storage capacity being reached or exceeded.	Functional	equal	Response To Event Log Processing Failures	MON-05	Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.	10	
			Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
		The responsible management official shall designate an individual or position to review/analyze information system audit records for indications of inappropriate or unusual activity, investigate suspicious activity or suspected violations, to	Functional	intersects with	Alert Threshold Tuning	MON- 01.13	Mechanisms exist to "tune" event monitoring technologies through analyzing communications traffic/event patterns and developing profiles representing common traffic patterns and/or events.	5	
5.4.3	Audit Monitoring, Analysis,	report findings to appropriate officials, and to take necessary actions. Audit review/analysis shall be conducted at a minimum once a week. The frequency of review/analysis should be increased when the values of an approxic processing.	Functional	intersects with	Analyze and Prioritize Monitoring Requirements	MON- 01.16	Mechanisms exist to assess the organization's needs for monitoring and prioritize the monitoring of assets, based on asset criticality and the sensitivity of the data it stores,	5	
5.4.3	and Reporting	review/analysis should be increased when the volume of an agency's processing indicates an elevated need for audit review. The agency shall increase the level of audit monitoring and analysis activity within the information system whenever	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	transmits and processes.  Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar	5	
		there is an indication of increased risk to agency operations, agency assets, or individuals based on law enforcement information, intelligence information, or other credible sources of information.			, , , , ,		automated tool, to support the centralized collection of security-related event logs.  Automated mechanisms exist to correlate both technical and non-technical		
		The agency's information system shall provide time stamps for use in audit	Functional	intersects with	Correlate Monitoring Information		Information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	5	
5.4.4	Time Stamps  Protection of Audit	record generation. The time stamps shall include the date and time values generated by the internal system clocks in the audit records. The agency shall synchronize internal information system clocks on an annual basis.  The agency's information system shall protect audit information and audit tools	Functional	equal	Time Stamps	MON-07	Mechanisms exist to configure systems to use an authoritative time source to generate time stamps for event logs.  Mechanisms exist to protect event logs and audit tools from unauthorized access,	10	
5.4.5	Information	from modification, deletion and unauthorized access.  The agency shall retain audit records for at least one (1) year. Once the minimum	Functional	equal	Protection of Event Logs	MON-08	modification and deletion.	10	
5.4.6	Audit Record Retention	reterition time period has passed, the agency shall continue to retain audit seconds until its determined thay are no longer needed for administrative, legal, audit, or other operational purposes. This includes, for example, reterition and availability of audit records relative to Freedom of Information Act (FOIA) requests, subpoena, and law enforcement actions.	Functional	equal	Event Log Retention	MON-10	Mechanisms exist to retain event logs 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.	10	
5.4.7	Logging NCIC and III Transactions	A log shall be maintained for a minimum of one (1) year on all NCIC and III transactions. The III portion of the log shall clearly identify both the operator and the authorized receiving agency. III logs shall also clearly identify the requester and the secondary recipient. The identification on the log shall take the form of a unique identifier that shall remain unique to the individual requester and to the secondary recipient throughout the minimum one year retention period.	Functional	subset of	Event Log Retention	MON-10	Mechanisms exist to retain event logs 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.	10	
5.5	ACCESS CONTROL (AC)	Access control provides the planning and implementation of mechanisms to restrict reading, writing, processing, and transmission of CIJS information and the modification of information systems, applications, services, and communication	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
		configurations allowing access to CIIS information.  Refer to Section 5.13.6 for additional access control requirements related to mobile devices used to access CII.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.6	IDENTIFICATION AND AUTHENTICATION (IA)	Identification is a unique, auditable representation of an identity within an information system usually in the form of a simple character string for each individual user, machine, software component, or any other entity.	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
		Authentication refers to mechanisms or processes to verify the identity of a user, process, or device, as a prerequisite to allowing access to a system's resources.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data prixacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.7	Policy Area 7: Configuration Management	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.7.1	Access Restrictions for Changes	Planned or unplanned changes to the hardware, software, and/or firmware components of the information system can have significant effects on the overall security of the system. The goal is to allow only qualified and authorized individuals access to information system components for purposes of initiating changes, including upgrades, and modifications. Section 55, Access Control, describes agency requirements for control of privileges and restrictions.	Functional	equal	Access Restriction For Change	CHG-04	Mechanisms exist to enforce configuration restrictions in an effort to restrict the ability of users to conduct unauthorized changes.	10	
5.7.1.1	Least Functionality	The agency shall configure the application, service, or information system to provide only essential capabilities and shall specifically prohibit and/or restrict the use of specified functions, ports, protocols, and/or services.	Functional	equal	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	10	
5.7.1.2	Network Diagram	The agency shall ensure that a complete topological drawing depicting the interconnectivity of the agency network, to criminal justice information, systems and services is maintained in a current status. See Appendix C for sample network diagrams.  In the network topological drawing shall include the following:  1. All communications paths, circuits, and other components used for the interconnection, beginning with the agency-owned system(s) and traversing through all interconnected systems to the agency end-point.  2. The logical location of all components (e.g., firewalts, routers, switches, hubs, servers, encryption devices, and computer workstations). Individual workstations (clients) do not have to be shown, the number of clients is sufficient.  3. "For Official Use Only" (FOUO) markings.  4. The agency name and date (day, month, and year) drawing was created or updated.	Functional	subset of	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	Mechanisms exist to maintain network architecture diagrams that:  • Contain sufficient detail to assess the security of the network's architecture;  • Reflect the current architecture of the network environment; and  • Document all sensitive/regulated data flows.	10	
	Security of Configuration	The system configuration documentation often contains sensitive details (e.g., descriptions of applications, processes, procedures, data structures,	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.  Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar	10	
5.7.2	Security of Configuration Documentation	authorization processes, data flow, etc.) Agencies shall protect the system documentation from unauthorized access consistent with the provisions described in Section 5.5 Access Control.	Functional	intersects with	System Security & Privacy Plan (SSPP)	IAO-03	document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	5	
5.8	MEDIA PROTECTION (MP)	Documented and implemented media protection policies and procedures ensure that access to digital and non-digital media in all forms is restricted to authorized individuals using authorized methods and processes.	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation Periodic Review & Update	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.  Mechanisms exist to review the cybersecurity & data privacy program, including	5	
		a mag a mistinus unu processis.	Functional	intersects with	of Cybersecurity & Data Protection Program  Publishing Cybersecurity &	GOV-03	policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
			Functional	intersects with	Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	



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5.9	Policy Area 9: Physical Protection	Physical protection policy and procedures shall be documented and implemented to ensure CII and information system hardware, software, and media are physically protected through access control measures.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	(optional) 5	
			Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
5.9.1	Physically Secure Location	A physically secure location is a facility, a criminal justice conveyance, or an area, a room, or a group of rooms within a facility with both the physical and personnel security controls sufficient to protect CII and associated information systems. The physically secure location is subject to criminal justice agency management control. 38 control, F8C LIS Security addendum, or a combination thereof. Sections 5.9.1.1–5.18 describe the physical organize required in order to be considered a physically secure location, while Sections 5.2.1–5.2 respectively, describe the minimum security averages training and personnel security controls required for unescorted access to a physically secure location. Sections 5.5.5.2.2.1, and 5.10 describe the requirements for technical security controls required to access CII from within the perimeter of a physically secure location without AA.	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
5.9.1.1	Security Perimeter	The perimeter of a physically secure location shall be prominently posted and separated from non-secure locations by physical controls. Security perimeters shall be defined, controlled and secured in a manner acceptable to the CSA or SIB.	Functional	intersects with	Controlled Ingress & Egress Points	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access through controlled ingress and egress points.	5	
5.9.1.2	Physical Access Authorizations	The agency shall develop and keep current a list of personnel with authorized access to the physically secure location (except for those areas within the permanent facility officially designated as publicly accessible) or shall issue credentials to authorized personnel.	Functional	equal	Physical Access Authorizations	PES-02	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).	10	
		The agency shall control all physical access points (except for those areas within	Functional	intersects with	Role-Based Physical Access	PES-02.1	Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	5	
5.9.1.3	Physical Access Control	The agency small could be impracted as publicly accessible) and shall verify individual access authorizations before granting access.	Functional	intersects with	Physical Access Control	PES-03	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	
5.9.1.4	Access Control for Transmission Medium	The agency shall control physical access to information system distribution and transmission lines within the physically secure location.	Functional	equal	Transmission Medium Security	PES-12.1	Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.	10	
	Access Control for Display	The agency shall control physical access to information system devices that	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	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	
5.9.1.5	Medium	display CJI and shall position information system devices in such a way as to prevent unauthorized individuals from accessing and viewing CJI.	Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	5	
			Functional	intersects with	Access Control for Output Devices	PES-12.2	Physical security mechanisms exist to restrict access to printers and other system output devices to prevent unauthorized individuals from obtaining the output.	5	
5.9.1.6	Monitoring Physical Access	The agency shall monitor physical access to the information system to detect and respond to physical security incidents.	Functional	equal	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	10	
5.9.1.7	Visitor Control	The agency shall control physical access by authenticating visitors before authorizing escorted access to the physically secure location (except for those areas designated as publicly accessible). The agency shall escort visitors at all times and monitor visitor activity.	Functional	equal	Visitor Control	PES-06	Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas designated as publicly accessible).	10	
5.9.1.8	Delivery and Removal	The agency shall authorize and control information system-related items entering and exiting the physically secure location.	Functional	equal	Delivery & Removal	PES-10	Physical security mechanisms exist to isolate information processing facilities from points such as delivery and loading areas and other points to avoid unauthorized access.	10	
5.9.2	Controlled Area	If an agency cannot meet all of the controls required for establishing a physically secure location, but has an operational need to access or store CII, the agency shall designate an area, a room, or a storage container, as a controlled area for the purpose of day-to-day CII access or storage. The agency shall, at a minimum: I Limit access to the controlled area during CII processing times to only those	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	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	
		personnel authorized by the agency to access or view CJI.	Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	5	
5.10	Policy Area 10: System and Communications Protection	Examples of systems and communications safeguards range from boundary and transmission protection to securing angency's virtualized environment. In addition, applications, services, or information systems must have the capability to ensure system integrity through the detection and protection against unauthorized changes to software and information. This section details the policy for protecting systems and communications infrastructures. Refer to Section 5.13.4 for additional system integrity requirements related to mobile devices used to access CII.	Functional	subset of	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
5.10.1	Information Flow Enforcement	The network infrastructure shall control the flow of information between interconnected systems. Information flow control regulates where information is allowed to travel within an information system and between information systems (as opposed to who is allowed to access the information) and without explicit	Functional	intersects with	Layered Network Defenses	NET-02	Mechanisms exist to implement security functions as a layered structure that minimizes interactions between layers of the design and avoids any dependence by lower layers on the functionality or correctness of higher layers.	5	
	Enforcement	regard to subsequent accesses to that information. In other words, controlling how data moves from one place to the next in a secure manner. Examples of controls that are better expressed as flow control than access control (see	Functional	intersects with	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal systems.	5	
5.10.1.1	Boundary Protection	The agency shall:  1. Control access to networks processing CII.  2. Monitor and control communications at the external boundary of the information system and as key internal boundaries within the system control of the information system and as key internal boundaries within the system control of the information systems of the control	Functional	equal	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.	10	
		Encryption is a form of cryptology that applies a cryptographic operation to	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
		provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
5.10.1.2	Encryption	(readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid	Functional	intersects with	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
		encryption solutions do exist and use both asymmetric encryption for client/server certificate exchange – session integrity and symmetric encryption for bulk data encryption – data confidentiality.	Functional	intersects with	Protection of Confidentiality / Integrity Using Encryption	NET-14.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).	5	
		Miles Cities and American	Functional	intersects with	Authentication & Encryption	NET-15.1	Mechanisms exist to protect wireless access through authentication and strong encryption.	5	
5.10.1.2.1	Encryption for CJI in Transit	When CII is transmitted outside the boundary of the physically secure location, the data shall be immediately protected via encryption. When encryption is employed, the cryptographic module used shall be FIPS 140-2 certified and use a symmetric cipher key strength of at least 128 bit strength to protect CII.	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
		Symmetric ciprier key strength of at least 128 bit strength to protect Cir.  NOTE: Subsequent versions of approved cryptographic modules that are under	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	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 (optional)
5.10.1.2.2	Encryption for CII at Rest	When CII is at rest (i.e., stored digitally) outside the boundary of the physically secure location, the data shall be protected via encryption. When encryption is employed, agencies shall either encrypt CII in accordance with the standard in section 5.01.2.1 above, or use a symmetric cipher that is FirS 197 certified (AES) and at least 256 bit strength.  1. When agencies implement encryption on CII at rest, the passphrase used to unlock the cipher shall emplement encryption on CII at rest, the passphrase used to unlock the cipher shall emplement encryption on CII at rest, the passphrase used to unlock the cipher shall emplement of the cipher of the containing multiple files. But all under requirements found in Section 6.2.4. Auditiple files maintained in the same unencrypted folder shall have separate and distinct passphrase. A single passphrase has a but to encrypt an entire officer or disk containing multiple files. All audit requirements found in Section 5.4.1 Auditable Events and Content (Information Systems) shall be applied. NOTE: Commonly available encryption tools often use a key to unlock the cipher to allow data access; this key is called a passphrase. While similar to a password, a passphrase is not used for user authentication. Additionally, the passphrase contains stringent character requirements making it more secure and thus providing a higher level of confidence that the passphrase will not be compromised.	Functional	equal	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	10	
5.10.1.2.3	Public Key Infrastructure (PKI) Technology	For agencies using public key infrastructure (PRI) technology, the agency shall develop and implement a certificate policy and certification practice statement for the issuance of public key certificates used in the information system. Registration to receive a public key certificate shall:  1. include authorization by a supervisor or a responsible official.  2. Be accomplished by a secure process that verifies the identity of the certificate holder.  3. Ensure the certificate is issued to the intended party.	Functional	subset of	Public Key Infrastructure (PKI)	CRY-08	Mechanisms exist to securely implement an internal Public Key Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service provider.	10	
		Voice over Internet Protocol (VoIP) has been embraced by organizations globally as an addition to, or replacement for, or public switched telephone network (PSTN) and private branch exchange (PBX) telephone systems. The immediate benefits are lower costs that radditional telephone services and Voli can be installed in- lined that the protocol organization is existing internet Protocol (IP) services. Among VoIP's risks that have to be considered carefully are: myrisd security concerns, cost	Functional	intersects with	Host Intrusion Detection and Prevention Systems (HIDS / HIPS) Intrusion Detection & Prevention Systems (IDS &	END-07 MON-01.1	Mechanisms exist to utilize Host-based Intrusion Detection / Prevention Systems (HIDS /HIPS), or similar technologies, to monitor for and protect against anomalous host activity, including lateral movement across the network	5	
5.10.1.3		issues associated with new networking hardware requirements, and overarching quality of service (QoS) factors.  In addition to the security controls described in this document, the following	Functional	intersects with	IPS) Network Intrusion Detection / Prevention	NET-08	technologies on critical systems, key network segments and network choke points.  Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.	5	
		additional controls shall be implemented when an agency deploys VoIP within a network that contains unencrypted CII: 1. Establish usage restrictions and implementation guidance for VoIP technologies.	Functional	intersects with	Systems (NIDS / NIPS) Wireless Intrusion Detection / Prevention	NET-08.2	Mechanisms exist to monitor wireless network segments to implement Wireless Intrusion Detection / Prevention Systems (WIDS/WIPS) technologies.	5	
		techniougies.  Organizations transitioning to a cloud environment are presented unique opportunities and challenges (e.g., purported cost savings and increased efficiencies versus a loss of control over the data). Reviewing the cloud	Functional	intersects with	Systems (WIDS / WIPS) Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliclously.	5	
5.10.1.4	Cloud Computing	computing white paper (Appendix G.3), the cloud assessment located within the security policy resource center on FBI.gov, NIST Special Publications (800-144, 800-145, and 800-146), as well as the cloud provider's policies and capabilities	Functional	subset of	Cloud Services	CLD-01	Mechanisms exist to facilitate the implementation of cloud management controls to ensure cloud instances are secure and in-line with industry practices.	10	
5.10.2	Facsimile Transmission of CJI	CII transmitted via a single or multi-function device over a standard telephone line is exempt from encryption requirements. Oil transmitted external to a physically secure location using a facisimile server, application or service which implements email-like technology, shall need the encryption requirements for CII in transit as defined in Section 5.10.	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
	Partitioning and	As resources grow scarce, agencies are increasing the centralization of applications, services, and system administration. Advanced software now provides the ability to create virtual machines that allows agencies to reduce the	Functional	intersects with	Virtual Machine Images Standardized Virtualization	CLD-05	Mechanisms exist to ensure the integrity of virtual machine images at all times.	5	
5.10.3	Virtualization	amount of hardware needed. Although the concepts of partitioning and virtualization have existed for a while, the need for securing the partitions and virtualized machines has evolved due to the increasing amount of distributed	Functional	intersects with	Formats  Virtualization Techniques	CLD-08 SEA-13.1	Mechanisms exist to ensure interoperability by requiring cloud providers to use industry-recognized formats and provide documentation of custom changes for review. Mechanisms exist to utilize virtualization techniques to support the employment of a	5	
5.10.3.1	Partitioning	processing and federated information sources now available across the Internet.  The application, service, or information system shall separate user functionality (including user interface services) from information system management	Functional	intersects with	System Partitioning	SEA-03.1	diversity of operating systems and applications.  Mechanisms exist to partition systems so that partitions reside in separate physical domains or environments.	5	
		functionality. The application, service, or information system shall physically or logically Virtualization refers to a methodology of dividing the resources of a computer	Functional	intersects with	Application Partitioning	SEA-03.2	Mechanisms exist to separate user functionality from system management functionality.  Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity	5	
5.10.3.2	Virtualization	(hardware and software) into multiple execution environments. Virtualized environments are authorized for criminal justice and noncriminal justice activities. In addition to the security controls described in this Policy, the	Functional	subset of intersects with	Secure Engineering Principles Virtualization Techniques	SEA-01 SEA-13.1	& data privacy practices in the specification, design, development, implementation and modification of systems and services.  Mechanisms exist to utilize virtualization techniques to support the employment of a	10	
5.11	Policy Area 11: Formal Audits	following additional controls shall be implemented in a virtual environment:  Formal audits are conducted to ensure compliance with applicable statutes, regulations and policies.	Functional	intersects with	Independent Assessors	CPL-03.1	diversity of operating systems and applications.  Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project	5	
5.11.1	Audits  Audits by the FBI CIIS  Division	regulations and policies.  N/A	Functional	no relationship	N/A	N/A	undergoes significant changes.  N/A	N/A	No requirements to map to.
5.11.1.1	Triennial Compliance Audits by the FBI CJIS Division	The FBI CIIS Division is authorized to conduct audits, once every three (3) years as a minimum, to assess agency compliance with applicable statutes, regulations and policies. The CIS Audit Lint (CIA) shall conduct a Theminal audit of each CSA in order to verify compliance with applicable statutes, regulations and policies. This audit shall include a sample of CLAs and, in coordination with the SII, the NOLAS. Audits may be conducted on a more frequent basis if the audit reveals that an agency has not complied with applicable statutes, regulations and policies. The FBI CIIS Division shall also have the authority to conduct unannounced security inspections and scheduled audits of Contractor facilities.	Functional	intersects with	Independent Assessors	CPL-03.1	Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project undergoes significant changes.	5	
5.11.1.2	Triennial Security Audits by the FBI CJIS Division	The FBI CLIS Division is authorized to conduct security audits of the CSA and SIB networks and system, once every three (3) years as a maintimen, to assess agency compliance with the CLIS Security Polloy. This audit shall include a sample of CLIs and NCLIAs. Audits may be conducted on a more frequent basis if the audit reveals that an agency has not complied with the CLIS Security Polloy.	Functional	intersects with	Independent Assessors	CPL-03.1	Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project undergoes significant changes.	5	
5.11.2	Audits by the CSA	Each CSA shalt:  1. At a minimum, triennially audit all CIAs and NCIAs which have direct access to the state system in order to ensure compliance with applicable statutes, regulations and policies.  2. In coordination with the SIB, establish a process to periodically audit all NCIAs, with access to CII, in order to ensure compliance with applicable statutes, regulations and policies.  3. Have the authority to conduct unannounced security inspections and scheduled audits of Contractor facilities.  4. Have the authority, on behalf of another CSA, to conduct a CSP compliance audit of contractor facilities and provide the results to the requesting CSA. If a subsequent CSA requests an audit of the same contractor facility, the CSA may requesting CSA that a new audit be performed.  Note: This authority does not apply to the audit requirement outlined in the Security and Management Control Quiscouring Standard for Non-Channeler and Channelers related to outsourcing noncriminal justice administrative functions.	Functional	intersects with	Independent Assessors	CPL-03.1	Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project undergoes significant changes.	5	
5.11.3	Special Security Inquiries and Audits	All agencies having access to CII shall permit an inspection team to conduct an appropriate inquiry and audit of any alleged security violations. The inspection team shall be appointed by the APB and shall include at least one representative of the CIIS Division. All results of the inquiry and audit shall be reported to the APB with appropriate recommendations.	Functional	intersects with	Independent Assessors	CPL-03.1	Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project undergoes significant changes.	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 (optional)	Notes (optional)
5.11.4	Compliance Subcommittees	The Criminal Justice Information Services (CIIS) Advisory Policy Board (APB) established the Compliance Evaluation Subcommittee (CES) to evaluate the results of audits conducted by the CIIS Audit Unit (AUI). The CES makes specific recommendations to the APB concerning compliance with applicable policies and regulations. The most current information regarding the CAU audits that are without the compliance of the CES and the CES and the policies process procedures are established by the CES and the CES and the CES and CES and CES and CES Section and CIIS Section of Fill Reproduces and CES section and CIIS Section of Fill Reproduces are considered and the CES and CES Section and CIIS Section of Fill Reproduces and CES section and CIIS Section of Fill Reproduces and CES section and CIIS Section of Fill Reproduces and CES section and CIIS Section of Fill Reproduces and CES section and CIIS Section of Fill Reproduces and CES section a	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.12	Policy Area 12: Personnel Security	Having proper security measures against the insider threat is a critical component for the CIS Security Policy. This section's security terms and requirements apply of all personnel who have unescorded access to unencrypted CI. Regardless of the implementation model – physical data center, virtual cloud solution, or a hybrid model – unescorded access to unencrypted CI in must be determined by the agency taking into consideration if those individuals have unescorted logical or physical access to any information system resulting in the ability, right, or privilege to view, modify, or make use of unencrypted CI.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.12.1	Personnel Screening Requirements for Individuals Requiring Unescorted Access to Unencrypted CII	1. To verify werrunk-actor, state or resource; a rain valoritat integriprite-duality record checks shall be conducted prior to granting access to Clif for all personnel who have unexcorted access to unencrypted Cli or unescorted access to ophysically secure locations or controlled areas (during times of Cli processing), thowever, if the person resides in a different state than that of the assigned agency, the agency shall conduct state (of the agency) and notional fingerprint-based record checks and execute a NLTS CHRI (D/C)/CA query using purpose and control of the con	Functional	equal	Personnel Screening	HRS-04	Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.	10	
5.12.2	Personnel Termination	Upon termination of personnel by an interface agency, the agency shall immediately terminate access to local agency systems with access to CI. Furthermore, the Interface agency hall provide notification or other action to ensure access to state and other agency systems is terminated. If the employee is an employee of a NCIA or a Contractor, the employer shall notify all interface Agencies that may be affected by the personnel change.	Functional	equal	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	10	
5.12.3	Personnel Transfer	The agency shall review CJI access authorizations when personnel are reassigned or transferred to other positions within the agency and initiate appropriate actions such as closing and establishing accounts and changing system access	Functional	equal	Personnel Transfer	HRS-08	Mechanisms exist to adjust logical and physical access authorizations to systems and facilities upon personnel reassignment or transfer, in a timely manner.	10	
5.12.4	Personnel Sanctions	authorizations.  The agency shall employ a formal sanctions process for personnel failing to comply with established information security policies and procedures.	Functional	equal	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	10	
5.13	Policy Area 13: Mobile Devices	This policy area describes considerations and requirements for mobile devices including smarphones and tablets. Nobile devices are not limited to a single form factor or communications medium. The requirements in this section augment those in other areas of the Policy to address the gaps introduced by using mobile devices, and (i) extendible those is made in the probability of the simple that the probability of the probability	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.  Mechanisms exist to implement and govern Mobile Device Management (MDM)	10	
5.13.1	Wireless Communications Technologies	802.11, cellular, Bluetooth, satellite, microwave, and land mobile radio (LMR). Wireless technologies require at least the minimum security applied to wired	Functional	intersects with	Of Mobile Devices Wireless Networking	MDM-01 NET-15	mechanisms exist to implement and govern moune Device management (MDM) controls.  Mechanisms exist to control authorized wireless usage and monitor for unauthorized	5	
5.13.1.1	802.11 Wireless Protocols	technology and, based upon the specific technology or implementation, wireless exerce Equivalent "may liver," and unrestrictures that seeks liveral purposes shall implement the following controls for all agency-managed wireless access points with access to an agency's network that processes unencrypted CII:  1. Perform validation testing to ensure rogue APs (Access Points) do not exist in the 80.211 Wireless Local Area Network (WLAN) and to fully understand the wireless network security posture.  2. Maintain a complete inventory of all Access Points (APs) and 80.211 wireless decirce.  3. Place APs in secured areas to prevent unauthorized physical access and user manipolation.  4. Test AP sin secured areas to prevent unauthorized physical access and user manipolation.  4. Test AP and being the AP wireless coverage to limit the coverage area to only water is exacted for operational purpose.  5. Enable user authentication and encryption mechanisms for the management interface of the AP.  6. Ensure that all APs have strong administrative passwords and ensure that all passwords are changed in accordance with Section S.G. 2.1.  7. Ensure the reset function on APs is used only when needed and is only invoked by authorized personnel. Restore the APs to the latest security settings, when the reset functions are used, to ensure the factory default settings are not utilized.  8. Change that the APs. Disconnel. Restore the APs. to the latest security settings, when the reset functions are used, to ensure the factory default settings are not utilized.  8. Change that the APs. Disconnel. Restore the reset function that of the AP. Validate that the SSD character string does not contain any agency identifiable information (dividion), department, settle effects and the default shared keys are replaced by unique key.	Functional	subset of	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	10	



	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
5.13.1.2	Cellular Devices	Cellular telephones, smartphones (i.e., Blackberry, Phones, etc.), tablets, personal digital assistans (PDA), and "arracts" are examples of cellular handheld devices or devices that are capable of employing cellular technology. Additionally, cellular handheld edvices typically include Bluetoth, infrared, and other wireless protocols capable of joining infrastructure networks or creating dynamic ad hoc networks.  Threats to cellular handheld devices stem mainly from their size, portability, and available wireless interfaces and associated services. Examples of threats to cellular handheld devices include: 1. Loss, theft, or disposal. 2. Unauthorized access. 3. Nalware. 4. Spam. 5. Electronic aewasdropping. 6. Electronic reacking (threat to security of data and safety of the criminal justice.	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	10	
		professional). 7. Cloning (not as prevalent with later generation cellular technologies). 8. Server-resident data. Certain internal functions on cellular devices may be modified or compromised by the cellular carrier during international use as the devices are intended to have	Functional	intersects with	Tamper Detection	AST-08	Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoCl.	5	
5.13.1.2.1	Collular Society Abroad	certain parameters configured by the cellular provider which is considered a "trusted" entity by the device.	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
		When devices are authorized to access CII outside the U.S., agencies shall perform an inspection to ensure that allocations are in place and functioning properly in accordance with the agency's policies prior to and after deployment outside of the U.S.	Functional	intersects with	Mobile Device Tampering	MDM-04	Mechanisms exist to protect mobile devices from tampering through inspecting devices returning from locations that the organization deems to be of significant risk, prior to the device being connected to the organization's network.	5	
5.13.1.2.2 V		Any cellular device used to transmit CJI via voice is exempt from the encryption	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
		and authentication requirements.	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.1.3	Bluetooth	Bluetooth is an open standard for short-range radio frequency (RF) communication. Bluetooth is used primarily to establish wireless personal area networks (WPAN). Bluetooth technology has been integrated into many types of business and consumer devices, including cell phones, laptops, automobiles,	Functional	intersects with	System Hardening Through Baseline Configurations Centralized Management	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.  Mechanisms exist to implement and govern Mobile Device Management (MDM)	5	
		medical devices, printers, keyboards, mice, headsets, and biometric capture Many mobile devices include the capability to function as a Wi-Fi hotspot that	Functional	intersects with	Of Mobile Devices  System Hardening Through	MDM-01	controls.  Mechanisms exist to develop, document and maintain secure baseline configurations	5	
5.13.1.4	Mobile Hotspots	allows other devices to connect through the device to the internet over the devices cellular network.  When an agency allows mobile devices that are approved to access or store CJI to	Functional	intersects with	Baseline Configurations  Centralized Management	CFG-02	for technology platforms that are consistent with industry-accepted system hardening standards. Mechanisms exist to implement and govern Mobile Device Management (MDM)	5	
	l t	function as a Wi-Fi hotspot connecting to the Internet, they shall be configured: Mobile Device Management (MDM) facilitates the implementation of sound	Functional	intersects with subset of	Of Mobile Devices Centralized Management	MDM-01 MDM-01	wectianisms exist to implement and govern widdlie Device Management (MDM)  Controls.  Mechanisms exist to implement and govern Mobile Device Management (MDM)	5	
5.10.0 M	Mohile Device Management	security controls for mobile devices and allows for centralized oversight of configuration control, application usage, and device protection and recovery, if so	Functional	intersects with	Of Mobile Devices Access Control For Mobile	MDM-01	controls.  Mechanisms exist to enforce access control requirements for the connection of mobile	5	
5.13.2	(MDM)	desired by the agency.  Due to the potential for inconsistent network access or monitoring capability on mobile devices, methods used to monitor and manage the configuration of full-	Functional	intersects with	Devices Full Device & Container- Based Encryption	MDM-03	devices to organizational systems.  Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption.	5	
	1	featured operating systems may not function properly on devices with limited- Organizations shall, at a minimum, ensure that wireless devices:	Functional Functional	intersects with	Remote Purging Endpoint Protection	MDM-05 END-02	Mechanisms exist to remotely purge selected information from mobile devices.  Mechanisms exist to protect the confidentiality, integrity, availability and safety of	5	
5.13.3	Mitigations	<ol> <li>Apply available critical patches and upgrades to the operating system as soon as they become available for the device and after necessary testing as described in Section 5.10.4.1.</li> </ol>	Functional	intersects with	Measures Centralized Management Of Mobile Devices	MDM-01	endpoint devices.  Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.4		Managing system integrity on limited function mobile operating systems may require methods and technologies significantly different from traditional full-	Functional	intersects with	Endpoint Protection Measures	END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices.	5	
3.13.4		featured operating systems. In many cases, the requirements of Section 5.10 of the CIIS Security Policy cannot be met with a mobile device without the	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.4.1	Patching/Updates	Based on the varying connection methods for mobile devices, an always on connection cannot be guaranteed for patching and updating. Devices without always-on cellular connections may not be reachable for extended periods of time by the MDM or solution either to report status or initiate patching. Agencies shall monitor mobile devices to ensure their patch and update state is current.	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.4.2 N	Malicious Code Protection	Appropriately configured MDM software is capable of checking the installed applications on the device and reporting the software inventory to a central management console in a manner analogous to traditional virus scan detection of unauthorized software and can provide a high degree of confidence that only known software or applications are installed on the device. Any deviate application are installed on the device. Any development of the propriet the series of approve the use of specific software or applications are indeed to devices. Any decreasitive particular size in the devices. Any decreasitive particular size of the devices. Any decreasitive particular size of the size of t	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.4.3	Personal Firewall	For the purpose of this policy, a personal firewall is an application that controls network staff to and from a user device, permitting or pening communications based on policy. A personal firewall shall be employed on all mobile devices that have a full-feature operating system (i.e., platpos or tables with Windows or Linux/ Linux operating system (i.e., platpos or tables with Windows or Linux/ Linux operating system (i.e., platpos or tables with Windows or Linux/ Linux operating system (i.e., platpos or tables with Windows I.e. All shall perform the following activates:  1. Manage program access to the Internet.  2. Block unsolicited requests to connect to the user device.  3. Rilter incoming traffic by Pf address or protocol.  5. Maintain an IP traffic log.  6. Hiller incoming traffic by destination ports.  5. Maintain an IP traffic log.  5. Maintain an IP traffic log.  5. Maintain an IP traffic log.  5. Maintain and the traffic log.  6. Same than a log traffic by the standard of the staffic log with the staffic log with the staffic log with the staffic log with the staffic log of the staffic lo	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.5	Incident Response	In addition to the requirements in Section S.3 Incident Response, agencies shall develop additional or enhanced incident reporting and handling procedures to address mobile device operating scenarios. Rapid response to mobile device related incidents can singificantly miligrate the risks associated with illicit data access either on the device theself or within online data resources associated with device through an application or specialized interface. Special reporting procedures for mobile devices shall apply in any of the following situations:  1. Loss of device control. For example:  a. Device hown to be locked, minimal duration of loss  D. Device lock state unknown, extended duration of loss  0. Device known to be unlocked, more than momentary duration of loss  0. Device known to be unlocked, more than momentary duration of loss  2. Total loss of device compromise  3. Device compromise	Functional	subset of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
5.13.6	Access Control	Multiple user accounts are not generally supported on limited-feature mobile operating systems. Access control (Section 5.5 Access Control) shall be accomplished by the application that accesses CJI.	Functional	intersects with	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
5.13.7	Identification and	Due to the technical methods used for identification and authentication on many limited-feature mobile operating systems, achieving compliance may require	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
J.43./	Authentication	many different components.	Functional	intersects with	Access Control For Mobile Devices Centralized Management	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
5.13.7.1 Lo	ocal Device Authentication	When mobile devices are authorized for use in accessing CII, local device authentication shall be used to unlock the device for use. The authenticator used shall meet the requirements in section 5.6.2.1 Standard Authenticators.	Functional	intersects with	Of Mobile Devices  Access Control For Mobile	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.  Mechanisms exist to enforce access control requirements for the connection of mobile	5	
+	,	shall meet the requirements in section 5.6.2.1 Standard Authenticators.  When accessing CII from an authorized mobile device, advanced authentication	Functional	intersects with	Devices Centralized Management	MDM-02 MDM-01	devices to organizational systems.  Mechanisms exist to implement and govern Mobile Device Management (MDM)	5	
5.13.7.2 A		shall be used by the authorized user unless the access to CJI is indirect as described in Section 5.6.2.2.1. If access is indirect, then AA is not required.	Functional	intersects with	Of Mobile Devices  Access Control For Mobile  Devices	MDM-02	controls.  Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	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 (optional)	Notes (optional)
5.13.7.2.1	Compensating Controls	CSO approved compensating controls to meet the AA requirement on agency- issued smartphones and tablets with limited-feature operating systems are permitted. Compensating controls are temporary control measures that are implemented in lieu of the required AA control measures when an agency cannot meet a requirement due to legitimate technical or business constraints. Before CSOs consider approval of compensating controls, Mobiles Device Management Mobil shall be implemented per Section 5.13.2. The compensating controls AD section of the CSO approved for or security as the original AA requirement 2. Provide a similar level of protection or security as the original AA requirement 3. Not rely upon the existing requirements for AA as compensating controls AS of the CSO approved date or when a compliant AA solution is implemented. Additionally, compensating controls may rely upon other, non-AA, existing requirements as compensating controls and/or be combined with new controls to create compensating controls for AA are a combination of controls providing acceptable assurance only the authorized user is authenticating and not an impersonator or (in the case of agency-issued device used by multiple users) controls that reduce the risk of exposure if information is accessed by an unauthorized party. The following minimum controls shall be implemented as part of the CSO approved compensating controls. Possession and registration of an agency issued smartphone or tablet as an indication it is the authorized user Lee of device certificates per Section 5.13.7.3 Device Certificates - Implemented CIS Security Policy compilant standard authenticator protection on the secure location where CIs is stored	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.7.3	Device Certificates	Device certificates are often used to uniquely identify mobile devices using part of a public key pair on the device in the form of a public key certificate. While there is value to ensuring the device trief care authenticate to a system supplying (L), and may provide a critical layer of device identification or authentication in a larger scheme, a device certificate alone placed on the device shall not be considered valid proof that the device is being operated by an authorized user. When certificates or cryptographic keys used to authenticate a mobile device are used in lieu of compensating controls for advanced authentication, they shall be: 1. Protected against being extracted from the device 2. Configured for remote wipe on demand or self-deletion based on a number of unsuccessful login or access attempts 3. Configured to use a secure authenticator (i.e., password, PIN) to unlock the key for use.	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	10	
5.14	SYSTEM AND SERVICES ACQUISITION (SA)	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.15	SYSTEM AND INFORMATION INTEGRITY (SI)	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.16		N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
AC-1	POLICY AND PROCEDURES	a Develop, document, and disceminate to: organizational personnel with access control responsibilities  1. Agency-level access control policy that:  (a) Addresses propose, exope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and (b) is consistent with applicable leave, secreture orders, directives, regulations, policies, standards, and guidelines, and  2. Procedures to facilitate the implementation of the access control policy and the associated access controls).  Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the access control policy and procedures; and  c. Review and update the current access control:  1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
		<ul> <li>a. Define and document the types of accounts allowed and specifically prohibited for use within the system;</li> </ul>	Functional	intersects with	Termination of Employment	IAC-07.2	Mechanisms exist to revoke user access rights in a timely manner, upon termination of employment or contract.	5	
AC-2	ACCOUNT MANAGEMENT	b. Assign account managers; c. Require conditions for group and role membership;	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
AC-2	ACCOUNT MANAGEMENT	d. Specify:  1. Authorized users of the system;	Functional	intersects with	Safeguarding Data Over Open Networks	NET-12	Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public	5	
		<ol> <li>Group and role membership; and</li> <li>Access authorizations (i.e., privileges) and attributes listed for each account;</li> </ol>	Functional	intersects with	Input Data Validation	TDA-18	networks.  Mechanisms exist to check the validity of information inputs.	5	
AC-2(1)	ACCOUNT MANAGEMENT   AUTOMATED SYSTEM ACCOUNT MANAGEMENT	Support the management of system accounts using automated mechanisms including email, phone, and text notifications.	Functional	equal	Automated System Account Management (Directory Services)	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	10	
AC-2(13)	ACCOUNT MANAGEMENT   DISABLE ACCOUNTS FOR	Disable accounts of individuals within 30 minutes of discovery of direct threats to the confidentiality, integrity, or availability of CJI.	Functional	intersects with	High-Risk Terminations	HRS-09.2	Mechanisms exist to expedite the process of removing "high risk" individual's access to systems and applications upon termination, as determined by management.	5	
	HIGH-RISK INDIVIDUALS		Functional	intersects with	Account Disabling for High Risk Individuals	IAC-15.6	Mechanisms exist to disable accounts immediately upon notification for users posing a significant risk to the organization.	5	
AC-2(2)	ACCOUNT MANAGEMENT   AUTOMATED TEMPORARY AND EMERGENCY ACCOUNT MANAGEMENT	Automatically remove temporary and emergency accounts within 72 hours.	Functional	equal	Removal of Temporary / Emergency Accounts	IAC-15.2	Automated mechanisms exist to disable or remove temporary and emergency accounts after an organization-defined time period for each type of account.	10	
AC-2(3)	ACCOUNT MANAGEMENT   DISABLE ACCOUNTS	Disable accounts within one (1) week when the accounts: (a) Have expired; (b) Are no longer associated with a user or individual; (c) Are in violation of organizational policy; or	Functional	equal	Disable Inactive Accounts	IAC-15.3	Automated mechanisms exist to disable inactive accounts after an organization-defined time period.	10	
AC-2(4)	ACCOUNT MANAGEMENT   AUTOMATED AUDIT ACTIONS	(d) Have been inactive for 90 calendar days.  Automatically audit account creation, modification, enabling, disabling, and removal actions.	Functional	equal	Automated Audit Actions	IAC-15.4	Automated mechanisms exist to audit account creation, modification, enabling, disabling and removal actions and notify organization-defined personnel or roles.	10	
AC-2(5)	ACCOUNT MANAGEMENT   INACTIVITY LOGOUT	Require that users log out when a work period has been completed.	Functional	equal	Session Lock	IAC-24	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.	10	
			Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
AC-3	ACCESS ENFORCEMENT	Enforce approved authorizations for logical access to information and system resources in accordance with applicable access control policies.	Functional	intersects with	Safeguarding Data Over Open Networks	NET-12	Cryptographic meetanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.	5	
	ACCESS ENFORCEMENT	Provide automated or manual processes to enable individuals to have access to	Functional	intersects with	Input Data Validation		Mechanisms exist to check the validity of information inputs.  Mechanisms exist to provide data subjects the ability to access their Personal Data (PD)	5	
AC-3(14) AC-4	INDIVIDUAL ACCESS  INFORMATION FLOW ENFORCEMENT	elements of their personally identifiable information.  Enforce approved authorizations for controlling the flow of information within the system and between connected systems by preventing CII from being transmitted unencrypted across the public network, blocking outside traffic that claims to be from within the agency, and not passing any web requests to the public network at an ent from the agency-controlled or internal boundary protection devices (e.g., proxies, gateways, firewalls, or routers).	Functional Functional	equal equal	Data Subject Access  Data Flow Enforcement – Access Control Lists (ACLs)	PRI-06	maintained in organizational systems of records.  Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal systems.	10	
			Functional	intersects with	Dual Authorization for Change	CHG-04.3	Mechanisms exist to enforce a two-person rule for implementing changes to critical assets.  Mechanisms exist to implement and maintain Separation of Duties (SoD) to expent	5	
AC-5	SEPARATION OF DUTIES	a. Identify and document separation of duties based on specific duties, operations, or information systems, as necessary, to mitigate risk to CII, and	Functional	intersects with	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.  Cryptographic mechanisms exist to implement strong cryptography and security	5	
		<ul> <li>b. Define system access authorizations to support separation of duties.</li> </ul>	Functional	intersects with	Safeguarding Data Over Open Networks Input Data Validation	NET-12 TDA-18	Cryptographic mechanisms exist to implement studie cryptographic and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.  Mechanisms exist to check the validity of information inputs.	5	
		Employ the principle of least privilege, allowing only authorized accesses for	Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
AC-6	LEAST PRIVILEGE	users (or processes acting on behalf of users) that are necessary to accomplish assigned organizational tasks.	Functional	intersects with	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with	5	
	l .					l	organizational business functions.		



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AC-6(1)	LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS	Authorize access for personnel including security administrators, system and network administrators, and other privileged users with access to system control, monitoring, or administration functions (s.g., system administrators, information security personnel, maintainers, system programmers, etc.) to:  (a) Established system accounts, configured access authorizations (i.e., permissions, privileges), set events to be audited, set intrusion detection parameters, and other security functions; and (b) Security-relevant information in hardware, software, and firmware.	Functional	equal	Authorize Access to Security Functions	IAC-21.1	Mechanisms exist to limit access to security functions to explicitly-authorized privileged users.	10	
AC-6(10)	LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED USERS FROM EXECUTING PRIVILEGED FUNCTIONS	Prevent non-privileged users from executing privileged functions.	Functional	equal	Prohibit Non-Privileged Users from Executing Privileged Functions	IAC-21.5	Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabling, circumventing or altering implemented security safeguards / countermeasures.	10	
AC-6(2)	LEAST PRIVILEGE   NON- PRIVILEGED ACCESS FOR NONSECURITY FUNCTIONS	Require that users of system accounts (or roles) with access to privileged security functions or security-relevant information (e.g., audit logs), use non-privileged accounts or roles, when accessing non-security functions.	Functional	equal	Non-Privileged Access for Non-Security Functions	IAC-21.2	Mechanisms exist to prohibit privileged users from using privileged accounts, while performing non-security functions.	10	
AC-6(5)	LEAST PRIVILEGE   PRIVILEGED ACCOUNTS	Restrict privileged accounts on the system to privileged users.  a. Review annually the privileges assigned to non-privileged and privileged users	Functional	equal	Privileged Accounts	IAC-21.3	Mechanisms exist to restrict the assignment of privileged accounts to organization- defined personnel or roles without management approval.	10	
AC-6(7)	OF USER PRIVILEGES	b. Reassign or remove privileges, if necessary, to correctly reflect organizational mission and business needs.	Functional	equal	Periodic Review of Account Privileges	IAC-17	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.	10	
AC-6(9)	LEAST PRIVILEGE   LOG USE OF PRIVILEGED FUNCTIONS	Log the execution of privileged functions.	Functional	equal	Auditing Use of Privileged Functions	IAC-21.4	Mechanisms exist to audit the execution of privileged functions.	10	
AC-7	UNSUCCESSFUL LOGON ATTEMPTS	a. Enforce a limit of five (5) consecutive invalid logon attempts by a user during a 15-minute time period, and3  5. Automatically lock the account or node until released by an administrator when the maximum number of unsuccessful attempts is exceeded.	Functional	equal	Account Lockout	IAC-22	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.	10	
AC-8	SYSTEM USE NOTIFICATION	a. Display a system use notification message to users before granting access to the system that provides privacy and security notices consistent with applicable laws, executive orders, directives, regulations, policles, standards, and guidelines and state that:  1. Users are accessing a restricted information system;  2. System usage may be monitored, recorded, and subject to audit;  3. Unauthorized use of the system is prohibited and subject to crininal and civil penalities; and  4. Use of the system indicates consent to monitoring and recording;  b. Retain the notification message or banner on the screen until users acknowledge the usage conditions and take explicit actions to log on to or further access the system;  1. Display system and  c. For publicly accessible systems:  1. Display references to the publicly accessible system.  2. Display references to the publicly accessible systems that generally prohibit those activities; and  3. Include a description of the authorized uses of the system.	Functional	equal	System Use Notification (Logon Banner)	SEA-18	Mechanisms exist to utilitie system use notification / logon banners that display an approved system use notification message or banner before granting access to the system that provides cybersecurity & data privacy notices.	10	
AC-11	DEVICE LOCK	a. Present further access to the system by initiating a device lock after a maximum of 30 minutes of inactivity and requiring the user to initiate a device lock before leaving the system unattended.  NDTE: In the interest of safety, devices that are: (1) part of a criminal justice conveyance; or (2) used to perform dispatch functions and located within a physically secure location; or (3) terminals designated solely for the purpose of receiving alert notifications (i.e., receive only terminals or ROT) used within physically secure location facilities that remain staffed when in operation, are exempt from this requirement.  b. Retain the device lock until the user reestablishes access using established identification and authentication procedures.	Functional	equal	Session Lock	IAC-24	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.	10	
AC-11(1)	DEVICE LOCK   PATTERN- HIDING DISPLAYS	Conceal, via the device lock, information previously visible on the display with a publicly viewable image.	Functional	equal	Pattern-Hiding Displays	IAC-24.1	Mechanisms exist to implement pattern-hiding displays to conceal information previously visible on the display during the session lock.	10	
AC-12	SESSION TERMINATION	Automatically terminate a user session after a user has been logged out.	Functional	equal	Session Termination	IAC-25	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.	10	
AC-14	PERMITTED ACTIONS WITHOUT IDENTIFICATION OR AUTHENTICATION	a. Identify any specific user actions that can be performed on the system without identification or authentication consistent with organizational mission and business functions; and business functions; and business functions; and business functions are described by the security plan for the system, user actions not requiring identification or authentication.	Functional	equal	Permitted Actions Without Identification or Authorization	IAC-26	Mechanisms exist to identify and document the supporting rationale for specific user actions that can be performed on a system without identification or authentication.	10	
AC-17	REMOTE ACCESS	Establish and document usage restrictions, configuration/connection requirements, and implementation guidance for each type of remote access allowed; and     D. Authorize each type of remote access to the system prior to allowing such connections.	Functional	equal	Remote Access	NET-14	Mechanisms exist to define, control and review organization-approved, secure remote access methods.	10	
AC-17(1)	REMOTE ACCESS   MONITORING AND CONTROL	Employ automated mechanisms to monitor and control remote access methods.	Functional	equal	Automated Monitoring & Control	NET-14.1	Automated mechanisms exist to monitor and control remote access sessions.	10	
AC-17(2)	REMOTE ACCESS   PROTECTION OF CONFIDENTIALITY AND INTEGRITY USING ENCRYPTION	Implement cryptographic mechanisms to protect the confidentiality and integrity of remote access sessions.	Functional	equal	Protection of Confidentiality / Integrity Using Encryption	NET-14.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).	10	
AC-17(3)	REMOTE ACCESS   MANAGED ACCESS CONTROL POINTS	Route remote accesses through authorized and managed network access control points.	Functional	equal	Managed Access Control Points	NET-14.3	Mechanisms exist to route all remote accesses through managed network access control points (e.g., VPN concentrator).	10	
AC-17(4)	REMOTE ACCESS   PRIVILEGED COMMANDS AND ACCESS	a. Authorize the execution of privileged commands and access to security- relevant information via remote access only in a format that provides assessable evidence and for the following needs: compelling operational needs; and b. Document the rationale for remote access in the security plan for the system.	Functional	equal	Remote Privileged Commands & Sensitive Data Access	NET-14.4	Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	10	
AC-18	WIRELESS ACCESS	Establish configuration requirements, connection requirements, and implementation guidance for each type of wireless access; and b. Authorize each type of wireless access to the system prior to allowing such	Functional	intersects with	Wireless Access Authentication & Encryption	CRY-07	Mechanisms exist to protect wireless access via secure authentication and encryption.  Mechanisms exist to control authorized wireless usage and monitor for unauthorized	5	
AC-18(1)	WIRELESS ACCESS   AUTHENTICATION AND	connections.  Protect wireless access to the system using authentication of authorized users and agency-controlled devices, and encryption.	Functional	intersects with	Wireless Networking  Authentication &  Encryption	NET-15.1	wireless access.  Mechanisms exist to protect wireless access through authentication and strong encryption.	10	
AC-18(3)	ENCRYPTION WIRELESS ACCESS   DISABLE WIRELESS	Disable, when not intended for use, wireless networking capabilities embedded within system components prior to issuance and deployment.	Functional	equal	Disable Wireless Networking	NET-15.2	Mechanisms exist to disable unnecessary wireless networking capabilities that are internally embedded within system components prior to issuance to end users.	10	
AC-19	ACCESS CONTROL FOR MOBILE DEVICES	Establish configuration requirements, connection requirements, and implementation guidance for organization-controlled mobile devices, to include when such devices are outside of controlled areas; and	Functional	equal	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	10	
AC-19(5)	ACCESS CONTROL FOR MOBILE DEVICES   FULL DEVICE OR CONTAINER- BASED ENCRYPTION	Authorize the connection of mobile devices to organizational systems.  Employ full-device encryption to protect the confidentiality and integrity of information on full- and limited-feature operating system mobile devices authorized to process, store, or transmit CII.	Functional	equal	Full Device & Container- Based Encryption	MDM-03	Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption.	10	
AC-20	USE OF EXTERNAL SYSTEMS	a. Establish agency-level policies governing the use of external systems consistent with the trust relationships established with other organizations owning, operating, and/or maintaining external systems, allowing authorized individuals to:  1. Access the system from external systems; and  2. Process, store, or transmit organization-controlled information using external systems; or  b. Prohibit the use of personally-owned information systems including mobile devices (i.e., bring your own device (BYOD)) and publicly accessible systems for accessing, processing, storing, or transmitting CII.	Functional	equal	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	10	
AC-20(1)		Permit authorized individuals to use an external system to access the system or to process, store or transmit organization-controlled information only after: a. Verification of the implementation of controls on the external system as specified in the organization's security and privacy polices and security and privacy plans; or b. Retention of approved system connection or processing agreements with the organizational entity hosting the external system.	Functional	equal	Limits of Authorized Use	DCH-13.1	Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals first: *Verifying the implementation of required security controls; or * Retaining a processing agreement with the entity hosting the external systems or service.	10	



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AC-20(2)	USE OF EXTERNAL SYSTEMS   PORTABLE STORAGE DEVICES — RESTRICTED	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	equal	Portable Storage Devices	DCH-13.2	Mechanisms exist to restrict or prohibit the use of portable storage devices by users on external systems.	10	
AC-21	USE INFORMATION SHARING	a. Enable authorized users to determine whether access authorizations assigned to a sharing partner match the information's access and use restrictions as defined in an executed information exchange agreement, and b. Employ attribute-based access control (see AC-2(d)(3)) or manual processes as defined in information exchange agreement.	Functional	intersects with	Information Sharing Information Sharing With Third Parties	DCH-14 PRI-07	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.  Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
AC-22	PUBLICLY ACCESSIBLE CONTENT	a. Designate individuals authorized to make information publicly accessible; b. Train authorized individuals to ensure that publicly accessible information does not contain nonpublic information; c. Review the proposed content of information prior to posting onto the publicly accessible system to ensure that nonpublic information is not included; and d. Review the content on the publicly accessible system for nonpublic information quarterly and remove such information, if discovered.	Functional	equal	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	10	
AT-1	POLICY AND PROCEDURES	a. Develop, document, and disseminate to all personnel when their unescorted logical or physical access to any information system results in the ability, right, or provinge to view, modify, or make use of unexcrepted Cit.  1. Organisation promote, scops roles, respine plotters, management commitment, coordination among organisational entities, and compliance; and logical that applicable laws, executive orders, directives, regulations, policies, standards, and guidelines; and 2. Procedures to facilitate the implementation of the awareness and training controls.  2. Procedures to facilitate the implementation of the awareness and training responsibilities to manage the development, documentation, and dissemination of the awareness and training responsibilities to manage the development, documentation, and classismination of the awareness and training policy and procedures; and c. Review and update the current awareness and training:  2. Procedures to favore a made, and commentation of the security brokers are made; and c. Procedures annually and following changes in the information system operating environment, when security incidents occur, or when changes to the CIS Security Policy are made.	Functional	subset of	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
AT-2	LITERACY TRAINING AND AWARENESS	a Provide security and privacy literacy training to system users (including managers, senior receivales, and contractors):  1. As part of initial training for new users prior to accessing CII and annually thereafter, and  2. When required by system changes or within 30 days of any security event for individuals involved in the event;  15. Employ one or more of the following techniques to increase the security and privacy awareness of system users:  1. Displaying posters:  1. Displaying posters  2. Offering supplies inscribed with security and privacy reminders.  3. Displaying logon screen messages  4. Generating emal advisories or notices from organizational officials.  5. Conducting awareness events  C. Update literacy training and awareness content annually and following changes in the information system operating environment, when security incidents occur, or when changes are made in the CII Security Policy; and of incorporate lessons learned from internal or external security incidents or brenches into literacy training and awareness techniques.	Functional	equal	Cybersecurity & Data Privacy Awareness Training	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	10	
AT-2(2)	LITERACY TRAINING AND AWARENESS   INSIDER THREAT	Provide literacy training on recognizing and reporting potential indicators of insider threat.	Functional	equal	Insider Threat Awareness	THR-05	Mechanisms exist to utilize security awareness training on recognizing and reporting potential indicators of insider threat.	10	
AT-2(3)	LITERACY TRAINING AND AWARENESS   SOCIAL ENGINEERING AND MINING	Provide literacy training on recognizing and reporting potential and actual instances of social engineering and social mining.	Functional	equal	Social Engineering & Mining	SAT-02.2	Mechanisms exist to include awareness training on recognizing and reporting potential and actual instances of social engineering and social mining.	10	
AT-3	ROLE-BASED TRAINING	In rotation transcasses accounty and privaty training to personner with the trouble and responsibilities:  * All Individuals with unescorted access to a physically secure location;  * General User A user, but not a process, who is authorized to use an information system;  * Privileged User A user that is authorized (and, therefore, trusted) to perform security-relevant functions that general users are not authorized to perform;  * Granizational Personnel with Security Responsibilities: Personnel with the responsibility to ensure the confidentiality, integrity, and availability of CII and the implementation of technology in a manner compliant with the CISSECPOL.  1. Before authorizing access to the system, information, or performing assigned duties, and annually thereafter, and 2. When required by system changes.  1. Update role-based training; content annually and following audits of the CSA and local agencies; changes in the information system operating environment; security incidents; or when changes are made to the CIS Security Policy.  1. Incorporate lessons learned from internal or external security incidents or breaches into role based training;  1. All individuals with unescorted access to a physically secure location access, use and Dissemination of Criminal History Record Information (CHRI), MCC Restricted Files Information, and NCC Non-Restricted Files Information  2. Applications of Criminal History Record Information (CHRI), MCC Restricted Files Information, and NCC Non-Restricted Files Information  2. Physical Access Authorization 5  2. Physical Access Control 9, Monitoring Physical Access Control 9, Monitoring Physical Access No. No. No. Restricted Files Information (CHRI), New York Physical Access No. No. No. Restricted Files Information (CHRI), New York Physical Access No. No. No. Restricted Files Information (CHRI), No. No. No. No. No. No. Restricted Files Information (CHRI), No.	Functional	equal	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training:  *Before authorizing access to the system or performing assigned duties;  *When required by system changes; and  *Annually thereafter.	10	
AT-3(5)	ROLE-BASED TRAINING   PROCESSING PERSONALLY IDENTIFIABLE INFORMATION	Provide all personnel when their unescorted logical or physical access to any information system results in the ability, right, or privilege to view, modify, or make use of unencrypted CII with initial and annual training in the employment and operation of personally identifiable information processing and transparency	Functional	equal	Sensitive Information Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive information is formally trained in data handling requirements.	10	
AT-4	TRAINING RECORDS	controls.  a Document and monitor information security and privacy training activities, including security and privacy awareness training and specific role-based security and privacy training; and  b. Retain individual training records for a minimum of three years.	Functional	equal	Cybersecurity & Data Privacy Training Records	SAT-04	Mechanisms exist to document, retain and monitor individual training activities, including basic cybersecurity & data privacy awareness training, ongoing awareness training and specific-system training.	10	
IA-O	AGENCY IDENTIFIERS IN TRANSACTIONS AND	An FBI authorized originating agency identifier (DRI) shall be used in each transaction on OII's systems in order to identify the sending agency and to ensure the proper level of access for each transaction. The original identifier between the requesting agency and the CAS/SIG/Channeler shall be the ORI, and other agency identifiers, such as user identification or personal identifier, an access device memorinc, or the internet Protocol (IP) address. Agencies may act as a servicing agency and perform transactions on behalf of authorized agencies requesting the service. Servicing agencies performing inquiry transactions on behalf of another agency and perform to the control of the origination origination of the origination origination or the origination origination or the origination origination origination or the origination origination origination or the origination origination or the origination origination origination or the origination origination or the origination origina	Functional	no relationship	N/A	N/A	N/A	N/A	



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 (optional)
IA-1	POLICY AND PROCEDURES	a. Develop, document, and disseminate to authorized personnel:  1. Agency/Entity identification and authentication policy that:  (a) Addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entitles, and compliance: and (b) is consistent with applicable laws, executive orders, directives, regulations, policiles, standards, and guidelines; and authentication and authentication on advantentication policy and the associated identification and authentication controls;  b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the identification and authentication controls;  c. Review and update the current identification of the identification and authentication:  1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
IA-2	IDENTIFICATION AND AUTHENTICATION (ORGANIZATIONAL USERS)	Uniquely identify and authenticate organizational users and associate that unique identification with processes acting on behalf of those users.	Functional	equal	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.  Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:	10	
			Functional	intersects with	Multi-Factor Authentication (MFA)  Network Access to	IAC-06	Neumaneae mechanisme assi, to emote woute-ractor Authentication (whra) for.  *Remote network access;  *Third-party systems, applications and/or services; and/or  *Non-console access to critical systems or systems that store, transmit and/or process  sensitive/regulated data.  Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network	5	
	IDENTIFICATION AND	+	Functional	intersects with	Privileged Accounts Network Access to Non-	IAC-06.2	access for privileged accounts.  Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network	5	
	AUTHENTICATION (ORGANIZATIONAL USERS)		Functional	intersects with	Privileged Accounts  Local Access to Privileged	IAC-06.2	access for non-privileged accounts.  Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate local	5	
IA-2(1)	MULTI-FACTOR AUTHENTICATION TO PRIVILEGED ACCOUNTS	Implement multi-factor authentication for access to privileged accounts.	Functional	intersects with	Accounts Out-of-Band Multi-Factor Authentication	IAC-06.4	access for privileged accounts.  Mechanisms exist to implement Multi-Factor Authentication (MFA) for access to privileged and non-privileged accounts such that one of the factors is independently	5	
			Functional	intersects with	Hardware Token-Based	IAC-10.7	provided by a device separate from the system being accessed.  Automated mechanisms exist to ensure organization-defined token quality	5	
			Functional	intersects with	Authentication  Information Assurance Enabled Products	TDA-02.2	requirements are satisfied for hardware token-based authentication. Mechanisms exist to limit the use of commercially-provided information Assurance (IA) and IA-enabled IT products to those products that have been successfully evaluated against a National information Assurance partnership (IAMP3-paproved Protection Profile or the cryptographic module is FIPS-validated or NSA-approved.	5	
IA-2(12)	IDENTIFICATION AND AUTHENTICATION (ORGANIZATIONAL USERS)   ACCEPTANCE OF PIV CREDENTIALS	Accept and electronically verify Personal Identity Verification-compliant credentials.	Functional	equal	Acceptance of PIV Credentials	IAC-02.3	Mechanisms exist to accept and electronically verify organizational Personal Identity Verification (PIV) credentials.	10	
			Functional	intersects with	Multi-Factor Authentication (MFA)	IAC-06	Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for: -Remote network access; -Third-party systems, applications and/or services; and/or -Non-console access to critical systems or systems that store, transmit and/or process -sensitive/regulated data. Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network	5	
	IDENTIFICATION AND		Functional	intersects with	Privileged Accounts Network Access to Non-	IAC-06.1	access for privileged accounts.  Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network	5	
	IDENTIFICATION AND AUTHENTICATION (ORGANIZATIONAL USERS)		Functional	intersects with	Privileged Accounts Local Access to Privileged	IAC-06.2	access for non-privileged accounts.  Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate local	5	
IA-2(2)	MULTI-FACTOR AUTHENTICATION TO NON-	Implement multi-factor authentication for access to non-privileged accounts.			Accounts Out-of-Band Multi-Factor		access for privileged accounts.  Mechanisms exist to implement Multi-Factor Authentication (MFA) for access to	,	
	PRIVILEGED ACCOUNTS		Functional	intersects with	Authentication Hardware Token-Based	IAC-06.4	privileged and non-privileged accounts such that one of the factors is independently provided by a device separate from the system being accessed. Automated mechanisms exist to ensure organization-defined token quality	5	
			Functional	intersects with	Authentication  Information Assurance Enabled Products	TDA-02.2	requirements are satisfied for hardware token-based authentication.  Mechanisms exist to limit the use of commercially-provided information Assurance [IA] and IA-enabled IT products to those products that have been successfully evaluated against a National Information Assurance partnership (NIAP)-approved Protection Profile or the cryptographic module is FIPs-validated or NSA-approved.	5	
IA-2(8)	IDENTIFICATION AND AUTHENTICATION (ORGANIZATIONAL USERS)   ACCESS TO ACCOUNTS — REPLAY RESISTANT	Implement replay-resistant authentication mechanisms for access to privileged and non-privileged accounts.	Functional	equal	Replay-Resistant Authentication	IAC-02.2	Automated mechanisms exist to employ replay-resistant authentication.	10	
IA-3	DEVICE IDENTIFICATION AND AUTHENTICATION	Uniquely identify and authenticate agency-managed devices before establishing network connections. In the instance of local connection, the device must be approved by the agency and the device must be identified and authenticated prior to connection to an agency asset.  Manage system identifiers by:	Functional	equal	Identification & Authentication for Devices	IAC-04	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.	10	
IA-4	IDENTIFIER MANAGEMENT	a. Receiving authorization from organizational personnel with identifier management responsibilities to assign an individual, group, role, service, or device identifier:	Functional	intersects with	Authenticate, Authorize and Audit (AAA) Identifier Management	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
		b. Selecting an identifier that identifies an individual, group, role, service, or	Functional	intersects with	(User Names)  Authenticate, Authorize	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.  Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA)	5	
IA-4(4)	IDENTIFIER MANAGEMENT	Manage individual identifiers by uniquely identifying each individual as agency or			and Audit (AAA) User Identity (ID)		solutions, both on-premises and those hosted by an External Service Provider (ESP).  Mechanisms exist to ensure proper user identification management for non-consumer		
	IDENTIFY USER STATUS	nonagency.	Functional	intersects with	Management Identity User Status	IAC-09.1	users and administrators.  Mechanisms exist to identify contractors and other third-party users through unique	5	
		Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	username characteristics.  Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening	5	
IA-5	AUTHENTICATOR	individual, group, role, service, or device receiving the authenticator;3 b. Establishing initial authenticator content for any authenticators issued by the organization; c. Ensuring that authenticators have sufficient strength of mechanism for their	Functional	intersects with	Authenticator Management	IAC-10	standards.  Mechanisms exist to securely manage authenticators for users and devices.	5	
IA-5	MANAGEMENT	c. Ensuring that authenticators have sufficient strength of mechanism for their intended use;3 d. Establishing and implementing administrative procedures for initial	Functional	intersects with	Password-Based Authentication Protection of	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.  Mechanisms exist to protect authenticators commensurate with the sensitivity of the	5	
		authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators;	Functional	intersects with	Authenticators	IAC-10.5	wectanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.  Mechanisms exist to ensure vendor-supplied defaults are changed as part of the	5	
		e. Changing default authenticators prior to first use; (a) Memorized Secret Authenticators and Verifiers:	Functional	intersects with	Vendor-Supplied Defaults Authenticator	IAC-10.8	installation process.  Mechanisms exist to securely manage authenticators for users and devices.	5	
		Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to	Functional	intersects with	Management Out-of-Band	IAC-10	Mechanisms exist to implement Out-of-Band Authentication (OOBA) under specific	5	
	AUTHENTICATOR	have been compromised directly or indirectly;  2. Require immediate selection of a new password upon account recovery;3  3. Allow user selection of long passwords and passphrases, including spaces and	Functional	intersects with	Authentication (OOBA) Authenticator Management	IAC-10	conditions.  Mechanisms exist to securely manage authenticators for users and devices.	5	
IA-5(1)	MANAGEMENT   AUTHENTICATOR TYPES	Annow user selection or long passwords and passifirates, including spaces and all printable characters;3     Employ automated tools to assist the user in selecting strong password	Functional	intersects with	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	5	
		authenticators;3  5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards:	Functional	intersects with	Automated Support For Password Strength	IAC-10.4	Automated mechanisms exist to determine if password authenticators are sufficiently strong enough to satisfy organization-defined password length and complexity requirements.	5	
	AUTHENTICATOR	(a) Not be a proper name. (b) Not be the same as the Userid. (a) For public key-based authentication:	Functional Functional	intersects with	Protection of Authenticators Dynamic Management	IAC-10.5	Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.  Mechanisms exist to dynamically manage usernames and system identifiers.	5	
IA-5(2)	MANAGEMENT   PUBLIC KEY BASED AUTHENTICATION	1. Enforce authorized access to the corresponding private key; and 2. Map the authenticated identity to the account of the individual or group; and (b) When public key infrastructure (PKI) is used:	Functional	intersects with	PKI-Based Authentication	IAC-10.2	Automated mechanisms exist to validate certificates by constructing and verifying a certification path to an accepted trust anchor including checking certificate status information for PKI-based authentication.	5	
IA-5(6)	AUTHENTICATOR MANAGEMENT   PROTECTION OF AUTHENTICATORS	Protect authenticators commensurate with the security category of the information to which use of the authenticator permits access.	Functional	equal	Protection of Authenticators	IAC-10.5	Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.	10	
IA-6	AUTHENTICATION FEEDBACK	Obscure feedback of authentication information during the authentication process to protect the information from possible exploitation and use by unauthorized individuals.	Functional	equal	Authenticator Feedback	IAC-11	Mechanisms exist to obscure the feedback of authentication information during the authentication process to protect the information from possible exploitation/use by unauthorized individuals.	10	
IA-7	CRYPTOGRAPHIC MODULE AUTHENTICATION	Implement mechanisms for authentication to a cryptographic module that meet the requirements of applicable laws, executive orders, directives, policies,	Functional	intersects with	Cryptographic Module Authentication Cryptographic Module	CRY-02	Automated mechanisms exist to enable systems to authenticate to a cryptographic module.  Mechanisms exist to ensure cryptographic modules adhere to applicable statutory,	5	
	IDENTIFICATION AND	regulations, standards, and guidelines for such authentication.  Uniquely identify and authenticate non-organizational users or processes acting	Functional	intersects with	Authentication Identification &	IAC-12	regulatory and contractual requirements for security strength.  Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	5	
IA-8	AUTHENTICATION (NON- ORGANIZATIONAL USERS)	on behalf of non-organizational users.	Functional	equal	Authentication for Non- Organizational Users	IAC-03	(AAA) third-party users and processes that provide services to the organization.	10	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
IA-8(1)	IDENTIFICATION AND AUTHENTICATION (NON- ORGANIZATIONAL USERS)   ACCEPTANCE OF PIV CREDENTIALS FROM OTHER AGENCIES	Accept and electronically verify Personal Identity Verification-compliant credentials from other federal, state, local, tribal, or territorial (SLTT) agencies.	Functional	equal	Acceptance of PIV Credentials from Other Organizations	IAC-03.1	Mechanisms exist to accept and electronically verify Personal Identity Verification (PIV) credentials from third-parties.	10	
IA-8(2)	IDENTIFICATION AND AUTHENTICATION (NON- ORGANIZATIONAL USERS)   ACCEPTANCE OF EXTERNAL AUTHENTICATORS	(a) Accept only external authenticators that are NIST-compilant; and (b) Document and maintain a list of accepted external authenticators.	Functional	equal	Acceptance of Third-Party Credentials	IAC-03.2	Automated mechanisms exist to accept Federal Identity, Credential and Access Management (FICAM)-approved third-party credentials.	10	
IA-8(4)	IDENTIFICATION AND AUTHENTICATION (NON- ORGANIZATIONAL USERS)   USE OF DEFINED PROFILES	Conform to the following profiles for identity management: Security Assertion Markup Language (SAML) or OpenID Connect.	Functional	equal	Use of FICAM-Issued Profiles	IAC-03.3	Mechanisms exist to conform systems to Federal Identity, Credential and Access Management (FICAM)-issued profiles.	10	
IA-11	RE-AUTHENTICATION	Require users to re-authenticate when: roles, authenticators, or credentials change, security categories of systems change, the execution of privileged functions occur, or every 12 hours.	Functional	equal	Re-Authentication	IAC-14	Mechanisms exist to force users and devices to re-authenticate according to organization-defined circumstances that necessitate re-authentication.	10	
IA-12	IDENTITY PROOFING	<ul> <li>a. Identity proof users that require accounts for logical access to systems based on appropriate identity assurance level requirements as specified in applicable standards and guidelines;</li> </ul>	Functional	intersects with	Identity Proofing (Identity Verification) In-Person or Trusted Third-	IAC-28	Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.  Mechanisms exist to conduct in-person or trusted third-party identify verification	5	
IA-12(2)	IDENTITY PROOFING	Resolve user identities to a unique individual; and  Require evidence of individual identification be presented to the registration	Functional	equal	Party Registration	IAC-28.2	before user accounts for third-parties are created.  Mechanisms exist to require evidence of individual identification to be presented to the	10	
IA-12(3)	IDENTITY EVIDENCE  IDENTITY PROOFING   IDENTITY EVIDENCE VALIDATION AND VERIFICATION	authority.  A Require that the presented identity evidence be validated and verified through agency-defined resolution, validation, and verification methods. b. Identity proofing SHALL NOT be performed to determine suitability or entitlement to gain access to services or benefits.  C. I. Collection of PII SHALL be limited to the minimum necessary to resolve to a unique identity in given context.  2. Collection of PII SHALL be limited to the minimum necessary to validate the settence of the claimed identity with the applicant providing identity evidence for appropriate identity resolution, validation, and verification.	Functional	equal	Identity Evidence  Identity Evidence  Validation & Verification	IAC-28.3	registration authority.  Mechanisms exist to require that the presented identity evidence be validated and verified through organizational-defined methods of validation and verification.	10	
IA-12(5)	IDENTITY PROOFING   ADDRESS CONFIRMATION	Require that a registration code or notice of proofing be delivered through an out-of-band channel to verify the users address (physical or digital) of record.     b. The CSP SHALL confirm address of record	Functional	equal	Address Confirmation	IAC-28.5	Mechanisms exist to require that a notice of proofing be delivered through an out-of- band channel to verify the user's address (physical or digital).	10	
		a. Develop, document, and disseminate to all personnel when their unescorted logical or physical access to any information system results in the ability, right, or privilege to view, modify, or make use of unencrypted CII:	Functional	subset of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
IR-1	POLICY AND PROCEDURES	Agency-level incident response policy that:     (a) Addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and	Functional	intersects with	IRP Update	IRO-04.2	Mechanisms exist to regularly review and modify incident response practices to incorporate lessons learned, business process changes and industry developments, as necessary.	5	
		(b) is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines; and 2. Procedures to facilitate the implementation of the incident response policy	Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	5	
IR-2	INCIDENT RESPONSE TRAINING	a. Provide incident response training to system users consistent with assigned roles and responsibilities:  1. Prior to assuming an incident response role or responsibility or acquiring system access;  2. When required by system changes; and  3. Annually thereafter; and  5. Review and update incident response training content annually and following any security incidents involving unauthorized access to Cil or systems used to process, store, or transmit Cil.	Functional	equal	Incident Response Training	IRO-05	Mechanisms exist to train personnel in their incident response roles and responsibilities.	10	
IR-2(3)	INCIDENT RESPONSE TRAINING   BREACH	Provide incident response training on how to identify and respond to a breach, including the organization's process for reporting a breach.	Functional	equal	Incident Response Training	IRO-05	Mechanisms exist to train personnel in their incident response roles and responsibilities.	10	
IR-3	INCIDENT RESPONSE TESTING	Test the effectiveness of the incident response capability for the system annually using the following tests: tabletop or walk-through exercises; simulations; or other agency-appropriate tests.	Functional	equal	Incident Response Testing	IRO-06	Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.	10	
IR-3(2)	INCIDENT RESPONSE TESTING   COORDINATION WITH RELATED PLANS	Coordinate incident response testing with organizational elements responsible for related plans.	Functional	equal	Coordination with Related Plans	IRO-06.1	Mechanisms exist to coordinate incident response testing with organizational elements responsible for related plans.	10	
IR-4	INCIDENT HANDLING	a. Implement an incident handling capability for incidents that is consistent with the incident response plan and includes preparation, detection and analysis, containment, eradication, and recovery. b. Coordinate incident handling activities with contingency planning activities; c. Incorporate lessons learned from ongoing incident handling activities into incident response procedures, training, and testing, and implement the resulting changes accordingly and d. Ensure the rigor, intensity, scope, and results of incident handling activities are comparable and predictable across the organization.	Functional	equal	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	10	
IR-4(1)	INCIDENT HANDLING   AUTOMATED INCIDENT HANDLING PROCESSES	Support the incident handling process using automated mechanisms (e.g., online incident management systems and tools that support the collection of live response data, full network packet capture, and forensic analysis.	Functional	equal	Automated Incident Handling Processes	IRO-02.1	Automated mechanisms exist to support the incident handling process.	10	
IR-5	INCIDENT MONITORING	Track and document incidents.	Functional	equal	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	10	
	INCIDENT REPORTING	Require personnel to report suspected incidents to the organizational incident response capability immediately but not to exceed one (1) hour after discovery:	Functional	intersects with	Contacts With Authorities	GOV-06	Mechanisms exist to identify and document appropriate contacts with relevant law enforcement and regulatory bodies.	5	
IR-6		response capability immediately out not to exceed one (1) nour arter discovery; and b. Report incident information to organizational personnel with incident handling responsibilities, and if confirmed, notify the CSO, SIB Chief, or Interface Agency Official.	Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable:  Internal stakeholders;  Affected clients & third-parties; and  Regulatory authorities.	5	
	INCIDENT REPORTING	Onicia.	Functional	intersects with	Regulatory & Law Enforcement Contacts	IRO-14	Mechanisms exist to maintain incident response contacts with applicable regulatory and law enforcement agencies.	5	
IR-6(1)	AUTOMATED REPORTING	Report incidents using automated mechanisms.	Functional	equal	Automated Reporting	IRO-10.1	Automated mechanisms exist to assist in the reporting of cybersecurity & data privacy incidents.	10	
IR-6(3)	INCIDENT REPORTING   SUPPLY CHAIN COORDINATION	Provide incident information to the provider of the product or service and other organizations involved in the supply chain or supply chain governance for systems or system components related to the incident.	Functional	equal	Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	10	
IR-7	INCIDENT RESPONSE ASSISTANCE	Provide an incident response support resource, integral to the organizational incident response capability, that offers advice and assistance to users of the system for the handling and reporting of incidents.	Functional	equal	Incident Reporting Assistance	IRO-11	Mechanisms exist to provide incident response advice and assistance to users of systems for the handling and reporting of actual and potential cybersecurity & data privacy incidents.	10	
IR-7(1)	INCIDENT RESPONSE ASSISTANCE   AUTOMATION SUPPORT FOR AVAILABILITY OF INFORMATION AND SUPPORT	Increase the availability of incident response information and support using automated mechanisms described in the discussion.	Functional	equal	Automation Support of Availability of Information / Support	IRO-11.1	Automated mechanisms exist to increase the availability of incident response-related information and support.	10	



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 (optional)
IR-8		a. Develop an incident response plan that:  1. Provides the organization with a roadmap for implementing its incident response capability;  2. Describes the structure and organization of the incident response capability;  2. Describes the structure and organization of the incident response capability;  3. Provides a high-level approach for how the incident response capability fits into the overall organization;  4. Meets the unique requirements of the organization, which relate to mission, size, structure, and functions;  5. Defines reportable incidents;  6. Provides metrics for measuring the incident response capability within the organization;  7. Defines the resources and management support needed to effectively maintain and mature an incident response capability.  8. Addiesses the sharing of incident information;  9. In reviewed and approved by the organization s'agency's executive leadership annually, and  10. Explicitly designates responsibility for incident response to organizational personnel with incident response plan to organizational personnel  1. Update the incident response plan to address system and organizational changes or problems encountered during plan implementation, execution, or testing.  1. Communicate incident response plan changes to organizational personnel with incident handling responsibilities; and  2. Protect the incident response plan form unauthorized disclosure and modification.	Functional	equal	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable incident Response Plan (IRP) to all stakeholders.	10	
IR-8(1)	INCIDENT RESPONSE PLAN   BREACHES	Include the following in the Incident Response Plan for breaches involving personally identifiable information: a. A process to determine if notice to individuals or other organizations, including oversight organizations, is needed; b. An assessment process to determine the extent of the harm, embarrassment, inconvenience, or unfairness to affected individuals and any mechanisms to mitigate such harms; and c. Leentification of applicable privacy requirements.	Functional	subset of	Data Breach	IRO-04.1	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.	10	
		a. Develop, document, and disseminate to organizational personnel with system maintenance responsibilities:     1. Agency-level maintenance policy that:     (a) Addresses purpose, scope, roles, responsibilities, management commitment,	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
MA-1	POLICY AND PROCEDURFS	coordination among organizational entities, and compliance; and (b) is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines; and 2. Procedures to facilitate the implementation of the maintenance policy and the	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
		associated maintenance controls; b. Designate an individual with security responsibilities to manage the	Functional	subset of	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	10	
		development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance:	Functional	intersects with	Auditing Remote Maintenance	MNT-05.1	Mechanisms exist to audit remote, non-local maintenance and diagnostic sessions, as well as review the maintenance action performed during remote maintenance	5	
		Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and	Functional	intersects with	Remote Maintenance Notifications	MNT-05.2	sessions.  Mechanisms exist to require maintenance personnel to notify affected stakeholders when remote, non-local maintenance is planned (e.g., date/time).	5	
MA-2	CONTROLLED MAINTENANCE	a. Schedule, document, and review records of maintenance, repair, and replacement on system components in accordance with manufacturer or vendor specifications and/or organizational requirements).  b. Approve and montro all maintenance activities, whether performed on site or remotely and whether the system or system components are serviced on site or remoted to another location;  c. Require that organizational personnel with information security and privacy responsibilities expolicitly approve the removal of the system or system components from organizational facilities for off-site maintenance, repair, or replacement;  d. Sanitize equipment to remove information from associated media prior to removal from organizational facilities for off-site maintenance, repair explacement, explacement, or destruction;  c. Check all potentially impacted controls to verify that the controls are still functioning properly following maintenance, repair, or replacement actions; and f. Include the following information in organizational maintenance records:  1. Component name  3. Date/furme of maintenance  4. Maintenance performed  5. Name(s) of entity performing maintenance including escort if required.	Functional	equal	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	10	
MA-3	MAINTENANCE TOOLS	a. Approve, control, and monitor the use of system maintenance tools; and b. Review previously approved system maintenance tools prior to each use.	Functional	equal	Maintenance Tools	MNT-04	Mechanisms exist to control and monitor the use of system maintenance tools.	10	
MA-3(1)	MAINTENANCE TOOLS   INSPECT TOOLS	Inspect the maintenance tools used by maintenance personnel for improper or unauthorized modifications.	Functional	equal	Inspect Tools	MNT-04.1	Mechanisms exist to inspect maintenance tools carried into a facility by maintenance personnel for improper or unauthorized modifications.	10	
MA-3(2)	MAINTENANCE TOOLS   INSPECT MEDIA	Check media containing diagnostic and test programs for malicious code before the media are used in the system.	Functional	equal	Inspect Media	MNT-04.2	Mechanisms exist to check media containing diagnostic and test programs for malicious code before the media are used.	10	
MA-3(3)	MAINTENANCE TOOLS	Prevent the removal of maintenance equipment containing organizational information by: a . Verifying that there is no organizational information contained on the equipment; b. Sanktizing or destroying the equipment; c. Retaining the equipment within the facility; or d. Obtaining an exemption from organizational personnel with system maintenance responsibilities explicitly authorizing removal of the equipment from the facility. a . Approve and monitor nonlocal maintenance and diagnostic activities;	Functional	equal	Prevent Unauthorized Removal	MN1-04.3	Mechanisms exist to prevent or control the removal of equipment undergoing maintenance that containing organizational information.  Mechanisms exist to authorize, monitor and control remote, non-local maintenance	10	
MA-4	NONLOCAL MAINTENANCE	<ul> <li>Allow the use of nonlocal maintenance and diagnostic tools only as consistent with organizational policy and documented in the security plan for the system;</li> <li>Employ strong authentication in the establishment of nonlocal maintenance</li> </ul>	Functional	intersects with	Remote Maintenance Remote Maintenance Notifications	MNT-05.2	mediations beast or automate, informed and control retirute, informed animatemante and diagnostic activities.  Mechanisms exist to require maintenance personnel to notify affected stakeholders when remote, non-local maintenance is planned (e.g., date/time).	5	
MA-5		a. Establish a process for maintenance personnel authorization and maintain a list of authorized maintenance organizations or personnel. b. Verify that non-escorted personnel performing maintenance on the system possess the required access authorizations; and c. Designate organizational personnel with required access authorizations and letchical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations.	Functional	equal	Authorized Maintenance Personnel	MNT-06	Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel.	10	
MA-6	TIMELY MAINTENANCE		Functional	equal	Timely Maintenance	MNT-03	Mechanisms exist to obtain maintenance support and/or spare parts for systems within a defined Recovery Time Objective (RTO).	10	
MP-1		a. Develop, document, and disseminate to authorized individuals:  1. Agency-level media protection policy that:  (a) Addresses purpose, scope, roles, responsibilities, management commitment,  coordination among agency entities, and compliance; and compliance;  (b) is consistent with applicable laws, executive orders, directives, regulations,  policies, standards, and guidelines, and guidelines.  2. Procedures to facilitate the implementation of the media protection policy and  the associated media protection controls;  b. Designate an individual with security responsibilities to manage the  development, documentation, and dissemination of the media protection policy  and procedures; and  c. Review and update the current media protection:  2. Procedures at least annually and following any security incidents involving digital  and/or non-digital media; and  2. Procedures at least annually and following any security incidents involving  digital and/or non-digital media; and	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
14D 2	MEDIA ACCESS		Functional	intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
MP-2	MEDIA ACCESS	Restrict access to digital and non-digital media to authorized individuals.	Functional	intersects with	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	5	
MP-4	MEDIA STORAGE	a. Physically control and securely store digital and non-digital media within physically secure locations or controlled areas and encrypt CII on digital media when physical and personnel restrictions are not feasible; and b. Protect system media types defined in MP-4a until the media are destroyed or santitzed using approved equipment, techniques, and procedures.	Functional	equal	Media Storage	DCH-06	Mechanisms exist to:  *Physically control and securely store digital and non-digital media within controlled areas using organization defined security measures; and *Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures.	10	



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 (optional)
MP-5	MEDIA TRANSPORT	a. Protect and control digital and non-digital media to help prevent compromise of the data during transport outside of the physically secure locations or controlled areas using encryption, as defined in Section 5.10.1.2 of this Policy. Physical media will be protected at the same level as the information would be protected in electronic form. Restrict the activities associated with transport of electronic and physical media to authorized personnel; b. Maintain accountability for system media during transport outside of the physically secure location or controlled areas; c. Document activities associated with the transport of system media; and d. Restrict the activities associated with the transport of system media to authorized personnel.	Functional	equal	Media Transportation	DCH-07	Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.	10	
MP-6	MEDIA SANITIZATION	a. Santize or destroy digital and non-digital media prior to disposal, release out of agency control, or release for reuse using overwrite technology at less three times or degauss digital media prior to disposal or release for reuse where times or degauss digital media will be destroyed (cut up, shredded, etc.). Physical media will be securely disposed of when no longer needed for investigative or security purposes, whichever is later. Physical media	Functional	intersects with	Physical Media Disposal  System Media Sanitization  Sanitization of Personal	DCH-08 DCH-09	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedure. Some control is a some control is not some control is not some control in the control integrity Mechanisms exist to sanitize system 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	
		will be destroyed by crosscut shredding or incineration; and a. Restrict the use of digital and non-digital media on agency owned systems that have been approved for use in the storage, processing, or transmission of	Functional	intersects with	Data (PD) Media Use	DCH-09.3	Mechanisms exist to facilitate the sanitization of Personal Data (PD).  Mechanisms exist to restrict the use of types of digital media on systems or system	5	
MP-7	MEDIA USE	criminal justice information by using technical, physical, or administrative controls (examples below); and b. Prohibit the use of personally owned digital media devices on all agency owned	Functional	intersects with	Prohibit Use Without Owner	DCH-10.2	components.  Mechanisms exist to prohibit the use of portable storage devices in organizational information systems when such devices have no identifiable owner.	5	
		or controlled systems that store, process, or transmit criminal justice information; and	Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.  Mechanisms exist to prevent unsupported systems by:	5	
SA-22	UNSUPPORTED SYSTEM COMPONENTS	a. Replace system components when support for the components is no longer available from the developer, vendor, or manufacturer; or b. Provide the following options for alternative sources for continued support for unsupported components: original manufacturer support, or original contracted vendor support.	Functional Functional	intersects with	Unsupported Systems  Alternate Sources for Continued Support	TDA-17	<ul> <li>Replacing systems when support for the components is no longer available from the developer, wendo or manufacture; and     Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.     Mechanisms exist to provide in-house support or contract external providers for support with vinus/ported system components.     </li> </ul>	5	
SI-1	POLICY AND PROCEDURES	a. Develop, document, and disseminate to all organizational personnel with system and information integrity responsibilities and information system owners: 1. Agency-level System and information integrity policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, coordination announg organizational entitles, and compliance; and (b) is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines; and compliance; and 2. Procedures to facilitate the implementation of the system and information integrity policy and the associated system and information integrity policy and the associated system and information integrity policy and procedures; and consistent of the system and information integrity; and procedures; and the consistent of the system and information integrity; and procedures; and several procedures and an access to Ci or systems used to process, storic, or transmit CiI, and 2. Procedures annually and following any security incidents involving unauthorized access to Ci or systems used to process, store, or transmit CiI.	Functional	subset of	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	10	
		a. Identify, report, and correct system flaws; b. Test software and firmware updates related to flaw remediation for	Functional	intersects with	Automatic Antimalware Signature Updates	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	5	
SI-2	FLAW REMEDIATION	effectiveness and potential side effects before installation; 2 c. Install security-relevant software and firmware updates within the number of days listed after the release of the updates;5	Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
		Critical – 15 days     High – 30 days	Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
SI-2(2)	FLAW REMEDIATION   AUTOMATED FLAW REMEDIATION STATUS	Determine if system components have applicable security-relevant software and firmware updates installed using vulnerability scanning tools as least quarterly or following any security incidents involving CII or systems used to process, store, or transmit CII. a. Implement signature-based malicious code protection mechanisms at system	Functional	equal	Automated Remediation Status Automatic Antimalware	VPM-05.2	Automated mechanisms exist to determine the state of system components with regard to flaw remediation.  Mechanisms exist to automatically update antimalware technologies, including	10	
		entry and exit points to detect and eradicate malicious code; 2 b. Automatically update malicious code protection mechanisms as new releases are available in accordance with organizational configuration management policy	Functional	intersects with	Signature Updates Heuristic / Nonsignature- Based Detection	END-04.1 END-04.4	signature definitions.  Mechanisms exist to utilize heuristic / nonsignature-based antimalware detection capabilities.	5	
SI-3	MALICIOUS CODE PROTECTION	and procedures;  c. Configure malicious code protection mechanisms to:  1. Perform periodic scans of the system at least daily and real-time scans of files from external sources at network entry and exit points and on all servers and	Functional	intersects with	Safeguarding Data Over Open Networks	NET-12	Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.	5	
		inon external sources at network entry and exit points and on an servers and endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and	Functional	intersects with	Input Data Validation Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to check the validity of information inputs.  Mechanisms exist to facilitate the implementation and monitoring of vulnerability	5	
		Block or quarantine malicious code, take mitigating action(s), and when necessary, implement incident response procedures; and send alert to system/network administrators and/or organizational personnel with	Functional	intersects with	(VPMP) Software & Firmware Patching	VPM-05	management controls.  Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
	SYSTEM MONITORING	Monitor the system to detect:     Attacks and indicators of potential attacks in accordance with the following	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
SI-4		monitoring objectives: a. Intrusion detection and prevention b. Malicious code protection c. Vulnerability scanning	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event logs.	5	
		d. Audit record monitoring e. Network monitoring f. Firewall monitoring;	Functional	intersects with	Safeguarding Data Over Open Networks Input Data Validation	NET-12 TDA-18	Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.  Mechanisms exist to check the validity of information inputs.	5	
SI-4(2)	SYSTEM MONITORING   AUTOMATED TOOLS AND MECHANISMS FOR REAL- TIME ANALYSIS	Employ automated tools and mechanisms to support near real-time analysis of events.	Functional	equal	Automated Tools for Real- Time Analysis	MON-01.2	Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation.	10	
SI-4(4)	SYSTEM MONITORING   INBOUND AND OUTBOUND COMMUNICATIONS TRAFFIC	a. Determine criteria for unusual or unauthorized activities or conditions for inbound and outbound communications traffic; b. Monitor inbound and outbound communications traffic continuously for unusual or unauthorized activities or conditions such as: the presence of malicious code or unauthorized use of legitimate code or credentials within organizational systems or propagating among system components, signaling to external systems, and the unauthorized exporting of information.	Functional	equal	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	10	
SI-4(5)	SYSTEM MONITORING   SYSTEM-GENERATED ALERTS	Alert organizational personnel with system monitoring responsibilities when the following system-generated indications of compromise or potential compromise occur: inappropriate or unusual activities with security or privacy implications.	Functional	equal	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	10	
SI-5	SECURITY ALERTS, ADVISORIES, AND	a. Receive system security alerts, advisories, and directives from external source(s) (e.g., CISA, Multi-State Information Sharing & Analysis Center [MS- ISAC], U.S. Computer Emergency Readiness Team [USCERT], hardware/software providers, federal/state advisories, etc.) on an ongoing basis;	Functional	intersects with	Safeguarding Data Over Open Networks Input Data Validation	NET-12 TDA-18	Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.  Mechanisms exist to check the validity of information inputs.	5	
	DIRECTIVES	Generate internal security alerts, advisories, and directives as deemed necessary;     Disseminate security alerts, advisories, and directives to: organizational	Functional	intersects with	Threat Intelligence Feeds	THR-03	Mechanisms exist to maintain situational awareness of evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
	INTEGRITY	a. Employ integrity verification tools to detect unauthorized changes to software, firmware, and information systems that contain or process CII; and D. Kale the following actions when unauthorized changes to the software, firmware, and information are detected: notify organizational personnel responsible for software, firmware, and/or information integrity and implement incident response procedures as appropriate.	Functional	intersects with	Endpoint File Integrity Monitoring (FIM)	END-06	Mechanisms exist to utilize File Integrity Monitor (FIM), or similar technologies, to detect and report on unauthorized changes to selected files and configuration settings.	5	
SI-7			Functional	intersects with	Safeguarding Data Over Open Networks	NET-12	Cryptographic mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.	5	
SI-7(1)	SOFTWARE, FIRMWARE, AND INFORMATION INTEGRITY   INTEGRITY CHECKS	Perform an integrity check of software, firmware, and information systems that contain or process CII at agency-defined transitional states or security relevant events at least weekly or in an automated fashion.	Functional Functional	intersects with	Input Data Validation Integrity Checks	TDA-18 END-06.1	Mechanisms exist to check the validity of information inputs.  Mechanisms exist to validate configurations through integrity checking of software and firmware.	10	
SI-7(7)	SOFTWARE, FIRMWARE, AND INFORMATION INTEGRITY   INTEGRATION OF DETECTION AND RESPONSE	Incorporate the detection of the following unauthorized changes into the organizational incident response capability: unauthorized changes to established configuration setting or the unauthorized elevation of system privileges.	Functional	equal	Automated Central Management & Verification	CFG-02.2	Automated mechanisms exist to govern and report on baseline configurations of systems through Continuous Diagnostics and Mitigation (CDM), or similar technologies.	10	
SI-8	SPAM PROTECTION	a. Employ spam protection mechanisms at system entry and exit points to detect and act on unsolicited messages; and to Update spam protection mechanisms when new releases are available in accordance with organizational configuration management policy and procedures.	Functional	equal	Phishing & Spam Protection	END-08	Mechanisms exist to utilize anti-phishing and spam protection technologies to detect and take action on unsolicited messages transported by electronic mail.	10	



Implement the following controls to protect the system memory from unauthorized code execution: data execution prevention and address space layout randomization.

Functional

Memory Protection

SEA-10 Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.

10



SI-16

MEMORY PROTECTION