

NIST IR 8477-Based Set Theory Relationship Mapping (STRM)

Reference Document : Secure Controls Framework (SCF) version 2025.2

STRM Guidance: <https://securecontrolsframework.com/set-theory-relationship-mapping-strm/>

Focal Document:

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CJIS Security Policy v5.9.3

<https://a.fbi.gov/cjis-division/cjis-security-policy-resource-center>

<https://securecontrolsframework.com/content/strm/scf-strm-us-fed-CJIS-5-9-3.pdf>

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
4.1	Criminal Justice Information (CJI)	<p>Criminal Justice Information is the term used to refer to all of the FBI CJIS provided data necessary for law enforcement and civil agencies to perform their missions including, but not limited to biometric, identity history, biographic, property, and case/incident history data. The following categories of CJI describe the various data sets housed by the FBI CJIS architecture:</p> <ol style="list-style-type: none">1. Biometric Data—data derived from one or more intrinsic physical or behavioral traits of humans typically for the purpose of uniquely identifying individuals from within a population. Used to identify individuals, to include: fingerprints, palm prints, iris scans, and facial recognition data.2. Identity History Data—textual data that corresponds with an individual's biometric data, providing a history of criminal and/or civil events for the identified individual.3. Biographic Data—information about individuals associated with a unique case, and not necessarily connected to identity data. Biographic data does not provide a history of an individual, only information related to a unique case.4. Property Data—information about vehicles and property associated with crime when accompanied by any personally identifiable information (PII).5. Case/Incident History—information about the history of criminal incidents. <p>The following type of data are exempt from the protection levels required for CJI: transaction control type numbers (e.g., ORI, NIC, UCN, etc.) when not accompanied by information that reveals CJI or PII.</p> <p>The intent of the CJIS Security Policy is to ensure the protection of the aforementioned CJI until the information is: released to the public via authorized dissemination (e.g., 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. CJI 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 CJIS Security Policy.</p>	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.1.1	Criminal History Record Information (CHRI)	<p>Criminal History Record Information (CHRI), sometimes informally referred to as "restricted data", is a subset of CJI. Due to its comparatively sensitive nature, 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 of Federal Regulations (CFR), defines CHRI and provides the regulatory guidance for dissemination of CHRI. While the CJIS Security Policy attempts to be architecturally independent, the II and the NCIC are specifically identified in Title 28, Part 20, CFR, and the NCIC Operating Manual, as associated with CHRI.</p>	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	Criminal History Record Information (CHRI)	<p>Criminal History Record Information (CHRI), sometimes informally referred to as "restricted data", is a subset of CJI. Due to its comparatively sensitive nature, 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 of Federal Regulations (CFR), defines CHRI and provides the regulatory guidance for dissemination of CHRI. While the CJIS Security Policy attempts to be architecturally independent, the III and the NCIC are specifically identified in Title 28, Part 20, CFR, and the NCIC Operating Manual, as associated with CHRI.</p>	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	<p>This section describes the requirements for the access, use and dissemination of CHRI, NCIC restricted files information, and NCIC non-restricted files information.</p>	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	<p>Information obtained from the III is considered CHRI. Rules governing the access, use, and dissemination of CHRI are found in Title 28, Part 20, CFR. The III shall be accessed only for an authorized purpose. Further, CHRI shall only be used for an authorized purpose consistent with the purpose for which III was accessed. Dissemination to another agency is authorized if (a) the other agency is an Authorized Recipient of such information and is being serviced by the accessing agency, or (b) the other agency is performing personnel and appointment functions for criminal justice employment applicants.</p>	Functional	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
4.2.1	Proper Access, Use, and Dissemination of CHRI	<p>Information obtained from the III is considered CHRI. Rules governing the access, use, and dissemination of CHRI are found in Title 28, Part 20, CFR. The III shall be accessed only for an authorized purpose. Further, CHRI shall only be used for an authorized purpose consistent with the purpose for which III was accessed. Dissemination to another agency is authorized if (a) the other agency is an Authorized Recipient of such information and is being serviced by the accessing agency, or (b) the other agency is performing personnel and appointment functions for criminal justice employment applicants.</p>	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	
4.2.2	Proper Access, Use, and Dissemination of NCIC Restricted Files Information	<p>The NCIC hosts restricted files and non-restricted files. NCIC restricted files are distinguished from NCIC 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 III described in Title 28, Part 20, CFR, and the NCIC Operating Manual. The restricted files, which shall be protected as CHRI, are as follows:</p> <ol style="list-style-type: none">1. Gang Files2. Threat Screening Center Files3. Supervised Release Files4. National Sex Offender Registry Files5. Historical Protection Order Files of the NCIC6. Identity Theft Files7. Protective Interest Files8. Person With Information (PWI) data in the Missing Person Files9. Violent Person File10. NICS Denied Transactions File <p>The remaining NCIC files are considered non-restricted files.</p>	Functional	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
4.2.2	Proper Access, Use, and Dissemination of NCIC Restricted Files Information	<p>The NCIC hosts restricted files and non-restricted files. NCIC restricted files are distinguished from NCIC 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 III described in Title 28, Part 20, CFR, and the NCIC Operating Manual. The restricted files, which shall be protected as CHRI, are as follows:</p> <ol style="list-style-type: none">1. Gang Files2. Threat Screening Center Files3. Supervised Release Files4. National Sex Offender Registry Files5. Historical Protection Order Files of the NCIC6. Identity Theft Files7. Protective Interest Files8. Person With Information (PWI) data in the Missing Person Files9. Violent Person File10. NICS Denied Transactions File <p>The remaining NCIC files are considered non-restricted files.</p>	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	
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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.
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 (b) private entities authorized by law to receive such information for any purpose consistent with their responsibilities.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
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4.2.3.2	For Other Authorized Purposes	NCIC 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 NCIC non-restricted files for other than law enforcement purposes can be used by authorized criminal justice personnel only to confirm the status of a person or property (i.e., wanted or stolen). An inquiring agency is authorized to charge a nominal administrative fee for such service. Non-restricted files information shall not be disseminated commercially. A response to a NCIC person inquiry may include NCIC 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	Personal Data (PD) Retention & Disposal	PRI-05	Mechanisms exist to: (1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law; (2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and (3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
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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	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	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	intersects with	Disclosure of Information	DCH-03.1	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 files and/or criminal record files. See Section 5.9 for physical security controls.	Functional	subset of	Sensitive / Regulated Data Protection	DCH-01.2	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.

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4.3	Personally Identifiable Information (PII)	For the purposes of this document, PII is information which can be used to 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 maiden name. Any FBI CJIS 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 National Data Exchange (N-DEX) case file. PII shall be extracted from CJII 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 PII extracted from CJII. Due to the expansive nature of PII, this Policy does not specify auditing, logging, or personnel security requirements associated with the life cycle of PII.	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	
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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	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	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	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.1.1	Information Exchange	Before exchanging CJII, agencies shall put formal agreements in place that specify security controls. The exchange of information may take several forms including electronic mail, instant messages, web services, facsimile, hard copy, and information systems sending, receiving and storing CJII. Information exchange agreements outline the roles, responsibilities, and data ownership between agencies and any external parties. Information exchange agreements for agencies sharing CJII data that is sent to and/or received from the FBI CJIS shall specify the security controls and conditions described in this document. Information exchange agreements shall be supported by documentation committing both parties to the terms of information exchange. As described in subsequent sections, different agreements and policies apply, depending on whether the parties involved are CIAs or NCIA's. See Appendix D for examples of Information Exchange Agreements. There may be instances, on an ad-hoc basis, where CJII is authorized for further dissemination to Authorized Recipients not covered by an information exchange agreement with the releasing agency. In these instances the dissemination of CJII is considered to be secondary dissemination. Law Enforcement and civil agencies shall have a local policy to validate a requestor of CJII as an authorized recipient before disseminating CJII. See Section 5.1.3 for secondary dissemination guidance.	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	
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5.1.1.1	Information Handling	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 apply to the handling, processing, storing, and communication of CJII. These procedures apply to the exchange of CJII no matter the form of exchange. The policies for information handling and protection also apply to using CJII 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 purposes authorized by federal or state law other than purposes relating to the administration of criminal justice, including – but not limited to - employment suitability, licensing determinations, immigration and naturalization matters, and national security clearances.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	

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5.1.1.1	Information Handling	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 apply to the handling, processing, storing, and communication of CJI. These procedures apply to the exchange of CJI no matter the form of exchange. 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 purposes authorized by federal or state law other than purposes relating to the administration of criminal justice, including – but not limited to - employment suitability, licensing determinations, immigration and naturalization matters, and national security clearances.	Functional	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
5.1.1.1	Information Handling	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 apply to the handling, processing, storing, and communication of CJI. These procedures apply to the exchange of CJI no matter the form of exchange. 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 purposes authorized by federal or state law other than purposes relating to the administration of criminal justice, including – but not limited to - employment suitability, licensing determinations, immigration and naturalization matters, and national security clearances.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.1.1.1	Information Handling	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 apply to the handling, processing, storing, and communication of CJI. These procedures apply to the exchange of CJI no matter the form of exchange. 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 purposes authorized by federal or state law other than purposes relating to the administration of criminal justice, including – but not limited to - employment suitability, licensing determinations, immigration and naturalization matters, and national security clearances.	Functional	intersects with	Sensitive / Regulated Data Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive / regulated data is formally trained in data handling requirements.	5	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	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	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	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	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	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	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	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	
5.1.1.2	State and Federal Agency User Agreements	Each CSA head or SIB Chief shall execute a signed written user agreement with the FBI CJIS Division stating their willingness to demonstrate conformity with this Policy before accessing and participating in CJIS records information programs. 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 penetrate the FBI's network through the external network connection or system. All user agreements with the FBI CJIS Division shall be coordinated with the CSA head.	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	
5.1.1.3	Criminal Justice Agency User Agreements	Any CIA receiving access to CJI 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 CJIS systems and services to which the agency will have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include: 1. Audit. 2. Dissemination. 3. Hit confirmation. 4. Logging. 5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness. 9. Training. 10. Use of the system. 11. Validation.	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	
5.1.1.3	Criminal Justice Agency User Agreements	Any CIA receiving access to CJI 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 CJIS systems and services to which the agency will have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include: 1. Audit. 2. Dissemination. 3. Hit confirmation. 4. Logging. 5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness. 9. Training. 10. Use of the system. 11. Validation.	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	

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)
5.1.1.3	Criminal Justice Agency User Agreements	Any CIA receiving access to CJJ 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 CJIS systems and services to which the agency will have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include: 1. Audit. 2. Dissemination. 3. Hit confirmation. 4. Logging. 5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness. 9. Training. 10. Use of the system. 11. Validation.	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	
5.1.1.3	Criminal Justice Agency User Agreements	Any CIA receiving access to CJJ 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 CJIS systems and services to which the agency will have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include: 1. Audit. 2. Dissemination. 3. Hit confirmation. 4. Logging. 5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness. 9. Training. 10. Use of the system. 11. Validation.	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	
5.1.1.3	Criminal Justice Agency User Agreements	Any CIA receiving access to CJJ 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 CJIS systems and services to which the agency will have access, and the FBI CJIS Division policies to which the agency must adhere. These agreements shall include: 1. Audit. 2. Dissemination. 3. Hit confirmation. 4. Logging. 5. Quality Assurance (QA). 6. Screening (Pre-Employment). 7. Security. 8. Timeliness. 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	
5.1.1.4	Interagency and Management Control Agreements	A NCIA (government) designated to perform criminal justice functions for a CIA shall be eligible for access to the CJJ. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CIA, which stipulates management control of the criminal justice function remains solely with the CIA. The MCA may be a separate document or included with the language of an interagency agreement. An example of an NCIA (government) is a city information technology (IT) department.	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	
5.1.1.4	Interagency and Management Control Agreements	A NCIA (government) designated to perform criminal justice functions for a CIA shall be eligible for access to the CJJ. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CIA, which stipulates management control of the criminal justice function remains solely with the CIA. The MCA may be a separate document or included with the language of an interagency agreement. An example of an NCIA (government) is a city information technology (IT) department.	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	
5.1.1.4	Interagency and Management Control Agreements	A NCIA (government) designated to perform criminal justice functions for a CIA shall be eligible for access to the CJJ. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CIA, which stipulates management control of the criminal justice function remains solely with the CIA. The MCA may be a separate document or included with the language of an interagency agreement. An example of an NCIA (government) is a city information technology (IT) department.	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	
5.1.1.4	Interagency and Management Control Agreements	A NCIA (government) designated to perform criminal justice functions for a CIA shall be eligible for access to the CJJ. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CIA, which stipulates management control of the criminal justice function remains solely with the CIA. The MCA may be a separate document or included with the language of an interagency agreement. An example of an NCIA (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.	5	
5.1.1.4	Interagency and Management Control Agreements	A NCIA (government) designated to perform criminal justice functions for a CIA shall be eligible for access to the CJJ. Access shall be permitted when such designation is authorized pursuant to executive order, statute, regulation, or interagency agreement. The NCIA shall sign and execute a management control agreement (MCA) with the CIA, which stipulates management control of the criminal justice function remains solely with the CIA. The MCA may be a separate document or included with the language of an interagency agreement. An example of an NCIA (government) is a city information technology (IT) department.	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	
5.1.1.5	Private Contractor User Agreements and CJIS Security Addendum	The CJIS Security Addendum is a uniform addendum to an agreement between 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 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 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 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 CIA shall be eligible for access to CJJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the CIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7). 2. Private contractors designated to perform criminal justice functions on behalf of a NCIA (government) shall be eligible for access to CJJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the NCIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).	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	

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)
5.1.1.5	Private Contractor User Agreements and CJIS Security Addendum	<p>The CJIS Security Addendum is a uniform addendum to an agreement between 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 regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require.</p> <p>Private contractors who perform criminal justice functions shall meet the same 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 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.</p> <p>1. Private contractors designated to perform criminal justice functions for a CIA shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the CIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p> <p>2. Private contractors designated to perform criminal justice functions on behalf of a NCIA (government) shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the NCIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p>	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	
5.1.1.5	Private Contractor User Agreements and CJIS Security Addendum	<p>The CJIS Security Addendum is a uniform addendum to an agreement between 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 regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require.</p> <p>Private contractors who perform criminal justice functions shall meet the same 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 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.</p> <p>1. Private contractors designated to perform criminal justice functions for a CIA shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the CIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p> <p>2. Private contractors designated to perform criminal justice functions on behalf of a NCIA (government) shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the NCIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p>	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	
5.1.1.5	Private Contractor User Agreements and CJIS Security Addendum	<p>The CJIS Security Addendum is a uniform addendum to an agreement between 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 regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require.</p> <p>Private contractors who perform criminal justice functions shall meet the same 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 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.</p> <p>1. Private contractors designated to perform criminal justice functions for a CIA shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the CIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p> <p>2. Private contractors designated to perform criminal justice functions on behalf of a NCIA (government) shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the NCIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p>	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	
5.1.1.5	Private Contractor User Agreements and CJIS Security Addendum	<p>The CJIS Security Addendum is a uniform addendum to an agreement between 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 regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require.</p> <p>Private contractors who perform criminal justice functions shall meet the same 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 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.</p> <p>1. Private contractors designated to perform criminal justice functions for a CIA shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the CIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p> <p>2. Private contractors designated to perform criminal justice functions on behalf of a NCIA (government) shall be eligible for access to CJ. Access shall be permitted pursuant to an agreement which specifically identifies the agency's purpose and scope of providing services for the administration of criminal justice. The agreement between the NCIA and the private contractor shall incorporate the CJIS Security Addendum approved by the Director of the FBI, acting for the U.S. Attorney General, as referenced in Title 28 CFR 20.33 (a)(7).</p>	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	

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)
5.1.1.6	Agency User Agreements	<p>A NCIA (public) designated to request civil fingerprint-based background checks, 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 CJ. 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 CJ shall enter into a signed written agreement with the appropriate signatory authority of the CSA/SIB providing the access. An example of a NCIA (public) is a county school board.</p> <p>A NCIA (private) designated to request civil fingerprint-based background checks, 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 CJ. 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 access to CJ 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.</p> <p>All NCIA's accessing CJ shall be subject to all pertinent areas of the CJIS Security Policy (see Appendix J for supplemental guidance). Each NCIA that directly accesses FBI CJ shall also allow the FBI to periodically test the ability to penetrate the FBI's network through the external network connection or system.</p>	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	
5.1.1.6	Agency User Agreements	<p>A NCIA (public) designated to request civil fingerprint-based background checks, 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 CJ. 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 CJ shall enter into a signed written agreement with the appropriate signatory authority of the CSA/SIB providing the access. An example of a NCIA (public) is a county school board.</p> <p>A NCIA (private) designated to request civil fingerprint-based background checks, 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 CJ. 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 access to CJ 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.</p> <p>All NCIA's accessing CJ shall be subject to all pertinent areas of the CJIS Security Policy (see Appendix J for supplemental guidance). Each NCIA that directly accesses FBI CJ shall also allow the FBI to periodically test the ability to penetrate the FBI's network through the external network connection or system.</p>	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	<p>A NCIA (public) designated to request civil fingerprint-based background checks, 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 CJ. 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 CJ shall enter into a signed written agreement with the appropriate signatory authority of the CSA/SIB providing the access. An example of a NCIA (public) is a county school board.</p> <p>A NCIA (private) designated to request civil fingerprint-based background checks, 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 CJ. 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 access to CJ 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.</p> <p>All NCIA's accessing CJ shall be subject to all pertinent areas of the CJIS Security Policy (see Appendix J for supplemental guidance). Each NCIA that directly accesses FBI CJ shall also allow the FBI to periodically test the ability to penetrate the FBI's network through the external network connection or system.</p>	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	
5.1.1.6	Agency User Agreements	<p>A NCIA (public) designated to request civil fingerprint-based background checks, 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 CJ. 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 CJ shall enter into a signed written agreement with the appropriate signatory authority of the CSA/SIB providing the access. An example of a NCIA (public) is a county school board.</p> <p>A NCIA (private) designated to request civil fingerprint-based background checks, 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 CJ. 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 access to CJ 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.</p> <p>All NCIA's accessing CJ shall be subject to all pertinent areas of the CJIS Security Policy (see Appendix J for supplemental guidance). Each NCIA that directly accesses FBI CJ shall also allow the FBI to periodically test the ability to penetrate the FBI's network through the external network connection or system.</p>	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	
5.1.1.6	Agency User Agreements	<p>A NCIA (public) designated to request civil fingerprint-based background checks, 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 CJ. 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 CJ shall enter into a signed written agreement with the appropriate signatory authority of the CSA/SIB providing the access. An example of a NCIA (public) is a county school board.</p> <p>A NCIA (private) designated to request civil fingerprint-based background checks, 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 CJ. 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 access to CJ 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.</p> <p>All NCIA's accessing CJ shall be subject to all pertinent areas of the CJIS Security Policy (see Appendix J for supplemental guidance). Each NCIA that directly accesses FBI CJ shall also allow the FBI to periodically test the ability to penetrate the FBI's network through the external network connection or system.</p>	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	
5.1.1.7	Outsourcing Standards for Channelers	<p>Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) for noncriminal justice functions shall be eligible for access to CJ. 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 CJ shall be subject to the terms and conditions described in the Compact Council Security and Management Control Outsourcing Standard. Each Channeler that directly accesses CJ shall also allow the FBI to conduct periodic penetration testing. Channelers leveraging CJ 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 same extent of audit review as are local user agencies.</p>	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	
5.1.1.7	Outsourcing Standards for Channelers	<p>Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) for noncriminal justice functions shall be eligible for access to CJ. 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 CJ shall be subject to the terms and conditions described in the Compact Council Security and Management Control Outsourcing Standard. Each Channeler that directly accesses CJ shall also allow the FBI to conduct periodic penetration testing. Channelers leveraging CJ 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 same extent of audit review as are local user agencies.</p>	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	

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)
5.1.1.7	Outsourcing Standards for Channelers	Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All Channelers accessing CJI shall be subject to the terms and conditions described 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. 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 same extent of audit review as are local user agencies.	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	
5.1.1.7	Outsourcing Standards for Channelers	Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All Channelers accessing CJI shall be subject to the terms and conditions described 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. 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 same extent of audit review as are local user agencies.	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	
5.1.1.7	Outsourcing Standards for Channelers	Channelers designated to request civil fingerprint-based background checks or noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All Channelers accessing CJI shall be subject to the terms and conditions described 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. 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 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	
5.1.1.8	Outsourcing Standards for Non-Channelers	Contractors designated to perform noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All contractors accessing CJI shall be subject to the terms and conditions described in the Compact Council Outsourcing Standard for Non-Channelers. Contractors 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 same extent of audit review as are local user agencies.	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	
5.1.1.8	Outsourcing Standards for Non-Channelers	Contractors designated to perform noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All contractors accessing CJI shall be subject to the terms and conditions described in the Compact Council Outsourcing Standard for Non-Channelers. Contractors 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 same extent of audit review as are local user agencies.	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 Non-Channelers	Contractors designated to perform noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All contractors accessing CJI shall be subject to the terms and conditions described in the Compact Council Outsourcing Standard for Non-Channelers. Contractors 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 same extent of audit review as are local user agencies.	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	
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5.1.1.8	Outsourcing Standards for Non-Channelers	Contractors designated to perform noncriminal justice ancillary functions on behalf of a NCIA (public) or NCIA (private) 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. All contractors accessing CJI shall be subject to the terms and conditions described in the Compact Council Outsourcing Standard for Non-Channelers. Contractors 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 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 FBI shall maintain sufficient overall control and visibility into all security aspects to include, but not limited to, identification of vulnerabilities and information security incident reporting/response. The incident 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, or FBI. 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.	10	
5.1.4	Secondary Dissemination of Non-CHRI CJI	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 contractor of a law enforcement agency or civil agency requiring the CJI to perform their mission or a member of the public receiving CJI via authorized dissemination.	Functional	intersects with	Disclosure of Information	DCH-03.1	Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized parties with a need to know.	5	
5.1.4	Secondary Dissemination of Non-CHRI CJI	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 contractor of a law enforcement agency or civil agency requiring the CJI to perform their mission or a member of the public receiving CJI via authorized dissemination.	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	
5.1.4	Secondary Dissemination of Non-CHRI CJI	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 contractor of a law enforcement agency or civil agency requiring the CJI to perform their mission or a member of the public receiving CJI via authorized dissemination.	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	
5.1.4	Secondary Dissemination of Non-CHRI CJI	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 contractor of a law enforcement agency or civil agency requiring the CJI to perform their mission or a member of the public receiving CJI 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	
5.1.4	Secondary Dissemination of Non-CHRI CJI	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 contractor of a law enforcement agency or civil agency requiring the CJI to perform their mission or a member of the public receiving CJI via authorized dissemination.	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	

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)
5.2	AWARENESS AND TRAINING (AT)	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 responsibilities and expected behavior when accessing CII and the systems which process CII. LASOs require enhanced training on the specific duties and responsibilities of those positions and the impact those positions have on the overall security of information systems.	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)	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 responsibilities and expected behavior when accessing CII and the systems which process CII. LASOs require enhanced training on the specific duties and responsibilities of those positions and the impact those positions have on the overall security of information systems.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.2	AWARENESS AND TRAINING (AT)	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 responsibilities and expected behavior when accessing CII and the systems which process CII. LASOs require enhanced training on the specific duties and responsibilities of those positions and the impact those positions have on the 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	
5.3	INCIDENT RESPONSE (IR)	N/A	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 protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.4	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	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	
5.4	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit 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 protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.4	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	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	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	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	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	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	
5.4	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. 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	
5.4	Policy Area 4: Auditing and Accountability	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 information systems to determine which security controls are applicable to the various components. 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 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. Refer to Section 5.13.6 for additional audit requirements related to mobile devices used to access CII.	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	

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)
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	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	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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.	5	
5.4.1	Auditable Events and Content (Information Systems)	The agency's information system shall generate audit records for defined events. These defined events include identifying significant events which need to be audited as relevant to the security of the information system. The agency shall 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. 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-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	Content of Event Logs	MON-03	Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event.	5	
5.4.1.1	Events	The following events shall be logged: 1. Successful and unsuccessful system log-on attempts. 2. Successful and unsuccessful attempts 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; d. delete permission on a user account, file, directory or other system resource; e. change permission on a user account, file, directory or other system resource. 3. Successful and unsuccessful attempts to change account passwords. 4. Successful and unsuccessful actions by privileged accounts (i.e., root, Oracle, DBA, admin, etc.). 5. Successful and unsuccessful attempts for users to: a. access the audit log file; b. modify the audit log file; c. destroy 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	
5.4.1.1	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 configure systems to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event.	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)
5.4.1.1.1	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	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	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 configure systems to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event	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	
5.4.3	Audit Monitoring, Analysis, and Reporting	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 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 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 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.	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
5.4.3	Audit Monitoring, Analysis, and Reporting	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 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 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 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.	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, and Reporting	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 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 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 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.	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	
5.4.3	Audit Monitoring, Analysis, and Reporting	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 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 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 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.	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	
5.4.3	Audit Monitoring, Analysis, and Reporting	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 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 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 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.	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	
5.4.4	Time Stamps	The agency's information system shall provide time stamps for use in 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.	Functional	equal	Time Stamps	MON-07	Mechanisms exist to configure systems to use an authoritative time source to generate time stamps for event logs.	10	
5.4.5	Protection of Audit Information	The agency's information system shall protect audit information and audit tools from modification, deletion and unauthorized access.	Functional	equal	Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access, modification and deletion.	10	
5.4.6	Audit Record Retention	The agency shall retain audit records for at least one (1) year. Once the minimum retention time period has passed, the agency shall continue to retain audit records until it is determined they are no longer needed for administrative, legal, audit, or other operational purposes. This includes, for example, retention 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 CJIS information and the modification of information systems, applications, services, and communication configurations allowing access to CJIS information. Refer to Section 5.13.6 for additional access control requirements related to mobile devices used to access CJI.	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	
5.5	ACCESS CONTROL (AC)	Access control provides the planning and implementation of mechanisms to restrict reading, writing, processing, and transmission of CJIS information and the modification of information systems, applications, services, and communication configurations allowing access to CJIS information. Refer to Section 5.13.6 for additional access control requirements related to mobile devices used to access CJI.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection 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. 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	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	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. 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 protection 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 5.5, 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	

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)
5.7.1.2	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. 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., firewalls, 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: (1) Contain sufficient detail to assess the security of the network's architecture; (2) Reflect the current architecture of the network environment; and (3) Document all sensitive/regulate data flows.	10	
5.7.2	Security of Configuration Documentation	The system configuration documentation often contains sensitive details (e.g., descriptions of applications, processes, procedures, data structures, 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	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
5.7.2	Security of Configuration Documentation	The system configuration documentation often contains sensitive details (e.g., descriptions of applications, processes, procedures, data structures, 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	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar 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	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	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	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.9	Policy Area 9: Physical Protection	Physical protection policy and procedures shall be documented and implemented to ensure CJI and information system hardware, software, and media are physically protected through access control measures.	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	
5.9	Policy Area 9: Physical Protection	Physical protection policy and procedures shall be documented and implemented to ensure CJI 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 protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.9	Policy Area 9: Physical Protection	Physical protection policy and procedures shall be documented and implemented to ensure CJI and information system hardware, software, and media are physically protected through access control measures.	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 CJI and associated information systems. The physically secure location is subject to criminal justice agency management control, SIB control, FBI CJIS Security addendum, or a combination thereof. Sections 5.9.1.1 - 5.9.1.8 describe the physical controls required in order to be considered a physically secure location, while Sections 5.2 and 5.12, respectively, describe the minimum security awareness training and personnel security controls required for unescorted access to a physically secure location. Sections 5.5, 5.6.2.2.1, and 5.10 describe the requirements for technical security controls required to access CJI 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	
5.9.1.3	Physical Access Control	The agency shall control all physical access points (except for those areas within the facility officially designated as publicly accessible) and shall verify individual access authorizations before granting access.	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 shall control all physical access points (except for those areas within the facility officially designated 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	
5.9.1.5	Access Control for Display Medium	The agency shall control physical access to information system devices that 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	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	Access Control for Display Medium	The agency shall control physical access to information system devices that 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	
5.9.1.5	Access Control for Display Medium	The agency shall control physical access to information system devices that 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	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 CJI, the agency shall designate an area, a room, or a storage container, as a controlled area for the purpose of day-to-day CJI access or storage. The agency shall, at a minimum: 1. Limit access to the controlled area during CJI processing times to only those personnel authorized by the agency to access or view CJI. 2. Lock the area, room, or storage container when unattended. 3. Position information system devices and documents containing CJI in such a way as to prevent unauthorized individuals from access and view. 4. Follow the encryption requirements found in Section 5.10.1.2 for electronic storage (i.e., data "at rest") of CJI.	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	
5.9.2	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 CJI, the agency shall designate an area, a room, or a storage container, as a controlled area for the purpose of day-to-day CJI access or storage. The agency shall, at a minimum: 1. Limit access to the controlled area during CJI processing times to only those personnel authorized by the agency to access or view CJI. 2. Lock the area, room, or storage container when unattended. 3. Position information system devices and documents containing CJI in such a way as to prevent unauthorized individuals from access and view. 4. Follow the encryption requirements found in Section 5.10.1.2 for electronic storage (i.e., data "at rest") of 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 an agency'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 CJI.	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	

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)
5.10.1	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 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 Section 5.5) are: 1. Prevent CJI from being transmitted unencrypted across the public network. 2. Block outside traffic that claims to be from within the agency. 3. Do not pass any web requests to the public network that are not from the internal web proxy. Specific examples of flow control enforcement can be found in boundary protection devices (e.g., proxies, gateways, guards, encrypted tunnels, firewalls, and routers) that employ rule sets or establish configuration settings that restrict information system services or provide a packet filtering capability.	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	
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 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 Section 5.5) are: 1. Prevent CJI from being transmitted unencrypted across the public network. 2. Block outside traffic that claims to be from within the agency. 3. Do not pass any web requests to the public network that are not from the internal web proxy. Specific examples of flow control enforcement can be found in boundary protection devices (e.g., proxies, gateways, guards, encrypted tunnels, firewalls, and routers) that employ rule sets or establish configuration settings that restrict information system services or provide a packet filtering capability.	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 CJI. 2. Monitor and control communications at the external boundary of the information system and at key internal boundaries within the system. 3. Ensure any connections to the Internet, other external networks, or information systems occur through controlled interfaces (e.g., proxies, gateways, routers, firewalls, encrypted tunnels). See Section 5.13.4.3 for guidance on personal firewalls. 4. Employ tools and techniques to monitor network events, detect attacks, and provide identification of unauthorized use. 5. Ensure the operational failure of the boundary protection mechanisms do not result in any unauthorized release of information outside of the information system boundary (i.e., the device “falls closed” vs. “falls open”). 6. Allocate publicly accessible information system components (e.g., public Web servers) to separate sub networks with separate, network interfaces. Publicly accessible information systems residing on a virtual host shall follow the guidance in Section 5.10.3.2 to achieve separation.	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	
5.10.1.2	Encryption	Encryption is a form of cryptography that applies a cryptographic operation to provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext (readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid 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	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	
5.10.1.2	Encryption	Encryption is a form of cryptography that applies a cryptographic operation to provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext (readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid 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	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
5.10.1.2	Encryption	Encryption is a form of cryptography that applies a cryptographic operation to provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext (readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid 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	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
5.10.1.2	Encryption	Encryption is a form of cryptography that applies a cryptographic operation to provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext (readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid 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	
5.10.1.2	Encryption	Encryption is a form of cryptography that applies a cryptographic operation to provide confidentiality of (sensitive) information. Decryption is the reversing of the cryptographic operation to convert the information back into a plaintext (readable) format. There are two main types of encryption: symmetric encryption and asymmetric encryption (also known as public key encryption). Hybrid 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	Authentication & Encryption	NET-15.1	Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data.	5	
5.10.1.2.1	Encryption for CJI in Transit	When CJI 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 CJI. NOTE: Subsequent versions of approved cryptographic modules that are under current review for FIPS 140-2 compliancy can be used in the interim until certification is complete. EXCEPTIONS: 1. See Sections 5.13.1.2.2 and 5.10.2. 2. Encryption shall not be required if the transmission medium meets all of the following requirements: a. The agency owns, operates, manages, or protects the medium. b. Medium terminates within physically secure locations at both ends with no interconnections between. c. Physical access to the medium is controlled by the agency using the requirements in Sections 5.9.1 and 5.12. d. Protection includes safeguards (e.g., acoustic, electric, electromagnetic, and physical) and if feasible countermeasures (e.g., alarms, notifications) to permit its use for the transmission of unencrypted information through an area of lesser classification or control. e. With prior approval of the CSO. Examples: • A campus is completely owned and controlled by a criminal justice agency (CIA) – If line-of-sight between buildings exists where a cable is buried, encryption is not required. • A multi-story building is completely owned and controlled by a CIA – If floors are physically secure or cable runs through non-secure areas are protected, encryption is not required. • A multi-story building is occupied by a mix of CIAs and non-CIAs – If floors are physically secure or cable runs through the non-secure areas are protected.	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	

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)
5.10.1.2.1	Encryption for CJI in Transit	<p>When CJI 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 CJI.</p> <p>NOTE: Subsequent versions of approved cryptographic modules that are under current review for FIPS 140-2 compliance can be used in the interim until certification is complete.</p> <p>EXCEPTIONS:</p> <p>1. See Sections 5.13.1.2.2 and 5.10.2.</p> <p>2. Encryption shall not be required if the transmission medium meets all of the following requirements:</p> <p>a. The agency owns, operates, manages, or protects the medium.</p> <p>b. Medium terminates within physically secure locations at both ends with no interconnections between.</p> <p>c. Physical access to the medium is controlled by the agency using the requirements in Sections 5.9.1 and 5.12.</p> <p>d. Protection includes safeguards (e.g., acoustic, electric, electromagnetic, and physical) and if feasible countermeasures (e.g., alarms, notifications) to permit its use for the transmission of unencrypted information through an area of lesser classification or control.</p> <p>e. With prior approval of the CSO.</p> <p>Examples:</p> <ul style="list-style-type: none">• A campus is completely owned and controlled by a criminal justice agency (CIA) – If line-of-sight between buildings exists where a cable is buried, encryption is not required.• A multi-story building is completely owned and controlled by a CIA – If floors are physically secure or cable runs through non-secure areas are protected, encryption is not required.• A multi-story building is occupied by a mix of CIAs and non-CIAs – If floors are physically secure or cable runs through the non-secure areas are protected	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
5.10.1.2.2	Encryption for CJI at Rest	<p>When CJI 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 CJI in accordance with the standard in Section 5.10.1.2.1 above, or use a symmetric cipher that is FIPS 197 certified (AES) and at least 256 bit strength.</p> <p>1. When agencies implement encryption on CJI at rest, the passphrase used to unlock the cipher shall meet the following requirements:</p> <p>a. Be at least 10 characters</p> <p>b. Not be a dictionary word.</p> <p>c. Include at least one (1) upper case letter, one (1) lower case letter, one (1) number, and one (1) special character.</p> <p>d. Be changed when previously authorized personnel no longer require access.</p> <p>2. Multiple files maintained in the same unencrypted folder shall have separate and distinct passphrases. A single passphrase may be used to encrypt an entire folder or disk containing multiple files. All audit requirements found in Section 5.4.1 Auditable Events and Content (Information Systems) shall be applied.</p> <p>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.</p>	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	<p>For agencies using public key infrastructure (PKI) 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:</p> <p>1. Include authorization by a supervisor or a responsible official.</p> <p>2. Be accomplished by a secure process that verifies the identity of the certificate holder.</p> <p>3. Ensure the certificate is issued to the intended party.</p>	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	
5.10.1.3	Voice over Internet Protocol	<p>Voice over Internet Protocol (VoIP) has been embraced by organizations globally as an addition to, or replacement for, public switched telephone network (PSTN) and private branch exchange (PBX) telephone systems. The immediate benefits are lower costs than traditional telephone services and VoIP can be installed in-line with an organization's existing Internet Protocol (IP) services. Among VoIP's risks that have to be considered carefully are: myriad security concerns, cost issues associated with new networking hardware requirements, and overarching quality of service (QoS) factors.</p> <p>In addition to the security controls described in this document, the following additional controls shall be implemented when an agency deploys VoIP within a network that contains unencrypted CJI:</p> <p>1. Establish usage restrictions and implementation guidance for VoIP technologies.</p> <p>2. Change the default administrative password on the IP phones and VoIP switches.</p> <p>3. Utilize Virtual Local Area Network (VLAN) technology to segment VoIP traffic from data traffic.</p> <p>Appendix G.2 outlines threats, vulnerabilities, mitigations, and NIST best practices for VoIP.</p>	Functional	intersects with	Host Intrusion Detection and Prevention Systems (HIDS / HIPS)	END-07	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	Voice over Internet Protocol	<p>Voice over Internet Protocol (VoIP) has been embraced by organizations globally as an addition to, or replacement for, public switched telephone network (PSTN) and private branch exchange (PBX) telephone systems. The immediate benefits are lower costs than traditional telephone services and VoIP can be installed in-line with an organization's existing Internet Protocol (IP) services. Among VoIP's risks that have to be considered carefully are: myriad security concerns, cost issues associated with new networking hardware requirements, and overarching quality of service (QoS) factors.</p> <p>In addition to the security controls described in this document, the following additional controls shall be implemented when an agency deploys VoIP within a network that contains unencrypted CJI:</p> <p>1. Establish usage restrictions and implementation guidance for VoIP technologies.</p> <p>2. Change the default administrative password on the IP phones and VoIP switches.</p> <p>3. Utilize Virtual Local Area Network (VLAN) technology to segment VoIP traffic from data traffic.</p> <p>Appendix G.2 outlines threats, vulnerabilities, mitigations, and NIST best practices for VoIP.</p>	Functional	intersects with	Intrusion Detection & Prevention Systems (IDS & IPS)	MON-01.1	Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points.	5	
5.10.1.3	Voice over Internet Protocol	<p>Voice over Internet Protocol (VoIP) has been embraced by organizations globally as an addition to, or replacement for, public switched telephone network (PSTN) and private branch exchange (PBX) telephone systems. The immediate benefits are lower costs than traditional telephone services and VoIP can be installed in-line with an organization's existing Internet Protocol (IP) services. Among VoIP's risks that have to be considered carefully are: myriad security concerns, cost issues associated with new networking hardware requirements, and overarching quality of service (QoS) factors.</p> <p>In addition to the security controls described in this document, the following additional controls shall be implemented when an agency deploys VoIP within a network that contains unencrypted CJI:</p> <p>1. Establish usage restrictions and implementation guidance for VoIP technologies.</p> <p>2. Change the default administrative password on the IP phones and VoIP switches.</p> <p>3. Utilize Virtual Local Area Network (VLAN) technology to segment VoIP traffic from data traffic.</p> <p>Appendix G.2 outlines threats, vulnerabilities, mitigations, and NIST best practices for VoIP.</p>	Functional	intersects with	Network Intrusion Detection / Prevention Systems (NIDS / NIPS)	NET-08	Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.	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)
5.10.1.3	Voice over Internet Protocol	Voice over Internet Protocol (VoIP) has been embraced by organizations globally as an addition to, or replacement for, public switched telephone network (PSTN) and private branch exchange (PBX) telephone systems. The immediate benefits are lower costs than traditional telephone services and VoIP can be installed in-line with an organization's existing Internet Protocol (IP) services. Among VoIP's risks that have to be considered carefully are: myriad security concerns, cost 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 additional controls shall be implemented when an agency deploys VoIP within a network that contains unencrypted CJI: 1. Establish usage restrictions and implementation guidance for VoIP technologies. 2. Change the default administrative password on the IP phones and VoIP switches. 3. Utilize Virtual Local Area Network (VLAN) technology to segment VoIP traffic from data traffic. Appendix G.2 outlines threats, vulnerabilities, mitigations, and NIST best practices for VoIP.	Functional	intersects with	Wireless Intrusion Detection / Prevention Systems (WIDS / WIPS)	NET-08.2	Mechanisms exist to monitor wireless network segments to implement Wireless Intrusion Detection / Prevention Systems (WIDS/WIPS) technologies.	5	
5.10.1.4	Cloud Computing	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 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 will enable organizations to make informed decisions on whether or not the cloud provider can offer service that maintains compliance with the requirements of the CJS Security Policy. The storage of CJI, regardless of encryption status, shall only be permitted in cloud environments (e.g., government or third-party/commercial datacenters, etc.) which reside within the physical boundaries of APB-member country (i.e., U.S., U.S. territories, Indian Tribes, and Canada) and legal authority of an APB-member agency (i.e., U.S. – federal/state/territory, Indian Tribe, or the Royal Canadian Mounted Police (RCMP)). Note: This restriction does not apply to exchanges of CJI with foreign government agencies under international exchange agreements (i.e., the Preventing and Combating Serious Crime (PCSC) agreements, fugitive extracts, and exchanges made for humanitarian and criminal investigatory purposes in particular circumstances). Metadata derived from unencrypted CJI shall be protected in the same manner as CJI and shall not be used for any advertising or other commercial purposes by any cloud service provider or other associated entity. The agency may permit limited use of metadata derived from unencrypted CJI when specifically approved by the agency and its "intended use" is detailed within the service agreement. Such authorized uses of metadata may include, but are not limited to the following: spam and spyware filtering, data loss prevention, spillage reporting, transaction logs (events and content – similar to Section 5.4), data retention/expiration, and data archival/backup data.	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	
5.10.1.4	Cloud Computing	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 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 will enable organizations to make informed decisions on whether or not the cloud provider can offer service that maintains compliance with the requirements of the CJS Security Policy. The storage of CJI, regardless of encryption status, shall only be permitted in cloud environments (e.g., government or third-party/commercial datacenters, etc.) which reside within the physical boundaries of APB-member country (i.e., U.S., U.S. territories, Indian Tribes, and Canada) and legal authority of an APB-member agency (i.e., U.S. – federal/state/territory, Indian Tribe, or the Royal Canadian Mounted Police (RCMP)). Note: This restriction does not apply to exchanges of CJI with foreign government agencies under international exchange agreements (i.e., the Preventing and Combating Serious Crime (PCSC) agreements, fugitive extracts, and exchanges made for humanitarian and criminal investigatory purposes in particular circumstances). Metadata derived from unencrypted CJI shall be protected in the same manner as CJI and shall not be used for any advertising or other commercial purposes by any cloud service provider or other associated entity. The agency may permit limited use of metadata derived from unencrypted CJI when specifically approved by the agency and its "intended use" is detailed within the service agreement. Such authorized uses of metadata may include, but are not limited to the following: spam and spyware filtering, data loss prevention, spillage reporting, transaction logs (events and content – similar to Section 5.4), data retention/expiration, and data archival/backup data.	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	CJI transmitted via a single or multi-function device over a standard telephone line is exempt from encryption requirements. CJI transmitted external to a physically secure location using a facsimile server, application or service which implements secure-like technology, shall meet the encryption requirements for CJI 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	
5.10.3	Partitioning and Virtualization	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 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 processing and federated information sources now available across the Internet.	Functional	intersects with	Virtual Machine Images	CLD-05	Mechanisms exist to ensure the integrity of virtual machine images at all times.	5	
5.10.3	Partitioning and Virtualization	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 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 processing and federated information sources now available across the Internet.	Functional	intersects with	Standardized Virtualization Formats	CLD-08	Mechanisms exist to ensure interoperability by requiring cloud providers to use industry-recognized formats and provide documentation of custom changes for review.	5	
5.10.3	Partitioning and Virtualization	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 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 processing and federated information sources now available across the Internet.	Functional	intersects with	Virtualization Techniques	SEA-13.1	Mechanisms exist to utilize virtualization techniques to support the employment of a diversity of operating systems and applications.	5	
5.10.3.1	Partitioning	The application, service, or information system shall separate user functionality (including user interface services) from information system management functionality. The application, service, or information system shall physically or logically separate user interface services (e.g., public web pages) from information storage and management services (e.g., database management). Separation may be accomplished through the use of one or more of the following: 1. Different computers. 2. Different central processing units. 3. Different instances of the operating system. 4. Different network addresses. 5. Other methods approved by the FBI CJS ISO.	Functional	intersects with	System Partitioning	SEA-03.1	Mechanisms exist to partition systems so that partitions reside in separate physical domains or environments.	5	
5.10.3.1	Partitioning	The application, service, or information system shall separate user functionality (including user interface services) from information system management functionality. The application, service, or information system shall physically or logically separate user interface services (e.g., public web pages) from information storage and management services (e.g., database management). Separation may be accomplished through the use of one or more of the following: 1. Different computers. 2. Different central processing units. 3. Different instances of the operating system. 4. Different network addresses. 5. Other methods approved by the FBI CJS ISO.	Functional	intersects with	Application Partitioning	SEA-03.2	Mechanisms exist to separate user functionality from system management functionality.	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)
5.10.3.2	Virtualization	Virtualization refers to a methodology of dividing the resources of a computer (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 following additional controls shall be implemented in a virtual environment: 1. Isolate the host from the virtual machine. In other words, virtual machine users cannot access host files, firmware, etc. 2. Maintain audit logs for all virtual machines and hosts and store the logs outside the hosts' virtual environment. 3. Virtual Machines that are Internet facing (web servers, portal servers, etc.) shall be physically separate from Virtual Machines (VMs) that process CJII internally or be separated by a virtual firewall. 4. Drivers that serve critical functions shall be stored within the specific VM they service. In other words, do not store these drivers within the hypervisor, or host operating system, for sharing. Each VM is to be treated as an independent system – secured as independently as possible. The following additional technical security controls shall be applied in virtual environments where CII is comingled with non-CII: 1. Encrypt CII when stored in a virtualized environment where CII is comingled with non-CII or segregate and store unencrypted CII within its own secure VM. 2. Encrypt network traffic within the virtual environment. The following are additional technical security control best practices and should be implemented wherever feasible: 1. Implement IDS and/or IPS monitoring within the virtual environment. 2. Virtually or physically firewall each VM within the virtual environment to ensure that only allowed protocols will transact. 3. Segregate the administrative duties for the host. Appendix G-1 provides some reference and additional background information on virtualization.	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	
5.10.3.2	Virtualization	Virtualization refers to a methodology of dividing the resources of a computer (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 following additional controls shall be implemented in a virtual environment: 1. Isolate the host from the virtual machine. In other words, virtual machine users cannot access host files, firmware, etc. 2. Maintain audit logs for all virtual machines and hosts and store the logs outside the hosts' virtual environment. 3. Virtual Machines that are Internet facing (web servers, portal servers, etc.) shall be physically separate from Virtual Machines (VMs) that process CII internally or be separated by a virtual firewall. 4. Drivers that serve critical functions shall be stored within the specific VM they service. In other words, do not store these drivers within the hypervisor, or host operating system, for sharing. Each VM is to be treated as an independent system – secured as independently as possible. The following additional technical security controls shall be applied in virtual environments where CII is comingled with non-CII: 1. Encrypt CII when stored in a virtualized environment where CII is comingled with non-CII or segregate and store unencrypted CII within its own secure VM. 2. Encrypt network traffic within the virtual environment. The following are additional technical security control best practices and should be implemented wherever feasible: 1. Implement IDS and/or IPS monitoring within the virtual environment. 2. Virtually or physically firewall each VM within the virtual environment to ensure that only allowed protocols will transact. 3. Segregate the administrative duties for the host. Appendix G-1 provides some reference and additional background information on virtualization.	Functional	intersects with	Virtualization Techniques	SEA-13.1	Mechanisms exist to utilize virtualization techniques to support the employment of a diversity of operating systems and applications.	5	
5.11	Policy Area 11: Formal Audits	Formal audits are conducted to ensure compliance with applicable statutes, regulations and policies.	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	Audits by the FBI CJIS Division	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.11.1.1	Triennial Compliance Audits by the FBI CJIS Division	The FBI CJIS 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 CJIS Audit Unit (CAU) shall conduct a triennial audit of each CSA in order to verify compliance with applicable statutes, regulations and policies. This audit shall include a sample of CIAs and, in coordination with the SIB, the NCJAs. 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 CJIS 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 CJIS Division is authorized to conduct security audits of the CSA and SIB networks and systems, once every three (3) years as a minimum, to assess agency compliance with the CJIS Security Policy. This audit shall include a sample of CIAs and NCJAs. Audits may be conducted on a more frequent basis if the audit reveals that an agency has not complied with the CJIS Security Policy.	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 shall: 1. At a minimum, triennially audit all CIAs and NCJAs 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 NCJAs, 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 provide the results of the previous audit unless otherwise notified by the 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 Outsourcing 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 CJIS 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	
5.11.4	Compliance Subcommittees	The Criminal Justice Information Services (CJIS) Advisory Policy Board (APB) established the Compliance Evaluation Subcommittee (CES) to evaluate the results of audits conducted by the CJIS Audit Unit (CAU). 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 within the purview of the CES and detailed CES sanctions process procedures are available at CJIS.gov (Law Enforcement Enterprise Portal) CJIS Special Interest Groups: CES Section and CJIS Section of FBI.gov. The National Crime Prevention and Privacy Compact (Compact) Council at Article VI established the Compact Council (Council). The Compact Council Sanctions Committee is responsible for ensuring the use of the Interstate Identification Index System for noncriminal justice purposes complies with the Compact and with rules, standards, and procedures established by the Compact Council. As such, the Sanctions Committee reviews the results of audits conducted by the Federal Bureau of Investigation (FBI) of participants in the FBI's Criminal Justice Services (CJIS) Division programs. The Sanctions Committee reviews the audit results and the participant's response to determine a course of action necessary to bring the participant into compliance and make recommendations to the Compact Council or the FBI. Additional information on the Compact Council Sanctions process is available on the Compact Council's web-site.	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 CJIS Security Policy. This section's security terms and requirements apply to all personnel who have unescorted access to unencrypted CII. Regardless of the implementation model – physical data center, virtual cloud solution, or a hybrid model – unescorted access to unencrypted CII 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 CII.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.

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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 (optional)	Notes (optional)
5.13.1.2.1	Cellular Service Abroad	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 certain parameters configured by the cellular provider which is considered a "trusted" entity by the device. When devices are authorized to access CII outside the U.S., agencies shall perform an inspection to ensure that all controls 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	Voice Transmissions Over Cellular Devices	Any cellular device used to transmit CII via voice is exempt from the encryption and authentication requirements.	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	
5.13.1.2.2	Voice Transmissions Over Cellular Devices	Any cellular device used to transmit CII via voice is exempt from the encryption 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, medical devices, printers, keyboards, mice, headsets, and biometric capture devices. Bluetooth technology and associated devices are susceptible to general wireless networking threats (e.g., denial of service [DoS] attacks, eavesdropping, man-in-the-middle [MITM] attacks, message modification, and resource misappropriation) as well as specific Bluetooth-related attacks that target known vulnerabilities in Bluetooth implementations and specifications. Organizational security policy shall be used to dictate the use of Bluetooth and its associated devices based on the agency's operational and business processes.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	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, medical devices, printers, keyboards, mice, headsets, and biometric capture devices. Bluetooth technology and associated devices are susceptible to general wireless networking threats (e.g., denial of service [DoS] attacks, eavesdropping, man-in-the-middle [MITM] attacks, message modification, and resource misappropriation) as well as specific Bluetooth-related attacks that target known vulnerabilities in Bluetooth implementations and specifications. Organizational security policy shall be used to dictate the use of Bluetooth and its associated devices based on the agency's operational and business processes.	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.1.4	Mobile Hotspots	Many mobile devices include the capability to function as a Wi-Fi hotspot that 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 CII to function as a Wi-Fi hotspot connecting to the internet, they shall be configured: 1. Enable encryption on the hotspot 2. Change the hotspot's default SSID a. Ensure the hotspot SSID does not identify the device make/model or agency ownership 3. Create a wireless network password (pre-shared key) 4. Enable the hotspot's port filtering/blocking features if present 5. Only allow connections from agency-controlled devices Note: Refer to the requirements in Section 5.10.1.2 Encryption for item #1. Refer to the requirements in Section 5.6.2.1.1.1 Basic Password Standards for item #3. Only password attributes #1, #2 and #3 are required. OR 1. Have a MDM solution to provide the same security as identified in items 1 – 5 above.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
5.13.1.4	Mobile Hotspots	Many mobile devices include the capability to function as a Wi-Fi hotspot that 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 CII to function as a Wi-Fi hotspot connecting to the internet, they shall be configured: 1. Enable encryption on the hotspot 2. Change the hotspot's default SSID a. Ensure the hotspot SSID does not identify the device make/model or agency ownership 3. Create a wireless network password (pre-shared key) 4. Enable the hotspot's port filtering/blocking features if present 5. Only allow connections from agency-controlled devices Note: Refer to the requirements in Section 5.10.1.2 Encryption for item #1. Refer to the requirements in Section 5.6.2.1.1.1 Basic Password Standards for item #3. Only password attributes #1, #2 and #3 are required. OR 1. Have a MDM solution to provide the same security as identified in items 1 – 5 above.	Functional	intersects with	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.2	Mobile Device Management (MDM)	Mobile Device Management (MDM) facilitates the implementation of sound security controls for mobile devices and allows for centralized oversight of configuration control, application usage, and device protection and recovery, if so 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-featured operating systems may not function properly on devices with limited-feature operating systems. MDM systems and applications coupled with device specific technical policy can provide a robust method for device configuration management if properly implemented. Devices that have had any unauthorized changes made to them (including but not limited to being rooted or jailbroken) shall not be used to process, store, or transmit CII data at any time. User agencies shall implement the following controls when directly accessing CII from devices running a limited-feature operating system: 1. Ensure that CII is only transferred between CII authorized applications and storage areas of the device. 2. MDM with centralized administration configured and implemented to perform at least the following controls: a. Remote locking of device b. Remote wiping of device c. Setting and locking device configuration d. Detection of "rooted" and "jailbroken" devices e. Enforcement of folder or disk level encryption f. Application of mandatory policy settings on the device g. Detection of unauthorized configurations h. Detection of unauthorized software or applications i. Ability to determine the location of agency-controlled devices j. Prevention of unpatched devices from accessing CII or CII systems k. Automatic device wiping after a specified number of failed access attempts EXCEPTION: An MDM is not required when receiving CII from an indirect access	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	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)
5.13.2	Mobile Device Management (MDM)	<p>Mobile Device Management (MDM) facilitates the implementation of sound security controls for mobile devices and allows for centralized oversight of configuration control, application usage, and device protection and recovery, if so desired by the agency.</p> <p>Due to the potential for inconsistent network access or monitoring capability on mobile devices, methods used to monitor and manage the configuration of full-featured operating systems may not function properly on devices with limited-feature operating systems. MDM systems and applications coupled with device specific technical policy can provide a robust method for device configuration management if properly implemented.</p> <p>Devices that have had any unauthorized changes made to them (including but not limited to being rooted or jailbroken) shall not be used to process, store, or transmit CJI data at any time. User agencies shall implement the following controls when directly accessing CJI from devices running a limited-feature operating system:</p> <ol style="list-style-type: none">1. Ensure that CJI is only transferred between CJI authorized applications and storage areas of the device.2. MDM with centralized administration configured and implemented to perform at least the following controls:<ol style="list-style-type: none">a. Remote locking of deviceb. Remote wiping of devicec. Setting and locking device configurationd. Detection of "rooted" and "jailbroken" devicese. Enforcement of folder or disk level encryptionf. Application of mandatory policy settings on the deviceg. Detection of unauthorized configurationsh. Detection of unauthorized software or applicationsi. Ability to determine the location of agency-controlled devicesj. Prevention of unpatched devices from accessing CJI or CJI systemsk. Automatic device wiping after a specified number of failed access attempts <p>EXCEPTION: An MDM is not required when receiving CJI from an indirect access.</p>	Functional	Intersects with	Access Control For Mobile Devices	HDM-02	<p>Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.</p>	5	
5.13.2	Mobile Device Management (MDM)	<p>Mobile Device Management (MDM) facilitates the implementation of sound security controls for mobile devices and allows for centralized oversight of configuration control, application usage, and device protection and recovery, if so desired by the agency.</p> <p>Due to the potential for inconsistent network access or monitoring capability on mobile devices, methods used to monitor and manage the configuration of full-featured operating systems may not function properly on devices with limited-feature operating systems. MDM systems and applications coupled with device specific technical policy can provide a robust method for device configuration management if properly implemented.</p> <p>Devices that have had any unauthorized changes made to them (including but not limited to being rooted or jailbroken) shall not be used to process, store, or transmit CJI data at any time. User agencies shall implement the following controls when directly accessing CJI from devices running a limited-feature operating system:</p> <ol style="list-style-type: none">1. Ensure that CJI is only transferred between CJI authorized applications and storage areas of the device.2. MDM with centralized administration configured and implemented to perform at least the following controls:<ol style="list-style-type: none">a. Remote locking of deviceb. Remote wiping of devicec. Setting and locking device configurationd. Detection of "rooted" and "jailbroken" devicese. Enforcement of folder or disk level encryptionf. Application of mandatory policy settings on the deviceg. Detection of unauthorized configurationsh. Detection of unauthorized software or applicationsi. Ability to determine the location of agency-controlled devicesj. Prevention of unpatched devices from accessing CJI or CJI systemsk. Automatic device wiping after a specified number of failed access attempts <p>EXCEPTION: An MDM is not required when receiving CJI from an indirect access.</p>	Functional	Intersects with	Full Device & Container-Based Encryption	HDM-03	<p>Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption.</p>	5	
5.13.2	Mobile Device Management (MDM)	<p>Mobile Device Management (MDM) facilitates the implementation of sound security controls for mobile devices and allows for centralized oversight of configuration control, application usage, and device protection and recovery, if so desired by the agency.</p> <p>Due to the potential for inconsistent network access or monitoring capability on mobile devices, methods used to monitor and manage the configuration of full-featured operating systems may not function properly on devices with limited-feature operating systems. MDM systems and applications coupled with device specific technical policy can provide a robust method for device configuration management if properly implemented.</p> <p>Devices that have had any unauthorized changes made to them (including but not limited to being rooted or jailbroken) shall not be used to process, store, or transmit CJI data at any time. User agencies shall implement the following controls when directly accessing CJI from devices running a limited-feature operating system:</p> <ol style="list-style-type: none">1. Ensure that CJI is only transferred between CJI authorized applications and storage areas of the device.2. MDM with centralized administration configured and implemented to perform at least the following controls:<ol style="list-style-type: none">a. Remote locking of deviceb. Remote wiping of devicec. Setting and locking device configurationd. Detection of "rooted" and "jailbroken" devicese. Enforcement of folder or disk level encryptionf. Application of mandatory policy settings on the deviceg. Detection of unauthorized configurationsh. Detection of unauthorized software or applicationsi. Ability to determine the location of agency-controlled devicesj. Prevention of unpatched devices from accessing CJI or CJI systemsk. Automatic device wiping after a specified number of failed access attempts <p>EXCEPTION: An MDM is not required when receiving CJI from an indirect access.</p>	Functional	Intersects with	Remote Purging	HDM-05	<p>Mechanisms exist to remotely purge selected information from mobile devices.</p>	5	
5.13.3	Wireless Device Risk Mitigations	<p>Organizations shall, at a minimum, ensure that wireless devices:</p> <ol style="list-style-type: none">1. 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 5.10.4.1.2. Are configured for local device authentication (see Section 5.13.7.1).3. Use advanced authentication or CSO approved compensating controls as per Section 5.13.7.2.1.4. Encrypt all CJI resident on the device.5. Erase cached information, to include authenticators (see Section 5.6.2.1) in applications, when session is terminated.6. Employ personal firewalls on full-featured operating system devices or run a Mobile Device Management (MDM) system that facilitates the ability to provide firewall services from the agency level.7. Employ malicious code protection on full-featured operating system devices or run a MDM system that facilitates the ability to provide anti-malware services from the agency level.	Functional	Intersects with	Endpoint Protection Measures	END-02	<p>Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices.</p>	5	
5.13.3	Wireless Device Risk Mitigations	<p>Organizations shall, at a minimum, ensure that wireless devices:</p> <ol style="list-style-type: none">1. 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 5.10.4.1.2. Are configured for local device authentication (see Section 5.13.7.1).3. Use advanced authentication or CSO approved compensating controls as per Section 5.13.7.2.1.4. Encrypt all CJI resident on the device.5. Erase cached information, to include authenticators (see Section 5.6.2.1) in applications, when session is terminated.6. Employ personal firewalls on full-featured operating system devices or run a Mobile Device Management (MDM) system that facilitates the ability to provide firewall services from the agency level.7. Employ malicious code protection on full-featured operating system devices or run a MDM system that facilitates the ability to provide anti-malware services from the agency level.	Functional	Intersects with	Centralized Management Of Mobile Devices	MDM-01	<p>Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.</p>	5	
5.13.4	System Integrity	<p>Managing system integrity on limited function mobile operating systems may require methods and technologies significantly different from traditional full-featured operating systems. In many cases, the requirements of Section 5.10 of the CJIS Security Policy cannot be met with a mobile device without the installation of a third-party MDM, application, or supporting service infrastructure.</p>	Functional	Intersects with	Endpoint Protection Measures	END-02	<p>Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices.</p>	5	
5.13.4	System Integrity	<p>Managing system integrity on limited function mobile operating systems may require methods and technologies significantly different from traditional full-featured operating systems. In many cases, the requirements of Section 5.10 of the CJIS Security Policy cannot be met with a mobile device without the installation of a third-party MDM, application, or supporting service infrastructure.</p>	Functional	Intersects with	Centralized Management Of Mobile Devices	MDM-01	<p>Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.</p>	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)
5.13.4.1	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	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. Agencies that allow smartphones and tablets to access CJI shall have a process to approve the use of specific software or applications on the devices. Any device natively capable of performing these functions without a MDM solution is acceptable under this section.	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 traffic to and from a user device, permitting or denying communications based on policy. A personal firewall shall be employed on all mobile devices that have a full-feature operating system (i.e., laptops or tablets with Windows or Linux/Unix operating systems). At a minimum, the personal firewall shall perform the following activities: 1. Manage program access to the Internet. 2. Block unsolicited requests to connect to the user device. 3. Filter incoming traffic by IP address or protocol. 4. Filter incoming traffic by destination ports. 5. Maintain an IP traffic log. Mobile devices with limited-feature operating systems (i.e., tablets, smartphones) may not support a personal firewall. However, these operating systems have a limited number of system services installed, carefully controlled network access, and to a certain extent, perform functions similar to a personal firewall on a device with a full-feature operating system. Appropriately configured MDM software is capable of controlling which applications are allowed on the device.	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 5.3 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 significantly mitigate the risks associated with illicit data access either on the device itself or within online data resources associated with the 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 known to be locked, minimal duration of loss b. Device lock state unknown, minimal duration of loss c. Device lock state unknown, extended duration of loss d. Device known to be unlocked, more than momentary duration of loss 2. Total loss of device 3. Device compromise 4. Device loss or compromise outside the United States	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 Authentication	Due to the technical methods used for identification and authentication on many limited-feature mobile operating systems, achieving compliance may require many different components.	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	Identification and Authentication	Due to the technical methods used for identification and authentication on many limited-feature mobile operating systems, achieving compliance may require many different components.	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	
5.13.7.1	Local Device Authentication	When mobile devices are authorized for use in accessing CJI, 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	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.7.1	Local Device Authentication	When mobile devices are authorized for use in accessing CJI, 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	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
5.13.7.2	Advanced Authentication	When accessing CJI from an authorized mobile device, advanced authentication 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	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	5	
5.13.7.2	Advanced Authentication	When accessing CJI from an authorized mobile device, advanced authentication 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	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
5.13.7.2.1	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, Mobile Device Management (MDM) shall be implemented per Section 5.13.2. The compensating controls shall: 1. Meet the intent of the CJIS Security Policy 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 4. Expire upon 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. The 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 - Use of device certificates per Section 5.13.7.3 Device Certificates - Implemented CJIS Security Policy compliant standard authenticator protection on the secure location where CJI 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 itself can authenticate to a system supplying CJI, 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	MAINTENANCE	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.

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)
AC-1	POLICY AND PROCEDURES	a. Develop, document, and disseminate to: organizational personnel with access control responsibilities 1. Agency-level access control policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, 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 access control policy and the associated access controls; b. 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 CJI or systems used to process, store, or transmit CJI; and 2. Procedures annually and following any security incidents involving unauthorized access to CJI or systems used to process, store, or transmit CJI. a. Define and document the types of accounts allowed and specifically prohibited for use within the system; b. Assign account managers; c. Require conditions for group and role membership; d. Specify: 1. Authorized users of the system; 2. Group and role membership; and 3. Access authorizations (i.e., privileges) and attributes listed for each account; Attribute Name Email Address Text Employer Name Federation Id Given Name Identity Provider Id Sur Name Telephone Number Identity Provider Id Unique Subject Id Counter Terrorism Data Self Search Home Privilege Indicator Criminal History Data Self Search Home Privilege Indicator Criminal Intelligence Data Self Search Home Privilege Indicator Criminal Investigative Data Self Search Home Privilege Indicator Display Name Government Data Self Search Home Privilege Indicator Local Id NCIC Certification Indicator N-DEX Privilege Indicator PCIII Certification Indicator 28 CFR Certification Indicator Employer ORN	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
AC-2	ACCOUNT MANAGEMENT	a. Define and document the types of accounts allowed and specifically prohibited for use within the system; b. Assign account managers; c. Require conditions for group and role membership; d. Specify: 1. Authorized users of the system; 2. Group and role membership; and 3. Access authorizations (i.e., privileges) and attributes listed for each account; Attribute Name Email Address Text Employer Name Federation Id Given Name Identity Provider Id Sur Name Telephone Number Identity Provider Id Unique Subject Id Counter Terrorism Data Self Search Home Privilege Indicator Criminal History Data Self Search Home Privilege Indicator Criminal Intelligence Data Self Search Home Privilege Indicator Criminal Investigative Data Self Search Home Privilege Indicator Display Name Government Data Self Search Home Privilege Indicator Local Id NCIC Certification Indicator N-DEX Privilege Indicator PCIII Certification Indicator 28 CFR Certification Indicator Employer ORN	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	a. Define and document the types of accounts allowed and specifically prohibited for use within the system; b. Assign account managers; c. Require conditions for group and role membership; d. Specify: 1. Authorized users of the system; 2. Group and role membership; and 3. Access authorizations (i.e., privileges) and attributes listed for each account; Attribute Name Email Address Text Employer Name Federation Id Given Name Identity Provider Id Sur Name Telephone Number Identity Provider Id Unique Subject Id Counter Terrorism Data Self Search Home Privilege Indicator Criminal History Data Self Search Home Privilege Indicator Criminal Intelligence Data Self Search Home Privilege Indicator Criminal Investigative Data Self Search Home Privilege Indicator Display Name Government Data Self Search Home Privilege Indicator Local Id NCIC Certification Indicator N-DEX Privilege Indicator PCIII Certification Indicator 28 CFR Certification Indicator Employer ORN	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	a. Define and document the types of accounts allowed and specifically prohibited for use within the system; b. Assign account managers; c. Require conditions for group and role membership; d. Specify: 1. Authorized users of the system; 2. Group and role membership; and 3. Access authorizations (i.e., privileges) and attributes listed for each account; Attribute Name Email Address Text Employer Name Federation Id Given Name Identity Provider Id Sur Name Telephone Number Identity Provider Id Unique Subject Id Counter Terrorism Data Self Search Home Privilege Indicator Criminal History Data Self Search Home Privilege Indicator Criminal Intelligence Data Self Search Home Privilege Indicator Criminal Investigative Data Self Search Home Privilege Indicator Display Name Government Data Self Search Home Privilege Indicator Local Id NCIC Certification Indicator N-DEX Privilege Indicator PCIII Certification Indicator 28 CFR Certification Indicator Employer ORN	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	

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)
AC-2	ACCOUNT MANAGEMENT	a. Define and document the types of accounts allowed and specifically prohibited for use within the system; b. Assign account managers; c. Require conditions for group and role membership; d. Specify: 1. Authorized users of the system; 2. Group and role membership; and 3. Access authorizations (i.e., privileges) and attributes listed for each account; Attribute Name Email Address Text Employer Name Federation Id Given Name Identity Provider Id Sur Name Telephone Number Identity Provider Id Unique Subject Id Counter Terrorism Data Self Search Home Privilege Indicator Criminal History Data Self Search Home Privilege Indicator Criminal Intelligence Data Self Search Home Privilege Indicator Criminal Investigative Data Self Search Home Privilege Indicator Display Name Government Data Self Search Home Privilege Indicator Local Id NCIC Certification Indicator N-DEX Privilege Indicator PCIII Certification Indicator 28 CFR Certification Indicator Employer FBI	Functional	intersects with	Input Data Validation	TDA-18	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(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 (d) Have been inactive for 90 calendar days.	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	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	
AC-2(13)	ACCOUNT MANAGEMENT DISABLE ACCOUNTS FOR HIGH-RISK INDIVIDUALS	Disable accounts of individuals within 30 minutes of discovery of direct threats to the confidentiality, integrity, or availability of CII.	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	
AC-2(13)	ACCOUNT MANAGEMENT DISABLE ACCOUNTS FOR HIGH-RISK INDIVIDUALS	Disable accounts of individuals within 30 minutes of discovery of direct threats to the confidentiality, integrity, or availability of CII.	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-3	ACCESS ENFORCEMENT	Enforce approved authorizations for logical access to information and system resources in accordance with applicable access control policies.	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 mechanisms exist to implement strong cryptography and security protocols to safeguard sensitive/regulated data during transmission over open, public networks.	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	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	5	
AC-3(14)	ACCESS ENFORCEMENT INDIVIDUAL ACCESS	Provide automated or manual processes to enable individuals to have access to elements of their personally identifiable information.	Functional	equal	Data Subject Empowerment	PRI-06	Mechanisms exist to provide authenticated data subjects the ability to: (1) Access their Personal Data (PD) that is being processed, stored and shared, except where the burden, risk or expense of providing access would be disproportionate to the benefit offered to the data subject through granting access; (2) Obtain answers on the specifics of how their PD is collected, received, processed, stored, transmitted, shared, updated and disposed; (3) Obtain the source(s) of their PD; (4) Obtain the categories of their PD being collected, received, processed, stored and shared; (5) Request correction to their PD due to inaccuracies; (6) Request erasure of their PD; and (7) Restrict the further collecting, receiving, processing, storing, transmitting, updating and/or sharing of their PD.	10	
AC-4	INFORMATION FLOW ENFORCEMENT	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 that are not from the agency-controlled or internal boundary protection devices (e.g., proxies, gateways, firewalls, or routers).	Functional	equal	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.	10	
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 b. Define system access authorizations to support separation of duties.	Functional	intersects with	Dual Authorization for Change	CHG-04.3	Mechanisms exist to enforce a two-person rule for implementing changes to critical assets.	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 b. Define system access authorizations to support separation of duties.	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.	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 b. Define system access authorizations to support separation of duties.	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	
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 b. Define system access authorizations to support separation of duties.	Functional	intersects with	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	5	
AC-6	LEAST PRIVILEGE	Employ the principle of least privilege, allowing only authorized accesses for users (or processes acting on behalf of users) that are necessary to accomplish assigned organizational tasks.	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	Employ the principle of least privilege, allowing only authorized accesses for 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 organizational business functions.	5	
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 (e.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(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.	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)	LEAST PRIVILEGE REVIEW OF USER PRIVILEGES	a. Review annually the privileges assigned to non-privileged and privileged users to validate the need for such privileges; and 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	

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)
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-7	UNSUCCESSFUL LOGON ATTEMPTS	a. Enforce a limit of five (5) consecutive invalid logon attempts by a user during a 15-minute time period; and b. 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, policies, 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 criminal and civil penalties; 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; and c. For publicly accessible systems: 1. Display system use information consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines, before granting further access to the publicly accessible system; 2. Display references, if any, to monitoring, recording, or auditing that are consistent with privacy accommodations for such 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 utilize 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. Prevent 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. NOTE: 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 b. Document and provide supporting rationale in 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	a. Establish and document usage restrictions, configuration/connection requirements, and implementation guidance for each type of remote access allowed; and b. 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	a. 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 connections.	Functional	intersects with	Wireless Access Authentication & Encryption	CRY-07	Mechanisms exist to protect the confidentiality and integrity of wireless networking technologies by implementing authentication and strong encryption.	5	
AC-18	WIRELESS ACCESS	a. 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 connections.	Functional	intersects with	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	5	
AC-18(1)	WIRELESS ACCESS AUTHENTICATION AND ENCRYPTION	Protect wireless access to the system using authentication of authorized users and agency-controlled devices, and encryption.	Functional	equal	Authentication & Encryption	NET-15.1	Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data.	10	
AC-18(3)	WIRELESS ACCESS DISABLE WIRELESS NETWORKING	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	a. Establish configuration requirements, connection requirements, and implementation guidance for organization-controlled mobile devices, to include when such devices are outside of controlled areas; and b. Authorize the connection of mobile devices to organizational systems.	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	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 CJI.	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 CJI.	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)	USE OF EXTERNAL SYSTEMS LIMITS ON AUTHORIZED USE	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 policies 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: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	10	
AC-20(2)	USE OF EXTERNAL SYSTEMS PORTABLE STORAGE DEVICES—RESTRICTED USE	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	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 agreements.	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	
AC-21	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 agreements.	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	

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)
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 privilege to view, modify, or make use of unencrypted CJI: 1. Organization-level awareness and training policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, 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 awareness and training policy and the associated awareness and training controls; b. Designate organizational personnel with information security awareness and training responsibilities to manage the development, documentation, and dissemination of the awareness and training policy and procedures; and c. Review and update the current awareness and training: 1. Policy annually and following changes in the information system operating environment, when security incidents occur, or when changes to the CJIS Security Policy are made; and 2. Procedures annually and following changes in the information system operating environment, when security incidents occur, or when changes to the CJIS 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 executives, and contractors): 1. As part of initial training for new users prior to accessing CJI and annually thereafter; and 2. When required by system changes or within 30 days of any security event for individuals involved in the event; b. Employ one or more of the following techniques to increase the security and privacy awareness of system users: 1. Displaying posters 2. Offering supplies inscribed with security and privacy reminders 3. Displaying logon screen messages 4. Generating email 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 CJIS Security Policy; and d. Incorporate lessons learned from internal or external security incidents or breaches 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	a. Provide role-based security and privacy training to personnel with the following roles 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; • Organizational Personnel with Security Responsibilities: Personnel with the responsibility to ensure the confidentiality, integrity, and availability of CJI and the implementation of technology in a manner compliant with the CJISSECPOL. 1. Before authorizing access to the system, information, or performing assigned duties, and annually thereafter; and 2. When required by system changes. b. 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 CJIS Security Policy; c. Incorporate lessons learned from internal or external security incidents or breaches into role-based training. d. Incorporate the minimum following topics into the appropriate role-based training content: 1. All individuals with unescorted access to a physically secure location a. Access, Use and Dissemination of Criminal History Record Information (CHRI), NCIC Restricted Files Information, and NCIC Non-Restricted Files Information Penalties b. Reporting Security Events c. Incident Response Training d. System Use Notification e. Physical Access Authorizations f. Physical Access Control g. Monitoring Physical Access	Functional	equal	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) 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 CJI with initial and annual training in the employment and operation of personally identifiable information processing and transparency controls.	Functional	equal	Sensitive / Regulated Data Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive / regulated data is formally trained in data handling requirements.	10	
AT-4	TRAINING RECORDS	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-0	USE OF ORIGINATING AGENCY IDENTIFIERS IN TRANSACTIONS AND INFORMATION EXCHANGES	An FBI authorized originating agency identifier (ORI) shall be used in each transaction on CJIS 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 CSA/SIB/Channeler shall be the ORI, and other agency identifiers, such as user identification or personal identifier, an access device mnemonic, 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 may do so using the requesting agency's ORI. Servicing agencies may also use their own ORI to perform inquiry transactions on behalf of a requesting agency if the means and procedures are in place to provide an audit trail for the current specified retention period. Because the agency performing the transaction may not necessarily be the same as the agency requesting the transaction, the CSA/SIB/Channeler shall ensure that the ORI for each transaction can be traced, via audit trail, to the specific agency which is requesting the transaction. Audit trails can be used to identify the requesting agency if there is a reason to inquire into the details surrounding why an agency ran an inquiry on a subject. Agencies assigned a limited access ORI shall not use the full access ORI of another agency to conduct an inquiry transaction. NOTE: This control will be included in AC-3 Access Enforcement when modernized.	Functional	no relationship	N/A	N/A	N/A	N/A	
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 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 identification and authentication 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 policy and procedures; and c. Review and update the current identification and authentication: 1. Policy annually and following any security incidents involving unauthorized access to CJI or systems used to process, store, or transmit CJI; and 2. Procedures annually and following any security incidents involving unauthorized access to CJI or systems used to process, store, or transmit CJI.	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.	10	

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Secure Controls Framework (SCF)

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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 (optional)	Notes (optional)
IA-4	IDENTIFIER MANAGEMENT	Manage system identifiers by: a. Receiving authorization from organizational personnel with identifier management responsibilities to assign an individual, group, role, service, or device identifier; b. Selecting an identifier that identifies an individual, group, role, service, or device; c. Assigning the identifier to the intended individual, group, role, service, or device; and d. Preventing reuse of identifiers for one (1) year.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	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	
IA-4	IDENTIFIER MANAGEMENT	Manage system identifiers by: a. Receiving authorization from organizational personnel with identifier management responsibilities to assign an individual, group, role, service, or device identifier; b. Selecting an identifier that identifies an individual, group, role, service, or device; c. Assigning the identifier to the intended individual, group, role, service, or device; and d. Preventing reuse of identifiers for one (1) year.	Functional	intersects with	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.	5	
IA-4(4)	IDENTIFIER MANAGEMENT IDENTIFY USER STATUS	Manage individual identifiers by uniquely identifying each individual as agency or nonagency.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	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	
IA-4(4)	IDENTIFIER MANAGEMENT IDENTIFY USER STATUS	Manage individual identifiers by uniquely identifying each individual as agency or nonagency.	Functional	intersects with	User Identity (ID) Management	IAC-09.1	Mechanisms exist to ensure proper user identification management for non-consumer users and administrators.	5	
IA-4(4)	IDENTIFIER MANAGEMENT IDENTIFY USER STATUS	Manage individual identifiers by uniquely identifying each individual as agency or nonagency.	Functional	intersects with	Identity User Status	IAC-09.2	Mechanisms exist to identify contractors and other third-party users through unique username characteristics.	5	
IA-5	AUTHENTICATOR MANAGEMENT	Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the 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 intended use;3 d. Establishing and implementing administrative procedures for initial authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators; e. Changing default authenticators prior to first use; f. Changing or refreshing authenticators annually or when there is evidence of authenticator compromise; g. Protecting authenticator content from unauthorized disclosure and modification; h. Requiring individuals to take, and having devices implement, specific controls to protect authenticators; and3 i. Changing authenticators for group or role accounts when membership to those accounts changes.3 j. AAL2 Specific Requirements	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
IA-5	AUTHENTICATOR MANAGEMENT	Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the 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 intended use;3 d. Establishing and implementing administrative procedures for initial authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators; e. Changing default authenticators prior to first use; f. Changing or refreshing authenticators annually or when there is evidence of authenticator compromise; g. Protecting authenticator content from unauthorized disclosure and modification; h. Requiring individuals to take, and having devices implement, specific controls to protect authenticators; and3 i. Changing authenticators for group or role accounts when membership to those accounts changes.3 j. AAL2 Specific Requirements	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	5	
IA-5	AUTHENTICATOR MANAGEMENT	Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the 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 intended use;3 d. Establishing and implementing administrative procedures for initial authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators; e. Changing default authenticators prior to first use; f. Changing or refreshing authenticators annually or when there is evidence of authenticator compromise; g. Protecting authenticator content from unauthorized disclosure and modification; h. Requiring individuals to take, and having devices implement, specific controls to protect authenticators; and3 i. Changing authenticators for group or role accounts when membership to those accounts changes.3 j. AAL2 Specific Requirements	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	
IA-5	AUTHENTICATOR MANAGEMENT	Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the 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 intended use;3 d. Establishing and implementing administrative procedures for initial authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators; e. Changing default authenticators prior to first use; f. Changing or refreshing authenticators annually or when there is evidence of authenticator compromise; g. Protecting authenticator content from unauthorized disclosure and modification; h. Requiring individuals to take, and having devices implement, specific controls to protect authenticators; and3 i. Changing authenticators for group or role accounts when membership to those accounts changes.3 j. AAL2 Specific Requirements	Functional	intersects with	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.	5	
IA-5	AUTHENTICATOR MANAGEMENT	Manage system authenticators by: a. Verifying, as part of the initial authenticator distribution, the identity of the 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 intended use;3 d. Establishing and implementing administrative procedures for initial authenticator distribution, for lost or compromised or damaged authenticators, and for revoking authenticators; e. Changing default authenticators prior to first use; f. Changing or refreshing authenticators annually or when there is evidence of authenticator compromise; g. Protecting authenticator content from unauthorized disclosure and modification; h. Requiring individuals to take, and having devices implement, specific controls to protect authenticators; and3 i. Changing authenticators for group or role accounts when membership to those accounts changes.3 j. AAL2 Specific Requirements	Functional	intersects with	Default Authenticators	IAC-10.8	Mechanisms exist to ensure default authenticators are changed as part of account creation or system installation.	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)
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	5	
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	Functional	intersects with	Out-of-Band Authentication (OOBA)	IAC-02.4	Mechanisms exist to implement Out-of-Band Authentication (OOBA) under specific conditions.	5	
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	5	
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	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	
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	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	
IA-5(1)	AUTHENTICATOR MANAGEMENT AUTHENTICATOR TYPES	(a) Memorized Secret Authenticators and Verifiers: 1. Maintain a list of commonly-used, expected, or compromised passwords and update the list quarterly and when organizational passwords are suspected to have been compromised directly or indirectly; 2. Require immediate selection of a new password upon account recovery; 3. Allow user selection of long passwords and passphrases, including spaces and all printable characters; 4. Employ automated tools to assist the user in selecting strong password authenticators; 5. Enforce the following composition and complexity rules when agencies elect to follow basic password standards: (a) Not be a proper name. (b) Not be the same as the Userid. (c) Expire within a maximum of 90 calendar days. (d) Not be identical to the previous ten (10) passwords. (e) Not be displayed when entered. 6. If chosen by the subscriber, memorized secrets SHALL be at least 8 characters in length.	Functional	intersects with	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.	5	
IA-5(2)	AUTHENTICATOR MANAGEMENT PUBLIC KEY-BASED AUTHENTICATION	(a) For 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: 1. Validate certificates by constructing and verifying a certification path to an accepted trust anchor, including checking certificate status information; and 2. Implement a local cache of revocation data to support path discovery and validation.	Functional	intersects with	Dynamic Management	IAC-09.3	Mechanisms exist to dynamically manage usernames and system identifiers.	5	
IA-5(2)	AUTHENTICATOR MANAGEMENT PUBLIC KEY-BASED AUTHENTICATION	(a) For 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: 1. Validate certificates by constructing and verifying a certification path to an accepted trust anchor, including checking certificate status information; and 2. Implement a local cache of revocation data to support path discovery and validation.	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, regulations, standards, and guidelines for such authentication.	Functional	intersects with	Cryptographic Module Authentication	CRY-02	Automated mechanisms exist to enable systems to authenticate to a cryptographic module.	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)
IA-7	CRYPTOGRAPHIC MODULE AUTHENTICATION	Implement mechanisms for authentication to a cryptographic module that meet the requirements of applicable laws, executive orders, directives, policies, regulations, standards, and guidelines for such authentication.	Functional	intersects with	Cryptographic Module Authentication	IAC-12	Mechanisms exist to ensure cryptographic modules adhere to applicable statutory, regulatory and contractual requirements for security strength.	5	
IA-8	IDENTIFICATION AND AUTHENTICATION (NON-ORGANIZATIONAL USERS)	Uniquely identify and authenticate non-organizational users or processes acting on behalf of non-organizational users.	Functional	equal	Identification & Authentication for Non-Organizational Users	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	10	
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 (SLT) 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-compliant; 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	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; b. Resolve user identities to a unique individual; and c. Collect, validate, and verify identity evidence.	Functional	intersects with	Identity Proofing (Identity Verification)	IAC-28	Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.	5	
IA-12	IDENTITY PROOFING	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; b. Resolve user identities to a unique individual; and c. Collect, validate, and verify identity evidence.	Functional	intersects with	In-Person or Trusted Third-Party Registration	IAC-10.3	Mechanisms exist to conduct in-person or trusted third-party identity verification before user accounts for third-parties are created.	5	
IA-12(2)	IDENTITY PROOFING IDENTITY EVIDENCE	Require evidence of individual identification be presented to the registration authority.	Functional	equal	Identity Evidence	IAC-28.2	Mechanisms exist to require evidence of individual identification to be presented to the registration authority.	10	
IA-12(3)	IDENTITY PROOFING IDENTITY EVIDENCE VALIDATION AND VERIFICATION	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. 1. Collection of PII SHALL be limited to the minimum necessary to resolve to a unique identity in a given context. 2. Collection of PII SHALL be limited to the minimum necessary to validate the existence of the claimed identity and associate the claimed identity with the applicant providing identity evidence for appropriate identity resolution, validation, and verification.	Functional	equal	Identity Evidence Validation & Verification	IAC-28.3	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	a. 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	
IR-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 privilege to view, modify, or make use of unencrypted CII; 1. Agency-level incident response policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, 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 incident response policy and the associated incident response controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the incident response policy and procedures; and c. Review and update the current incident response: 3 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit 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	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; 1. Agency-level incident response policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, 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 incident response policy and the associated incident response controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the incident response policy and procedures; and c. Review and update the current incident response: 3 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII;	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	
IR-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 privilege to view, modify, or make use of unencrypted CII; 1. Agency-level incident response policy that: (a) Addresses purpose, scope, roles, responsibilities, management commitment, 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 incident response policy and the associated incident response controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the incident response policy and procedures; and c. Review and update the current incident response: 3 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII;	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 b. Review and update incident response training content annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	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	

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)
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 <u>comparable and predictable across the organization</u> .	Functional	equal	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) 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	
IR-6	INCIDENT REPORTING	a. Require personnel to report suspected incidents to the organizational incident response capability immediately but not to exceed one (1) hour after 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	Contacts With Authorities	GOV-06	Mechanisms exist to identify and document appropriate contacts with relevant law enforcement and regulatory bodies.	5	
IR-6	INCIDENT REPORTING	a. Require personnel to report suspected incidents to the organizational incident response capability immediately but not to exceed one (1) hour after 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: (1) Internal stakeholders; (2) Affected clients & third-parties; and (3) Regulatory authorities.	5	
IR-6	INCIDENT REPORTING	a. Require personnel to report suspected incidents to the organizational incident response capability immediately but not to exceed one (1) hour after 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	Regulatory & Law Enforcement Contacts	IRO-14	Mechanisms exist to maintain incident response contacts with applicable regulatory and law enforcement agencies.	5	
IR-6(1)	INCIDENT REPORTING 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	
IR-8	INCIDENT RESPONSE PLAN	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; 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. Addresses the sharing of incident information; 9. Is 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 reporting responsibilities and CSO or CIS WAN Official. b. Distribute copies of the incident response plan to organizational personnel with incident handling responsibilities; c. Update the incident response plan to address system and organizational changes or problems encountered during plan implementation, execution, or testing; d. Communicate incident response plan changes to organizational personnel with incident handling responsibilities; and e. Protect the incident response plan from 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. Identification 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	
MA-1	POLICY AND PROCEDURES	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, 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 associated maintenance controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance: 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	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 PROCEDURES	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, 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 associated maintenance controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance: 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
MA-1	POLICY AND PROCEDURES	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, 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 associated maintenance controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance: 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	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	

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)
MA-1	POLICY AND PROCEDURES	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, 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 associated maintenance controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance: 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	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 sessions.	5	
MA-1	POLICY AND PROCEDURES	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, 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 associated maintenance controls; b. Designate an individual with security responsibilities to manage the development, documentation, and dissemination of the maintenance policy and procedures; and c. Review and update the current maintenance: 1. Policy annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII; and 2. Procedures annually and following any security incidents involving unauthorized access to CII or systems used to process, store, or transmit CII.	Functional	intersects with	Remote Maintenance Notifications	MNT-05.2	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 monitor all maintenance activities, whether performed on site or remotely and whether the system or system components are serviced on site or removed to another location; c. Require that organizational personnel with information security and privacy responsibilities explicitly 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, replacement, or destruction; e. 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 2. Component serial number 3. Date/time 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 UNAUTHORIZED REMOVAL	Prevent the removal of maintenance equipment containing organizational information by: a. Verifying that there is no organizational information contained on the equipment; b. Sanitizing 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.	Functional	equal	Prevent Unauthorized Removal	MNT-04.3	Mechanisms exist to prevent or control the removal of equipment undergoing maintenance that containing organizational information.	10	
MA-4	NONLOCAL MAINTENANCE	a. Approve and monitor nonlocal maintenance and diagnostic activities; b. Allow the use of nonlocal maintenance and diagnostic tools only as consistent with organizational policy and documented in the security plan for the system; c. Employ strong authentication in the establishment of nonlocal maintenance and diagnostic sessions; d. Maintain records for nonlocal maintenance and diagnostic activities; and e. Terminate session and network connections when nonlocal maintenance is completed.	Functional	intersects with	Remote Maintenance	MNT-05	Mechanisms exist to authorize, monitor and control remote, non-local maintenance and diagnostic activities.	5	
MA-4	NONLOCAL MAINTENANCE	a. Approve and monitor nonlocal maintenance and diagnostic activities; b. Allow the use of nonlocal maintenance and diagnostic tools only as consistent with organizational policy and documented in the security plan for the system; c. Employ strong authentication in the establishment of nonlocal maintenance and diagnostic sessions; d. Maintain records for nonlocal maintenance and diagnostic activities; and e. Terminate session and network connections when nonlocal maintenance is completed.	Functional	intersects with	Remote Maintenance Notifications	MNT-05.2	Mechanisms exist to require maintenance personnel to notify affected stakeholders when remote, non-local maintenance is planned (e.g., date/time).	5	
MA-5	MAINTENANCE PERSONNEL	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 technical 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). Mechanisms exist to facilitate the implementation of data protection controls.	10	
MP-1	POLICY AND PROCEDURES	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 (b) Is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines; and 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: 1. Policy 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.	Functional	subset of	Data Protection	DCH-01		10	
MP-2	MEDIA ACCESS	Restrict access to digital and non-digital media to authorized individuals.	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 sanitized using approved equipment, techniques, and procedures.	Functional	equal	Media Storage	DCH-06	Mechanisms exist to: (1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and (2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures.	10	
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	

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MP-6	MEDIA SANITIZATION	a. Sanitize or destroy digital and non-digital media prior to disposal, release out of agency control, or release for reuse using overwrite technology at least three times or degauss digital media prior to disposal or release for reuse by unauthorized individuals. Inoperable 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 will be destroyed by crosscut shredding or incineration; and b. Employ sanitization mechanisms with the strength and integrity commensurate with the security category or classification of the information.	Functional	intersects with	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedures.	5	
MP-6	MEDIA SANITIZATION	a. Sanitize or destroy digital and non-digital media prior to disposal, release out of agency control, or release for reuse using overwrite technology at least three times or degauss digital media prior to disposal or release for reuse by unauthorized individuals. Inoperable 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 will be destroyed by crosscut shredding or incineration; and b. Employ sanitization mechanisms with the strength and integrity commensurate with the security category or classification of the information.	Functional	intersects with	System Media Sanitization	DCH-09	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	
MP-6	MEDIA SANITIZATION	a. Sanitize or destroy digital and non-digital media prior to disposal, release out of agency control, or release for reuse using overwrite technology at least three times or degauss digital media prior to disposal or release for reuse by unauthorized individuals. Inoperable 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 will be destroyed by crosscut shredding or incineration; and b. Employ sanitization mechanisms with the strength and integrity commensurate with the security category or classification of the information.	Functional	intersects with	Sanitization of Personal Data (PD)	DCH-09.3	Mechanisms exist to facilitate the sanitization of Personal Data (PD).	5	
MP-7	MEDIA USE	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 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 or controlled systems that store, process, or transmit criminal justice information; and c. Prohibit the use of digital media devices on all agency owned or controlled systems that store, process, or transmit criminal justice information when such devices have no identifiable owner.	Functional	intersects with	Media Use	DCH-10	Mechanisms exist to restrict the use of types of digital media on systems or system components.	5	
MP-7	MEDIA USE	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 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 or controlled systems that store, process, or transmit criminal justice information; and c. Prohibit the use of digital media devices on all agency owned or controlled systems that store, process, or transmit criminal justice information when such devices have no identifiable owner.	Functional	intersects with	Prohibit Use Without Owner	DCH-10.2	Mechanisms exist to prohibit the use of portable storage devices in organizational information systems when such devices have no identifiable owner.	5	
MP-7	MEDIA USE	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 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 or controlled systems that store, process, or transmit criminal justice information; and c. Prohibit the use of digital media devices on all agency owned or controlled systems that store, process, or transmit criminal justice information when such devices have no identifiable owner.	Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	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	intersects with	Unsupported Systems	TDA-17	Mechanisms exist to prevent unsupported systems by: (1) Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and (2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.	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	intersects with	Alternate Sources for Continued Support	TDA-17.1	Mechanisms exist to provide in-house support or contract external providers for support with unsupported system components.	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 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 system and information integrity policy and the associated system and information integrity controls; b. Designate organizational personnel with system and information integrity responsibilities to manage the development, documentation, and dissemination of the system and information integrity policy and procedures; and c. Review and update the current system and information integrity: 1. Policy annually and following any security incidents involving unauthorized access to CJI or systems used to process, store, or transmit CJI; and 2. Procedures annually and following any security incidents involving unauthorized access to CJI or systems used to process, store, or transmit CJI.	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	
SI-2	FLAW REMEDIATION	a. Identify, report, and correct system flaws; b. Test software and firmware updates related to flaw remediation for 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 • Critical – 15 days • High – 30 days • Medium – 60 days • Low – 90 days; and d. Incorporate flaw remediation into the organizational configuration management process.	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	a. Identify, report, and correct system flaws; b. Test software and firmware updates related to flaw remediation for 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 • Critical – 15 days • High – 30 days • Medium – 60 days • Low – 90 days; and d. Incorporate flaw remediation into the organizational configuration management process.	Functional	subset of	Vulnerability & Patch Management Program (VPM)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
SI-2	FLAW REMEDIATION	a. Identify, report, and correct system flaws; b. Test software and firmware updates related to flaw remediation for 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 • Critical – 15 days • High – 30 days • Medium – 60 days • Low – 90 days; and d. Incorporate flaw remediation into the organizational configuration management process.	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 CJI or systems used to process, store, or transmit CJI.	Functional	equal	Automated Remediation Status	VPM-05.2	Automated mechanisms exist to determine the state of system components with regard to flaw remediation.	10	

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SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability of the system.	Functional	intersects with	Automatic Antimalware Signature Updates	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	5	
SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability of the system.	Functional	intersects with	Heuristic / Nonsignature-Based Detection	END-04.4	Mechanisms exist to utilize heuristic / nonsignature-based antimalware detection capabilities.	5	
SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability 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 networks.	5	
SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability of the system.	Functional	intersects with	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	5	
SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability of the system.	Functional	intersects with	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	5	
SI-3	MALICIOUS CODE PROTECTION	a. Implement signature-based malicious code protection mechanisms at system 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 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 endpoint devices as the files are downloaded, opened, or executed in accordance with organizational policy; and 2. 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 information security responsibilities in response to malicious code detection; and5 d. Address the receipt of false positives during malicious code detection and eradication and the resulting potential impact on the availability of the system.	Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
SI-4	SYSTEM MONITORING	a. Monitor the system to detect: 1. Attacks and indicators of potential attacks in accordance with the following monitoring objectives: a. Intrusion detection and prevention b. Malicious code protection c. Vulnerability scanning d. Audit record monitoring e. Network monitoring f. Firewall monitoring; and 2. Unauthorized local, network, and remote connections; b. Identify unauthorized use of the system through the following techniques and methods: event logging (ref. 5.4 Audit and Accountability); c. Invoke internal monitoring capabilities or deploy monitoring devices: 1. Strategically within the system to collect organization-determined essential information; and 2. At ad hoc locations within the system to track specific types of transactions of interest to the organization; d. Analyze detected events and anomalies; e. Adjust the level of system monitoring activity when there is a change in risk to organizational operations and assets, individuals, other organizations, or the Nation; f. Obtain legal opinion regarding system monitoring activities; and g. Provide intrusion detection and prevention systems, malicious code protection software, scanning tools, audit record monitoring software, network monitoring, and firewall monitoring software logs to organizational personnel with information security responsibilities as needed.	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	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)
SI-4	SYSTEM MONITORING	<p>a. Monitor the system to detect:</p> <p>1. Attacks and indicators of potential attacks in accordance with the following monitoring objectives:</p> <p>a. Intrusion detection and prevention</p> <p>b. Malicious code protection</p> <p>c. Vulnerability scanning</p> <p>d. Audit record monitoring</p> <p>e. Network monitoring</p> <p>f. Firewall monitoring;</p> <p>and</p> <p>2. Unauthorized local, network, and remote connections;</p> <p>b. Identify unauthorized use of the system through the following techniques and methods: event logging (ref. 5.4 Audit and Accountability);</p> <p>c. Invoke internal monitoring capabilities or deploy monitoring devices:</p> <p>1. Strategically within the system to collect organization-determined essential information; and</p> <p>2. At ad hoc locations within the system to track specific types of transactions of interest to the organization;</p> <p>d. Analyze detected events and anomalies;</p> <p>e. Adjust the level of system monitoring activity when there is a change in risk to organizational operations and assets, individuals, other organizations, or the Nation;</p> <p>f. Obtain legal opinion regarding system monitoring activities; and</p> <p>g. Provide intrusion detection and prevention systems, malicious code protection software, scanning tools, audit record monitoring software, network monitoring, and firewall monitoring software logs to organizational personnel with information security responsibilities weekly.</p>	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	
SI-4	SYSTEM MONITORING	<p>a. Monitor the system to detect:</p> <p>1. Attacks and indicators of potential attacks in accordance with the following monitoring objectives:</p> <p>a. Intrusion detection and prevention</p> <p>b. Malicious code protection</p> <p>c. Vulnerability scanning</p> <p>d. Audit record monitoring</p> <p>e. Network monitoring</p> <p>f. Firewall monitoring;</p> <p>and</p> <p>2. Unauthorized local, network, and remote connections;</p> <p>b. Identify unauthorized use of the system through the following techniques and methods: event logging (ref. 5.4 Audit and Accountability);</p> <p>c. Invoke internal monitoring capabilities or deploy monitoring devices:</p> <p>1. Strategically within the system to collect organization-determined essential information; and</p> <p>2. At ad hoc locations within the system to track specific types of transactions of interest to the organization;</p> <p>d. Analyze detected events and anomalies;</p> <p>e. Adjust the level of system monitoring activity when there is a change in risk to organizational operations and assets, individuals, other organizations, or the Nation;</p> <p>f. Obtain legal opinion regarding system monitoring activities; and</p> <p>g. Provide intrusion detection and prevention systems, malicious code protection software, scanning tools, audit record monitoring software, network monitoring, and firewall monitoring software logs to organizational personnel with information security responsibilities weekly.</p>	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-4	SYSTEM MONITORING	<p>a. Monitor the system to detect:</p> <p>1. Attacks and indicators of potential attacks in accordance with the following monitoring objectives:</p> <p>a. Intrusion detection and prevention</p> <p>b. Malicious code protection</p> <p>c. Vulnerability scanning</p> <p>d. Audit record monitoring</p> <p>e. Network monitoring</p> <p>f. Firewall monitoring;</p> <p>and</p> <p>2. Unauthorized local, network, and remote connections;</p> <p>b. Identify unauthorized use of the system through the following techniques and methods: event logging (ref. 5.4 Audit and Accountability);</p> <p>c. Invoke internal monitoring capabilities or deploy monitoring devices:</p> <p>1. Strategically within the system to collect organization-determined essential information; and</p> <p>2. At ad hoc locations within the system to track specific types of transactions of interest to the organization;</p> <p>d. Analyze detected events and anomalies;</p> <p>e. Adjust the level of system monitoring activity when there is a change in risk to organizational operations and assets, individuals, other organizations, or the Nation;</p> <p>f. Obtain legal opinion regarding system monitoring activities; and</p> <p>g. Provide intrusion detection and prevention systems, malicious code protection software, scanning tools, audit record monitoring software, network monitoring, and firewall monitoring software logs to organizational personnel with information security responsibilities weekly.</p>	Functional	intersects with	Input Data Validation	TDA-18	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; <p>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.</p>	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 DIRECTIVES	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; <p>b. Generate internal security alerts, advisories, and directives as deemed necessary;</p> <p>c. Disseminate security alerts, advisories, and directives to: organizational personnel implementing, operating, maintaining, and using the system; and</p> <p>d. Implement security directives in accordance with established time frames, or notify the issuing organization of the degree of noncompliance.</p>	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-5	SECURITY ALERTS, ADVISORIES, AND DIRECTIVES	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; <p>b. Generate internal security alerts, advisories, and directives as deemed necessary;</p> <p>c. Disseminate security alerts, advisories, and directives to: organizational personnel implementing, operating, maintaining, and using the system; and</p> <p>d. Implement security directives in accordance with established time frames, or notify the issuing organization of the degree of noncompliance.</p>	Functional	intersects with	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	5	
SI-5	SECURITY ALERTS, ADVISORIES, AND DIRECTIVES	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; <p>b. Generate internal security alerts, advisories, and directives as deemed necessary;</p> <p>c. Disseminate security alerts, advisories, and directives to: organizational personnel implementing, operating, maintaining, and using the system; and</p> <p>d. Implement security directives in accordance with established time frames, or notify the issuing organization of the degree of noncompliance.</p>	Functional	intersects with	Threat Intelligence Feeds	THR-03	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
SI-7	SOFTWARE, FIRMWARE, AND INFORMATION INTEGRITY	a. Employ integrity verification tools to detect unauthorized changes to software, firmware, and information systems that contain or process CII; and <p>b. Take 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.</p>	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	

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SI-7	SOFTWARE, FIRMWARE, AND INFORMATION INTEGRITY	a. Employ integrity verification tools to detect unauthorized changes to software, firmware, and information systems that contain or process CII; and b. Take 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	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	SOFTWARE, FIRMWARE, AND INFORMATION INTEGRITY	a. Employ integrity verification tools to detect unauthorized changes to software, firmware, and information systems that contain or process CII; and b. Take 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	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	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	equal	Integrity Checks	END-06.1	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 b. 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	
SI-8(2)	SPAM PROTECTION AUTOMATIC UPDATES	Automatically update spam protection mechanisms at least daily.	Functional	equal	Automatic Spam and Phishing Protection Updates	END-08.2	Mechanisms exist to automatically update anti-phishing and spam protection technologies when new releases are available in accordance with configuration and change management practices.	10	
SI-10	INFORMATION INPUT VALIDATION	Check the validity of the following information inputs: all inputs to web/application servers, database servers, and any system or application input that might receive or process CII.	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-10	INFORMATION INPUT VALIDATION	Check the validity of the following information inputs: all inputs to web/application servers, database servers, and any system or application input that might receive or process CII.	Functional	Intersects with	Input Data Validation	TDA-18	Mechanisms exist to check the validity of information inputs.	5	
SI-11	ERROR HANDLING	a. Generate error messages that provide information necessary for corrective actions without revealing information that could be exploited; and b. Reveal error messages only to organizational personnel with information security responsibilities.	Functional	equal	Error Handling	TDA-19	Mechanisms exist to handle error conditions by: (1) Identifying potentially security-relevant error conditions; (2) Generating error messages that provide information necessary for corrective actions without revealing sensitive or potentially harmful information in error logs and administrative messages that could be exploited; and (3) Revealing error messages only to authorized personnel.	10	
SI-12	INFORMATION MANAGEMENT AND RETENTION	Manage and retain information within the system and information output from the system in accordance with applicable laws, executive orders, directives, regulations, policies, standards, guidelines and operational requirements.	Functional	Intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	5	
SI-12	INFORMATION MANAGEMENT AND RETENTION	Manage and retain information within the system and information output from the system in accordance with applicable laws, executive orders, directives, regulations, policies, standards, guidelines and operational requirements.	Functional	Intersects with	Personal Data (PD) Retention & Disposal	PRI-05	Mechanisms exist to: (1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law; (2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and (3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
SI-12(1)	INFORMATION MANAGEMENT AND RETENTION LIMIT PERSONALLY IDENTIFIABLE INFORMATION ELEMENTS	Limit personally identifiable information being processed in the information life cycle to the minimum PII necessary to achieve the purpose for which it is collected (see Section 4.3).	Functional	equal	Minimize Sensitive / Regulated Data	DCH-18.1	Mechanisms exist to minimize sensitive/regulated data that is collected, received, processed, stored and/or transmitted throughout the information lifecycle to only those elements necessary to support necessary business processes.	10	
SI-12(2)	INFORMATION MANAGEMENT AND RETENTION MINIMIZE PERSONALLY IDENTIFIABLE INFORMATION IN TESTING, TRAINING, AND RESEARCH	Use the following techniques to minimize the use of personally identifiable information for research, testing, or training: data obfuscation, randomization, anonymization, or use of synthetic data.	Functional	equal	Limit Sensitive / Regulated Data In Testing, Training & Research	DCH-18.2	Mechanisms exist to minimize the use of sensitive/regulated data for research, testing, or training, in accordance with authorized, legitimate business practices.	10	
SI-12(3)	INFORMATION MANAGEMENT AND RETENTION INFORMATION DISPOSAL	Use the following techniques to dispose of, destroy, or erase information following the retention period: as defined in MP-6.	Functional	equal	Information Disposal	DCH-21	Mechanisms exist to securely dispose of, destroy or erase information.	10	
SI-16	MEMORY PROTECTION	Implement the following controls to protect the system memory from unauthorized code execution: data execution prevention and address space layout randomization.	Functional	equal	Memory Protection	SEA-10	Mechanisms exist to implement security safeguards to protect system memory from unauthorized code execution.	10	