STRM Guidance:

NIST IR 8477-Based Set Theory Relationship Mapping (STRM) **Reference Document:** Secure Controls Framework (SCF) version 2025.1

https://securecontrolsframework.com/set-theory-relationship-mapping-strm/

Focal Document:

European Union (EU) NIS2 Directive

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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.					Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	(optional)	
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.					Mechanisms exist to ensure managers regularly review the processes and documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.			Functional Review Of		Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Cybersecurity & Data Protection Controls	CPL-03.2		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.			Cybersecurity & Data		Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	subset of	Protection Governance Program	GOV-01		10	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.			Publishing Cybersecurity		Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	& Data Protection Documentation	GOV-02		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.			Operationalizing		Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service under their control.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Cybersecurity & Data Protection Practices	GOV-15		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.					Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service under their control.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Select Controls	GOV-15.1		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.					Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service under their control.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Implement Controls	GOV-15.2		5	
		Member States shall ensure that essential and important entities take appropriate and proportionate technical, operational and organisational measures to manage the risks posed to the security of network and information systems which those entities use for their operations or for the provision of their services, and to prevent or minimise the impact of incidents on recipients of their services and on other services.			DialeMan		Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.		
Article 21.1	N/A	Taking into account the state-of-the-art and, where applicable, relevant European and international standards, as well as the cost of implementation, the measures referred to in the first subparagraph shall ensure a level of security of network and information systems appropriate to the risks posed. When assessing the proportionality of those measures, due account shall be taken of the degree of the entity's exposure to risks, the entity's size and the likelihood of occurrence of incidents and their severity, including their societal and economic impact.	Functional	intersects with	Risk Management Program	RSK-01		5	



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Article 21.2(b) N/A incident handling; Functional subset of Program Functional subset of Protection Governance Program Functional intersects with Publishing Cybersecurity & Data Protection governance exist to facilitate the implementation of cybersecurity & data protection governance controls. Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls. Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	10
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Article 21.2(b) N/A Operationalizing Cybersecurity & Data Protection Practices Operationalizing Cybersecurity & Data Protection Practices Operationalizing Cybersecurity & data privacy practices for each system, application and/or service under their control.	5
Article 21.2(b) N/A N/A Mechanisms exist to compel data and/or process owners to select required Functional intersects with Select Controls GOV-15.1 Cybersecurity & data privacy controls for each system, application and/or service under their control.	5
Article 21.2(b) N/A Mechanisms exist to compel data and/or process owners to implement required Functional intersects with Implement Controls GOV-15.2 cybersecurity & data privacy controls for each system, application and/or service under their control.	5
Article 21.2(b) N/A Incident Response Operations N/A Incident Response Operation of facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5
Article 21.2(b) N/A incident handling; Functional intersects with Incident Handling Functional intersects with Incident Handling IRO-02 (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis management; Functional Subset of Business Continuity Management System (BCMS) BCD-01 Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10
Article 21.2(c) N/A N/A Article 21.2(c) N/A Article 21.2(c) N/A Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis management; Information System Recovery & Reconstitution Functional intersects with Recovery & Reconstitution Information System Recovery & Reconstitution	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis management; business continuity, such as backup management and disaster recovery, and crisis management; Functional subset of Protection Governance Program Cybersecurity & Data Protection Governance Protection governance controls.	10
Article 21.2(c) N/A N/A N/A business continuity, such as backup management and disaster recovery, and crisis management; Functional intersects with Documentation Functional intersects with Documentation Publishing Cybersecurity & Data Protection Documentation Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection protection policies, standards and procedures.	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis management; N/A Operationalizing Cybersecurity & Data Protection Practices Protection Practices Operationalizing Cybersecurity & data privacy practices for each system, application and/or service under their control.	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis management; business continuity, such as backup management and disaster recovery, and crisis functional intersects with select Controls Functional intersects with Select Controls Functional intersects with select Controls for each system, application and/or service under their control.	5
Article 21.2(c) N/A business continuity, such as backup management and disaster recovery, and crisis Functional intersects with Implement Controls GOV-15.2 Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service	5
Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; N/A Under their control. Cybersecurity & Data Protection Governance Program Functional subset of Program OV-01 Functional Protection governance controls.	10
Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Functional intersects with Documentation Publishing Cybersecurity & Data Protection Documentation 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
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Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Protection Practices under their control. Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service under their control.	5
Article 21.2(d) N/A supply chain security, including security-related aspects concerning the supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers: Functional intersects with Implement Controls GOV-15.2 cybersecurity & data privacy controls for each system, application and/or service cybersecurity.	5
Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Functional Functiona	5
Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Functional intersects with Plan Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5
Article 21.2(d) N/A Supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Functional intersects with Third-Party Management TPM-01 Third-Party Management TPM-01 Mechanisms exist to facilitate the implementation of third-party management controls.	5
Article 21.2(d) N/A supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers; Functional intersects with Supply Chain Protection TPM-03 Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5
Article 21.2(e) N/A security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure; Security in network and information systems acquisition, development and subset of maintenance, including vulnerability handling and disclosure; Subset of Protection Governance Program Cybersecurity & Data Protection Governance Protection governance controls. Mechanisms exist to facilitate the implementation of cybersecurity & data Protection governance controls.	10
Article 21.2(e) N/A Security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure; Functional intersects with bulling and disclosure; Functional intersects with bulling and disclosure; Functional bulling and disclosure; Functional bulling Spersecurity & Data Protection Documentation GOV-02 Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5
Article 21.2(e) N/A security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure; Functional Functional intersects with Cybersecurity & Data Protection Practices Functional Func	5



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	
102 "	T DE Hamo	security in network and information systems acquisition, development and	Rationale	Relationship			Mechanisms exist to compel data and/or process owners to select required	(optional)	riotos (optional)
Article 21.2(e)	N/A	maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Select Controls		cybersecurity & data privacy controls for each system, application and/or service under their control. Mechanisms exist to compel data and/or process owners to implement required	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Implement Controls	1	cybersecurity & data privacy controls for each system, application and/or service under their control.	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC). Mechanisms exist to facilitate the implementation of tailored development and	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Technology Development & Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business needs.	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Third-Party Management Vulnerability & Patch	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls. Mechanisms exist to facilitate the implementation and monitoring of vulnerability	5	
Article 21.2(e)	N/A	security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure;	Functional	intersects with	Management Program (VPMP)	VPM-01	management controls.	5	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk- management measures;	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk-	Functional	intersects with	Steering Committee &	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	5	
		management measures;			Program Oversight Publishing Cybersecurity		cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to establish, maintain and disseminate cybersecurity & data		
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk-management measures;	Functional	intersects with	& Data Protection Documentation	GOV-02	protection policies, standards and procedures.	5	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk- management measures;	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk-management measures;	Functional	intersects with	Operationalizing Cybersecurity & Data Protection Practices	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service under their control.	5	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk-management measures;	Functional	intersects with	Select Controls	GOV-15.1	Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service	5	
Article 21.2(f)	N/A	policies and procedures to assess the effectiveness of cybersecurity risk-	Functional	intersects with	Implement Controls	GOV-15.2	under their control. Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service	5	
Article 21.2(f)	N/A	management measures; policies and procedures to assess the effectiveness of cybersecurity risk-	Functional	intersects with	Risk Management	RSK-01	under their control. Mechanisms exist to facilitate the implementation of strategic, operational and	5	
Article 21.2(g)	N/A	management measures; basic cyber hygiene practices and cybersecurity training;	Functional	subset of	Program Cybersecurity & Data Protection Governance		tactical risk management controls. Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
Article 21.2(g)	IN/A	basic cyber nygiene practices and cybersecurity training,	runctionat	Subset of	Program	GOV-01	Mechanisms exist to establish, maintain and disseminate cybersecurity & data	10	
Article 21.2(g)	N/A	basic cyber hygiene practices and cybersecurity training;	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	protection policies, standards and procedures.	5	
Article 21.2(g)	N/A	basic cyber hygiene practices and cybersecurity training;	Functional	intersects with	Operationalizing Cybersecurity & Data	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service	5	
					Protection Practices		under their control. Mechanisms exist to compel data and/or process owners to select required	_	
Article 21.2(g)	N/A	basic cyber hygiene practices and cybersecurity training;	Functional	intersects with	Select Controls	GOV-15.1	cybersecurity & data privacy controls for each system, application and/or service under their control. Mechanisms exist to compel data and/or process owners to implement required	5	
Article 21.2(g)	N/A	basic cyber hygiene practices and cybersecurity training;	Functional	intersects with	Implement Controls	GOV-15.2	cybersecurity & data privacy controls for each system, application and/or service under their control.	5	
Article 21.2(g)	N/A	basic cyber hygiene practices and cybersecurity training;	Functional	intersects with	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	5	
Article 21.2(h)	N/A	policies and procedures regarding the use of cryptography and, where appropriate, encryption;	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
Article 21.2(h)	N/A	policies and procedures regarding the use of cryptography and, where appropriate,	Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		encryption;			Program Publishing Cybersecurity		Mechanisms exist to establish, maintain and disseminate cybersecurity & data		
Article 21.2(h)	N/A	policies and procedures regarding the use of cryptography and, where appropriate, encryption;	Functional	intersects with	& Data Protection Documentation	GOV-02	protection policies, standards and procedures.	5	
Article 21.2(h)	N/A	policies and procedures regarding the use of cryptography and, where appropriate, encryption;	Functional	intersects with	Operationalizing Cybersecurity & Data	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service	5	
Article 21.2(h)	N/A	policies and procedures regarding the use of cryptography and, where appropriate,	Functional	intersects with	Protection Practices Select Controls	GOV-15.1	under their control. Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service	5	
		encryption; policies and procedures regarding the use of cryptography and, where appropriate,					under their control. Mechanisms exist to compel data and/or process owners to implement required	_	
Article 21.2(h)	N/A	encryption;	Functional	intersects with	Implement Controls		cybersecurity & data privacy controls for each system, application and/or service under their control. Mechanisms exist to facilitate an IT Asset Management (ITAM) program to	5	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Asset Governance	AST-01	implement and manage asset management controls. Mechanisms exist to perform inventories of technology assets that:	5	
							(1) Accurately reflects the current systems, applications and services in use;(2) Identifies authorized software products, including business justification details:		
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Asset Inventories	AST-02	(3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve	5	
					Cybersecurity & Data		effective property accountability; and (5) Is available for review and audit by designated organizational personnel. Mechanisms exist to facilitate the implementation of cybersecurity & data		
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	subset of	Protection Governance Program	GOV-01	protection governance controls.	10	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Publishing Cybersecurity & Data Protection	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
					Documentation Operationalizing		Mechanisms exist to compel data and/or process owners to operationalize		
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Cybersecurity & Data Protection Practices	GOV-15	cybersecurity & data privacy practices for each system, application and/or service under their control.	5	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Select Controls	GOV-15.1	Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service under their control.	5	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Implement Controls	GOV-15.2	Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service	5	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Human Resources Security Management	HRS-01	under their control. Mechanisms exist to facilitate the implementation of personnel security controls.	5	
Article 21.2(i)	N/A	human resources security, access control policies and asset management;	Functional	intersects with	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	5	
Article 21.2(j)	N/A	the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency communication systems within the entity, where appropriate.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
Article 21.2(j)	N/A	the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency	Functional	intersects with	Publishing Cybersecurity & Data Protection	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
-07		communication systems within the entity, where appropriate. the use of multi-factor authentication or continuous authentication solutions,			Documentation Operationalizing		Mechanisms exist to compel data and/or process owners to operationalize		
Article 21.2(j)	N/A	secured voice, video and text communications and secured emergency communication systems within the entity, where appropriate.	Functional	intersects with	Cybersecurity & Data Protection Practices	GOV-15	cybersecurity & data privacy practices for each system, application and/or service under their control.	5	
Article 21.2(j)	N/A	the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency communication systems within the entity, where appropriate.	Functional	intersects with	Select Controls	GOV-15.1	Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service under their control.	5	
Article 21.2(j)	N/A	the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency	Functional	intersects with	Implement Controls	GOV-15.2	Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service	5	
Article 21.2(j)	N/A	communication systems within the entity, where appropriate. the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency	Functional	intersects with	Identity & Access	IAC-01	under their control. Mechanisms exist to facilitate the implementation of identification and access management controls.	5	
		communication systems within the entity, where appropriate.			Management (IAM)		Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for:		
Article 21.2(j)	N/A	the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency	Functional	intersects with	Multi-Factor Authentication (MFA)	IAC-06	(1) Remote network access;(2) Third-party systems, applications and/or services; and/ or(3) Non-console access to critical systems or systems that store, transmit and/or	5	
		communication systems within the entity, where appropriate.			(PITA)		process sensitive/regulated data.		
		Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall					Mechanisms exist to assess cybersecurity & data privacy controls in system project development to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome		
Article 21.3	N/A	quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall	Functional	intersects with	Cybersecurity & Data Privacy In Project	PRM-04	with respect to meeting the requirements.	5	
		also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with			Management				
		Article 22(1).							



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)
		Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the					Mechanisms exist to identify critical system components and functions by performing a criticality analysis for critical systems, system components or applicant at the Coulomb the Secure Development Life Cycle	— («paronat)	
Article 21.3	N/A	vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Cybersecurity & Data Privacy Requirements Definition	PRM-05	services at pre-defined decision points in the Secure Development Life Cycle (SDLC).	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Technology Development & Acquisition	TDA-01	Mechanisms exist to facilitate the implementation of tailored development and acquisition strategies, contract tools and procurement methods to meet unique business needs.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Limit Potential Harm	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Processes To Address Weaknesses or Deficiencies	TPM-03.3	Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and data.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	Third-Party Processing, Storage and Service Locations	TPM-04.4	Mechanisms exist to restrict the location of information processing/storage based on business requirements.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	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	



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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
		Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the					Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	(optional)	
Article 21.3	N/A	vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2		5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Scope Review	, TPM-05.5	Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments accurately reflect current business practices, compliance obligations, technologies and stakeholders.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with Article 22(1).	Functional	intersects with	First-Party Declaration (1PD)	TPM-05.6	Mechanisms exist to obtain a First-Party Declaration (1PD) from applicable External Service Providers (ESPs) that provides assurance of compliance with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow-down requirements to subcontractors.	5	
Article 21.3	N/A	Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Break Clauses	TPM-05.7	Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for cybersecurity and/or data privacy controls.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Personnel Security	TPM-06	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
Article 21.3	N/A	Article 22(1). Member States shall ensure that, when considering which measures referred to in paragraph 2, point (d), of this Article are appropriate, entities take into account the vulnerabilities specific to each direct supplier and service provider and the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures. Member States shall also ensure that, when considering which measures referred to in that point are appropriate, entities are required to take into account the results of the coordinated security risk assessments of critical supply chains carried out in accordance with	Functional	intersects with	Managing Changes To Third-Party Services	TPM-10	Mechanisms exist to control changes to services by suppliers, taking into account the criticality of business information, systems and processes that are in scope by the third-party.	5	
Article 21.4	N/A	Article 22(1). Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary,	Functional	intersects with	Non-Compliance Oversight	CPL-01.1	Mechanisms exist to document and review instances of non-compliance with statutory, regulatory and/or contractual obligations to develop appropriate risk	5	
Article 21.4	N/A	appropriate and proportionate corrective measures. Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary,	Functional	intersects with	Threat Analysis & Flaw Remediation During	IAO-04	mitigation actions. Mechanisms exist to require system developers and integrators to create and execute a Security Testing and Evaluation (ST&E) plan, or similar process, to	5	
Article 21.4	N/A	appropriate and proportionate corrective measures. Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	identify and remediate flaws during development. Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or	5	
Article 21.4	N/A	Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary,	Functional	intersects with	Risk Remediation	RSK-06	eliminate known vulnerabilities. Mechanisms exist to remediate risks to an acceptable level.	5	
Article 21.4	N/A	appropriate and proportionate corrective measures. Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Developer Threat Analysis & Flaw Remediation	TDA-15	Mechanisms exist to require system developers and integrators to develop and implement an ongoing Security Testing and Evaluation (ST&E) plan, or similar process, to objectively identify and remediate vulnerabilities prior to release to production.	5	
Article 21.4	N/A	Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
Article 21.4	N/A	Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
Article 21.4	N/A	Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Continuous Vulnerability Remediation Activities	VPM-04	Mechanisms exist to address new threats and vulnerabilities on an ongoing basis and ensure assets are protected against known attacks.	5	
Article 21.4	N/A	Member States shall ensure that an entity that finds that it does not comply with the measures provided for in paragraph 2 takes, without undue delay, all necessary, appropriate and proportionate corrective measures.	Functional	intersects with	Centralized Management of Flaw Remediation Processes	VPM-05.1	Mechanisms exist to centrally-manage the flaw remediation process.	5	
Article 21.5	N/A	By 17 October 2024, the Commission shall adopt implementing acts laying down the technical and the methodological requirements of the measures referred to in paragraph 2 with regard to DNS service providers, TLD name registries, cloud computing service providers, data centre service providers, content delivery network providers, managed service providers, managed security service providers, providers of online market places, of online search engines and of social networking services platforms, and trust service providers.	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	
Article 21.5	N/A	By 17 October 2024, the Commission shall adopt implementing acts laying down the technical and the methodological requirements of the measures referred to in paragraph 2 with regard to DNS service providers, TLD name registries, cloud computing service providers, data centre service providers, content delivery network providers, managed service providers, managed security service providers, providers of online market places, of online search engines and of social networking services platforms, and trust service providers.	Functional	intersects with	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	5	
Article 21.5	N/A	By 17 October 2024, the Commission shall adopt implementing acts laying down the technical and the methodological requirements of the measures referred to in paragraph 2 with regard to DNS service providers, TLD name registries, cloud computing service providers, data centre service providers, content delivery network providers, managed service providers, managed security service providers, providers of online market places, of online search engines and of social networking services platforms, and trust service providers.	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	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	
		Each Member State shall ensure that essential and important entities notify, without undue delay, its CSIRT or, where applicable, its competent authority in accordance					Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-	(optional)	
Article 23.1	N/A	with paragraph 4 of any incident that has a significant impact on the provision of their services as referred to in paragraph 3 (significant incident). Where appropriate, entities concerned shall notify, without undue delay, the recipients of their services of significant incidents that are likely to adversely affect the provision of those services. Each Member State shall ensure that those entities report, inter alia, any information enabling the CSIRT or, where applicable, the competent authority to determine any cross-border impact of the incident. The mere act of notification shall not subject the notifying entity to increased liability. Where the entities concerned notify the competent authority of a significant incident under the first subparagraph, the Member State shall ensure that that competent authority forwards the notification to the CSIRT upon receipt. In the case of a cross-border or cross-sectoral significant incident, Member States shall ensure that their single points of contact are provided in due time with relevant	Functional	subset of	Incident Response Operations	IRO-01	related incidents.	10	
		information notified in accordance with paragraph 4. Each Member State shall ensure that essential and important entities notify, without					Mechanisms exist to cover:		
Article 23.1	N/A	undue delay, its CSIRT or, where applicable, its competent authority in accordance with paragraph 4 of any incident that has a significant impact on the provision of their services as referred to in paragraph 3 (significant incident). Where appropriate, entities concerned shall notify, without undue delay, the recipients of their services of significant incidents that are likely to adversely affect the provision of those services. Each Member State shall ensure that those entities report, inter alia, any information enabling the CSIRT or, where applicable, the competent authority to determine any cross-border impact of the incident. The mere act of notification shall not subject the notifying entity to increased liability. Where the entities concerned notify the competent authority of a significant incident under the first subparagraph, the Member State shall ensure that that competent authority forwards the notification to the CSIRT upon receipt. In the case of a cross-border or cross-sectoral significant incident, Member States shall ensure that their single points of contact are provided in due time with relevant information notified in accordance with paragraph 4.	Functional	intersects with	Incident Handling	IRO-02	(1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	
Article 23.1	N/A	Each Member State shall ensure that essential and important entities notify, without undue delay, its CSIRT or, where applicable, its competent authority in accordance with paragraph 4 of any incident that has a significant impact on the provision of their services as referred to in paragraph 3 (significant incident). Where appropriate, entities concerned shall notify, without undue delay, the recipients of their services of significant incidents that are likely to adversely affect the provision of those services. Each Member State shall ensure that those entities report, inter alia, any information enabling the CSIRT or, where applicable, the competent authority to determine any cross-border impact of the incident. The mere act of notification shall not subject the notifying entity to increased liability. Where the entities concerned notify the competent authority of a significant incident under the first subparagraph, the Member State shall ensure that that competent authority forwards the notification to the CSIRT upon receipt. In the case of a cross-border or cross-sectoral significant incident, Member States shall ensure that their single points of contact are provided in due time with relevant information notified in accordance with paragraph 4.	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	
Article 23.2	N/A	Where applicable, Member States shall ensure that essential and important entities communicate, without undue delay, to the recipients of their services that are potentially affected by a significant cyber threat any measures or remedies that those recipients are able to take in response to that threat. Where appropriate, the entities shall also inform those recipients of the significant cyber threat itself.	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	
Article 23.2	N/A	Where applicable, Member States shall ensure that essential and important entities communicate, without undue delay, to the recipients of their services that are potentially affected by a significant cyber threat any measures or remedies that those recipients are able to take in response to that threat. Where appropriate, the entities shall also inform those recipients of the significant cyber threat itself.	Functional	intersects with	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.	5	
Article 23.2	N/A	Where applicable, Member States shall ensure that essential and important entities communicate, without undue delay, to the recipients of their services that are potentially affected by a significant cyber threat any measures or remedies that those recipients are able to take in response to that threat. Where appropriate, the entities shall also inform those recipients of the significant cyber threat itself.	Functional	intersects with	Public Relations & Reputation Repair	IRO-16	Mechanisms exist to proactively manage public relations associated with incidents and employ appropriate measures to prevent further reputational damage and develop plans to repair any damage to the organization's reputation.	5	
Article 23.3	N/A	An incident shall be considered to be significant if:	Functional	intersects with	Incident Classification & Prioritization Incident Classification &	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
Article 23.3(a) Article 23.3(b)	N/A N/A	it has caused or is capable of causing severe operational disruption of the services or financial loss for the entity concerned; it has affected or is capable of affecting other natural or legal persons by causing considerable material or non-material damage. Member States shall ensure that, for the purpose of notification under paragraph 1, the entities concerned submit to the CSIRT or, where applicable, the competent authority:	Functional Functional	intersects with	Prioritization Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions. Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions. Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders; (2) Affected clients & third-parties; and	5	
Article 23.4	N/A	By way of derogation from the first subparagraph, point (b), a trust service provider shall, with regard to significant incidents that have an impact on the provision of its trust services, notify the CSIRT or, where applicable, the competent authority, without undue delay and in any event within 24 hours of becoming aware of the significant incident.	Functional	intersects with	Incident Stakeholder Reporting	IRO-10	(3) Regulatory authorities.	5	
Article 23.4(a)	N/A	without undue delay and in any event within 24 hours of becoming aware of the significant incident, an early warning, which, where applicable, shall indicate whether the significant incident is suspected of being caused by unlawful or	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	5	
Article 23.4(b)	N/A	malicious acts or could have a cross-border impact; without undue delay and in any event within 72 hours of becoming aware of the significant incident, an incident notification, which, where applicable, shall update the information referred to in point (a) and indicate an initial assessment of the significant incident, including its severity and impact, as well as, where available, the indicators of compromise;	Functional	intersects with	Incident Stakeholder Reporting	IRO-10	(3) Regulatory authorities. Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders; (2) Affected clients & third-parties; and (3) Regulatory authorities.	5	
Article 23.4(c)	N/A	upon the request of a CSIRT or, where applicable, the competent authority, an intermediate report on relevant status updates;	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	
Article 23.4(d)	N/A	a final report not later than one month after the submission of the incident notification under point (b), including the following:	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	
Article 23.4(d)(i)	N/A	a detailed description of the incident, including its severity and impact;	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	
Article 23.4(d)(ii)	N/A	the type of threat or root cause that is likely to have triggered the incident;	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	
Article 23.4(d)(ii)	N/A	the type of threat or root cause that is likely to have triggered the incident;	Functional	equal	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.	10	
Article 23.4(d)(iii)	N/A	applied and ongoing mitigation measures;	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	
Article 23.4(d)(iv)	N/A	where applicable, the cross-border impact of the incident;	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	
Article 23.4(e)	N/A	in the event of an ongoing incident at the time of the submission of the final report referred to in point (d), Member States shall ensure that entities concerned provide a progress report at that time and a final report within one month of their handling of the incident.	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	
Article 23.5	N/A	The CSIRT or the competent authority shall provide, without undue delay and where possible within 24 hours of receiving the early warning referred to in paragraph 4, point (a), a response to the notifying entity, including initial feedback on the significant incident and, upon request of the entity, guidance or operational advice on the implementation of possible mitigation measures. Where the CSIRT is not the initial recipient of the notification referred to in paragraph 1, the guidance shall be provided by the competent authority in cooperation with the CSIRT. The CSIRT shall provide additional technical support if the entity concerned so requests. Where the significant incident is suspected to be of criminal nature, the CSIRT or the competent authority shall also provide guidance on reporting the significant incident to law enforcement authorities.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF



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)
Article 23.6	N/A	Where appropriate, and in particular where the significant incident concerns two or more Member States, the CSIRT, the competent authority or the single point of contact shall inform, without undue delay, the other affected Member States and ENISA of the significant incident. Such information shall include the type of information received in accordance with paragraph 4. In so doing, the CSIRT, the competent authority or the single point of contact shall, in accordance with Union or national law, preserve the entity's security and commercial interests as well as the confidentiality of the information provided.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF
Article 23.7	N/A	Where public awareness is necessary to prevent a significant incident or to deal with an ongoing significant incident, or where disclosure of the significant incident is otherwise in the public interest, a Member State's CSIRT or, where applicable, its competent authority, and, where appropriate, the CSIRTs or the competent authorities of other Member States concerned, may, after consulting the entity concerned, inform the public about the significant incident or require the entity to do so.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF
Article 23.8	N/A	At the request of the CSIRT or the competent authority, the single point of contact shall forward notifications received pursuant to paragraph 1 to the single points of contact of other affected Member States.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF
Article 23.9	N/A	The single point of contact shall submit to ENISA every three months a summary report, including anonymised and aggregated data on significant incidents, incidents, cyber threats and near misses notified in accordance with paragraph 1 of this Article and with Article 30. In order to contribute to the provision of comparable information, ENISA may adopt technical guidance on the parameters of the information to be included in the summary report. ENISA shall inform the Cooperation Group and the CSIRTs network about its findings on notifications received every six months.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF
Article 23.10	N/A	The CSIRTs or, where applicable, the competent authorities shall provide to the competent authorities under Directive (EU) 2022/2557 information about significant incidents, incidents, cyber threats and near misses notified in accordance with paragraph 1 of this Article and with Article 30 by entities identified as critical entities under Directive (EU) 2022/2557.	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF
Article 23.11	N/A	The Commission may adopt implementing acts further specifying the type of information, the format and the procedure of a notification submitted pursuant to paragraph 1 of this Article and to Article 30 and of a communication submitted pursuant to paragraph 2 of this Article. By 17 October 2024, the Commission shall, with regard to DNS service providers, TLD name registries, cloud computing service providers, data centre service providers, content delivery network providers, managed service providers, managed security service providers, as well as providers of online marketplaces, of online search engines and of social networking services platforms, adopt implementing acts further specifying the cases in which an incident shall be considered to be significant as referred to in paragraph 3. The Commission may adopt such implementing acts with regard to other essential and important entities. The Commission shall exchange advice and cooperate with the Cooperation Group on the draft implementing acts referred to in the first and second subparagraphs of this paragraph in accordance with Article 14(4), point (e). Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 39(2).	Functional	no relationship	N/A	N/A	N/A	N/A	Outside of the scope of the SCF



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