MPS August 2025

Compliance Mapping Tables for MPS Cloud Reference Architecture v1.1

1. Compliance Mapping Tables

This section is intended to provide guidance for the Customer(s) and Supplier(s) in mapping the principal and basic information security requirements to established standards and frameworks for compliance purposes. The compliance mapping tables will be extended with additional standards and frameworks in future versions, such as NIS2 and NIS2 Implementing Regulations.

Note that the mapping table is intended as guidance only based on the included standards. Such a mapping exercise will always be a subjective assessment, and the mapping tables are therefore not to be considered complete (i.e., all mappings are not necessarily provided) or authoritative (i.e., other interpretations are valid).

1.1 Principal Security Requirements Mapping Table

CRA Requirement	NIST CSF 2.0	ISO 27001:2022	ISO 27002:2022	NSM Grunnprinsipper for IKT-sikkerhet 2.1	CSA CCM V4.0.12	BSI C5:2020 (Cloud Computing Compliance Criteria Catalogue)
A.1 Purpose	• GV.OC Organization al Context (GV.OC-01, 02, 04, 05,)	 4.1 Understanding the organization and its context 4.2 Understanding the needs and expectations of interested parties 				

		6.2 Information security objectives and planning to achieve them			
A.2 Purpose	 GV.OV Oversight (GV.OV-01, 02, 03) GV.PO Policies, Processes, and Procedures (GV.PO-01) GV.RM Risk Management Strategy (GV.RM-01, 02, 03, 04, 06, 07) GV.RA Risk Assessment (ID.RA-05, 06, 07) 	• 6.1.1 General	 1.1 Identify management structures, deliverables and supporting systems (1.1.2, 1.1.3, 1.1.4, 1.1.5) 2.1 Include security during procurement and development processes (2.1.4, 2.1.9) 2.2 Establish a secure ICT architecture (2.2.7) 2.3 Maintain a secure configuration (2.3.10) 	 GRC Governance, Risk and Compliance (GRC-02, GRC-04) TVM Threat & Vulnerability Management (TVM-01) CCC Change Control and Configuration Management (CCC-03) CEK Cryptography , Encryption & Key Management (CEK-07) STA Supply Chain Management, Transparency , and 	 OIS-06 Risk management policy OIS-07 Application of the risk management policy

					Accountabilit y (STA-08) BCR Business Continuity Management and Operational Resilience (BCR-02)	
A.3 Compliance	OV.OC Organization al Context (GV.OC-03)	8.1 Operational Planning and Control	 5.4 Management Responsibilit ies 5.10 Acceptable use of information and other associated assets 5.31 Legal, statutory, regulatory, and contractual requirement s 	3.2 Establish security monitoring (3.2.2)	• A&A Audit & Assurance (A&A-04)	 AM-02 Acceptable Use and Safe Handling of Assets Policy AM-06 Asset Classification and Labelling PI-02 Contractual agreements for the provision of data COM-01 Identification of applicable legal, regulatory, self-imposed or contractual requirement

A.4 Compliance	 GV.OC Organization al Context (GV-OC-03) GV.PO Policies, Processes, and Procedure (GV.PO-01) 	 4.3 Determining the scope of the information security managemen t system 4.4 Information security managemen t system 	 5.31 Legal, statutory, regulatory, and contractual requirement s 5.36 Compliance with policies, rules and standards for information security 	2.1 Include security during procurement and development processes (2.1.3)	• GRC Governance, Risk and Compliance (GRC-05, GRC- 07)	PSS-12 Locations of Data Processing and Storage COM-01 Identification of applicable legal, regulatory, self-imposed or contractual requirements COM-03 Internal audits of the information security management system
A.5 Documentatio n		• 7.5 Documented information	 5.37 Documented operating procedure 6.8		BCR Business Continuity Management and Operational Resilience (BCR-05)	 SP-01 Documentati on, communicati on and provision of policies and instructions DEV-08 Version Control

A.6 Notification			6.8 Information security event reporting	 1.3 Identify users and access requirements (1.3.3) 4.1 Prepare the organisation for incidents (4.1.5) 4.2 Assess and categorize incidents (4.2.3) 4.3 Control and manage incidents (4.3.5) 		 SIM-01 Policy for security incident management SIM-04 Duty of the users to report security incidents to a central body SIM-05 Evaluation and learning process INQ-02 Informing Cloud Customers about Investigation Requests
A.7 Audit	• ID.IM Improvemen t (ID.IM-02)	 9.2.2 Internal audit program 	 5.35 Independent review of information security 8.34 Protection of information systems during audit testing 		 A&A Audit & Assurance (A&A-01, A&A-04, A&A-05) STA Supply Chain Management, Transparency , and Accountabilit y (STA-11) 	 PI-02 Contractual agreements for the provision of data COM-02 Policy for planning and conducting audits

			SEF Security Incident Management, E-Discovery & Cloud Forensics (SEF-08) INQ-01 Legal Assessment of Investigative Inquiries INQ-02 Informing Cloud Customers about Investigation Requests INQ-03 Conditions for Access to or Disclosure of Investigation Requests INQ-04 Limiting Access to or Disclosure of Data in Investigation Requests
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A.8 Governance	 GV.RR Roles, Responsibilit ies, and Authorities (GV.RR-01, 02) GV.RM Risk Management Strategy (GV.RM-05) GV.SC Cybersecurit y Supply Chain Risk Management (GV.SC-02) 	and Commitmen t 5.3 Organization al roles, responsibiliti es and authorities 7.1 Resources	 5.2 Information security roles and responsibilities 5.3 Segregation of duties 	 1.3 Identify users and access requirements (1.3.3) 4.1 Prepare the organisation for incidents (4.1.3) 	GRC Governance, Risk and Compliance (GRC-06)	 OIS-04 Segregation of Duties SP-01 Documentati on, communicati on and provision of policies and instructions SP-02 Review and Approval of Policies and Instructions SP-03 Exceptions from Existing Policies and Instructions SSO-03 Directory of service providers and suppliers
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1.2 Basic Security Requirements Mapping Table

CRA	NIST CSF 2.0	ISO 27001:2022	ISO 27002:2022	NSM	CSA CCM V4.0.12	BSI C5:2020 (Cloud
Requiremen				Grunnprinsipper for		Computing Compliance
t				IKT-sikkerhet 2.1		Criteria Catalogue)

B.IS.1 Security Governance Compliance with standards and frameworks	 GV.OC Organization al Context (GV.OC-03) GV.PO Policies, Processes, and Procedure (GV.PO-01) 	8.1 Operationa I planning and control	• 5.31 Legal, statutory and contractual requirements	• 1.1 Identify management structures, deliverables and supporting systems (1.1.1)	• GRC Governance, Risk and Compliance (GRC-05, GRC-07)	COM-01 Identification of applicable legal, regulator, selfimposed or contractual requirements
B.IS.2 Security Governance Information security managemen t system	• GV.PO Policies, Processes, and Procedures (GV.PO-01, 02)	 4.3 Determining the scope of the information security management system 4.4 Information security management system 1.4 Information security management system 	5.36 Compliance with policies, rules, and standards for information security	• 1.1 Identify management structures, deliverables and supporting systems (1.1.2, 1.1.3)	• GRC Governance, Risk and Compliance (GRC-01, GRC-03, GRC- 04, GRC-05, GRC-07)	 OIS-01 Information Security Management System (ISMS) OIS-02 Information Security Policy OIS-03 Interfaces and Dependencies OIS-06 Risk Management Policy OIS-07 Application of the Risk Management Policy COM-04 Information on information security

B.IS.3 Security governance – Assurance			• GV.PO Policies, Processes, and Procedure (GV.PO-01)	• 2.1 Include security during procurement and development processes (2.1.3, 2.1.10)	 GRC Governance, Risk and Compliance (GRC-07) A&A Audit & Assurance (A&A-02, A&A- 	performance and management assessment of the ISMS COM-03 Internal audits of the information security management system
B.IS.4	• ID.IM	• 9.2.2	• 5.35		03) • Audit &	COM-02 Policy
Security Governance - Security audit and testing obligations - regular security audits and testing	Improvemen t (ID.IM-01, 02, 03, 04)	Internal audit program • 9.2.1 Internal audit general	Independent review of information security • 8.34 Protection of information systems during audit testing		Assurance (A&A-02, A&A- 03, A&A-05) • STA Supply Chain Management, Transparency , and Accountabilit y (STA-11)	for planning and conducting audits COM-03 Internal audits of the information security management system
B.IS.5 Security governance - security audit and testing obligations -	• ID.IM Improvemen t (ID.IM-02, 03)	 9.2.2 Internal audit program 10.2 non- conformity and 	 5.35 Independent review of information security 8.34 Protection of 		A&A Audit & Assurance (A&A-06)	 COM-02 Policy for planning and conducting audits COM-03 Internal audits of the information

documentati on and remediation		corrective action • 10.1 Continual improveme nt	information systems during audit testing			security management system
B.IS.6 Security governance – Access to security documents		 5.2 Policy 7.5 Documente d informatio n 	 5.1 Policies for information security 5.37 Documented operating procedures 		BCR Business Continuity Management and Operational Resilience (BCR-05)	 OIS-02 Information Security Policy SP-02 Review and Approval of Policies and Instructions SP-03 Exceptions from Existing Policies and Instructions
B.IS.7 Security governance - Third party security managemen t - security requirement s	 ID.IM Improvemen t (ID.IM-02) GV.SC Cybersecurit y supply chain risk managemen t (GV.SC-01 to 10) 		 8.26 Application security requirements 5.19 Information security in supplier relationships 5.21 Managing information security in the ICT supply chain 	 2.1 Include security during procurement and development processes (2.1.2, 2.1.3, 2.1.4, 2.1.9, 2.1.10,) 4.1 Prepare the organisation for incidents (4.1.4) 	 STA Supply Chain Management, Transparency , and Accountabilit y (STA-01 to STA-12) UEM Universal Endpoint Management (UEM-14) 	 HR-06 Confidentiality agreements DEV-01 Policies for the development / procurement of information systems DEV-02 Outsourcing of the development SSO-01 Policies and instructions for controlling

B.IS.8	 5.20 Addressing information security within supplier agreements 5.21 Managing information security in the ICT supply chain 5.20 Addressing information security within supplier agreements 6.6 Confidentialit y or non- disclosure agreements 8.30 Outsourced development 5.22 	and monitoring third parties SSO-02 Risk assessment of service providers and suppliers SSO-03 Directory of service providers and suppliers DCS Data • SSO-04
Security	Monitoring,	Center Monitoring of
governance	review and	Security compliance with
– Third party	change	(DCS-02) requirements
security	management	, ,

managemen t ownership and operations of data centres and infrastructur			of supplier services			PSS-12 Locations of Data Processing and Storage
e B.IS.9 Cooperation regarding information security – information security responsible	• GV.RR Roles, Responsibilit ies, and Authorities (GV.RR-01, 02, 03, 05)	 5.1 Leadership and commitme nt 5.3 Organizatio nal roles, responsibili ties, and authorities 7.1 Resources 	 5.2 Information security roles and responsibilities 5.3 Segregation of duties 	 1.3 Identify users and access requirements (1.3.3) 4.1 Prepare the organisation for incidents (4.1.3) 	 GRC Governance, Risk and Compliance (GRC-06) SEF Security Incident Management, E-Discovery & Cloud Forensics (SEF-08) 	
B.IS.10 Cooperation regarding information security - information security responsible - summoning meetings	GV.RM Risk managemen t strategy (GV.RM-05)					

B.IS.11	GV.RA Risk	• 5.7 Threat	• 1.1 Identify • SEF Security	OPS-13 Logging
Incident,	Assessment	intelligence	management Incident	and Monitoring –
Asset and	Strategy	• 5.24	structures, Managemen	S
Vulnerability	(GV.RM-05)	Information	deliverables E-Discovery	'
Managemen	ID.RA Risk	security	and Cloud	SIM-01 Policy for
t – Security	Assessment	incident	supporting Forensics	security incident
incident	(ID.RA-04,	management	systems (SEF-01 to	management
managemen	05)	planning and	(1.1.3) SEF-07)	• SIM-02
t and threat	• ID.AE	preparation	• 2.1 Include	Processing of
intelligence	Adverse	• 5.25	security	security
- processes	Event	Assessment	during	incidents
processes	Analysis	and decision	procurement	• SIM-03
	(DE.AE-02,	on	and	Documentation
	03, 04, 06,	information	development	and reporting of
	08)	security	processes	security
	• RS.MA	events	(2.1.10)	incidents
	Incident	• 5.26	• 3.3 Analyse	• SIM-05
	Management	Response to	data from	Evaluation and
	(RS.MA-01,	information	security	learning process
	02, 03, 04,	security	monitoring	tearning process
	05)	incidents	(3.3.6)	
	• RS.AN	incluents	• 4.1 Prepare	
	Incident		the	
	Analysis		organisation	
	(RS.AN-03,		for incidents	
	06, 07, 08)		(4.1.1, 4.1.2,	
	• RS.MI		4.1.3, 4.1.4,	
	Incident		4.1.5, 4.1.6)	
	Mitigation		• 4.2 Assess	
	(RS.MI-01,		and	
	02)		categorize	
	• RC.RP		incidents	
	Incident		meidenes	
	incident			

R IS 12	Recovery Plan Execution (RC.RP-01 to 06)	4.2.3 4.3 C and r incid (4.3.3 4.3.6 4.4 E and l from incid (4.4.1 4.4.3	Control manage dents 1, 4.3.2, 3, 4.3.5, 6) Evaluate learn n dents 1, 4.4.2, 3, 4.4.4)	ODS 21
B.IS.12 Incident, Asset and Vulnerability Managemen t – Security incident managemen t and threat intelligence – notification and documentati on	 DE.AE Adverse Event Analysis (DE.AE-04, 08) RC.CO Incident Recovery Communicat ion (RC.CO- 04) 	Information security incident management planning and preparation • 5.28 Collection of evidence • 6.8 Information security require management (1.3.3 • 3.3 A monitorial monito	alirements 3) Cloud Analyse a from Urity Initoring 6) Prepare Inisation Incidents 5) Assess	 OPS-21 Involvement of Cloud customers in the event of incidents SIM-01 Policy for security incident management SIM-02 Processing of security incidents SOM-03 Documentation and reporting of security incidents SIM-04 Duty of the users to

		(4.2.1, 4.2.2, 4.2.3, 4.3.5)	report security incidents to a central body INQ-02 Informing Cloud Customers about Investigation Requests
B.IS.13 Incident, Asset and Vulnerability Managemen t – Security incident managemen t and threat intelligence – Cooperation	 DE.AE Adverse Event Analysis (DE.AE-03, 06, 08) GV.SC Cybersecurit y Supply Chain Risk Management (GV.SC-08) RS.MA Incident managemen t (RS.MA-01) RS.CO Incident Response Reporting and Communicat ion (RS.CO-02, 03, 08) 	 1.3 Identify users and access requirements (1.3.3) 2.1 Include security during procurement and development processes (2.1.10) 3.3 Analyse data from security monitoring (3.3.6) 4.1 Prepare the organisation for incidents (4.1.4, 4.1.4) 	

			• 4.2 Assess	7
			and	
			categorize	
			incidents	
			(4.2.3)	
			Control and	
			manage	
			incidents	
			(4.3.5)	
B.IS.14	PR.PS	8.15 Logging	• 3.2 Establish	OPS-10 Logging
Incident,	Platform		security	and Monitoring –
Asset and	security		monitoring	Concept
Vulnerability	(PR.PS-04)		(3.2.4)	OPS-11 Logging
Managemen			• 4.2 Assess	and Monitoring –
t – Security incident			and	Metadata
			categorize incidents	Management
managemen t and threat			(4.2.1)	Concept • OPS-12 Logging
intelligence			• 4.3 Control	and Monitoring –
- Access to			and manage	Access, Storage
security logs			incidents	and Deletion
accumity togo			(4.3.3)	OPS-14 Logging
			(and Monitoring –
				Storage of the
				Logging Data
				OPS-15 Logging
				and Monitoring –
				Accountability
				 OPS-16 Logging
				and Monitoring –
				Configuration
				• PSS-01
				Guidelines and

B.IS.15 Incident, Asset and	• ID.RA Risk Assessm	8.7 Protection against malware	3.1 Detect and remove known		Recommendatio ns for Cloud Customers OPS-04 Protection Against Malware
Vulnerability Managemen t - Security incident managemen t and threat intelligence - Threat Intelligence	ent (ID.RA- 02, 03) • DE.AE Adverse Event Analysis (DE.AE- 07)		vulnerabilitie s and threats (3.1.2, 3.1.3) 3.3 Analyse data from security monitoring (3.3.4)		 Concept OPS-05 Protection Against Malware Implementation
B.IS.16 Incident, Asset and Vulnerability Managemen t - Security incident managemen t and threat intelligence - Malicious Software	• ID.RA Risk Assessm ent (ID.RA- 09)	8.7 Protection against malware	• 2.1 Include security during procurem ent and develop ment processe s (2.1.2, 2.1.3, 2.1.4) • 2.8 Protect email clients and browsers	• TVM Threat & Vulnerab ility Manage ment (TVM-02)	OPS-05 Protection Against Malware - Implementation

			(2.8.3, 2.8.4) • 3.1 Detect and		
			remove known vulnerabi lities and threats		
B.IS-17 Incident, Asset and Vulnerability Managemen t - Asset and Vulnerability Managemen t - Asset Managemen t	 ID.AM	 5.11 Return of assets 7.9 Security of assets off-premises 7.10 Storage media 7.14 Secure disposal or re-use of equipme nt 5.9 Inventory of informati 	(3.1.3) • 1.1 Identify manage ment structure s, deliverab les and supportin g systems (1.1.3) • 1.2 Identify devices and software (1.2.1, 1.2.2, 1.2.3, 1.2.4) • Include security	 HRS Human Resource s (HRS- 02, HRS- 05) CCC Change Control and Configur ation Manage ment (CCC-04) DCS Data Center Security (DCS-01, DCS-04, DCS-05, DCS-06) 	 AM-01 Asset Inventory AM-02 Acceptable Use and Safe Handling of Assets Policy AM-03 Commission ing of Hardware AM-04 Decommissi oning of Hardware AM-05 Commitmen t to Permissible Use, Safe Handling

		on and other associate d assets • 5.10 Acceptab le use of informati on and other associate d assets	during procurem ent and develop ment processe s (2.1.1, 2.1.2, 2.1.3) • 2.2 Establish a secure ICT architect ure (2.2.6) • 2.3 Maintain a secure configura tion (2.3.10)	 UEM Universal Endpoint Manage ment (UEM-01, UEM-02, UEM-04) DSP Data Security and Privacy Lifecycle Manage ment (DSP-02 to DSP-06) 	and Return of Assets • AM-06 Asset Classificatio n and Labelling • PI-03 Secure deletion of data
B.IS.18 Incident, Asset and Vulnerability Managemen t - Asset and Vulnerability Managemen t - Vulnerability	• ID.RA Risk Assessm ent (ID.RA- 01,08)	8.8 Managem ent of technical vulnerabi lities	 2.3 Maintain a secure configura tion (2.3.1 to 2.3.10) 2.5 Control data flow (2.5.4) 	• TVM Threat & Vulnerab ility Manage ment (TVM-01, TVM-03, TVM-03, TVM-07,	 OPS-18 Managing Vulnerabilities, Malfunctions and Errors Measurements, Analyses and Assessments

				T		
Managemen				• 2.8	TVM-08,	of
t				Protect	TVM-10)	Procedures
				email	• AIS	• OPS-22
				clients	Applicati	Testing and
				and	on &	Documentat
				browsers	Interface	ion of
				(2.8.3,	Security	known
				2.8.4)	(AIS-07)	Vulnerabiliti
				• 3.1	, ,	es
				Detect		• PSS-02
				and		Identificatio
				remove		n of
				known		Vulnerabiliti
				vulnerabi		es of the
				lities and		Cloud
				threats		Service
				(3.1.1)		Service
B.IS.19	• ID.RA	•	• 8.16	• 3.1	• TVM	
Incident,	Risk	•	Monitorin	Detect	Threat &	
Asset and	Assessm			and	Vulnerab	
Vulnerability	ent		g activities			
- 1				remove	ility	
Managemen	(ID.RA-		• 8.30	known	Manage	
t - Asset and	05)		Outsourc	vulnerabi	ment	
Vulnerability			ed 	lities and	(TVM-01,	
Managemen			develop	threats	TVM-05,	
t – third-			ment	(3.1.2)	TVM-10)	
party						
vulnerabiliti						
es						
B.IS.20					TVM Threat &	• OPS-18
Incident,					Vulnerability	Managing
Asset and					Management	Vulnerabilities,
Vulnerability						Malfunctions

Managemen t - Asset and Vulnerability Managemen t - Vulnerability Identificatio n and Scoring			(TVM-01, TVM-09)	and Errors – Concepts OPS-20 Managing Vulnerabilities, Malfunctions and Errors – Measurements, Analyses and Assessments of Procedures DEV-02 Outsourcing of the development PSS-02 Identification of Vulnerabilities of the Cloud Service PSS—03 Online Register of Known Vulnerabilities
B.IS.21 Incident, Asset and Vulnerability Managemen t - Asset and Vulnerability Managemen t -	ID.RA Risk Assessment (ID.RA-05)		TVM Threat & Vulnerability Management (TVM-01, TVM-09)	 OPS-18 Managing Vulnerabilities, Malfunctions and Errors – Concepts OPS-20 Managing Vulnerabilities, Malfunctions

Vulnerability Notification					and Errors – Measurements, Analyses and Assessments of Procedures • PSS-01 Guidelines and Recommendatio ns for Cloud Customers • PSS-02 Identification of Vulnerabilities of the Cloud Service • PSS-03 Online Register of Known Vulnerabilities
B.IS.22 Incident, Asset and Vulnerability Managemen t - Suspension of service due to security incidents and vulnerabiliti es	•		4.3 Control and manage incidents (4.3.2)	TVM Threat & Vulnerability Management (TVM-01)	 OPS-19 Managing Vulnerabilities, Malfunctions and Errors – Concept OPS-20 Managing Vulnerabilities, Malfunctions and Errors – Measurements, Analyses and

B.IS.23 Incident, Asset and Vulnerability Managemen t - Penetration testing	• ID.IM Improvemen t (ID.IM-02)		• 3.4 Perform penetration tests (3.4.1 to 3.4.6)	• TVM Threat & Vulnerability Management (TVM-06)	Assessments of Procedures
rights B.IS.24 Access Control and Customer Data – Security Access Managemen t	 PR.AA Identity Management , Authenticati on, and Access Control (PR.AA-01, 02, 03, 04, 05) PR.IR Technology Infrastructur e Resilience (PR.IR-01) 	 8.3 Information access restriction 5.15 Access control 5.17 Authenticatio n information 5.18 Access rights 8.5 Secure authenticatio n 8.2 Privileged access rights 	 1.3 Identify users and access requirements (1.3.1 to 1.3.3) 2.2 Establish a secure ICT architecture (2.2.6) 2.3 Maintain a secure configuration (2.3.7, 2.3.10) 2.4 Protect the organisation's networks (2.4.1, 2.4.2) 2.6 Control identities and access rights (2.6.1 to 2.6.7) 	 IAM Identity & Access Management (IAM-01 to IAM-07, IAM- 09, IAM-10, IAM-13 to IAM-16) DCS Datacenter Security (DCS-08) 	 PS-04 Physical site access control OPS-06 Data Protection and Recovery OPS-12 Logging and Monitoring – Access, Storage and Deletion IDM-01 Policy for user accounts and access rights IDM-02 Granting and change of user accounts and access rights IDM-03 Locking and withdrawal of user accounts in the event of inactivity or

		multiple failed loggings IDM-04 Withdraw or adjust access rights as the task area changes IDM-06 Privileged access rights IDM-08 Confidentiality of authentication information IDM-09 Authentication mechanisms PSS-01 Guidelines and Recommendation s for Cloud Customers PSS-05 Authentication Mechanisms PSS-08 Roles and Rights Concept PSS-09 Authorication
		Authorisation Mechanisms

B.IS.25 Access Control and Customer Data – Security Access Managemen t – Regular Access Reviews			• 2.6 Control identities and access rights (2.6.1)	• IAM Identity & Access Management (IAM-01, IAM- 08)	IDM-05 Regular review of access rights?
B.IS.26 Access Control and Customer Data - Flexible and fine-grained identity and access managemen t - Customer Identity and Access Managemen t	PR.AA Identity Management , Authenticati on, and Access Control (PR.AA-01 to 04)	 5.18 Access Rights 8.2 Privileged access rights 	1.3 Identify users and access requirements (1.3.1)	 IAM Identity & Access Management (IAM-01 to IAM-07, IAM- 09 to IAM-11, IAM-13 to IAM-16) DCS Data Center Security (DCS-08) 	 IDM-02 Granting and change of user accounts and access rights IDM-03 Locking and withdrawal of user accounts in the event of inactivity or multiple failed logins IDM-04 Withdraw or adjust access rights as the task area changes IDM-05 Regular review of access rights IDM-06 Privileged access rights

B.IS.27			• 5.23		IAM Identity	
Access			Information		& Access	
Control and			security for		Management	
Customer			use of cloud		(IAM-01, IAM-	
Data -			services		04)	
Flexible and			• 5.18 Use of			
fine-grained			privileged			
identity and			utility			
access			programs			
managemen			• 8.20			
t -			Networks			
Standards			security			
for Cross-			• 8.24 Use of			
domain			cryptography			
Identity			• 5.17			
Managemen			Authenticatio			
t			n information			
			8.5 Secure			
			authenticatio			
			n			
			• 8.20			
			Networks			
			security			
B.IS.28	• DE.CM	• 9.1	• 5.17	• 2.3 Maintain a	HRS Human	• IDM-08
Access	Continuous	Monitoring,	Authenticatio	secure	Resources	Confidentiality
Control and	Monitoring	measureme	n information	configuration	(HRS-04)	of
Customer	(DE.CM-01,	nt, analysis	8.5 Secure	(2.3.10)	• IVS	authentication
Data –	03, 06, 09)	and	authenticatio	• 2.4 Protect	Infrastructur	information
Secure	03, 00, 03)	evaluation	n	the	e &	• IDM-09
Remote		Cvataation	• 6.7 Remote	organisation'	Virtualization	Authentication
Access			working	s networks	Security (IVS-	mechanisms
/10003			working	(2.4.1, 2.4.2,	03, IVS-07,	mechanisms
				2.4.4)	IVS-09)	
				۷.4.4)	173-09)	

		8.20 Networks security 8.21 Security of network services	• 2.5 Control data flow (2.5.2, 2.5.5, 2.5.7)		 COS-01 Technical safeguards COS-03 Monitoring of connections in the Cloud Service Provider's network COS-04 Cross- network access PSS-01 Guidelines and Recommendatio ns for Cloud Customers PSS-05 Authentication Mechanisms PSS-07 Confidentiality of Authentication Information
B.IS.29 Access Control and Customer Data -	 PR.DS Data Security (PR.DS-05, 09) 	8.12 Data leakage prevention	 1.1 Identify management structures, deliverables and 	 DSP Data Security and Privacy Lifecycle 	PS-04 Physical site access control

Separation of Customer Data		Segregation of Networks 1. 2	ystems (DSF 1.1.6) • AIS	lication & frace urity (AIS-AIS-03) estructur ualization urity (IVS-	OPS-15 Logging and Monitoring – Accountability OPS-24 Separation of Datasets in the Cloud Infrastructure IDM-07 Access to cloud customer data COS-01 Technical safeguards COS-02 Security requirements for connections in the Cloud Service Provider's network COS-04 Crossnetwork access COS-05 Networks for administration COS-06 Segregation of data traffic in jointly used network environments
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B.IS.30 Access Control and Customer Data - Encryption	 ID.AM Asset Management (ID.AM-3) PR.DS Data Security (PR.DS-01, 	 5.33 Protection of records 5.34 Privacy and protection of 	 2.5 Control data flow (2.5.6) 2.7 Protect data at rest and in transit 	 CEK Cryptography , Encryption & Key Management (CEK-03) 	 COS-08 Policies for data transmission OPS-06 Data Protection and Recovery – Concept OPS-16 Logging and Monitoring –
of Customer Data – Protection of Customer Data	02, 05)	PII 8.24 Use of cryptography 8.18 Use of privileged utility programs 8.20 Networks security	(2.7.1 to 2.7.5) • 2.9 Establish capability to restore data (2.9.4)	 DCS Data Center Security (DCS-02) UEM Universal Endpoint Management (UEM-08, UEM-11) DSP Data Security and Privacy Lifecycle Management (DSP-01, DSP-10, DSP-17) 	Configuration IDM-07 Access to cloud customer data CRY-01 Policy for the use of encryption procedures and key management CRY-02 Encryption of data for transmission (transport encryption) CRY-03 Encryption of sensitive data for storage CRY-04 Secure key management

B.IS.31	• 8.20 Network	• 2.4 Protect	• CEK	 PSS-01 Guidelines and Recommendatio ns for Cloud Customers PSS-05 Authentication Mechanisms PSS-07 Confidentiality of Authentication Information Information PSS-08 Roles and Rights Concept OPS-06 Data
Encryption of Customer	security • 8.24 Use of	the organisation'	Cryptography , Encryption	Protection and Recovery –
Data – State of the Art	cryptography • 5.17	s networks (2.4.2)	& Key Management	Concept • CRY-01 Policy for
Encryption	Authenticatio n information	• 2.7 Protect data at rest	(CEK-01 to CEK-21)	the use of encryption
	8.5 Secure authenticatio n	and in transit (2.7.1 to 2.7.4)	 LOG Logging and Monitoring 	procedures and key management
			(LOG-10, LOG-11)	CRY-02 Encryption of
			200-11)	data for
				transmission (transport
				encryption)

					 CRY-03 Encryption of sensitive data for storage CRY-04 Secure key management
B.IS.32 Access Control and Customer Data - Encryption of Customer Data - Quantum Resistant Cryptograph ic Algorithms		8.24 Use of cryptography		CEK Cryptography , Encryption & Key Management (CEK-07)	 OPS-06 Data Protection and Recovery – Concept CRY-01 Policy for the use of encryption procedures and key management CRY-02 Encryption of data for transmission (transport encryption) CRY-03 Encryption of sensitive data for storage CRY-04 Secure key management
B .IS.33	PR.PS Platform	8.5 Secure	3.2 Establish	LOG Logging	OPS-10 Logging
Access	Security (PR.PS-04)	authenticatio	security	and	and Monitoring –
Control and		n		monitoring	Concept

Customer Data - Logging of access to Customer Data	8.15 Logging	monitoring (3.2.1 to 3.2.7)	(LOG-01 to LOG-05, LOG-07 to LOG-09, LOG-12, LOG-13) IAM Identity & Access Management (IAM-12) DSP Data Security and Privacy Lifecycle Management (DSP-01)	 OPS-11 Logging and Monitoring – Metadata Management Concept OPS-12 Logging and Monitoring – Access, Storage and Deletion OPS-14 Logging and Monitoring – Storage of the Logging Data OPS-15 Logging and Monitoring – Accountability OPS-16 Logging and Monitoring – Configuration IDM-07 Access to cloud customer data PSS-04 Error handling and
				handling and Logging Mechanisms
B.IS.34 Access Control and Customer Data - Logging of	 8.10 Information deletion 8.15 Logging 	3.2 Establish security monitoring (3.2.2)		 AM-04 Decommissioning of Hardware OPS-10 Logging and Monitoring – Concept

access to Customer Data – Retention Period				 OPS-11 Logging and Monitoring – Metadata Management Concept OPS-12 Logging and Monitoring – Access, Storage and Deletion OPS-14 Logging and Monitoring – Storage of the Logging Data OPS-15 Logging and Monitoring Accountability OPS-16 Logging and Monitoring – Configuration PI-02 Contractual agreements for the provision of data
B.IS.35	• 5.14		DCS Data	IDM-07 Access to
Access Control and	Information transfer		Center	cloud customer data
Customer	transier		security (DCS-02)	COS-08 Policies
Data -			DSP Data	for data
Notification			Security and	transmission
of relocation			Privacy	• PSS-12
of Customer			Lifecycle	Locations of
Data			Management (DSP-01)	Data Processing and Storage
B.IS.36	• 8.32 Change	• 2.3 Maintain a	CCC Change	DEV-03 Policies
Change	Management	secure	Control and	for changes to
Managemen			Configuration	J

t and Security by Design – Change Managemen t		configuration (2.3.5) • 2.10 Include security in the change management process (2.10.1 to 2.10.4) •	Management (CCC-01 to CCC-05, CCC- 07 to CCC-09) CEK Cryptography , Encryption & Key Management (CEK-05) Universal Endpoint Management (UEM-02, UEM-07) IVS Infrastructur e & Virtualization Security (IVS- 05) AIS Application & Interface Security (AIS, 04, AIS-06)	information systems DEV-05 Risk assessment, categorisation and prioritisation of changes DEV-06 Testing changes DEV-07 Logging of changes DEV-08 Version Control DEV-09 Approvals of provision in the production environments
B.IS.37 Change Managemen t and Security by Design – Change	 8.32 Change Management 6.3 Planning of Changes 		 CCC Change Control and Configuration Management (CCC-02) 	 DEV-03 Policies and changes to information systems DEV-05 Risk assessment, categorisation

Managemen t – Advance Notice					and prioritisation of changes DEV-06 Testing changes DEV-07 Logging of changes DEV-08 Version control DEV-09 Approvals for provision in the production environment
B.IS.38 Change Managemen t and Security by Design – Security by Design	ID.RA Risk Assessment (ID.RA- 09)	 8.9 Configuration management 8.26 Application security requirements 8.27 Secure system architecture and engineering principles 8.25 Secure development life cycle 5.8 Information security in 	 2.1 Include security during procurement and development processes (2.1.5, 2.1.6, 2.1.8) 2.3 Maintain a secure configuration (2.3.1 to 2.3.10) 2.8 Protect email clients and browsers (2.8.1 to 2.8.4) 	UEM Universal Endpoint Management (UEM-02, UEM-03, UEM-05, UEM-06, UEM-08 to UEM-13) CCC Change Control and Configuration Management (CCC-06) IVS Infrastructur e & Virtualization	 AM-03 Commissioning of Hardware OPS-16 Logging and Monitoring – Configuration OPS-23 Managing Vulnerabilities, Malfunctions and Errors – System Hardening COS-03 Monitoring of connections in the Cloud Service

		project management		Security (IVS-04) • AIS Application & Interface Security (AIS-02) • LOG Logging and Monitoring (LOG-06)	Provider's network COS-07 Documentation of the network topology PI-01 Documentation and safety of input and output interfaces DEV-01 Policies for the development / procurement of information systems PSS-01 Guidelines and Recommendations for Cloud Customers
B.IS.39 Change Managemen t and Security by Design – Security by Design – Testing	ID.IM Improvement (ID.IM-02)	 8.25 Secure development life cycle 8.29 Security testing in development and acceptance 8.33 Test information 	• 2.1 Include security during procurement and development processes (2.1.6, 2.1.7)	 AIS Application & Interface Security (AIS-05) CCC Change Control and Configuration Management (CCC-02) 	 DEV-01 Policies for the development / procurement of information systems DEV-02 Outsourcing of the development DEV-06 Testing changes

B.IS.40 Change Managemen t and Security by Design – Standards and Best Practices		 8.4 Access to source code 8.27 Secure system architecture and engineering principles 8.28 Source coding 	2.1 Include security during procurement and development processes (2.1.4, 2.1.5, 2.1.8)	 CCC Change Control and Configuration Management (CCC-06) IVS Infrastructur e & Virtualization Security (IVS-04) DSP Data Security and Privacy Lifecycle Management (DSP-07, DSP-08) 	DEV-01 Policies for the development/ procurement of information systems
B.IS.41 Business Continuity – Business Continuity and Disaster Recovery	PR.IR Technology Infrastructur e Resilience (PR.IR-03)	 8.14 Redundancy of information processing facilities 5.29 Information security during disruption 5.30 ICT readiness for business continuity 	 4.1 Prepare the organisation for incidents (4.1.2, 4.1.6) 4.3 Control and manage incidents (4.3.1, 4.3.2) 	BCR Business Continuity Management and Operational Resilience (BCR-01, BCR-03 to BCR-07, BCR-09, BCR-10)	 PS-02 Redundancy model OPS-06 Data Protection and Recovery – Concept OPS-07 Data Backup and Recovery – Monitoring OPS-09 Data Backup and Recovery – Storage

					 OPS-17 Logging and Monitoring – Availability of the Monitoring Software BCM-01 Top management responsibility BCM-02 Business impact analysis policies and instructions BCM-03 Planning business continuity BCM-04 Verification, updating of the business continuity
B.IS.42 Business Continuity – Business Continuity and Disaster Recovery – Capacity	PR.IR Technology Infrastructure Resilience	 8.6 Capacity Management 	• 2.2 Establish a secure ICT architecture (2.2.7)	 IVS Infrastructur e & Virtualization Security (IVS-02) BCR Business Continuity 	 OPS-01 Capacity Management – Planning OPS-02 Capacity Management – Monitoring OPS-03 Capacity Management –
Managemen t				Management and Operational Resilience (BCR-11)	Controlling and Resources

B.IS.43 Business Continuity – Backup and Restore of the Supplier's Systems	 PR.DS Data Security (PR.DS-11) RC.RP Incident Recovery Plan Execution (RC.RP-03) 	Information cap backup rest	Establish ability to core data .1 to 2.9.4) BCR Business Continuity Management and Operational Resilience (BCR-08)	 OPS-06 Data Protection and Recovery – Concept OPS-07 Data Backup and Recovery – Monitoring OPS-08 Data Backup and Recovery – Regular Testing OPS-09 Data Backup and Recovery - Storage
Physical and Personnel Security – Physical Security	Identity Management , Authenticati on, and Access Control (PR.AA-06) • PR.IR Technology Infrastructur	maintenance 8.1 User endpoint devices 7.1 Physical security perimeters 7.5 Protecting against physical and s ne	curement (DCS-03, DCS-07, DCS-09 to DCS-15) cesses (A) Protect anisation' etworks	Security and Environmental Control Requirements • PS-03 Perimeter Protection • PS-04 Physical site access control • PS-05 Protection against threats
	e Resilience (PR.IR-02) • DE.CM Continuous Monitoring	environmenta (2.4 l threats • 7.2 Physical entry	.2, 2.4.3)	from outside and from the environment PS-06 Protection against

	(DE.CM-02, 03)		 7.3 Securing offices, rooms and facilities 7.6 Working in secure areas 7.8 Equipment siting and protection 7.11 Supporting utilities 7.12 Cabling security 7.4 Physical security monitoring 		interruptions caused by power failures and other such risks
B.IS.45 Physical and Personnel Security – Physical Security – Audits	• ID.IM Improvemen t (ID.IM-01, 02)			• A&A Audit & Assurance (A&A-02, A&A-03)	 PS-01 Physical Security and Environmental Control Requirements
B.IS.46 Physical and Personnel Security – Personnel Security	 GV.RR Roles, Responsibilit ies, and Authorities (GV.RR-04) PR.AT Awareness and Training 	 7.2 Competence 7.3 Awareness 	 5.4 Management responsibiliti es 6.3 Information security awareness, 	 DCS Data Center Security (DCS-11) HRS Human Resources (HRS-03, HRS-05 to HRS-13) 	 HR-02 Employment terms and conditions HR-03 Security training and awareness programme

	(PR.AT-01, 02)	education and training • 6.6 Confidentialit y or non- disclosure agreements • 6.2 Terms and conditions of employment • 6.5 Responsibiliti es after termination or change of employment • 6.4 Disciplinary process		 HR-04 Disciplinary measures HR-05 Responsibilities in the event of termination or change of employment HR-06 Confidentiality agreement DEV-04 Safety training and awareness programme regarding continuous software delivery and associated systems, components or tools. SSO-01 Policies and instructions for controlling and monitoring
B.IS.47 Physical and Personnel Security – Personnel	 GV.RR Roles, Responsibilit ies, and Authorities (GV.RR-04) 	• 6.1 Screening	HRS Human Resources (HRS-01)	HR-01 Verification of qualifications and trustworthiness

Security –				
Security				
Screening				
and				
Clearance				
B.IS.48	• ID.IM		 A&A Audit & 	
Physical and	Improvemen		Assurance	
Personnel	t (ID.IM-02)		(A&A-02, A&A-	
Security –			03)	
Personnel				
Security –				
Audits				

1.3 Cloud Enablement Security Requirements Mapping Table

CSRA Requireme nt	NIST CSF 2.0	ISO 27001:2022	ISO 27002:2022	NSM Grunnprinsipper for IKT-sikkerhet 2.1	CSA CCM V4.0.12	BSI C5:2020 (Cloud Computing Compliance Criteria Catalogue)
C.1 Security Architecture			8.27 Secure system architecture and engineering principles	 Identify manageme nt structures, deliverable s and supporting systems (1.1.5, 1.16) 2.1 Include security during procureme 	• IVS Infrastructur e & Virtualization Security (IVS- 08, IVS-09,	 DEV-01 Policies for the development/ procurement of information systems PSS-06 Session management PSS-10 Software- defined networking PSS-11 Images for Virtual

			nt and developme nt processes (2.1.1, 2.1.10) • 2.2 Establish a secure ICT architectur e (2.2.1 to 2.2.7) • 2.5 Control data flow (2.5.3, 2.5.8) • 3.3 Analyse data from security monitoring		Machines and Containers
			(3.3.1 to 3.3.7)		
C.2 Secure Cloud Adoption	PR.PS Platform Security (PR.PS-01, 02, 03, 06)	 8.9 Configurati on manageme nt 5.23 Information security for use of cloud services 	• 1.1 Identify manageme nt structures, deliverable s and supporting systems (1.1.5) • 2.1 Include security	IVS Infrastructur e & Virtualization Security (IVS- 01)	 AM-03 Commissioning of Hardware AM-04 Decommissioning of Hardware OPS-16 Logging and Monitoring – Configuration OPS-23 Managing Vulnerabilities

	8.25 Secure developme nt life cycle 8.31 Separation of developme nt, test, and production environmen ts 8.31 Separation of developme nt processes (2.1.1, 2.1.6) 9 2.3 Maintain a secure configurati on (2.3.1)	and Errors – System Hardening COS-03 Monitoring of connections in the Cloud Service Provider's Network PI-01 Documentation and safety of input and output interfaces DEV-01 Policies for the development/ procurement of information systems DEV-10 Separation of environments SSO-05 Exist strategy for the receipt of benefits PSS-01 Guidelines and Recommendation s for Cloud Customers
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C.3 Governance and Compliance Dashboard C4 Governance and Compliance Matrix – Internationa I Standards and Frameworks	• GV.OC Organizationa I Context (GV.OC-03)	 5.2 Policy 7.4 Communicati on 8.1 Operational planning and control 	• 5.31 Legal, statutory, regulatory and contractual requiremen ts		• GRC Governance, Risk and Compliance (GRC-07)	COM-01 Identification of applicable legal, regulatory, selfimposed or contractual requirements
C5 Governance and Compliance Matrix – National Standards and Frameworks	GV.OC Organizationa I Context (GV.OC-03)	• 8.1 Operational planning and control	• 5.31 Legal, statutory, regulatory and contractual requiremen ts		• GRC Governance, Risk and Compliance (GRC-07)	COM-01 Identification of applicable legal, regulatory, self-imposed or contractual requirements
C.6 Security in multi- cloud and hybrid cloud environmen ts			• 8.7 Protection against malware	• 1.1 Identify manageme nt structures, deliverable s and supporting systems (1.1.5)	• IPY Interoperabili ty & Portability (IPY-01 to IPY-04)	OPS-05 Protection Against Malware - Implementation

C.7 Cryptograph y		8.24 Use of cryptograp hy	 2.2 Establish a secure ICT architectur e (2.2.2) 2.7 Protect data at rest and in transit (2.7.1 to 2.7.5) 2.9 Establish capability to restore data (2.9.5) 	CEK Cryptography , Encryption & Key Management (CEK-07)	 OPS-06 Data Protection and Recovery –
					Encryption of sensitive data for storage • CRY-04 Secure
	CV PP P I	2.1			key management
C.8 Legal and	 GV.RR Roles, Responsibiliti 	6.1 Screening			 HR-01 Verification
Regulatory –	es, and	Screening			of
Regulatory -	es, anu				qualification
					qualification

Personnel	Authorities				and
security	(GV.RR-04)				trustworthin
Security	(00.1010-1)				ess
C.9 National		• 8.3	• 3.2	DSP Data	OPS-06 Data
Location		Information	Establish	Security and	Protection
Location		access	security	Privacy	and Recovery
		restriction	monitoring	Lifecycle	- Concept
		• 5.14	(3.2.2)	Management	• OPS-12
		Information	(3.2.2)	(DSP-19)	Logging and
		transfer		(551 15)	Monitoring –
		Cranorer			Access,
					Storage and
					Deletion
					● IDM-07
					Access to
					cloud
					customer
					data
					• COS-08
					Policies for
					data
					transmission
					• SSO-03
					Directory of
					service
					providers
					and suppliers
					 PSS-08 Roles
					and Rights –
					Concept
					• PSS-12
					Locations of
					Data

					Processing and Storage
C.10 EU / EEA Location		 8.3 Information access restriction 5.14 Information transfer 	• 3.2 Establish security monitoring (3.2.2)	DSP Data Security and Privacy Lifecycle Management (DSP-19)	 OPS-06 Data Protection and Recovery – Concept OPS-12 Logging and Monitoring – Access, Storage and Deletion IDM-07 Access to cloud customer data COS-08 Policies for data transmission SSO-03 Directory of service providers and suppliers PSS-08 Roles and Rights – Concept PSS-12 Locations of Data Processing and Storage
C.11 Training and Awareness	 GV.RR Roles, Responsibiliti es, and Awareness (GV.RR-04) 	 6.3 Information security awareness, education and training 	 4.1 Prepare the organisatio n for incidents (4.1.3) 	 HRS Human Resources (HRS-11, HRS-12) DCS Data Center 	 HR-03 Security training and awareness programme DEV-04 Safety training and

		 7.7 Clear desk and clear screen 8.7 Protection against malware 	Security (DCS-11)	awareness programme
C.12 Professional Services				

