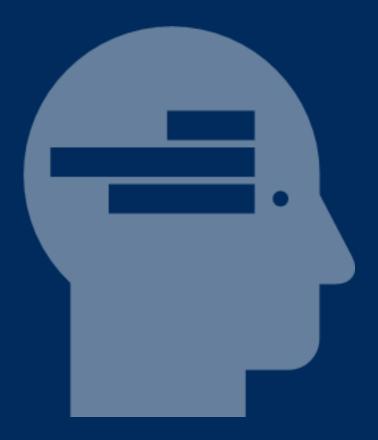


DFØ August 2025

MPS Cloud Reference Architecture v1.1

Information Security and Data Protection Requirements for Cloud Contracts



Change Log

| Version | Date | Description | |
|---------|------------|---|--|
| 0.9 | 27.08.2024 | First published version | |
| 1.0 | 01.04.2025 | Revised requirements based on feedback from reference group, users of the contract, and suppliers Added data protection requirements Added mapping table to ISO 27001, NIST CSF 2.0, NSM Grunnprinsipper for IKT-sikkerhet 2.1, and CSA CCM V4.0.12 | |
| 1.0.1 | 09.04.2025 | Minor corrections | |
| 1.1 | 22.08.2025 | Added BSI C5:2020 (Cloud Computing Compliance Criteria Catalogue) to the standards mapping table | |

1 Preface

As the public sector adopts cloud computing as a key enabler for its digital transformation, information security and data protection represent critical risk areas. At the same time, cybersecurity risks are highlighted as a strategic area by national security authorities, with nation-state threat actors and advanced cybercrime organizations targeting vulnerabilities in digital services and infrastructure.

This document presents the Norwegian Public Sector Cloud Marketplace (MPS) Cloud Reference Architecture: Information Security and Data Protection Requirements for Cloud Contracts. Its primary purpose is to strengthen information security and data protection in the Norwegian public sector, through verifying the security of cloud services ("security of the cloud") and enabling secure adoption of cloud services ("security in the cloud").

We use the term "MPS Cloud Reference Architecture: Information Security and Data Protection Requirements for Cloud Contracts" as a concept to describe the overall principles, methodology, and requirements for information security and data protection developed for cloud services by MPS. This document represents a key part of the reference architecture – the information security and data protection requirements.

The document is based on international and national laws, standards, and frameworks, and example cloud agreements. It is developed in cooperation with public sector entities, cloud vendors, and relevant authorities, and it is tested in framework agreement procurement processes at MPS.

The document is intended to be used for cloud services in the public sector, both the public sector (customers) and cloud service providers (suppliers). It should be noted that the requirements outlined are intended to be used as a reference, and that not all requirements apply in all cases. Users should review and select applicable parts of the document, and add additional requirements as needed.

The document will be continuously updated through user feedback, with new additions. This version – v1.1 - incorporates BSI's C5:2020 (Cloud Computing Compliance Criteria Catalogue) in the compliance mapping tables.

We hope this comes to good use!

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2 Introduction

This document contains the first version of the MPS Cloud Reference Architecture Information Security and Data Protection Requirements for Cloud Contracts, developed and published by the Norwegian Public Sector Cloud Marketplace (MPS) at the Norwegian Agency for Public and Financial Management (DFØ).

The purpose of the document is to strengthen information security and data protection in the Norwegian public sector through making available a set of information security and data protection requirements, enabling the public sector to set requirements and verify the security and privacy of cloud services ("security of the cloud"), but also to succeed with managing risks in their cloud adoption ("security in the cloud").

We use the term "MPS Reference Architecture" as a concept to describe the overall principles, methodology, and requirements for information security and data protection developed for cloud services by MPS. The "MPS Cloud Reference Architecture" will be developed over time and is intended to include information security and data protection requirements (this document) with a mapping to relevant legal / regulatory requirements and security standards / frameworks, vendor input and evaluation forms, as well as the vendors' responses to the requirements, including the vendors' security architectures.

It is important to stress that public sector buyers should make a thorough assessment of each requirement in the particular context of their intended use of the cloud services, following a risk-based approach. As a starting point, requirements that limit or skew competition in a public procurement process should not be used unless this is based on legitimate needs and requirements, e.g., regulatory requirements.

2.1 Audience

The document and the outlined requirements are written for the Norwegian public sector and vendors of cloud services and are intended to be used as a reference for procurement, contract management, and vendor management related to cloud services in the public sector.

The document is written in English as the cloud services market is international. A Norwegian translation is available as part of the guidance provided by the Norwegian¹ Public Sector Cloud Marketplace.

2.2 Structure and Methodology

The Cloud Security Reference Architecture Information Security Requirements for principal, basic and optional security requirements in Cloud Contracts, is developed during the period 2022-24 in dialogue with users in the Norwegian public sector (government, counties and municipalities), vendors and relevant authorities.

¹ markedsplassen.anskaffelser.no

The requirements are based on international standards and frameworks (including ISO 27001 and NIST Cyber Security Framework 2.0, also referred to as NIST CSF, and the BSI C5:2020 (Cloud Computing Compliance Criteria Catalogue)), Norwegian standards and frameworks (including NSM ICT Security Principles and "Normen"), legal frameworks (including GDPR, NIS2, the Norwegian Security Act, and the Norwegian Digital Security Act), and a comprehensive assessment of information security and data protection requirements from both national (government and municipalities) and international example contracts. A comprehensive overview of referenced standards and frameworks is included as an appendix, and a mapping table with relevant laws, standards, and frameworks will be provided at a later stage.

The requirements are further tested in procurement processes and market assessments at the Norwegian Public Sector Cloud Marketplace, where the vendors have had the opportunity to ask questions and to give input to the requirements.

The requirements are structured in 3 sections, as follows:

- A. **Principal requirements:** High-level information security and data protection requirements intended to be included in the main contract of cloud services agreements.
- B. Basic information security and data protection requirements: A comprehensive set of information security requirements intended to be included as a security annex in cloud services agreements. As a general rule, this section defines requirements for the Supplier and the Service(s) provided, i.e., "security of the cloud".
- C. **Optional information security and data protection requirements:** A set of optional information security requirements intended to support the Norwegian public sector with a secure and compliant cloud adoption, i.e., "security in the cloud", supported by the vendor's reference architecture, specific national requirements, and other security related services.

It should be noted that the requirements are intended to be used as a reference, and that all requirements do not apply in all cases. Users of the Cloud Security Reference Architecture should review and select applicable requirements, and add additional requirements as required. This evaluation should include whether the requirements are mandatory requirements, evaluation requirement, optional requirements, or documentation requirements. To determine the applicable requirements for each environment, it is advisable to adopt a risk-based approach, guided by recognized frameworks such as those previously mentioned.

The following key terms are used in the document:

- Contract: The cloud service agreement between Customer and Supplier
- Service: The cloud services in question (i.e., laaS, PaaS and/ or SaaS²)
- Customer: The entity buying or consuming cloud services
- Supplier: The cloud service provider
- Personal Data: Any information relating to an identified or identifiable natural person (cf. the GDPR art. 4 no. 1

² Infrastructure-as-a-Service, Platform-as-a-Service, Software-as-a-Service

The term "such as" is used in the requirements to provide examples, such as relevant laws, standards, technologies, and products. Such examples are not to be considered complete (i.e., the lists are not exhaustive) or mandatory (i.e., the Supplier(s) are not required to support all examples provided.)

3 Principal Security Requirements

This chapter contains high level information security and data protection requirements intended to be included in the main contract of cloud services agreements. The purpose of this chapter is to define high level requirements for the Supplier and the Service(s) in scope (i.e., "security of the cloud".)

| Number | Category | Requirement | |
|--------|------------|--|--|
| A.1 | Purpose | The Supplier acknowledges that information security is of critical importance to the Norwegian government and the Customer under this Agreement. | |
| A.2 | Purpose | The Supplier shall ensure that all security risks are managed in a vigilant manner and take all necessary measures to protect the offered Services from all levels of internal and external threats, including, but not limited to, nation state targeted network and intelligence | |
| A.3 | Compliance | to, nation state targeted network and intelligence operations. The Supplier (and any person or entity acting on its behalf, including Subcontractors, and any Affiliate) shall; A) comply with all Laws applicable to the Supplier in general, including those concerning security, bribery, corruption, and fraud; B) offer Services that are in accordance with applicable Laws and that will enable the Customers to comply with applicable Laws relevant for the Services, including the Regulation (EU) 2016/679 (GDPR) (where applicable) and the Norwegian Act no 38 of 15 June 2018 relating to the Processing of Personal Data (Personal Data Act); and C) comply with the highest standards of business ethics, i.e., establish and maintain robust processes and controls to ensure ethical | |
| A.4 | Compliance | chain. The Supplier shall comply with international standards and frameworks for information security. | |
| | | The Supplier shall achieve and maintain information security and data protection compliance in accordance with international standards and frameworks, such as ISO/IEC 27001:2022, NIST Cybersecurity Framework v.2.0, or other substantially equivalent standard(s) for | |

| Number | Category | Requirement | |
|--------|---------------|--|--|
| | | information security management and any updates to such standards. | |
| A.5 | Documentation | The Supplier shall, within 30 (thirty) days after a written request from the Customer, provide reasonable documentation to verify compliance of any security or data protection provisions in the Contract. | |
| A.6 | Notification | In the event of a serious security incident or significantly increased threat to the information security relating to the provisioning of the Services, the Supplier shall provide an initial notification in writing or by phone directly to the Customer within 24 hours and a report of the incident within 72 hours. This equally applies to compromises of personal information. | |
| A.7 | Audit | The Customer shall, by itself or by use of a third party, have the right to carry out audits of the Supplier in order to: A) verify that the Supplier is complying with this Agreement; B) carry out general IT security risk audits/reviews; C) carry out data security and data protection audits/reviews; or D) accommodate requests from Norwegian security authorities and for compliance with Laws, hereunder the Norwegian Act no 24 of 1 June 2018 relating to national security (the Security Act). | |
| A.8 | Governance | The Supplier shall appoint a security responsible at an executive level as a counterpart to the Customer, who is responsible for strategic security meeting places, reporting, and follow-up of material risks, incidents, and vulnerabilities. | |

4 Basic Information Security and Data Protection Requirements

This section contains a comprehensive set of information security and data protection requirements intended to be included as a security annex in cloud services agreements. The purpose of this chapter is to define basic requirements for the Supplier and the Service(s) in scope (i.e., "security of the cloud".)

It is recommended that the requirements are reviewed for the scope in question and adjusted accordingly, including adding new or removing unnecessary requirements.

Please note that there is an intended redundancy between some of the principal requirements (level A) and the basic information security and data protection requirements (level B). This is to support more complex contract structures, such as framework agreements, and it is indicated through cross-references (footnotes). This can be simplified by removing redundant requirements in level A or B respectively.

4.1 Basic Information Security Requirements

| Number | Category | Title | Requirement |
|---------------------|------------|----------------|--|
| B.IS.1 ³ | Security | Compliance | The Supplier shall achieve and maintain |
| | Governance | with standards | information security and data protection |
| | | and frameworks | compliance in accordance with: |
| | | | a) ISO 27001:2022, NIST Cybersecurity |
| | | | Framework 2.0 or other substantially |
| | | | equivalent standard(s) for information |
| | | | security management and any |
| | | | updates to such standards; |
| | | | b) cloud specific frameworks, such as |
| | | | ISO 27017, CCM-CSA, C5 and FedRAMP |
| | | | or other equivalent standards. |
| B.IS.2 | Security | Information | The Supplier shall establish and maintain an |
| | Governance | security | effective information security management |
| | | management | system that considers all information security |
| | | system | risks, including both external threats and |
| | | | insider risks. The Services shall comply with |
| | | | requirements set forth in ISO/IEC 27001:2022, |
| | | | or equivalent standards. |

³ See also requirement A.4

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| Number | Category | Title | Requirement |
|--------|------------------------|---|---|
| B.IS.3 | Security Governance | Assurance | The Supplier shall, either on-line or upon request, provide documentation that verifies independent assurance of the Supplier's information security management system through ISO/IEC 27001:2022 certifications, SOC2 Type 2 reports, C5, FedRAMP or equivalent evidence. The Supplier shall maintain the assurance at an equivalent or higher level throughout the duration of the Contract. |
| B.IS.4 | Security Governance | Security audit and security testing obligations – Regular Security Audits and Testing | The Supplier shall ensure the security of the Service(s) through regular external and internal security audits and security testing. If evidence from the Supplier's security audits indicate the need for sharing more detailed information with the customer, the Supplier shall provide specifications of the type, scope, and frequency of the testing. |
| B.IS.5 | Security Governance | Security audit and security testing obligations – Documentation and Remediation | The Supplier shall address issues identified in security audits or security tests that are relevant to the Service(s) without undue delay and provide the Customer with a copy of the security audit or testing report upon request. In the event that the document contains Supplier Confidential information, then either a redacted version will be supplied or alternative evidence that the issue has been satisfactorily rectified. |
| B.IS.6 | Security Governance | Access to Security Documents | The Supplier shall, either on-line or upon request, make available to the Customer relevant documents necessary to demonstrate compliance with the obligations laid down in the Contract. |
| B.IS.7 | Security Governance | Third Party Security Management – Security Requirements | The Supplier shall ensure that third parties (e.g., vendors, services, subcontractors, and software providers) used in providing the Services to the Customer under the Contract fulfil the security requirements, or substantially equivalent security requirements, set out in this Contract. |

| Number | Category | Title | Requirement |
|----------------------|---|---|---|
| B.IS.8 | Security Governance | Third Party Security Management – Ownership and Operations of Data Centres and Infrastructure | The Supplier shall notify the Customer, for the purpose of assessing foreign ownership risks, in advance of any planned changes to the ownership or operation of the data centres or infrastructure used to deliver the Service(s). Such notice shall include the identity of the new third-party owner or operator, if applicable, and any potential impact on the provision of the Services. This requirement is limited to data centres and infrastructure used to provision the Service(s) in the EU/EEA. |
| B.IS.9 ⁴ | Cooperation regarding Information Security | Information security roles and responsibilities – point of contact | The Supplier shall appoint an information security manager role or other point of contact under the Contract as a counterpart to the Customer, who is responsible for updating the Customer on the Suppliers security strategy and roadmaps, security products and services, risks, incidents, and vulnerabilities. The Customer shall be entitled to escalate any security issues at an executive level. |
| B.IS.10 | Cooperation regarding information security | Information security roles and responsibilities – Summoning meetings | Both Parties can summon a meeting with 7 (seven) days' written notice. |
| B.IS.11 | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - Processes | The Supplier shall establish and maintain processes for security incident management and threat intelligence. This includes actively detect, identify and respond to threats and security incidents, including those arising from third parties or third-party components in the Service(s). |
| B.IS.12 ⁵ | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - | In the event of a serious security incident or significantly increased threat to the information security relating to the provisioning of the Services, the Supplier shall, through the Suppliers established |

⁴ See also requirement A.8

⁵ See also requirement A.6

| Number | Category | Title | Requirement |
|---------|---|--|--|
| | | Notifications and Documentation | processes, provide an initial notification directly to the Customer within 24 hours and a report of the incident within 72 hours. This equally applies to compromises of personal information. |
| | | | The report shall include information about the systems, services and information affected, along with an assessment of the impact on the Customer and a remediation plan. |
| B.IS.13 | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - Cooperation | In the event of a serious security incident, the Supplier shall cooperate with relevant vendors appointed by the Customer, such as ICT outsourcing partners, cloud vendors and managed security services providers appointed by the Customer, to ensure the operational information security of the Customer's systems. |
| B.IS.14 | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - Access to Security Logs | In the event of security breaches in the Services, the Supplier shall maintain and on either on-line or on request from the Customer provide access to a security log of all incidents concerning Customer Data, including log data and relevant indicators of compromise, for Customer incident analysis and digital forensic purposes. |
| B.IS.15 | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - Threat Intelligence | The Supplier shall perform threat intelligence for the Service(s) in scope and continuously, or at least daily, update indicators of compromise (IoCs) and malware definitions. |
| B.IS.16 | Incident, Asset and Vulnerability Management | Security incident management and threat intelligence - Malicious Software | The Supplier shall, while performing under the Contract, ensure that all software and storage media used in the provisioning of the Service(s) is free of any known malicious software. |

| Number | Category | Title | Requirement |
|---------|---|---|--|
| B.IS.17 | Incident, Asset and Vulnerability Management | Asset and Vulnerability Management – Asset Management | The Supplier shall establish and maintain processes for management and control of enterprise and software assets used in provisioning the Service(s). This includes keeping updated asset inventories with asset ownership, detecting and managing unauthorized assets, and managing relevant controls. |
| B.IS.18 | Incident, Asset and Vulnerability Management | Asset and Vulnerability Management – Vulnerability Management | The Supplier shall establish and maintain processes for managing vulnerabilities in the Services. This includes performing security patching and implementing other compensating measures. |
| B.IS.19 | Incident, Asset and Vulnerability Management | Asset and Vulnerability Management – third-party vulnerabilities | The Supplier shall monitor third-party vulnerability notifications and other relevant security vulnerability advisories. |
| B.IS.20 | Incident, Asset and Vulnerability Management | Asset and Vulnerability Management – Vulnerability Identification and Scoring | Each vulnerability identified in the Service(s) shall be assigned a unique Common Vulnerability and Exposures ("CVE") identifier and a Common Vulnerability Scoring System ("CVSS") score. The Supplier shall maintain a record of all identified vulnerabilities. |
| B.IS.21 | Incident, Asset and Vulnerability Management | Asset and Vulnerability Management – Vulnerability Notification | The Supplier shall, either through established notification channels or in writing, notify the Customer without undue delay of any vulnerabilities identified in the Services, including vulnerabilities from 3 rd party vendors used to produce the Service, with a CVSS score of 9.0 to 10.0 (Critical) or 7.0 to 8.9 (High). The notification shall include information about the systems and information affected, along with an assessment of the impact on the Customer, and a remediation plan. The Supplier shall provide necessary support and information to the Customer and take appropriate actions to manage and mitigate risks associated with such vulnerabilities. |

| Number | Category | Title | Requirement |
|---------|---|--|---|
| B.IS.22 | Incident, Asset and Vulnerability Management | Suspension of service due to security incidents or vulnerabilities | In the event of a serious security incident or vulnerability affecting the provisioning of the Services, the Supplier shall offer to suspend the Services until the situation has been resolved or the Supplier has remedied the issue to the Customer's satisfaction. The Supplier shall assist the Customer with suspending the Services upon request. |
| B.IS.23 | Incident, Asset and Vulnerability Management | Penetration testing rights | The Customer, shall, by itself or by use of a third party, have the right to perform penetration testing of the Service(s) according to procedures defined and maintained by the Supplier, to identify and analyse potential security vulnerabilities and risks. |
| B.IS.24 | Access Control and Customer Data | Security Access Management | The Supplier shall implement and maintain strict access control policies and procedures to ensure that only identified and authorised employees and third parties have access to the Service(s) and their management system. The policies must, at minimum, address privileged access management, password management, authentication, authorisation, provisioning, change of role or work tasks and revocation of terminated users, separation of duties, approval workflows, and just-enough and just-in-time administration. |
| B.IS.25 | Access Control and Customer Data | Security Access Management – Regular Access Reviews | The Supplier shall conduct regular access review to ensure compliance with the established access control policies and procedures. |
| B.IS.26 | Access Control and Customer Data | Flexible and fine-grained identity and access management – Customer Identity and Access Management | The Supplier shall provide the Customer with flexible and fine-grained mechanisms for identity and access management. This includes supporting integration with the Customer's existing identity and access management systems, such as user directories. |

| Number | Category | Title | Requirement |
|---------|---|---|--|
| B.IS.27 | Access Control and Customer Data | Flexible and fine-grained identity and access management – Standards for Cross-domain Identity Management | The Supplier shall support relevant standards such as SCIM 2.0 or IETF RFC 7643 for crossdomain identity management. |
| B.IS.28 | Access Control and Customer Data | Secure Remote Access | The Supplier shall ensure that any remote access to the Service(s) by its employees and third parties is secured with effective encryption and phishing resistant authentication measures in accordance with best industry practices, and that security gateways (enabling security policy enforcement, security monitoring, etc.) are used to control access between the Internet and the Supplier's Service(s). |
| B.IS.29 | Access Control and Customer Data | Separation of Customer Data | The Supplier shall keep all Customer Data logically separate from the data of any third parties in order to eliminate the risk of compromising data and/ or unauthorised access to data. Logically separate means the implementation and maintenance of necessary and technical measures to secure data against undesired change or access. Undesired changes or access shall include access by the Supplier's personnel or others who do not need access to the information in their work for Customer. |
| B.IS.30 | Access Control and Customer Data | Encryption of Customer Data – Protection of Customer Data | The Supplier shall ensure protection of Customer Data in transit and at rest, both internally within the Service(s) and for inbound/outbound traffic, including web access, APIs and administrative accesses. |
| B.IS.31 | Access Control and Customer Data | Encryption of Customer Data – State of the Art Encryption | To achieve this protection, the Supplier shall implement measures such as state of the art encryption in transit and at rest and phishing resistant authentication. State of the art shall |

| Number | Category | Title | Requirement |
|---------|---|--|--|
| | | | be interpreted as industry best practice with regards to choice of cryptographic protocols and algorithms. |
| B.IS.32 | Access Control and Customer Data | Encryption of Customer Data – Quantum Resistant Cryptographic Algorithms | The Supplier should document its roadmap to ensure that cryptographic algorithms used in the Service(s) are quantum resistant, in accordance with, e.g., CNSA 2.0 ("Commercial National Security Algorithm Suite 2.0"), NIST standards for post-quantum cryptography, "NSMs veileder for kvantemigrering", "NSMs kryptografiske anbefalinger (utkast 2024)", or similar. |
| B.IS.33 | Access Control and Customer Data | Logging of access to Customer Data | The Supplier shall maintain logs of all access to Customer Data by its own employees and any of its third parties and shall make such logs available to the Customer upon request. |
| B.IS.34 | Access Control and Customer Data | Logging of access to Customer Data – Retention Period | The logs shall be retained for a defined retention period defined and maintained by the Supplier, taking into account applicable Laws and regulations, as well as any applicable recommendations from Norwegian authorities. |
| B.IS.35 | Access Control and Customer Data | Notification of relocation of Customer Data | The Supplier shall notify the Customer in writing in advance of any planned relocation or transfer of Customer Data, including backups, to a new region or data center. This requirement is limited to data centres and infrastructure used to provision the Service(s) in the EU/EEA. |
| B.IS.36 | Change Management and Security by Design | Change Management | The Supplier shall establish and maintain strict procedures for technology change management and deviation handling in the Service(s). |
| B.IS.37 | Change Management and Security by Design | Change Management – Advance Notice | The Supplier shall provide advance notice to the Customer of any changes to the Service(s) that may negatively impact information security with sufficient time for the Customer to object. |
| B.IS.38 | Change Management | Security by Design | The Supplier shall implement and adhere to security by design principles in the provision |

| Number | Number Category Title | | Requirement | | |
|---------|--|--|---|--|--|
| | and Security by Design | | of the Service(s) and ensure that software hardening best practices are implemented with secure configuration set as default. | | |
| B.IS.39 | Change Management and Security by Design | Security by Design – Testing | The Supplier shall conduct testing to ensure that the Service(s) maintain a high level of integrity and quality, with no backdoors or known vulnerabilities. | | |
| B.IS.40 | Change Management and Security by Design | Security by Design – Standards and Best Practices | The Supplier shall follow relevant industry standards and best practices to ensure security by design, such as CIS, CWE Top 25, OWASP Top 10, and OWASP ASVS. | | |
| B.IS.41 | Business Continuity | Business Continuity and Disaster Recovery | The Supplier shall establish and maintain business continuity and disaster recovery plans that adhere to best industry standards, such as ISO 22313 or equivalent. The plans shall include measures to prevent or mitigate the impact of various types of disasters or disruptions, including but not limited to ransomware attacks, a distributed denial-of-service attack ("DDoS Attacks"), advanced persistent threats ("APT") attacks, unavailability of external IT resources or other external authentication sources, sabotage, fire, and natural catastrophes. The Supplier shall regularly test and rehearse these plans to ensure their effectiveness in the event of a disaster or disruption. | | |
| B.IS.42 | IS.42 Business Continuity Business Continuity Continuity and Disaster Recovery – Capacity Management | | The Supplier shall implement and maintain capacity management measures to ensure stable operations in both normal and disaster recovery situations. | | |
| B.IS.43 | Business Continuity | Backup and Restore of the Supplier's Systems | The Supplier shall conduct regular backups, including offline backups, and restore testing to ensure the integrity and availability of its systems. | | |
| B.IS.44 | Physical and Personnel Security | Physical Security | The Supplier shall implement and maintain appropriate physical security measures for its data centres, cloud infrastructure, operations environments (including remote operations), | | |

| Number | Category | Title | Requirement |
|---------|--------------|-------------------|--|
| | | | and any equipment installed on Customer |
| | | | premises, in accordance with relevant |
| | | | international standards and the Supplier's |
| | | | own policies. |
| B.IS.45 | Physical and | Physical | The Supplier shall conduct annual audits of its |
| | Personnel | Security – Audits | physical security measures by an |
| | Security | | independent, qualified auditor certified to |
| | | | evaluate compliance with applicable |
| | | | standards and policies. |
| B.IS.46 | Physical and | Personnel | The Supplier shall ensure that all personnel |
| | Personnel | Security | involved in the delivery of the Service(s), |
| | Security | | including personnel of any subcontractors |
| | | | and third parties, have committed themselves |
| | | | to confidentiality, receive appropriate training |
| | | | and maintain necessary expertise on security |
| | | | matters. This shall include training on |
| | | | applicable security rules, regulations and |
| | | | standards, including Customer-specific |
| | | | security rules where applicable. |
| B.IS.47 | Physical and | Personnel | The Supplier shall establish and maintain |
| | Personnel | Security – | procedures for personnel security, including |
| | Security | Security | screening and background checks, to ensure |
| | | Screening and | that all personnel have the level of security |
| | | Clearance | clearance appropriate for their role, in |
| | | | accordance with applicable laws and industry |
| | | | best practices. |
| B.IS.48 | Physical and | Personnel | The Supplier shall perform annual security |
| | Personnel | Security – Audits | audits on these procedures, conducted by a |
| | Security | | third-party auditor, to evaluate compliance |
| | | | with applicable standards and policies. |

4.2 Basic Data Protection Requirements

This section contains data protection requirements intended to be included as a data protection annex. If the Supplier acts as processor, the requirements may also be incorporated into an agreement according to GDPR art. 28 ("Data Processing Agreement").

The Customer must always consider what kind of data will be processed and the Parties' roles under applicable data protection legislation (e.g. the GDPR and the Norwegian Data Protection Act). It is therefore recommended that the requirements are reviewed for the

scope in question and adjusted accordingly, including adding new or removing unnecessary requirements.

References to Personal Data is Personal Data as defined in this document section 2.2.

| Number | Category | Requirement | | |
|--------|---|---|--|--|
| B.DP.1 | General | The obligations and requirements set out in annex applies when the Supplier processes Personal Data in connection with the delivery of the Services and comes in addition to the Supplier's other obligations under the Agreement. | | |
| B.DP.2 | Competence, training and awareness | The Supplier shall ensure and document that authorised personnel, including any of its data processors or subprocessors, have the necessary competency and training within privacy and data protection in accordance with best industry practice, and applicable data protection legislation. The Supplier shall build and maintain a culture to ensure that all relevant personnel receive appropriate awareness training to understand their responsibilities for data protection and information security. The Supplier shall on regularly basis evaluate the competency | | |
| | | and training of their personnel, including an assessment of the actions and measures implemented. | | |
| B.DP.3 | Data processing agreement (DPA) | If the Supplier processes Personal Data on behalf of the Customer as a data processor, the Customer and the Supplier are obliged to enter into Data Processing Agreement (DPA) in accordance with GDPR art. 28 and any sector-specific data protection legislation that is relevant to the Customer's activities. A full and final Data Processing Agreement shall be signed and binding by the Customer and the Supplier prior to processing of Personal Data. | | |
| | | If not set out elsewhere in the Contract, the DPA shall include a list of all sub-processors including name, addresses and location of processing. | | |
| | | The Parties may use the Supplier's standard Data Processing Agreement, provided that it fulfils the requirements of GDPR art. 28 and is not in conflict with any provisions of the Contract. | | |
| B.DP.4 | Customer's instructions and the role of the parties | If the Supplier processes Personal Data on behalf of the Customer as a data processor, the Supplier shall process Personal Data only on documented instructions from the Customer, unless required to do so by applicable EU/EEA or Member State law to which the Supplier is subject. The Customer's instructions shall be specified in the Data Processing Agreement or the Contract. | | |

| Number | Category | Requirement |
|--------|--|---|
| | | The Supplier shall not process Personal Data for any other purposes (including its own purposes) other than those set out in the Contract, the Data Processing Agreement or subsequent documented instructions from the Customer. The Supplier shall not process Personal Data to a greater extent than necessary to fulfil the aforementioned purposes. The Supplier may not itself determine what kind of processing they are authorised to do. |
| | | The Supplier shall only process and store Personal Data about the Customer's administrators and end-users, including the Customer's use of the Services, when and to the extent such processing is necessary to perform the Supplier's obligations under the Contract. The Supplier shall upon request from the Customer document how only required Personal Data about such users is registered, stored and processed. |
| | | If the Supplier determines the purposes and means for certain processing activities related to the delivery of the Services under the Contract, the Supplier will be regarded as a data controller for those processing activities. In such cases, the Supplier shall identify the relevant processing activities and specify the legal basis for each processing activity. |
| B.DP.5 | Personal Data controls and measures | The Supplier shall implement and maintain a management system and/or internal control system for the processing of Personal Data in accordance with applicable data protection legislation and industry best practice, e.g. by adherence to approved codes of conduct or approved certification mechanisms as referred to in GDPR arts. 40 and 42. The internal control system shall be reviewed and updated regularly. |
| | | The Supplier shall have a data protection officer when required according to GDPR art. 37. The Supplier shall upon request document the following: a) how data protection is organised, managed and controlled in its business and supply chain, including clearly defined roles and responsibilities; b) how Personal Data is processed in the Services, including the systems used, data flows and subcontractors processing, including what and why they process Personal Data; and c) the roles and responsibilities under applicable data protection logislation, including |
| R DD 6 | Collaboration | under applicable data protection legislation, including between the Customer, the Supplier and, where applicable, the Suppliers' subcontractors. |
| B.DP.6 | regarding | The Supplier shall collaborate with the Customer to ensure the protection and compliance of processing of Personal Data. |

| Number | Category | Requirement |
|--------|--|--|
| | Personal Data | The Supplier shall notify the Customer immediately if it considers that any of the Customer's documented instructions infringe applicable data protection legislation. |
| | | The Supplier shall provide all reasonable assistance to the Customer to enable the Customer to comply with applicable data protection legislation. This includes, but is not limited to upon request: a) provide the Customer with an assessment of the necessity and proportionality of the processing operations in relation to the Services; b) assist the Customer with an assessment of the risks to the rights and freedoms of Data Subjects, including, but not limited to Transfer Impact Assessment (TIA) and/or Data Protection Impact Assessment (DPIA) where applicable; and c) provide the Customer with information on measures envisaged to address the risks, including safeguards, security measures, and mechanisms to ensure the protection of Personal Data. |
| | | The Supplier shall notify the Customer without undue delay where: a) the Supplier becomes aware of an incident resulting in loss of the Customer's Personal Data, or an incident leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, Customer's Personal Data transmitted, stored or otherwise processed; b) receiving any communication from the Norwegian Data Protection Authority ("Datatilsynet") or any other regulatory authority in connection with Personal Data processed under the Contract. |
| | | The Supplier shall notify the Customer as soon as possible if it receives: a) a request made by, or on behalf of, a data subject in accordance with rights granted pursuant to the GDPR chapter III (e.g. a access request or to rectify, block or erase any Personal Data); b) a request from any third party for disclosure of Personal Data where compliance with such request is required or purported to be required by law; or c) any other request, complaint or communication relating to either Party's obligations under the Data Protection Legislation. |
| B.DP.7 | Description of processing activities by Supplier and its data processors and/or sub- processors | The Supplier shall upon request provide or make available to the Customer a detailed description of the processing activities carried out by the Supplier and any of its data processors or sub-processor(s), and the purpose of the processing. This description shall include at a minimum: a) the specific processing activities in which the Supplier and data processor or sub-processor will be involved, including which Service(s) that contain Personal Data the data processor or sub-processor will have access to; b) the circumstances under which the data processor or sub-processor will have access to Personal Data for each of the processing activities, including |

| Number | Category | Requirement |
|---------|--|---|
| | | whether access is continuous or only granted periodically or upon the Supplier's instructions; and c) the categories of Personal Data that is processed by the Supplier and data processor or sub-processor for each of the processing activities. |
| B.DP.8 | Data protection by design and default | The Supplier shall provide the Services in accordance with data protection by design and by default principles throughout the lifecycle of the service, in accordance with GDPR art. 25. |
| B.DP.9 | Data Subject's rights | The Supplier shall have solutions that enables the Customer to, in an efficient manner, fulfil the natural persons' rights according to GDPR, including rights to access, to be informed, to rectification, to restriction, erasure, and data portability. |
| B.DP.10 | Authorisation to engage sub- processors | If the Supplier acts as data processor, the Supplier's general or specific authorisation to engage sub-processors shall be specified in the Data Processing Agreement. A general authorisation in the Data Processing Agreement only applies to sub-processors in the EEA. The Supplier shall not engage sub-processors outside the EEA without the Customer's prior specific authorisation unless otherwise is specifically and explicitly agreed in the Contract. The Supplier shall upon request document the controls, processes, and frameworks, including risk assessments used to assess, approve, evaluate and follow up sub-processors from a data protection perspective. The Supplier shall upon request document data protection compliance of sub-processors. |
| B.DP.11 | New sub- processors | If the Supplier, when acting as data processor, has a general authorisation from the Customer for the engagement of subprocessors, the Supplier shall notify the Customer in writing of any new sub-processors minimum 45 -forty-five- days prior to the engagement of such sub-processor. The Customer shall have the right to object to the engagement of new sub-processors in accordance with the Data Processing Agreement, EU SCC and GDPR art. 28. If the Customer does not object within 15 -fifteen- days, the sub-processor is deemed approved. If the Customer objects to the engagement of a new sub-processor, the following procedure shall be followed: a) The Supplier shall provide a written explanation as to why the processing of Personal Data by the sub-processor is in accordance with applicable laws, and how the use of the sub-processor will ensure compliance with applicable obligations under the Contract and applicable legislation. In addition, the Supplier shall address any objections raised by the Customer regarding the engagement of the sub-processor; b) If the |

| Number | Category | Requirement |
|---------|--|--|
| | | Customer still objects to the engagement of the new sub- processor, the Supplier shall use its best efforts to provide the Services without engaging the objected sub-processor, while ensuring that an equivalent level of information security is maintained; c) If the Supplier cannot provide the Services without engaging the objected sub-processor, then Customer shall have the right to terminate the Contract, or relevant Services under the Contract, with immediate effect without any liability. |
| B.DP.12 | Engagement of sub- processors | If the Supplier, when acting as a data processor, engages a sub- processor for carrying out specific processing activities on behalf of the Customer, it shall do so by way of contract which imposes in substance the same data protections obligations as the ones imposed on the Supplier under the Data Processing Agreement. |
| | | At the Customer's request, the Supplier shall provide a copy of such sub-processor agreement and any subsequent amendments to the Customer. To the extent necessary to protect business secret or other confidential information, including Personal Data, the Supplier may redact the text of the agreement prior to sharing the copy |
| | | The Supplier shall remain fully responsible to the Customer for the performance of the sub-processor's obligations in accordance with its contract with the sub-processor. The Supplier shall notify the Customer of any failure by the sub-processor to fulfil its contractual obligations. |
| B.DP.13 | Locations and transfer of data | Personal Data shall not be transferred outside EU/EEA unless explicitly agreed with the Customer in the Agreement or the Data Processing Agreement, if relevant, and in accordance with the procedures set out in this clause. |
| | | Any transfer of Personal Data to countries outside the EU/EEA ("Third Country") shall be in accordance with GDPR chapter V (Transfers of personal data to third countries or international organisation), prior to such transfer. Transfer includes, but is not limited to: a) processing of Personal Data in data centres, etc. located in a Third Country; b) processing of Personal Data by another data processor or sub-processor in a Third Country (e.g. by remote access to Personal Data stored in EU/EEA); or c) disclosing Personal Data to a data controller or data processor (including international organisations) in a Third Country. |
| B.DP.14 | Description of transfers to Third Countries | The Supplier shall on the Customer's request describe any transfers of Personal Data out of the EU/EEA that will be necessary for the performance of the Contract. The description shall at least include: |

| Number | Category | Requirement |
|---------|---|---|
| | | A description of all transfers made by the Supplier, including the Supplier's processors or sub-processors The legal basis for transfer in accordance with GDPR chapter V. If the transfer is based on EU Standard Contractual Clauses for transfers to Third Countries (EU SCC), specify the data exporter and the data importer, the relevant EU SCC module, and provide information on any onward transfers Full formal business name, address and organization number of all data importers outside the EU/EEA Whether the Personal Data is transferred to and stored in the Third Country, or whether the transfer concerns remote access or other access to personal data stored in the EU/EEA The purpose of the transfers The categories of personal data being transferred |
| B.DP.15 | Documented assessment of transfer based on EU SCC and BCR (transfer impact assessment) | • How often transfers will take place If any transfer of Personal Data is based on EU SCC or Binding Corporate Rules (BCR), the Supplier shall on the Customer's request provide a documented assessment of Third Country legislation and practices affecting the processing of Personal Data in the delivery, as well as the circumstances of the transfer, and additional measures (technical, organizational and contractual) taken by the Supplier, including its processors and sub-processors. The documented assessment shall at least contain what is required under Clause 14 (b) of the EU SCC, including documented experiences related to the disclosure of Personal Data to Third Country authorities. |
| B.DP.16 | Data monitoring laws | The Supplier shall document and notify the Customer immediately if it has reason to believe that the laws and practices in a Third Country applicable to the processing of the Personal Data, including any requirements to disclose Personal Data or measures authorising access by public authorities, prevent the Supplier, or its data processor or sub-processors, from fulfilling its obligations under the Contract. |
| B.DP.17 | Termination | Following termination of the Contract, the Supplier shall, at the choice of the Customer, delete all Personal Data processed on behalf of the Customer and certify to the Customer that it has done so, or, return all the Personal Data to the Customer and delete existing copies unless mandatory laws in the EU/EEA requires storage of the Personal Data. Until the data is deleted or returned, the Supplier, including its processor or subprocessors, shall continue to ensure compliance with the data protection and security requirements under the Contract. |

5 Cloud Enablement Security Requirements

This section contains a set of information security requirements intended to support the Norwegian public sector with "security in the cloud", supported by the vendor's reference architecture, specific national legal and regulatory requirements, and other security related services.

This section is a collection of identified optional cloud requirements and is not necessarily intended to be applied in full. It is recommended that only requirements relevant for the scope in question are included in procurement and / or contract documents.

| Number | Title | Requirement |
|--------|----------------|--|
| C.1 | Security | The Supplier is requested to document its security |
| | Architecture | architecture(s) and how it can be applied by the Customer. |
| | | The security architecture should be aligned with industry |
| | | best practice security architecture concepts, such as zero |
| | | trust and defendable/defensible security architecture and |
| | | established cyber security frameworks, such as NIST |
| | | Cybersecurity framework v2.0 or equivalent. |
| C.2 | Secure Cloud | The Supplier should enable secure configuration, |
| | Adoption | deployment, and operation of the cloud services in an |
| | ("Security-in- | automated fashion with the purpose of reducing security |
| | the-cloud") | risks from an end-to-end perspective. If applicable, |
| | | propose relevant landing zones for the Service in scope. |
| C.3 | Governance | The Supplier should provide a security/ compliance/ trust |
| | and | portal or dashboard that provides access to relevant |
| | Compliance | security policies and up-to-date access to Customer |
| | Dashboard | security and compliance information. |
| C.4 | Governance | The Supplier should provide a compliance matrix for the |
| | and | Service(s) to document compliance to common |
| | Compliance | international legal frameworks and security standards/ |
| | Matrix – | frameworks, such as NIS2, GDPR, ISO 27001/2, ISO 27017, |
| | International | NIST CSF, HIPAA, CSA-CCM, FedRamp, and C5. |
| | Standards and | |
| | Frameworks | |
| C.5 | Governance | The Supplier should provide a compliance matrix for the |
| | and | Service(s) to document compliance with national security |
| | Compliance | laws/ regulations and security frameworks, such as "lov |
| | Matrix – | om digital sikkerhet", "NSM Grunnprinsipper for IKT- |
| | National | sikkerhet", and "Normen". |

| Number | Title | Requirement |
|--------|-----------------------|---|
| | Standards and | |
| | Frameworks | |
| C.6 | Security in | The Supplier should enable end-to-end security in multi- |
| | multi-cloud | cloud and hybrid cloud environments, for example: |
| | and hybrid | Foton dia non constituto de la constituto de calcond |
| | cloud | Extending security tools / services to other cloud Applies (See S. (Bee S.)) |
| | environments | services (SaaS/PaaS/laaS). |
| | | Integrating security tools / services with the |
| 0.7 | | security tools / services of other cloud services. |
| C.7 | Cryptography | The Supplier should provide mechanisms / services for |
| | | encryption to enable effective encryption of Customer |
| | | data at rest and in transit with customer-managed / |
| | | customer-owned cryptographic keys. |
| | | The Supplier should document its roadmap to ensure that |
| | | cryptographic algorithms used in the Service are quantum |
| | | resistant, in accordance with, e.g., CNSA 2.0 ("Commercial |
| | | National Security Algorithm Suite 2.0"), NIST standards for |
| | | post-quantum cryptography, "NSMs veileder for |
| | | kvantemigrering", "NSMs kryptografiske anbefalinger |
| | | (utkast 2024)", or similar. |
| | | |
| C.8 | Legal and | The Supplier should be able to meet legal and regulatory |
| | Regulatory - | requirements related to personnel security, as mandated |
| | Personnel | by laws and regulations, including: |
| | Security | |
| | | National security clearance of personnel |
| | | Police certificate of personnel |
| | | The Supplier should describe how they can support such |
| | | requirements at the time of implementation or |
| | | subsequently based on regulatory changes. |
| C.9 | National | The Supplier should be able to offer the Service, or a |
| | Location ⁶ | subset of the Service, from Norway. This includes using |
| | | infrastructure and resources within Norway. The Supplier |
| | | should also be able to limit the processing of Customer |
| | | Data to Norway. This means no transfer of any Customer |
| | | Data outside Norway, including for support services, |
| | | except when obligated by law. |

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 $^{^{\}rm 6}$ Must assess in each case if there is a legitimate basis for this equirement, ref. EU/EEA-law, etc.

| Number | Title | Requirement |
|--------|-----------------------|---|
| C.10 | EU/EEA | The Supplier should be able to offer the Service, or a |
| | Location ⁷ | subset of the Service, from EU/EEA. This includes using |
| | | infrastructure and resources within EU/EEA. The Supplier |
| | | should also be able to limit the processing of Customer |
| | | Data to EU/EEA. This means no transfer of any Customer |
| | | Data outside EU/EEA, including support services, except |
| | | when obligated by law. |
| C.11 | Training and | The Supplier should be able to provide training and |
| | Awareness | awareness services. Describe how the Supplier can provide |
| | | services and programs for training and awareness to |
| | | enable secure cloud adoption for the Customer and for |
| | | strengthening the security culture in the Customer's |
| | | organization. |
| C.12 | Professional | The Supplier should be able to provide professional |
| | Services | services. Describe how the Supplier can provide |
| | | implementation services to support a secure cloud |
| | | implementation in compliance with the proposed security |
| | | reference architecture. |

 7 Must assess in each case if there is a legitimate basis for this requirement, ref. EU/EEA-law, etc.

6 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).

6.1 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 Responsibilities 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) | COM-03 Internal audits of the information security management system 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 |
|--|--|--|---|
| | | | Investigation Requests |

| 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) | 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 SP-03 Exceptions from Existing Policies and Instructions SSO-03 Directory of service providers and suppliers |
|-------------------|---|---|--|--|--|--|
|-------------------|---|---|--|--|--|--|

6.2 Basic Security Requirements Mapping Table

| CRA Requiremen t | 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) |
|---|---|--|--|--|---|--|
| 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 1.4 1.5 1.6 1.7 1.7 1.8 1.9 <li< td=""><td>• 5.36 Compliance with policies, rules, and standards for information security</td><td>• 1.1 Identify management structures, deliverables and supporting systems (1.1.2, 1.1.3)</td><td>GRC Governance, Risk and Compliance (GRC-01, GRC-03, GRC- 04, GRC-05, GRC-07)</td><td> OIS-01 Information Security Management System (ISMS) OIS-02 Information Security Policy OIS-03 Interfaces OIS-06 Risk Management Policy OIS-07 Application of the Risk Management Policy </td></li<> | • 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 OIS-06 Risk Management Policy OIS-07 Application of the Risk Management Policy |

| | | | | | | COM-04 Information on information security performance and management assessment of the ISMS |
|---|---|--|---|---|--|--|
| 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-03) | COM-03 Internal audits of the information security management system |
| B.IS.4 Security Governance - Security audit and testing obligations - regular security audits and testing | • ID.IM Improvemen t (ID.IM-01, 02, 03, 04) | 9.2.2 Internal audit program 9.2.1 Internal audit general | 5.35 Independent review of information security 8.34 | | Audit & Assurance (A&A-02, A&A-03, A&A-05) STA Supply Chain Management, Transparency , and Accountabilit y (STA-11) | COM-02 Policy for planning and conducting audits COM-03 Internal audits of the information security management system |
| B.IS.5 Security governance | ID.IM Improvemen | • 9.2.2 Internal | • 5.35 Independent review of | | A&A Audit & Assurance (A&A-06) | COM-02 Policy for planning and |

| - security audit and testing obligations - documentati on and remediation | t (ID.IM-02, 03) | audit program 10.2 non- conformity and corrective action 10.1 Continual improveme nt | information security 8.34 Protection of information systems during audit testing | | | conducting audits COM-03 Internal audits of the information 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 | • 2.1 Include security during procurement and development processes (2.1.2, 2.1.3, 2.1.4, 2.1.9, 2.1.10,) | STA Supply Chain Management, Transparency , and Accountabilit y (STA-01 to STA-12) UEM Universal Endpoint | HR-06 Confidentiality agreements DEV-01 Policies for the development / procurement of information systems |

| | information security in the ICT supply chain 5.20 Addressing information security within supplier agreements 5.21 Managing information security in the ICT supply chain 5.20 Addressing information security in the ICT supply chain 5.20 Addressing information security within supplier | Management (UEM-14) | DEV-02 Outsourcing of the development SSO-01 Policies and instructions for controlling and monitoring third parties SSO-02 Risk assessment of service providers and suppliers SSO-03 Directory of service providers and suppliers |
|--|---|---------------------|--|
|--|---|---------------------|--|

| B.IS.8 Security governance - Third party security managemen t ownership and operations of data centres and infrastructur e | | | 5.22 Monitoring, review and change management of supplier services | | DCS Data Center Security (DCS-02) | SSO-04 Monitoring of compliance with requirements PSS-12 Locations of Data Processing and Storage |
|--|---|--|--|--|--|--|
| 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 responsibiliti es 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 | GV.RM Risk managemen t strategy (GV.RM-05) | | | | | |

| responsible - summoning meetings B.IS.11 Incident, Asset and Vulnerability Managemen t – Security | GV.RA Risk Assessment Strategy (GV.RM-05) ID.RA Risk Assessment | 5.7 Threat intelligence 5.24 Information security incident | • 1.1 Identify management structures, deliverables and supporting | SEF Security Incident Management, E-Discovery & Cloud Forensics | OPS-13 Logging and Monitoring – Identification of Events SIM-01 Policy for security incident |
|---|---|---|--|--|--|
| incident managemen t and threat intelligence – processes | Assessment (ID.RA-04, 05) ID.AE Adverse Event Analysis (DE.AE-02, 03, 04, 06, 08) RS.MA Incident Management (RS.MA-01, 02, 03, 04, 05) RS.AN Incident Analysis (RS.AN-03, 06, 07, 08) RS.MI | management planning and preparation • 5.25 Assessment and decision on information security events • 5.26 Response to information security incidents | supporting systems (1.1.3) • 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 (4.1.1, 4.1.2, 4.1.3, 4.1.4, | (SEF-01 to SEF-07) | SIM-02 Processing of security incidents SIM-03 Documentation and reporting of security incidents SIM-05 Evaluation and learning process |
| | Incident Mitigation | | 4.1.5, 4.1.6) | | |

| | (RS.MI-01, 02) RC.RP Incident Recovery Plan Execution (RC.RP-01 to 06) | 4.2 Assertand and categor incident (4.2.1, 4) 4.2.3) 4.3 Contained and mataincident (4.3.1, 4) 4.3.3, 4. 4.3.6) 4.4 Evaltand leartfrom incident (4.4.1, 4) 4.4.3, 4. | rize tts 1.2.2, trol nage tts 1.3.2, 3.5, luate rn tts 1.4.2, |
|---|---|--|---|
| 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) | 5.24 Information security incident management planning and preparation 5.28 Collection of evidence 6.8 Information security event requirer (1.3.3) access requirer (1.3.3) ata from the security monitor (3.3.6) access requirer (1.3.3) access access requirer (1.3.3) access requirer (1.3.4) access requirer (1.3.5) access requirer (1.3.3) access requirer (1.3.3) access access requirer (1.3.3) access requirer (1.3.3) access requirer (1.3.3) accerity accurity accerity accerity accerity accerity accerity accerity accerity accerity acceri | Incident Management, E-Discovery & Cloud Incidents E-Discovery & In the event of incidents SIM-01 Policy for security incident management SIM-02 Processing of security incidents ation |

| | | • 4.2 Assess and categorise incidents (4.2.1, 4.2.2, 4.2.3, 4.3.5) | security incidents SIM-04 Duty of the users to 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 | 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 | |

| | and Communicat ion (RS.CO- 02, 03, 08) | | organisation for incidents (4.1.4, 4.1.4) • 4.2 Assess and categorize incidents (4.2.3) • Control and manage incidents (4.3.5) | |
|---|---|--------------|--|---|
| B.IS.14 Incident, Asset and Vulnerability Managemen t – Security incident managemen t and threat intelligence – Access to security logs | PR.PS Platform security (PR.PS-04) | 8.15 Logging | 3.2 Establish security monitoring (3.2.4) 4.2 Assess and categorize incidents (4.2.1) 4.3 Control and manage incidents (4.3.3) | OPS-10 Logging and Monitoring – Concept 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 |

| B.IS.15 Incident, Asset and Vulnerability Managemen t - Security incident managemen t and threat intelligence - Threat Intelligence | • ID.RA Risk Assessm ent (ID.RA- 02, 03) • DE.AE Adverse Event Analysis (DE.AE- 07) | 8.7 Protection against malware | 3.1 Detect and remove known vulnerabilitie s and threats (3.1.2, 3.1.3) 3.3 Analyse data from security monitoring (3.3.4) | | OPS-16 Logging and Monitoring – Configuration PSS-01 Guidelines and Recommendations for Cloud Customers OPS-04 Protection Against Malware – Concept OPS-05 Protection Against Malware Implementation |
|---|---|--------------------------------|--|----------|--|
| B.IS.16 | • ID.RA | 8.7 Protection against | • 2.1 | • TVM | OPS-05 |
| Incident, | Risk | malware | Include | Threat & | Protection |
| Asset and | Assessm | | security | Vulnerab | Against Malware |
| Vulnerability | ent | | during | ility | - |
| Managemen | (ID.RA- | | procurem | Manage | Implementation |
| t - Security | 09) | | ent and | ment | |
| incident | | | develop | (TVM-02) | |
| managemen | | | ment | | |
| t and threat | | | processe | | |
| intelligence - | | | s (2.1.2, | | |
| Malicious | | | 2.1.3, | | |
| Software | | | 2.1.4) | | |

| B.IS-17 Incident, Asset and Vulnerability Managemen t - Asset and Vulnerability Managemen t - Asset Managemen t | ID.AM Asset Manage ment (ID.AM- 1,2,4,5, 7,8) PR.PS Platform Security (PR.PS- 05) | • 5.11 Return of assets • 7.9 Security of assets off-premises • 7.10 Storage media • 7.14 | 2.8 Protect email clients and browsers (2.8.3, 2.8.4) 3.1 Detect and remove known vulnerabi lities and threats (3.1.3) 1.1 Identify manage ment structure s, deliverab les and supportin g systems (1.1.3) 1.2 | HRS Human Resource s (HRS- 02, HRS- 05) CCC Change Control and Configur ation | AM-01 Asset Inventory AM-02 Acceptable Use and Safe Handling of Assets Policy AM-03 Commission ing of Hardware AM-04 |
|---|--|---|---|--|---|
| _ | • | | | | |
| | • | • 7.14 | | _ | • AM-04 |
| | • ID.RA | Secure | Identify | Manage | Decommissi |
| | Risk | disposal | devices | ment | oning of |
| | Assessm | or re-use | and | (CCC-04) | Hardware |
| | ent | of | software | DCS Data | |

| | I | | T | T _ | 1 |
|---------------|---------|-----------------------|-----------------------------|-----------|---------------------------------|
| | (ID.RA- | equipme | (1.2.1, | Center | ● AM-05 |
| | 09) | nt | 1.2.2, | Security | Commitmen |
| | | 5.9 | 1.2.3, | (DCS-01, | t to |
| | | Inventory | 1.2.4) | DCS-04, | Permissible |
| | | of | Include | DCS-05, | Use, Safe |
| | | informati | security | DCS-06) | Handling |
| | | on and | during | • UEM | and Return |
| | | other | procurem | Universal | of Assets |
| | | associate | ent and | Endpoint | AM-06 Asset |
| | | d assets | develop | Manage | Classificatio |
| | | • 5.10 | ment | ment | n and |
| | | Acceptab | processe | (UEM-01, | Labelling |
| | | le use of | s (2.1.1, | UEM-02, | PI-03 Secure |
| | | informati | 2.1.2, | UEM-04) | deletion of |
| | | on and | 2.1.3) | DSP Data | data |
| | | other | • 2.2 | Security | uata |
| | | associate | Establish | and | |
| | | d assets | a secure | Privacy | |
| | | u assets | ICT | Lifecycle | |
| | | | | - | |
| | | | architect | Manage | |
| | | | ure | ment | |
| | | | (2.2.6) | (DSP-02 | |
| | | | • 2.3 | to DSP- | |
| | | | Maintain | 06) | |
| | | | a secure | | |
| | | | configura | | |
| | | | tion | | |
| | | | (2.3.10) | | |
| B.IS.18 | • ID.RA | • 8.8 | • 2.3 | • TVM | • OPS-18 |
| Incident, | Risk | Managem | Maintain | Threat & | Managing |
| Asset and | Assessm | ent of | a secure | Vulnerab | Vulnerabiliti |
| Vulnerability | ent | technical | configura | ility | es, |
| Managemen | | | tion | Manage | Malfunction |

| t - Asset and | (ID.RA- | | vulnerabi | (2.3.1 to | ment | s and Errors |
|---------------|---------|---|------------|------------|-----------|----------------------------|
| Vulnerability | 01, 08) | | lities | 2.3.1 (0 | (TVM-01, | s allu LITOIS |
| _ | 01,00) | | แนะร | • 2.5 | TVM-03, | – Measuremen |
| Managemen | | | | | | |
| t - | | | | Control | TVM-03, | ts, Analyses |
| Vulnerability | | | | data flow | TVM-07, | and |
| Managemen | | | | (2.5.4) | TVM-08, | Assessments |
| t | | | | • 2.8 | TVM-10) | of |
| | | | | Protect | • AIS | Procedures |
| | | | | email | Applicati | • OPS-22 |
| | | | | clients | on & | Testing and |
| | | | | and | Interface | Documentat |
| | | | | browsers | Security | ion of |
| | | | | (2.8.3, | (AIS-07) | known |
| | | | | 2.8.4) | | 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 | | g | and | Vulnerab | |
| Vulnerability | ent | | activities | remove | ility | |
| Managemen | (ID.RA- | | • 8.30 | known | Manage | |
| t - Asset and | 05) | | Outsourc | vulnerabi | ment | |
| Vulnerability | 03) | | ed | lities and | (TVM-01, | |
| - | | | | threats | TVM-05, | |
| Managemen | | | develop | | l | |
| t – third- | | | ment | (3.1.2) | TVM-10) | |
| party | | | | | | |

| vulnerabiliti | | | | |
|---|------------------------|--|--|--|
| | | | | |
| vulnerabiliti es B.IS.20 Incident, Asset and Vulnerability Managemen t - Asset and Vulnerability Managemen t - Vulnerability Identificatio n and Scoring | | | • TVM Threat & Vulnerability Management (TVM-01, TVM-09) | OPS-18 Managing Vulnerabilities, Malfunctions 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 |
| 212.01 | 15.54.54 | | | Vulnerabilities |
| B.IS.21 | ID.RA Risk Assessment | | TVM Threat & Vulnerability | OPS-18 Managing |
| Incident, | Assessment | | Vulnerability | Managing |
| Asset and | (ID.RA-05) | | Management | Vulnerabilities, |
| Vulnerability | | | | Malfunctions |

| Managemen t - Asset and Vulnerability Managemen t - Vulnerability Notification | | | | (TVM-01, TVM-09) | and Errors – Concepts OPS-20 Managing Vulnerabilities, Malfunctions 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 | • | | 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 |

| due to security incidents and vulnerabiliti es | | | | | Vulnerabilities, Malfunctions and Errors – Measurements, Analyses and Assessments of Procedures |
|--|--|---|--|--|---|
| B.IS.23 Incident, Asset and Vulnerability Managemen t - Penetration testing rights | 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) | Troccuures |
| 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' | 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 |

| | | |
|------|------------------|------------------------------------|
| | s networks | IDM-03 Locking |
| | (2.4.1, 2.4.2) | and withdrawal |
| | • 2.6 Control | of user accounts |
| | identities and | in the event of |
| | access rights | inactivity or |
| | | |
| | (2.6.1 to 2.6.7) | 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 |
| | | Recommendatio |
| | | ns for Cloud |
| | | Customers |
| | | • PSS-05 |
| | | Authentication |
| | | Mechanisms |
| | | |
| | | |
| | | and Rights |
| | | Concept |

| 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) | PSS-09 Authorisation Mechanisms 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 Privilege access rights | | 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 Access Control and Customer | | | 5.23 Information security for use of cloud | | IAM Identity & Access Management (IAM-01, IAM- | |
| Data - Flexible and | | | services • 5.18 Use of | | 04) | |
| fine-grained identity and | | | privileged utility | | | |
| access managemen t – | | | programs ■ 8.20 Networks | | | |
| Standards for Cross- | | | security • 8.24 Use of | | | |
| domain Identity | | | cryptography • 5.17 | | | |
| Managemen t | | | Authenticatio n information | | | |
| | | | 8.5 Secure authenticatio | | | |
| | | | n • 8.20 Networks | | | |
| B.IS.28 Access | DE.CM Continuous | • 9.1 Monitoring, | security • 5.17 Authenticatio | • 2.3 Maintain a secure | HRS Human Resources | • IDM-08 Confidentiality |
| Control and Customer | Monitoring (DE.CM-01, | measureme nt, analysis | n information • 8.5 Secure | configuration (2.3.10) | (HRS-04) • IVS | of authentication |
| Data – Secure | 03, 06, 09) | and evaluation | authenticatio n | 2.4 Protect the organisation' | Infrastructur e & Virtualization | information |

| Remote Access | 6.7 Remote working 8.20 Networks security 8.21 Security of network services | s networks (2.4.1, 2.4.2, 2.4.4) • 2.5 Control data flow (2.5.2, 2.5.5, 2.5.7) | Security (IVS- 03, IVS-07, IVS-09) | IDM-09 Authentication mechanisms 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-05 Authentication Mechanisms PSS-07 Confidentiality of Authentication Information PSS-08 Roles |
| | | | | and Rights - Concept |

| B.IS.29 Access Control and Customer Data - Separation of Customer Data | • PR.DS Data Security (PR.DS-05, 09) | | 8.12 Data leakage prevention 8.22 Segregation of Networks | 1.1 Identify management structures, deliverables and supporting systems (1.1.6) 2.1 Include security during procurement and development of processes (2.1.10) 2.2 Establish a secure ICT architecture (2.2.3) 2.3 Maintain a secure configuration (2.3.10) 2.5 Control data flow (2.5.1) | DSP Data Security and Privacy Lifecycle Management (DSP-01) AIS Application & Interface Security (AIS-01, AIS-03) IVS Infrastructur e & Virtualization Security (IVS-06) | PS-04 Physical site access control 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 |
|--|--------------------------------------|--|--|--|--|--|
|--|--------------------------------------|--|--|--|--|--|

| B.IS.30 Access Control and Customer Data - Encryption of Customer Data - Protection of Customer Data | ID.AM Asset Management (ID.AM-3) PR.DS Data Security (PR.DS-01, 02, 05) | 5.33 Protection of records 5.34 Privacy and protection of PII 8.24 Use of cryptography 8.18 Use of privileged utility programs 8.20 Networks security | 2.5 Control data flow (2.5.6) 2.7 Protect data at rest and in transit (2.7.1 to 2.7.5) 2.9 Establish capability to restore data (2.9.4) | CEK Cryptography , Encryption & Key Management (CEK-03) 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) | network environments COS-08 Policies for data transmission OPS-06 Data Protection and Recovery – Concept OPS-16 Logging and Monitoring – 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 |
|--|---|---|---|--|---|
| | | | | 11) | sensitive data for storage |

| | | | CRY-04 Secure key management PSS-01 Guidelines and Recommendatio ns for Cloud Customers PSS-05 Authentication Mechanisms PSS-07 Confidentiality of Authentication Information PSS-08 Roles and Rights Concept |
|--------------------------|--------------------------------|--|--|
| B.IS.31 Encryption | 8.20 Network security | • 2.4 Protect the CEK Cryptography | |
| of Customer Data – State | 8.24 Use of cryptography | organisation', Encryption s networks & Key | Recovery – Concept |
| of the Art | • 5.17 | (2.4.2) Management | CRY-01 Policy for |
| Encryption | Authenticatio n information | 1 | the use of encryption |
| | • 8.5 Secure | and in transit • LOG Logging | procedures and |
| | authenticatio n | (2.7.1 to 2.7.4) and Monitoring | key management |
| | | (LOG-10, | • CRY-02 |
| | | LOG-11) | Encryption of data for |
| | | | transmission |

| | CRY-04 Secure key management |
|--|--|
| Control and Customer & King Data - Mar | ptography Protection and cryption Recovery – |

| B.IS.33 Access Control and Customer Data - Logging of access to Customer Data | PR.PS Platform Security (PR.PS-04) | 8.5 Secure authentication 8.15 Logging | 3.2 Establish security monitoring (3.2.1 to 3.2.7) 3.2 Establish | LOG Logging and monitoring (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-10 Logging and Monitoring – Concept 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 Logging Mechanisms AM-04 |
|---|---------------------------------------|---|---|---|---|
| Access | | • 8.10 Information | • 3.2 Establish | | Decommissioning of |
| Control and | | deletion | Security | | Hardware |

| Customer Data - Logging of access to Customer Data - Retention Period | • 8.15 Logging | monitoring (3.2.2) | | OPS-10 Logging and Monitoring – Concept 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 Access Control and Customer Data - Notification of relocation of Customer Data | • 5.14 Information transfer | | DCS Data Center security (DCS-02) DSP Data Security and Privacy Lifecycle Management (DSP-01) | IDM-07 Access to cloud customer data COS-08 Policies for data transmission PSS-12 Locations of Data Processing and Storage |

| Design – Change Managemen t Design – Change Managemen t Managemen t (CEK-05) Cryptography (2.10.1 to 2.10.4) & Key Management (CEK-05) Universal Endpoint Management (UEM-02, UEM-07) INS 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 DEV-03 Policies |
|--|---|
| Change Management Control and | and changes to |
| Managemen • 6.3 Planning Configuration | information |
| t and of Changes | systems |

| Security by Design – Change Managemen t – Advance Notice | | | | Management (CCC-02) | 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 for provision in the production environment |
|--|----------------------------------|---|-----------------------------|--------------------------------|--|
| B.IS.38 Change | ID.RA Risk Assessment (ID.RA- | 8.9 Configuration | • 2.1 Include security | UEM Universal Fadaciat | AM-03 Commissioning of Headware |
| Managemen t and | 09) | management • 8.26 | during procurement | Endpoint Management | of Hardware OPS-16 Logging |
| Security by | | Application | and | (UEM-02, | and Monitoring – |
| Design – | | security | development | UEM-03, | Configuration |
| Security by Design | | requirements • 8.27 Secure | processes (2.1.5, 2.1.6, | UEM-05, UEM-06, | OPS-23Managing |
| Design | | system | 2.1.8) | UEM-08 to | Vulnerabilities, |
| | | architecture | • 2.3 Maintain a | UEM-13) | Malfunctions |
| | | and | secure | CCC Change | and Errors – |
| | | engineering | configuration | Control and | System |
| | | principles | (2.3.1 to | Configuration | Hardening |
| | | 8.25 Secure development | 2.3.10) • 2.8 Protect | Management (CCC-06) | COS-03 Monitoring of |
| | | life cycle | email clients | (000-00) | connections in |

| | | • 5.8 Information security in project management | and browsers (2.8.1 to 2.8.4) | IVS Infrastructur e & Virtualization Security (IVS-04) AIS Application & Interface Security (AIS-02) LOG Logging and Monitoring (LOG-06) | the Cloud Service 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 Recommendatio ns 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 | 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 | DEV-01 Policies for the development / procurement of information systems DEV-02 Outsourcing of the development |

| B.IS.40 Change Managemen t and Security by Design – Standards and Best Practices | | source code 8.27 Secure system architecture and engineering principles secure du secure du system principles secure du system principles secure du secure | Management (CCC-02) 1 Include ecurity uring rocurement ad evelopment rocesses1.4, 2.1.5, 1.8) Management (CCC-0a) Configuration Management (CCC-0b) IVS Infrastructur e & Virtualization Security (IVS-04) DSP Data Security and Privacy Lifecycle Management (DSP-07, DSP-08) | DEV-06 Testing changes 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) | Redundancy of or information for processing (4 facilities • 4. • 5.29 Information in | • 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 |

| | | business | | | Recovery – |
|----------------|------------------|--------------|-----------------|-------------------|-------------------------------------|
| | | continuity | | | 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 | PR.IR Technology | 8.6 Capacity | • 2.2 Establish | • IVS | OPS-01 Capacity |
| Business | Infrastructure | Management | a secure ICT | Infrastructur | Management – |
| Continuity – | Resilience | Ü | architecture | e & | Planning |
| Business | | | (2.2.7) | Virtualization | OPS-02 Capacity |
| Continuity | | | | Security (IVS- | Management – |
| and Disaster | | | | 02) | Monitoring |
| Recovery – | | | | BCR Business | OPS-03 Capacity |
| Capacity | | | | Continuity | Management – |
| Managemen t | | | | Management and | Controlling and Resources |
| | | | | Operational | Resources |
| | | | | Operational | |

| | | | | Resilience (BCR-11) | |
|--|--|--|---|--|---|
| 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) | • 8.13 Information backup | 2.9 Establish capability to restore data (2.9.1 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 |
| B.IS.44 Physical and Personnel Security – Physical Security | PR.AA Identity Management , Authenticati on, and Access Control (PR.AA-06) PR.IR Technology Infrastructur e Resilience (PR.IR-02) | 7.13 Equipment maintenance 8.1 User endpoint devices 7.1 Physical security perimeters 7.5 Protecting against physical and environmenta l threats | 2.1 Include security during procurement and development processes (2.1.4) 2.4 Protect the organisation's networks (2.4.2, 2.4.3) | DCS Data Center Security (DCS-03, DCS-07, DCS- 09 to DCS-15) | PS-01 Physical Security and Environmental Control Requirements PS-03 Perimeter Protection PS-04 Physical site access control PS-05 Protection against threats from outside and from the environment |

| B.IS.45 Physical and Personnel Security – Physical Security – Audits | DE.CM Continuous Monitoring (DE.CM-02, 03) ID.IM Improvemen t (ID.IM-01, 02) | | 7.2 Physical entry 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 | • A&A Audit & Assurance (A&A-02, A&A-03) | PS-06 Protection against interruptions caused by power failures and other such risks 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 | • 7.2 Competenc e • 7.3 Awareness | 5.4 Management responsibiliti es 6.3 Information security | DCS Data Center Security (DCS-11) HRS Human Resources (HRS-03, | HR-02 Employment terms and conditions HR-03 Security training and |

| | and Training (PR.AT-01, 02) | awareness, 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 | HRS-05 to HRS-13) | awareness programme 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. |
|--------------------------------------|---|--|--------------------------------------|---|
| | | | | and associated systems, components or tools. SSO-01 Policies and instructions for controlling and monitoring |
| B.IS.47 Physical and Personnel | GV.RR Roles, Responsibilit ies, and | • 6.1 Screening | HRS Human Resources (HRS-01) | third parties. • HR-01 Verification of qualifications |

| Security - | Authorities | | | and |
|--------------|--------------|--|---|-----------------|
| Personnel | (GV.RR-04) | | | 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 | | | | |

6.3 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) | 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 |

| | | | | • | 2.1 Include security during procureme 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 (3.3.1 to 3.3.7) | | PSS-11 Images for Virtual Machines and Containers |
|---------------------------------|---|---|---|---|---|---|--|
| C.2 Secure Cloud Adoption | PR.PS Platform Security (PR.PS-01, 02, 03, 06) | • | 8.9 Configurati on manageme nt 5.23 Information | • | 1.1 Identify manageme nt structures, deliverable s and supporting | IVS Infrastructur e & Virtualization Security (IVS- 01) | AM-03 Commissioning of Hardware AM-04 Decommissioning of Hardware |

| | | 000.101 |
|---------------|---------------|-------------------|
| security for | systems | OPS-16 Logging |
| use of cloud | (1.1.5) | and Monitoring – |
| services | • 2.1 Include | Configuration |
| 8.25 Secure | security | OPS-23 Managing |
| developme | during | Vulnerabilities |
| nt life cycle | procureme | and Errors – |
| • 8.31 | nt and | System |
| Separation | developme | Hardening |
| of | nt | • COS-03 |
| developme | processes | Monitoring of |
| nt, test, and | (2.1.1, | connections in |
| production | 2.1.6) | the Cloud Service |
| environmen | • 2.3 | Provider's |
| ts | Maintain a | Network |
| | secure | • PI-01 |
| | configurati | Documentation |
| | on (2.3.1) | and safety of |
| | 011 (21012) | 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 |

| C.3 | | • 5.2 Policy | | | | PSS-01 Guidelines and Recommendation s for Cloud Customers |
|---|--|---|---|--|--|--|
| Governance and | | • 7.4 Communicati | | | | |
| Compliance Dashboard | | on | | | | |
| C4 Governance and Compliance Matrix – Internationa I 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, 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, selfimposed or contractual requirements |
| C.6 Security in multi- cloud and hybrid cloud | | | • 8.7 Protection against malware | • 1.1 Identify manageme nt structures, deliverable | IPY Interoperabili ty & Portability | OPS-05 Protection Against Malware - Implementation |

| environmen ts | | s and supporting systems (1.1.5) • 2.2 Establish a secure ICT architectur e (2.2.2) | |
|-------------------------|---------------------------|--|-----------------------|
| C.7 Cryptograph y | 8.24 Use of cryptograp hy | 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) 2.7 Protect data at rest Cryptography, Encryption & Key Management (CEK-07) 4 CEK Cryptography, Encryption & Key Management (CEK-07) 4 A CEK Cryptography, Encryption & Key Management (CEK-07) 4 A CEK Cryptography, Encryption & Key Management (CEK-07) | Recovery – Concept |

| C.8 Legal and Regulatory – Personnel security | GV.RR Roles, Responsibiliti es, and Authorities (GV.RR-04) | • 6.1 Screening | | | HR-01 Verification of qualification and trustworthin ess |
|---|--|---|---|---|---|
| C.9 National 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.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 7.7 Clear desk and clear screen 8.7 Protection against malware | • | 4.1 Prepare the organisatio n for incidents (4.1.3) | • | HRS Human Resources (HRS-11, HRS-12) DCS Data Center Security (DCS-11) | • | HR-03 Security training and awareness programme DEV-04 Safety training and awareness programme |
|-----------------------------------|--|---|---|---|--|---|---|---|---|
| C.12 | | | maiware | | | | | | |
| Professional Services | | | | | | | | | |

References

| Abbreviation | Title | Source |
|---------------|---|--|
| C5 | BSI Cloud Computing Compliance Criteria Catalogue | https://www.bsi.bund.de/EN/Themen/Unternehm en-und-Organisationen/Informationen-und- Empfehlungen/Empfehlungen-nach- Angriffszielen/Cloud-Computing/Kriterienkatalog- C5/kriterienkatalog-c5_node.html |
| CIS | CIS Critical Security Controls v8.1 | https://www.cisecurity.org/controls |
| CNSA 2.0 | Commercial National Security Algorithm Suite 2.0 | https://media.defense.gov/2022/Sep/07/20030718 36/-1/-1/0/CSI_CNSA_2.0_FAQPDF |
| CSA-CCM | Cloud Security Alliance Cloud Controls Matrix Version 4 | https://cloudsecurityalliance.org/research/cloud- controls-matrix |
| CVE | Common Vulnerabilities and Exposures | https://www.cve.org/ |
| CVSS | Common Vulnerability Scoring System (CVSS) v4.0 | https://www.first.org/cvss/ |
| CWE Top 25 | CWE Top 25 Most Dangerous Software Weaknesses | https://cwe.mitre.org/top25/ |
| EPSS | Exploit Prediction Scoring system | Exploit Prediction Scoring System (EPSS) |
| FedRamp | US Federal Risk and Authorization Management Program | https://www.fedramp.gov/ |
| GAPP | Generally accepted privacy principles (2009). See PMF – Privacy Management Framework for updated version. | https://us.aicpa.org/interestareas/informationtec hnology/privacy-management-framework |
| GDPR | General Data Protection Regulation 2016/679 | https://eur-lex.europa.eu/eli/reg/2016/679/oj |
| HIPAA | Health Insurance Portability and Accountability Act | https://www.hhs.gov/hipaa/index.html |
| IETF RFC 7643 | IETF RFC 7643 System for Cross-domain Identity Management: Core Schema | https://datatracker.ietf.org/doc/html/rfc7643 |

| Abbreviation | Title | Source |
|--------------|---|--|
| | | |
| | | |
| ISO 22123 | ISO/IEC 22123-1:2023 | https://www.iso.org/standard/82758.html |
| | Information | |
| | Technology – Cloud | |
| | Computing | |
| ISO 22313 | ISO 22313:2020 | https://www.iso.org/standard/75107.html |
| | Security and resilience | |
| | — Business continuity | |
| | management systems — Guidance on the use | |
| | of ISO 22301 | |
| ISO 27001 | ISO/IEC 27001:2022 | https://www.iso.org/standard/27001 |
| 130 27001 | Information security, | nttps://www.iso.org/standard/27001 |
| | cybersecurity and | |
| | privacy protection — | |
| | Information security | |
| | management systems | |
| | Requirements | |
| ISO 27002 | ISO/IEC 27002:2022 | https://www.iso.org/standard/75652.html |
| | Information security, | <i>J. ,,</i> |
| | cybersecurity and | |
| | privacy protection — | |
| | Information security | |
| | controls | |
| ISO 27017 | ISO/IEC | https://www.iso.org/standard/43757.html |
| | 27017:2015Informatio | |
| | n technology — | |
| | Security techniques — | |
| | Code of practice for | |
| | information security controls based on | |
| | ISO/IEC 27002 for | |
| | cloud services | |
| ISO 27018 | ISO/IEC 27018:2019 | https://www.iso.org/standard/76559.html |
| 130 21010 | Information | 11.cp3.// www.130.01 g/3candard/10333.11cm |
| | technology — Security | |
| | techniques — Code of | |
| | practice for protection | |
| | of personally | |
| | identifiable | |
| | information (PII) in | |
| | public clouds acting as | |
| | PII processors | |
| ISO 27701 | ISO/IEC | https://www.iso.org/standard/71670.html |
| | 27701:2019Security | |
| | techniques — | |
| | Extension to ISO/IEC | |
| | 27001 and ISO/IEC | |

| Abbreviation | Title | Source |
|----------------|--------------------------------------|--|
| Appreviation | 27002 for privacy | Source |
| | information | |
| | management — | |
| | Requirements and | |
| | guidelines | |
| NSM | NSM Grunnprinsipper | https://nsm.no/regelverk-og-hjelp/rad-og- |
| Grunnprinsipp | for IKT-sikkerhet 2.1 | anbefalinger/grunnprinsipper-for-ikt-sikkerhet/ta- |
| er | | i-bruk-grunnprinsippene/ |
| NSM | NSM kryptografiske | https://nsm.no/fagomrader/digital- |
| kryptografiske | anbefalinger (utkast | sikkerhet/kryptosikkerhet/kryptografiske- |
| anbefalinger | 2024) | <u>anbefalinger/</u> |
| NSM veileder | NSM veileder | https://nsm.no/fagomrader/digital- |
| kvantemigrasj | kvantemigrasjon | sikkerhet/kryptosikkerhet/kvantemigrasjon/kvant |
| on | | emigrasjon-veileder/kvantemigrasjon/ |
| NIST CSF 2.0 | NIST Cyber Security Framework 2.0 | https://www.nist.gov/cyberframework |
| NIST PQC | NIST Post Quantum | https://csrc.nist.gov/projects/post-quantum- |
| | Cryptography | cryptography |
| NIS2 | Network & | https://eur-lex.europa.eu/legal- |
| | Information Security | content/EN/TXT/HTML/?uri=CELEX%3A32022L255 |
| | Directive 2022/2555 | 5 |
| Normen | Normen – Norm for | https://www.ehelse.no/normen/normen-for- |
| | informasjonssikkerhet | informasjonssikkerhet-og-personvern-i-helse-og- |
| | og personvern i helse- | omsorgssektoren |
| | og omsorgssektoren | |
| | versjon 6.0 | |
| OWASP Top 10 | Open Worldwide | https://owasp.org/www-project-top-ten/ |
| | Application Security | |
| | Project Top 10 Web | |
| | Application Security Risks | |
| OWASP ASVS | Open Worldwide | https://owasp.org/www-project-application- |
| 011/13/ /13/3 | Application Security | security-verification-standard/ |
| | Project Application | security vermeation standard/ |
| | Security Verification | |
| | Standard (ASVS) | |
| | | |
| PMF | Privacy Management | https://us.aicpa.org/interestareas/informationtec |
| | Framework | hnology/privacy-management-framework |
| Sabsa | Sabsa Enterprise | https://sabsa.org/ |
| | Security Architecture | |
| SAML 2.0 | Security Assertion | https://www.oasis-open.org/standard/saml/ |
| | Markup Language 2.0 | |
| SCIM 2 | System for Cross- | https://scim.cloud/ |
| | domain Identity | |
| | Management 2.0 | |

| Abbreviation | Title | Source |
|--------------|--|---|
| SOC2 Type 2 | American Institute of Certified Public Accountants (AICPA) | https://www.aicpa- cima.com/resources/landing/system-and- organization-controls-soc-suite-of-services |
| | SOC 2 Type II Report | |