

ISO 27001 REFERENCE	CONTROL TITLE	CONTROL OBJECTIVE	STATUS	JUSTIFICATION FOR	
				INCLUSION	EXCLUSION
5 Security Policy					
5.1 Information security policy					
<i>Objective:</i> To provide management direction and support for information security in accordance with business requirements and relevant laws and regulations.					
5.1.1	Policies for Information Security	A set of policies for information security shall be defined, approved by management, published and communicated to employees and relevant external parties.	In place	Business Requirement	N/a
5.1.2	Review the policies for Information Security	The policies for information security shall be reviewed at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and	In place	Business Requirement	N/a
6 Organisation of information security					
6.1 Internal organisation					
<i>Objective:</i> To establish a management framework to initiate and control the implementation and operation of information security within the organization					
6.1.1	Information Security roles and responsibilities	All information security responsibilities shall be defined and allocated.	In place	Business Requirement	N/a
6.1.2	Segregation of duties	Conflicting duties and areas of responsibility shall be segregated to reduce opportunities for unauthorized or unintentional modification or misuse of the organization's assets.	In place	Business Requirement	N/a
6.1.3	Contact with authorities	Appropriate contacts with relevant authorities shall be maintained.	In place	Business Requirement	N/a
6.1.4	Contact with special interest groups	Appropriate contacts with special interest groups or other specialist security forums and professional associations shall be maintained.	In place	Business Requirement	N/a
6.1.5	Information Security in project management	Information security shall be addressed in project management, regardless of the type of the project.	In place	Business Requirement	N/a
6.2 Mobile devices and teleworking					
<i>Objective:</i> To ensure the security of teleworking and use of mobile devices.					

6.2.1	Mobile device policy	A policy and supporting security measures shall be adopted to manage the risks introduced by using mobile devices.	In place	Business Requirement	N/a
6.2.2	Teleworking	A policy and supporting security measures shall be implemented to protect information accessed, processed or stored at teleworking sites.	In place	Business Requirement	N/a

7 Human Resources security

7.1 Prior to Employment

Objectives: To ensure that employees and contractors understand their responsibilities and are suitable for the roles for which they are considered.

7.1.1	Screening	Background verification checks on all candidates for employment shall be carried out in accordance with relevant laws, regulations and ethics and shall be proportional to the business requirements, the classification of the information to be accessed and the	In place	Business Requirement	N/a
7.1.2	Terms and conditions of employment	The contractual agreements with employees and contractors shall state their and the organization's responsibilities for information security.	In place	Business Requirement	N/a

7.2 During Employment

Objectives: To ensure that employees and contractors are aware of and fulfil their information security responsibilities.

7.2.1	Management responsibilities	Management shall require all employees and contractors to apply information security in accordance with the established policies and procedures of the organization.	In place	Business Requirement	N/a
7.2.2	Information security awareness, education and training	All employees of the organization and, where relevant, contractors shall receive appropriate awareness education and training and regular updates in organizational policies and procedures, as relevant for their job function	In place	Business Requirement	N/a
7.2.3	Disciplinary process	There shall be a formal and communicated disciplinary process in place to take action against employees who have committed an information security breach.	In place	Business Requirement	N/a

7.3 Termination and change of employment

Objectives: To protect the organization's interests as part of the process of changing or terminating employment..

7.3.1	Termination or change of employment responsibilities	Information security responsibilities and duties that remain valid after termination or change of employment shall be defined, communicated to the employee or contractor and enforced	In place	Business Requirement	N/a
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8 Asset management					
8.1 Responsibilities for assets					
<i>Objective: To ensure that employees, contractors and third party users understand their responsibilities, and are suitable for the roles they are considered for, and to reduce the risk of theft, fraud or misuse of facilities.</i>					
8.1.1	Inventory of assets	Assets associated with information and information processing facilities shall be identified and an inventory of these assets shall be drawn up and maintained.	In place	Business Requirement	N/a
8.1.2	Ownership of assets	Assets maintained in the inventory shall be owned..	In place	Business Requirement	N/a
8.1.3	Acceptable use of assets	Rules for the acceptable use of information and of assets associated with information and information processing facilities shall be identified, documented and implemented.	In place	Business Requirement	N/a
8.1.4	Return of assets	All employees and external party users shall return all of the organizational assets in their possession upon termination of their employment, contract or agreement.	In place	Business Requirement	N/a
8.2 Information Classification					
<i>Objective: To ensure that information receives an appropriate level of protection in accordance with its importance to the organization. .</i>					
8.2.1	Classification of information	Information shall be classified in terms of legal requirements, value, criticality and sensitivity to unauthorised disclosure or modification.	In place	Business& Legal Requirement	N/a
8.2.2	Labelling of information	An appropriate set of procedures for information labelling shall be developed and implemented in accordance with the information classification scheme adopted by the organization.	In place	Business& Legal Requirement	N/a
8.2.3	Handling of information	Procedures for handling assets shall be developed and implemented in accordance with the information classification scheme adopted by the organization.	In place	Business& Legal Requirement	N/a
8.3 Media handling					
<i>Objective: To prevent unauthorized disclosure, modification, removal or destruction of information stored on media.</i>					

8.3.1	Management of removable media	Procedures shall be implemented for the management of removable media in accordance with the classification scheme adopted by the organization.	In place	Business & Legal Requirement	N/a
8.3.2	Disposal of media	Media shall be disposed of securely when no longer required, using formal procedures.	In place	Business & Legal Requirement	N/a
8.3.3	Physical media transfer	Media containing information shall be protected against unauthorized access, misuse or corruption during transportation.	In place	Business & Legal Requirement	N/a

9 Access control

9.1 Business requirements of access control

Objective: To limit access to information and information processing facilities

9.1.1	Access control policy	An access control policy shall be established, documented and reviewed based on business and information security requirements.	In place	Business Requirement	N/a
9.1.2	Access to networks and network services	Users shall only be provided with access to the network and network services that they have been specifically authorized to use.	In place	Business Requirement	N/a

9.2 User access management

Objective: To ensure authorized user access and to prevent unauthorized access to systems and services.

9.2.1	User registration and de-registration	A formal user registration and de-registration process shall be implemented to enable assignment of access rights.	In place	Business Requirement	N/a
9.2.2	User access provisioning	A formal user access provisioning process shall be implemented to assign or revoke access rights for all user types to all systems and services.	In place	Business Requirement	N/a
9.2.3	Management of privileged access rights	The allocation and use of privileged access rights shall be restricted and controlled.	In place	Business Requirement	N/a

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9.2.4	Management of secret authentication information of users	The allocation of secret authentication information shall be controlled	In place	Business Requirement	N/a
9.2.5	Review of user access rights	Asset owners shall review users' access rights at regular intervals.	In place	Business Requirement	N/a
9.2.6	Removal or adjustment of access rights	The access rights of all employees and external party users to information and information processing facilities shall be removed upon termination of their employment, contract or agreement, or adjusted upon change.	In place	Business Requirement	N/a

9.3 User Responsibilities

Objective: To make users accountable for safeguarding their authentication information.

9.3.1	Use of secret authentication information	Users shall be required to follow the organization's practices in the use of secret authentication information.	In place	Business Requirement	N/a
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9.4 System and application access control

Objective: To prevent unauthorized access to systems and applications.

9.4.1	Information access restriction	Access to information and application system functions shall be restricted in accordance with the access control policy.	In place	Business Requirement	N/a
9.4.2	Secure log-on procedures	Where required by the access control policy, access to systems and applications shall be controlled by a secure log-on procedure.	In place	Business Requirement	N/a
9.4.3	Password management system	Password management systems shall be interactive and shall ensure quality passwords.	In place	Business Requirement	N/a
9.4.4	User of privileged utility programs	The use of utility programs that might be capable of overriding system and application controls shall be restricted and tightly controlled.	In place	Business Requirement	N/a

9.4.5	Access control to program source code	Access to program source code shall be restricted.	In place	Business Requirement	N/a
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10 Cryptography

10.1 Cryptography controls
Objective: To ensure proper and effective use of cryptography to protect the confidentiality, authenticity and/or integrity of information

10.1.1	Policy on the use of cryptographic controls	A policy on the use of cryptographic controls for protection of information shall be developed and implemented.	In place	Business Requirement	N/a
10.1.2	Key management	A policy on the use, protection and lifetime of cryptographic keys shall be developed and implemented through their whole lifecycle.	In place	Business Requirement	N/a

11 Physical and environmental security

11.1 Secure areas
Objective: To prevent unauthorized physical access, damage and interference to the organization's information and information processing facilities.

11.1.1	Physical security perimeter	Security perimeters shall be defined and used to protect areas that contain either sensitive or critical information and information processing facilities.	In place	Business Requirement	N/a
11.1.2	Physical entry controls	Secure areas shall be protected by appropriate entry controls to ensure that only authorized personnel are allowed access.	In place	Business Requirement	N/a
11.1.3	Securing offices, rooms and facilities	Physical security for offices, rooms and facilities shall be designed and applied.	In place	Business Requirement	N/a
11.1.4	Protecting against external and environmental threats	Physical protection against natural disasters, malicious attack or accidents shall be designed and applied.	In place	Business Requirement	N/a
11.1.5	Working in secure areas	Procedures for working in secure areas shall be designed and applied.	In place	Business Requirement	N/a

11.1.6	Delivery and loading areas	Access points such as delivery and loading areas and other points where unauthorized persons could enter the premises shall be controlled and, if possible, isolated from information processing facilities to avoid unauthorized access.	In place	Business Requirement	N/a
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11.2 Equipment

Objective: To prevent loss, damage, theft or compromise of assets and interruption to the organization's operations.

11.2.1	Equipment siting and protection	Equipment shall be sited and protected to reduce the risks from environmental threats and hazards, and opportunities for unauthorized access.	In place	Business Requirement	N/a
11.2.2	Supporting utilities	Equipment shall be protected from power failures and other disruptions caused by failures in supporting utilities.	In place	Business Requirement	N/a
11.2.3	Cabling security	Power and telecommunications cabling carrying data or supporting information services shall be protected from interception, interference or damage.	In place	Business Requirement	N/a
11.2.4	Equipment maintenance	Equipment shall be correctly maintained to ensure its continued availability and integrity.	In place	Business Requirement	N/a
11.2.5	Removal of assets	Equipment, information or software shall not be taken off-site without prior authorization.	In place	Business Requirement	N/a
11.2.6	Security of equipment and assets off-premises	Security shall be applied to off-site assets taking into account the different risks of working outside the organization's premises.	In place	Business Requirement	N/a
11.2.7	Secure disposal or re-use of equipment	All items of equipment containing storage media shall be verified to ensure that any sensitive data and licensed software has been removed or securely overwritten prior to disposal or re-use.	In place	Business Requirement	N/a
11.2.8	Unattended user equipment	Users shall ensure that unattended equipment has appropriate protection.	In place	Business Requirement	N/a
11.2.9	Clear desk and clear screen policy	A clear desk policy for papers and removable storage media and a clear screen policy for information processing facilities shall be adopted.	In place	Business Requirement	N/a

12 Operations security

12.1 Operational procedures and responsibilities

Objective: To ensure correct and secure operations of information processing facilities.

12.1.1	Documented operating procedures	Operating procedures shall be documented and made available to all users who need them.	In place	Business Requirement	N/a
12.1.2	Change management	Changes to the organization, business processes, information processing facilities and systems that affect information security shall be controlled.	In place	Business Requirement	N/a
12.1.3	Capacity management	The use of resources shall be monitored, tuned and projections made of future capacity requirements to ensure the required system performance.	In place	Business Requirement	N/a

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12.1.4	Separation of development, testing and operational environments	Development, testing, and operational environments shall be separated to reduce the risks of unauthorized access or changes to the operational environment.	In place	Business Requirement	N/a
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12.2 Protection from Malware

Objective: To ensure that information and information processing facilities are protected against malware..

12.2.1	Controls against malware	Detection, prevention and recovery controls to protect against malware shall be implemented, combined with appropriate user awareness.	In place	Business Requirement	N/a
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12.3 Backup

Objective: To protect against loss of data.

12.3.1	Information backup	Backup copies of information, software and system images shall be taken and tested regularly in accordance with an agreed backup policy.	In place	Business Requirement	N/a
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12.4 Logging and monitoring

Objective: To record events and generate evidence.

12.4.1	Event logging	Event logs recording user activities, exceptions, faults and information security events shall be produced, kept and regularly reviewed.	In place	Business Requirement	N/a
12.4.2	Protection of log information	Logging facilities and log information shall be protected against tampering and unauthorized access.	In place	Business Requirement	N/a
12.4.3	Administrator and operator logs	System administrator and system operator activities shall be logged and the logs protected and regularly reviewed.	In place	Business Requirement	N/a
12.4.4	Clock synchronisation	The clocks of all relevant information processing systems within an organization or security domain shall be synchronised to a single reference time source.	In place	Business Requirement	N/a

12.5 Control of operational software

Objective: To ensure the integrity of operational systems.

12.5.1	Installation of software on operational systems	Procedures shall be implemented to control the installation of software on operational systems.	In place	Business Requirement	N/a
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12.6 Technical vulnerability management

Objective: To prevent exploitation of technical vulnerabilities.

12.6.1	Management of technical vulnerabilities	Information about technical vulnerabilities of information systems being used shall be obtained in a timely fashion, the organization's exposure to such vulnerabilities evaluated and appropriate measures taken to address the associated risk.	In place	Business Requirement	N/a
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12.6.2	Restrictions on software installation	Rules governing the installation of software by users shall be established and implemented.	In place	Business Requirement	N/a
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12.7 Information systems audit considerations

Objective: To minimise the impact of audit activities on operational systems.

12.7.1	Information systems audit controls	Audit requirements and activities involving verification of operational systems shall be carefully planned and agreed to minimise disruptions to business processes.	In place	Business Requirement	N/a
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13 Communications Security

13.1 Network security management

Objective: To ensure the protection of information in networks and its supporting information processing facilities.

13.1.1	Network controls	Networks shall be managed and controlled to protect information in systems and applications.	In place	Business Requirement	N/a
13.1.2	Security of network services	Security mechanisms, service levels and management requirements of all network services shall be identified and included in network services agreements, whether these services are provided in-house or outsourced.	In place	Business Requirement	N/a
13.1.3	Segregation of networks	Groups of information services, users and information systems shall be segregated on networks.	In place	Business Requirement	N/a

13.2 Information transfer

Objective: To maintain the security of information transferred within an organization and with any external entity.

13.2.1	Information transfer policies and procedures	Formal transfer policies, procedures and controls shall be in place to protect the transfer of information through the use of all types of communication facilities.	In place	Business Requirement	N/a
13.2.2	Agreements on information transfer	Agreements shall address the secure transfer of business information between the organization and external parties.	In place	Business Requirement	N/a
13.2.3	Electronic messaging	Information involved in electronic messaging shall be appropriately protected..	In place	Business Requirement	N/a
13.2.4	Confidentiality or nondisclosure agreements	Requirements for confidentiality or non-disclosure agreements reflecting the organization's needs for the protection of information shall be identified, regularly reviewed and documented.	In place	Business Requirement	N/a

14 Systems acquisition, development and maintenance

14.1 Security requirements of information systems

Objective: To ensure that information security is an integral part of information systems across the entire lifecycle. This also includes the requirements for information systems which provide services over public networks.

14.1.1	Information security requirements analysis and specification	The information security related requirements shall be included in the requirements for new information systems or enhancements to existing information systems.	In place	Business Requirement	N/a
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14.1.2	Securing application services on public networks	Information involved in application services passing over public networks shall be protected from fraudulent activity, contract dispute and unauthorized disclosure and modification.	In place	Business Requirement	N/a
14.1.3	Protecting application services transactions	Information involved in application service transactions shall be protected to prevent incomplete transmission, mis-routing, unauthorized message alteration, unauthorized disclosure, unauthorized message duplication or replay.	In Place	Business Requirement	N/a

14.2 Security in development and support processes

Objective: To ensure that information security is designed and implemented within the development lifecycle of information systems..

14.2.1	Secure development policy	Rules for the development of software and systems shall be established and applied to developments within the organization.	In place	Business Requirement	N/a
14.2.2	System change control procedures	Changes to systems within the development lifecycle shall be controlled by the use of formal change control procedures.	In place	Business Requirement	N/a
14.2.3	Technical review of applications after operating platform changes	When operating platforms are changed, business critical applications shall be reviewed and tested to ensure there is no adverse impact on organizational operations or security.	In place	Business Requirement	N/a
14.2.4	Restrictions on changes to software packages	Modifications to software packages shall be discouraged, limited to necessary changes and all changes shall be strictly controlled.	In place	Business Requirement	N/a
14.2.5	Secure system engineering principles	Principles for engineering secure systems shall be established, documented, maintained and applied to any information system implementation efforts.	In place	Business Requirement	N/a
14.2.6	Secure development environment	Organizations shall establish and appropriately protect secure development environments for system development and integration efforts that cover the entire system development lifecycle.	In place	Business Requirement	N/a
14.2.7	Outsourced development	The organization shall supervise and monitor the activity of outsourced system development.	In place	Business Requirement	N/a
14.2.8	Systems security testing	Testing of security functionality shall be carried out during development.	In place	Business Requirement	N/a
14.2.9	Systems acceptance testing	Acceptance testing programs and related criteria shall be established for new information systems, upgrades and new versions.	In place	Business Requirement	N/a

14.3 Test Data

Objective: To ensure the protection of data used for testing..

14.3.1	Protection of test data	Test data shall be selected carefully, protected and controlled.	In place	Business & Legal Requirement	N/a
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15 Supplier relationships					
15.1 Information security in supplier relationships					
<i>Objective:</i> To ensure protection of the organization's assets that is accessible by suppliers					
15.1.1	Information security policy for supplier relationships	Information security requirements for mitigating the risks associated with supplier's access to the organization's assets shall be agreed with the supplier and documented..	In place	Business & Legal Requirement	N/a
15.1.2	Addressing security within supplier agreements	All relevant information security requirements shall be established and agreed with each supplier that may access, process, store, communicate, or provide IT infrastructure components for, the organization's information.	In place	Business & Legal Requirement	N/a
15.1.3	Information and communication technology supply chain	Agreements with suppliers shall include requirements to address the information security risks associated with information and communications technology services and product supply chain.	In place	Business & Legal Requirement	N/a
15.2 Supplier service delivery management					
<i>Objective:</i> To maintain an agreed level of information security and service delivery in line with supplier agreements.					
15.2.1	Monitoring and review of supplier services	Organizations shall regularly monitor, review and audit supplier service delivery.	In place	Business Requirement	N/a
15.2.2	Managing changes to supplier services	Changes to the provision of services by suppliers, including maintaining and improving existing information security policies, procedures and controls, shall be managed, taking account of the criticality of business information, systems and processes involved and re-assessment of risks.	In place	Business Requirement	N/a
16 Information security incident management					
16.1 Management of information security incidents and improvements					
<i>Objective:</i> To ensure a consistent and effective approach to the management of information security incidents, including communication on security events and weaknesses.					
16.1.1	Responsibilities and procedures	Management responsibilities and procedures shall be established to ensure a quick, effective and orderly response to information security incidents.	In place	Business & Legal Requirement	N/a
16.1.2	Reporting information security events	Information security events shall be reported through appropriate management channels as quickly as possible.	In place	Business & Legal Requirement	N/a
16.1.3	Reporting information security weaknesses	Employees and contractors using the organization's information systems and services shall be required to note and report any observed or suspected information security weaknesses in systems or services.	In place	Business Requirement	N/a

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16.1.4	Assessment of and decision on information security events	Information security events shall be assessed and it shall be decided if they are to be classified as information security incidents.	In place	Business Requirement	N/a
16.1.5	Response to information security incidents	Information security incidents shall be responded to in accordance with the documented procedures.	In place	Business Requirement	N/a
16.1.6	Learning from information security incidents	Knowledge gained from analysing and resolving information security incidents shall be used to reduce the likelihood or impact of future incidents.	In place	Business Requirement	N/a
16.1.7	Collection of evidence	The organization shall define and apply procedures for the identification, collection, acquisition and preservation of information, which can serve as evidence.	In place	Business Requirement	N/a

17 Information security aspects of business continuity management

17.1 Information security continuity

Objective: Information security continuity shall be embedded in the organization's business continuity management systems.

17.1.1	Planning information security continuity	The organization shall determine its requirements for information security and the continuity of information security management in adverse situations, e.g. during a crisis or disaster.	In place	Business Requirement	N/a
17.1.2	Implementing information security continuity	The organization shall establish, document, implement and maintain processes, procedures and controls to ensure the required level of continuity for information security during an adverse situation.	In place	Business Requirement	N/a
17.1.3	Verify, review and evaluate information security continuity	The organization shall verify the established and implemented information security continuity controls at regular intervals in order to ensure that they are valid and effective during adverse situations.	In place	Business Requirement	N/a

17.2 Redundancies

Objective: To ensure availability of information processing facilities.

17.2.1	Availability of information processing facilities	Information processing facilities shall be implemented with redundancy sufficient to meet availability requirements.	In place	Business Requirement	N/a
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18 Compliance

18.1 Compliance with legal and contractual requirements

Objective: To avoid breaches of legal, statutory, regulatory or contractual obligations related to information security and of any security requirements.

18.1.1	Identification of applicable legislation and contractual requirements	All relevant legislative statutory, regulatory, contractual requirements and the organization's approach to meet these requirements shall be explicitly identified, documented and kept up to date for each information system and the organization.	In place	Business Requirement	N/a
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18.1.2	Intellectual property rights	Appropriate procedures shall be implemented to ensure compliance with legislative, regulatory and contractual requirements related to intellectual property rights and use of proprietary software products.	In place	Business Requirement	N/a
18.1.3	Protection of records	Records shall be protected from loss, destruction, falsification, unauthorized access and unauthorized release, in accordance with legislative, regulatory, contractual and business requirements.	In place	Business Requirement	N/a
18.1.4	Privacy and protection of personally identifiable information	Privacy and protection of personally identifiable information shall be ensured as required in relevant legislation and regulation where applicable.	In place	Business Requirement	N/a
18.1.5	Regulation of cryptographic controls	Cryptographic controls shall be used in compliance with all relevant agreements, legislation and regulations.	In place	Business Requirement	N/a

18.2 Information security reviews
Objective: To ensure that information security is implemented and operated in accordance with the organizational policies and procedures.

18.2.1	Independent review of information security	The organization's approach to managing information security and its implementation (i.e. control objectives, controls, policies, processes and procedures for information security) shall be reviewed independently at planned intervals or when significant changes occur.. Managers shall regularly review the compliance of information processing and procedures within their area of responsibility with the appropriate security policies, standards and any other security requirements.	In place	Business Requirement	N/a
18.2.2	Compliance with security policies and standards	Information systems shall be regularly reviewed for compliance with the organization's information security policies and standards.	In place	Business Requirement	N/a
18.2.3	Technical compliance review		In place	Business Requirement	N/a