

ISO 27001 Security Controls and OWASP

Section	Information security control	Compliance
A5	Information security policies	
A5.1	Management direction for information security	
A5.1.1	Policies for information security	NO
A5.1.2	Review of the policies for information security	NO
NOTES	The management of the policies is not defined and not applicable on OWASP, as it is a testing methodology but it can review the policies but strictly being around to its' top 10.	
A6	Organization of information security	
A6.1	Internal organization	
A6.1.1	Information security roles and responsibilities	YES
A6.1.2	Segregation of duties	YES
A6.1.3	Contact with authorities	NO
A6.1.4	Contact with special interest groups	NO
A6.1.5	Information security in project management	NO
NOTES	Defining roles in accordance with the access controls and similarly segregating the duties come under OWASP top 10 however if it based on organizations internal structure than OWASP is not linked.	
A6.2	Mobile devices and teleworking	
A6.2.1	Mobile device policy	NO
A6.2.2	Teleworking	
NOTES	The working structure under teleworking can be tested by OWASP under the given set of policies of the organization.	
A7	Human resource security	
A7.1	Prior to employment	
A7.1.1	Screening	NO
A7.1.2	Terms and conditions of employment	NO
NOTES	This section has no link with the OWASP top 10 principles.	
A7.2	During employment	
A7.2.1	Management responsibilities	NO
A7.2.2	Information security awareness, education and training	YES
A7.2.3	Disciplinary process	NO
NOTES	For the awareness OWASP has proper set of documentation which is officially available online and organization can study and could make policies accordingly.	

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A7.3	Termination and change of employment	
A7.3.1	Termination or change of employment responsibilities	YES
NOTES	The termination of employees or responsibilities has no direct link with the OWASP however, considering the access controls or to sensitive data exposure then OWASP could be linked otherwise has no direct link with this section.	
A8	Asset management	
A8.1	Responsibility for assets	
A8.1.1	Inventory of assets	NO
A8.1.2	Ownership of assets	NO
A8.1.3	Acceptable use of assets	YES
A8.1.4	Return of assets	NO
NOTES	OWASP however highlights dealing with using components of known vulnerabilities however there is need to make up the inventory of the assets to reduce their usage and prevent from any further damage if any.	
A8.2	Information classification	
A8.2.1	Classification of information	NO
A8.2.2	Labelling of information	
A8.2.3	Handling of assets	NO
NOTES	No information classification found in the OWASP however OWASP in monitoring and logging asks to monitor the web applications which can be further enhanced in terms of information classification i.e. confidential, private, public etc. Logging and monitoring by OWASP is mentioned but to very limited scale which can be used for fulfilling this section of OWASP.	
A8.3	Media handling	
A8.3.1	Management of removable media	NO
A8.3.2	Disposal of media	NO
A8.3.3	Physical media transfer	NO
NOTES	Media handling w.r.t web applications is an important part which should be described because loss or theft of any media or if dumping of media goes wrong than an organization could suffer severe circumstances and OWASP has no criteria mentioned to handle the media as per the above stated points.	

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A9	Access control	
A9.1	Business requirements of access control	
A9.1.1	Access control policy	NO
A9.1.2	Access to networks and network services	YES
NOTES	The policy depends upon the organization and every penetration tester should come with the rules of engagement and disclosure agreements so it does not apply on the OWASP but a basic pre-engagement step for every pen-tester. However, if considering the OWASP checklist documentation it can be seen there are number of experiments fulfilling the criteria for access controls.	
A9.2	User access management	
A9.2.1	User registration and de-registration	YES
A9.2.2	User access provisioning	YES
A9.2.3	Management of privileged access rights	YES
A9.2.4	Management of secret authentication information of users	YES
A9.2.5	Review of user access rights	YES
A9.2.6	Removal or adjustment of access rights	YES
NOTES	This section is managed very carefully by OWASP, in the OTG checklist full control is managed in terms of testing this domain.	
A9.3	User responsibilities	
A9.3.1	Use of secret authentication information	YES
NOTES	The secret authentication is defined not directly but testing in terms of session management, cache checks, weak credentials etc. also the testing of authentication indirectly fulfills the secret authentication.	
A9.4	System and application access control	
A9.4.1	Information access restriction	YES
A9.4.2	Secure log-on procedures	YES
A9.4.3	Password management system	YES
A9.4.4	Use of privileged utility programs	YES
A9.4.5	Access control to program source code	YES
NOTES	The access controls alongside broken authentication is very well managed in the OWSAP, very well list of testing presented in the checklist along with the tools.	
A10	Cryptography	
A10.1	Cryptographic controls	

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A10.1.1	Policy on the use of cryptographic controls	NO
A10.1.2	Key management	
NOTES	Specifically, key management is not mentioned in the scope of OWASP, however, considering cryptographic approach OWASP checks for encryption standards and also one of the main point of sensitive data exposures describes importance of data. Moreover, insecure deserialization also focusses on the this schema.	
A11	Physical and environmental security	
A11.1	Secure areas	
A11.1.1	Physical security perimeter	NO
A11.1.2	Physical entry controls	NO
A11.1.3	Securing offices, rooms and facilities	
A11.1.4	Protecting against external and environmental threats	
A11.1.5	Working in secure areas	NO
A11.1.6	Delivery and loading areas	NO
NOTES	OWASP is a testing methodology specifically for web applications and it is about testing the applications based on web or cloud. So, it does not involve any channels to secure physical structure.	
A11.2	Equipment	
A11.2.1	Equipment siting and protection	NO
A11.2.2	Supporting utilities	YES
A11.2.3	Cabling security	NO
A11.2.4	Equipment maintenance	YES
A11.2.5	Removal of assets	
A11.2.6	Security of equipment and assets off-premises	
A11.2.7	Secure disposal or reuse of equipment	YES
A11.2.8	Unattended user equipment	YES
A11.2.9	Clear desk and clear screen policy	NO
NOTES	The OWASP in its sensitive data exposure and components with known vulnerabilities section address some of the issues to not use components or remove any components with known vulnerabilities.	

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A12	Operations security	
A12.1	Operational procedures and responsibilities	
A12.1.1	Documented operating procedures	YES
A12.1.2	Change management	YES
A12.1.3	Capacity management	NO
A12.1.4	Separation of development, testing and operational environments	NO
NOTES	The documentation is the initial phase for any pen-tester however OWASP also provides documentation standards including OTG and OTG checklist also other documentations officially where change management is defined in terms of access controls and authorization part. However, capacity management is not applicable which is to be done between the organizations and therefore OWASP does not provide any support related to it.	
A12.2	Protection from malware	
A12.2.1	Controls against malware	YES
NOTES	This is the main thing which OWASP is known for so it basically provides all the guidelines in various way defined in OTG/ OTG checklist, which discusses various standards in accordance to protection against malware.	
A12.3	Backup	
A12.3.1	Information backup	
NOTES	Backup is not directly defined but however OWASP in various ways targets to backup the files or make them encrypted to ensure confidentiality and integrity.	
A12.3	Logging and monitoring	
A12.4.1	Event logging	YES
A12.4.2	Protection of log information	YES
A12.4.3	Administrator and operator logs	YES
A12.4.4	Clock synchronization	
NOTES	OWASP provides in its top 10 section related to insufficient logging and monitoring and shows the importance to manage and protect logs in order to stay safe from an exploits.	
A12.5	Control of operational software	
A12.5.1	Installation of software on operational systems	YES

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NOTES	The security and misconfiguration section of OWASP deals with the insecure or outdated patches which should be updated or removed and hence any installation depends on such configuration files.	
A12.6	Technical vulnerability management	
A12.6.1	Management of technical vulnerabilities	YES
A12.6.2	Restrictions on software installation	YES
NOTES	The management of technical vulnerabilities and proper testing method alongside tools are discussed in the OWASP top 10. The access controls and authorization deals with the restriction part of the software installation.	
A12.7	Information systems audit considerations	
A12.7.1	Information systems audit controls	YES
NOTES	The controls in access controls section of OWASP also authorization deals with the above stated auditing.	
A13	Communications security	
A13.1	Network security management	
A13.1.1	Network controls	YES
A13.1.2	Security of network services	YES
A13.1.3	Segregation in networks	
NOTES	The controls along with testing are very well described in the OWASP, access controls and testing of several services on the network like WebDAV, FTP, backend DB server etc. are defined by OWASP also in the OTG checklist. The network segregation is defined as in-directly involving controls of access and services.	
A13.2	Information transfer	
A13.2.1	Information transfer policies and procedures	NO
A13.2.2	Agreements on information transfer	NO
A13.2.3	Electronic messaging	YES
A13.2.4	Confidentiality or nondisclosure agreements	YES
NOTES	The transfer of information is addressed in terms of encryption and testing of information access, authorization and injection etc.	
A14	System acquisition, development & maintenance	
A14.1	Security requirements of information systems	
A14.1.1	Information security requirements analysis and specification	NO
A14.1.2	Securing application services on public networks	YES
A14.1.3	Protecting application services transactions	YES

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NOTES	The need of requirements should be defined in the OWASP which has importance in understanding the infrastructure to work on, also on the other side application services are defined and ways to protect in different formats are very well mentioned in the OTG along with services transactions.	
A14.2	Security in development and support processes	
A14.2.1	Secure development policy	NO
A14.2.2	System change control procedures	YES
A14.2.3	Technical review of applications after operating platform changes	YES
A14.2.4	Restrictions on changes to software packages	YES
A14.2.5	Secure system engineering principles	NO
A14.2.6	Secure Development Environment	NO
A14.2.7	Outsourced development	NO
A14.2.8	System security testing	YES
A14.2.9	System acceptance testing	NO
NOTES	The OWASP is cloud based methodology to find the vulnerabilities in the web application but to protect provide solutions accordingly but system engineering rules and testing is not application on OWASP as engineering is something different however after the implementation of engineering principles OWASP can test the web based services or applications.	
A14.3	Test data	
A14.3.1	Protection of test data	
NOTES	It depends what kind of test data is there if it is in accordance with the OWASP then it can be testing with top 10 rules of OWASP.	
A15	Supplier relationships	
A15.1	Information security in supplier relationships	
A15.1.1	Information security policy for supplier relationships	NO
A15.1.2	Addressing security within supplier agreements	NO
A15.1.3	ICT supply chain	NO
NOTES	The above section is solely based on the organization and the policies they have with their suppliers.	
A15.2	Supplier service delivery management	
A15.2.1	Monitoring and review of supplier services	NO
A15.2.2	Managing changes to supplier services	NO
NOTES	The OWASP has no engagements with these policies as they are organization based.	
A16	Information security incident management	
A16.1	Management of information security incidents & improvements	

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A16.1.1	Responsibilities and procedures	NO
A16.1.2	Reporting information security events	NO
A16.1.3	Reporting information security weaknesses	NO
A16.1.4	Assessment of and decision on information security events	NO
A16.1.5	Response to information security incidents	NO
A16.1.6	Learning from information security incidents	NO
A16.1.7	Collection of evidence	NO
NOTES	The incidence response plan is managed by the incident response team, this has no link with the OWASP however, organization should have its' own security team to deal and plan if some incident occurs. Moreover, incidence response team can consider OWASP top 10 to build up the security model.	
A17	Information security aspects of BCM	
A17.1	Information security continuity	
A17.1.1	Planning information security continuity	NO
A17.1.2	Implementing information security continuity	NO
A17.1.3	Verify, review and evaluate information security continuity	NO
NOTES	Deciding the continuity model is the internal responsibility of the organization but an organization can check OWASP top 10 to make a model but directly OWASP has no link with this part.	
A17.2	Redundancies	
A17.2.1	Availability of information processing facilities	NO
NOTES	The business continuity management is to make sure things are available even if breakdown occurs so it is not applicable for OWASP however the internal testing team is responsible for the smooth running of business if any incidence takes place.	
A18	Compliance	
A18.1	Compliance with legal and contractual requirements	
A18.1.1	Identification of applicable legislation and contractual requirements	NO
A18.1.2	Intellectual property rights	NO
A18.1.3	Protection of records	YES
A18.1.4	Privacy and protection of personally identifiable information	YES
A18.1.5	Regulation of cryptographic controls	
NOTES	If considering the testing aspect then OWASP fulfills the protection however if building up the compliance then OWASP has no link with this section.	
A18.2	Information security reviews	
A18.2.1	Independent review of information security	
A18.2.2	Compliance with security policies and standards	NO
A18.2.3	Technical compliance review	NO

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NOTES	The review section for the compliance of the organization is limited because OWASP has to stick with its top 10 rules.	
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