

Data Handling Standards

Version: 1.0 Published: Dec. 20, 2022 Published by: Information Security Office

Each control is mapped to the data classification and protection standard using the applicable words: Essential, Required, Recommended, Optional

Essential: Must be addressed for all current and future systems Required: Must be addressed for future systems and prioritized for current systems Recommended: Not compulsory but highly encouraged Optional: Apply if appropriate

Minimum Standards/Controls: Controls that applies to university processes, procedures and systems						
Control ID	Control Description	Info	rmation Risk Classific	ation		
		High	Moderate	Low	Assessment	
	Limit system access to authorized users, processes acting on behalf of authorized					
Min-1	users, and devices (including other systems).	Essential	Recommended	Optional		
	Ensure that managers, systems administrators, and users of organizational					
	systems are made aware of the security risks associated with their activities and					
	the applicable policies, standards, and procedures related to the security of those					
Min-2	systems.	Essential	Recommended	Optional		
	Create and retain system audit logs and records to the extent needed to enable					
	the monitoring, analysis, investigation, and reporting of unlawful or unauthorized					
Min-3	system activity.	Essential	Recommended	Optional		
	Establish an operational incident-handling capability for organizational systems					
Min-4	that includes preparation, detection, analysis, containment, recovery, and user response activities.	Essential	Recommended	Optional		
	Protect (i.e., physically control and securely store) system media containing the					
Min-5	University's data, both paper and digital.	Essential	Recommended	Optional		
	Periodically assess the risk to organizational operations (including mission,					
	functions, image, or reputation,) organizational assets, and individuals, resulting					
	from the operation of organizational systems and the associated processing,					
Min-6	storage, or transmission of the University's data.	Essential	Recommended	Optional		
Min-7	Remediate vulnerabilities in accordance with risk assessments	Essential	Essential	Essential		
	Employ architectural designs, software development techniques, and systems					
Min-8	engineering principles that promote effective information security within organizational systems.	Essential	Recommended	Recommended		
Min-9	Identify, report, and correct system flaws in a timely manner.	Essential	Recommended	Recommended		
Min-10	Monitor system security alerts and advisories and take action in response.	Essential	Essential	Essential		
	Access Controls: Controls that ensures only authorized p	ersonnel, accounts	and system proces	ses have access to	the university's data.	
Control ID	Control Description	-	rmation Risk Classific		······································	
CONTINUE	Control Description	High	Moderate	Low	Assessment	
	Limit system access to authorized users, processes acting on behalf of authorized		linouerute	2011		
AC-1	users, and devices (including other systems).	Essential	Recommended	Optional		
AC-2	Limit system access to the types of transactions and functions.	Essential	Recommended	Optional		
	Control the flow of the University's data in accordance with approved					
AC-3	authorizations.	Essential	Recommended	Optional		
	Employ the principle of least privilege, including for specific security functions and					
AC-4	privileged accounts.	Essential	Essential	Essential		
AC-5	Use non-privileged accounts or roles when accessing nonsecurity functions.	Essential	Essential	Essential		
AC-6	Prevent non-privileged users from executing privileged functions and	Essential	Essential	Essential		
AC-6 AC-7	capture the execution of such functions in audit logs. Limit unsuccessful login attempts.	Essential	Essential	Essential		
AC-7	Provide privacy and security notices consistent with applicable	Lasential	Lasential	Lasential		
AC-8	University data rules.	Essential	Essential	Essential		
AC-9	Terminate (automatically) a user session after a defined condition.	Essential	Recommended	Optional		
AC-10	Monitor and control remote access sessions.	Essential	Recommended	Optional		
	Employ cryptographic mechanisms to protect the confidentiality of remote access					
AC-11	sessions.	E a a sector a l				
AC-12		Essential	Recommended	Optional		
AC-13	Route remote access via managed access control points.	Essential	Recommended	Optional		
	Authorize wireless access prior to allowing such connections.	Essential Essential	Recommended Essential	Optional Essential		
AC-14		Essential	Recommended	Optional		
	Authorize wireless access prior to allowing such connections. Protect wireless access using authentication and encryption.	Essential Essential Essential	Recommended Essential Essential	Optional Essential Essential		
AC-14	Authorize wireless access prior to allowing such connections. Protect wireless access using authentication and encryption. Awareness and Training: These controls ensure	Essential Essential Essential that university staf	Recommended Essential Essential f are provided with	Optional Essential Essential appropriate trainin	ng and skills.	
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	Correlate audit record review, analysis, and reporting processes for investigation				
	and response to indications of unlawful, unauthorized, suspicious, or unusual				
AA-4	activity.	Essential	Recommended	Optional	
	Provide audit record reduction and report generation to support				
AA-5	on-demand analysis and reporting.	Essential	Recommended	Optional	
	Provide a system capability that compares and synchronizes internal system				
AA-6	clocks with an authoritative source to generate time stamps for audit records.	Essential	Recommended	Optional	
	Protect audit information and audit logging tools from unauthorized access,				
AA-7	modification, and deletion.	Essential	Recommended	Optional	
	Limit management of audit logging functionality to a subset of				
AA-8	privileged users.	Essential	Recommended	Optional	
	Configuration Management: Configurations, systems and software	are standardized ar	nd managed to ensu	ire they perform in	definable and measurable ways.
Control ID	Control Description	Info	rmation Risk Classific	ation	
		High	Moderate	Low	Assessment
CM-1	Analyze the security impact of changes prior to implementation.	Essential	Recommended	Optional	
	Restrict, disable, or prevent the use of nonessential programs, functions, ports,				
CM-2	protocols, and services.	Essential	Recommended	Optional	
	Apply deny-by-exception (blacklisting) policy to prevent the use of unauthorized				
	software or deny-all, permit-by-exception (whitelisting) policy to allow the				
CM-3	execution of authorized software.	Required	Essential	Recommended	
		•			
	Identification and Authentication: controls to e	nsure only confirme	ed and approved id	entities gain author	rized access.
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Control ID	Control Description		rmation Risk Classific		A
	Employ rapion resistant authoritication machanisms for a two-discovers	High	Moderate	Low	Assessment
	Employ replay-resistant authentication mechanisms for network access	Free at 1		Outline 1	
IA-1	to privileged and nonprivileged account	Essential	Recommended	Optional	
IA-2	Prevent reuse of identifiers for a defined period.	Essential	Recommended	Optional	
	Enforce a minimum password complexity and change of characters when	5			
IA-3	new passwords are created.	Essential	Recommended	Recommended	
IA-4	Prohibit password reuse for a specified number of generations.	Essential	Recommended	Optional	
	Allow temporary password use for system logons with an immediate	5		Outline 1	
IA-5	change to a permanent password.	Essential	Recommended	Optional	
IA-6	Obscure feedback of authentication information.	Essential	Recommended	Optional	
Incidence	Response: Establishes an operational incident-handling capability for organization	onal systems that in	cludes preparation	, detection, analysi	s, containment, recovery, and user response activities.
Control ID	Control Description				
CONTINUE	control Description		rmation Risk Classific		A
		High	Moderate	Low	Assessment
	Establish an operational incident-handling capability for organizational systems				
ID 1	that includes preparation, detection, analysis, containment, recovery, and user	Eccential	Decembranded	Ontional	
IR-1	response activities.	Essential	Recommended	Optional	
	Track, document, and report incidents to designated officials and/or authorities	Transitial.	Constant of	De como en el col	
IR2	both internal and external to the organization.	Essential	Essential	Recommended	
IR-3	Test the organizational incident response capability.	Essential	Recommended	Recommended	
	Maintenance: Controls and mitigate vulr	herabilities through	nardware, firmwa	re and software upo	dates
		1			
Control ID	Control Description		rmation Risk Classific		
		High	Moderate	Low	Assessment
Control ID M-1	Perform maintenance / apply updates or patches on organizational systems.		-		Assessment
M-1	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to	High Essential	Moderate Recommended	Low Optional	Assessment
	Perform maintenance / apply updates or patches on organizational systems.	High	Moderate	Low	Assessment
M-1	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance.	High Essential Essential	Moderate Recommended Recommended	Low Optional Optional	
M-1	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to	High Essential Essential	Moderate Recommended Recommended	Low Optional Optional	
M-1	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance.	High Essential Essential nedia that hold dat	Moderate Recommended Recommended	Low Optional Optional ind electronic stora	
M-1 M-2	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance. Media Protection: Media protection controls ensure r	High Essential Essential nedia that hold dat	Moderate Recommended Recommended a, including paper a rmation Risk Classific	Low Optional Optional Ind electronic stora ation	
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M-1 M-2 Control ID MP-1 MP-2 MP-3	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance. Media Protection: Media protection controls ensure a Control Description Protect (i.e., physically control and securely store) system media containing data, both paper and digital. Limit access to the University's data on system media to authorized users. Sanitize or destroy system media containing the University's data before disposal	High Essential Essential Info High Essential Essential Essential	Moderate Recommended Recommended a, including paper a rmation Risk Classific Moderate Recommended Recommended Recommended	Low Optional Optional ation Low Optional Optional	ge, are protected.
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M-1 M-2 Control ID MP-1 MP-2 MP-3 MP-4 MP-5 MP-6	Perform maintenance / apply updates or patches on organizational systems. Provide controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance. Media Protection: Media protection controls ensure I Control Description Protect (i.e., physically control and securely store) system media containing data, both paper and digital. Limit access to the University's data on system media to authorized users. Sanitize or destroy system media containing the University's data before disposal or release for reuse. Control access to media containing the University's data and maintain accountability for media during transport outside of controlled areas. Implement cryptographic mechanisms to protect the confidentiality of the University's data stored on digital media during transport unless otherwise protected by alternative physical safeguards. optional recommended essential essential Protect the confidentiality of backup University data at storage locations.	High Essential Essential High Essential Essential Essential Essential Essential Essential Essential	Moderate Recommended a, including paper a mation Risk Classific Moderate Recommended	Low Optional Optional ation Low Optional Optional Optional Optional Optional Optional Optional Optional	ge, are protected. Assessment
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-		High	Moderate	Low	Assessment
	Periodically assess the risk to organizational operations (including mission,		moderate	1011	Assessment
	functions, image, or reputation), organizational assets, and individuals, resulting				
RA-1	from the operation of organizational systems and the associated processing, storage, or transmission of the University's data	Essential	Recommended	Optional	
10A 1	Scan for vulnerabilities in organizational systems and applications periodically	Essential	Recommended	optional	
RA-2	and when new vulnerabilities affecting those systems and applications are identified.	Essential	Recommended	Recommended	
RA-3	Remediate vulnerabilities in accordance with risk assessments.	Essential	Recommended	Recommended	
INA-3	Remediate vulnerabilities in accordance with risk assessments.	Losential	Recommended	Recommended	
	Security Assessment: Security assessment	controls to ensure	the security progra	m is operating effe	ctively.
Control ID	Control Description		rmation Risk Classific		
		High	Moderate	Low	Assessment
	Periodically assess the security controls in organizational systems to determine if				
PS-1	the controls are effective in their application.	Essential	Recommended	Optional	
	Develop and implement plans of action designed to correct deficiencies and				
PS-2	reduce or eliminate vulnerabilities in organizational systems.	Essential	Recommended	Recommended	
	Monitor security controls on an ongoing basis to ensure the continued				
PS-3	effectiveness of the controls.	Essential	Recommended	Optional	
			L	l	
S	systems and Communication Protection: These controls ensure University data is p	ransit over university services and networks.			
Control ID	Control Descritpion	Info	rmation Risk Classific	ation	
		High	Moderate	Low	
	Monitor, control, and protect communications (i.e., information transmitted or				
	received by organizational systems) at the external boundaries and key internal				
SCP-1	boundaries of organizational systems.	Essential	Recommended	Optional	
	Employ architectural designs, software development techniques, and systems				
	engineering principles that promote effective information security within				
SCP-2	organizational systems.	Essential	Recommended	Optional	
	Implement cryptographic mechanisms to prevent unauthorized disclosure of the				
	University's data during transmission unless otherwise protected by alternative				
SCP-3	physical safeguards.	Essential	Recommended	Optional	
	Establish and manage cryptographic keys for cryptography employed in				
SCP-4	organizational systems	Essential	Recommended	Optional	
	Employ University approved cryptography when used to protect the				
SCP-5	confidentiality of the University's data.	Essential	Recommended	Optional	
SCP-6	Control and monitor the use of Voice over Internet Protocol (VoIP) technologies	Essential	Recommended	Optional	
SCP-7	Protect the authenticity of communications sessions	Essential	Recommended	Optional	
SCP-8	Protect the confidentiality of the university's data at rest	Essential	Recommended	Optional	
	System and Information Intergrity: These controls ensure University system	ems, data, and pro	cesses are trusted a	and protected again	st malicious or accidental alteration.
		Information Disk Classification			
Control ID	Control Description	Information Risk Classification			
		High	Moderate	Low	
SII-1	Identify, report, and remediate system flaws in a timely manner.	Essential	Recommended	Recommended	
	Provide protection from malicious code at designated locations within				
SII-2	organizational systems.	Essential	Recommended	Recommended	
SII-3	Monitor system security alerts and advisories and take action in response.	Essential	Recommended	Optional	
SII-4	Update malicious code protection mechanisms when new releases are available.	Essential	Recommended	Optional	
	Monitor organizational systems, including inbound and outbound				
SII-5	communications traffic, to detect attacks and indicators of potential attacks.	Essential	Recommended	Optional	l