

v = required

+ = recommended (future requirement)

o = recommended (best practice, strongly encouraged)

Minimum Security Standard for Electronic Information (MSSEI)

MSSND

Data Class (protection level)	Level 1			Level 2			Main Actors				
	Individual	Privileged	Institutional	Individual	Privileged	Institutional	User	Image	Proprietor	App Devlpr	Sys Admin
1.1 Removal of non-required covered data	o	v	v	v	v	v	*		*	*	*
1.2 Covered system inventory		v	v		v	v			*		*
1.3 Covered system registration		+	v		v	v			*		*
1.4 Annual inventory and registration renewal		v	v		v	v			*		*
2.1 Managed software inventory		+	v	o	v	v		*			*
3.1 Secure device configurations	o	+	v	v	v	v		*			*
4.1 Continuous vulnerability assessment/remediation		+	v		v	v					*
4.2 Authenticated scan					v	v				*	*
4.3 Intrusion Detection		+	+		v	v					*
5.1 Device physical security	o	o	+	o	o	v	*				*
6.1 Secure coding training	v	v	v	v	v	v				*	
6.2 Code review						v				*	
6.3 Application security testing						v				*	
6.4 Commercial software assessment						v			*		
7.1 No mobile/wireless "Institutional" devices			+			v				*	*
8.1 Privacy and security training	o	+	+	v	v	v	*		*	*	*
9.1 Unique passphrases	v	v	v	v	v	v	*		*		
9.2 Separation of accounts	v	v	v	v	v	v					*
9.3 Separation of system resources			v			v					*
10.1 Use of admin accounts only on secure devices		+	v		v	v				*	*
10.2 Admin account security		+	v		v	v					
11.1 Managed hardware firewall			v			v					*
11.2 Protected subnets			+			v					*
12.1 Security audit logging			v			v					*
12.2 Security audit log analysis			+			v					*
13.1 Controlled access based on the need to know	v	v	v	v	v	v	*		*		
14.1 Account monitoring and management			v	v	v	v			*		
15.1 Encryption in transit	v	v	v	v	v	v				*	*
15.2 Encryption on mobile devices/removable storage			v	v	v	v	*	*			
15.3 Secure deletion upon decommission	o	v	v	v	v	v		*			
15.4 Data access agreement			v			v			*		*
16.1 Incident response planning			v			v			*		*
16.2 Incident response plan availability			+			v			*		*
16.3 Incident response training	v	v	v	v	v	v			*		*
17.1 MSSND Compliance (see below)	v	v	v	v	v	v					
ND-1 Software patch updates	v	v	v	v	v	v		*			*
ND-2 Anti-malware Software	v	v	v	v	v	v		*			*
ND-3 Host-based Firewall software	v	v	v	v	v	v		*			*
ND-4 Use of authentication	v	v	v	v	v	v	*			*	*
ND-5 Passphrase complexity	v	v	v	v	v	v	*			*	
ND-6 Encrypted authentication	v	v	v	v	v	v			*		*
ND-7 No unattended console sessions	v	v	v	v	v	v	*	*	*		*
ND-8 No unnecessary services	v	v	v	v	v	v		*			*
ND-9 Privileged accounts	v	v	v	v	v	v			*		*

<p>Level 1: Individual</p> <ul style="list-style-type: none"> - Devices processing, storing or transmitting protection level 1 data, provided these devices cannot be classified as either institutional or privileged access. <p>[By default, all Univ. issued employee workstations/laptops/tablets/smart phones]</p>	<p>Level 1: Privileged</p> <ul style="list-style-type: none"> - Any device where credentials are used to provide privileged access (super user, root, administrator, database administrator, and equivalent) to an institutional protection level 1 device (physical, logical, and virtual devices included). 	<p>Level 1: Institutional</p> <ul style="list-style-type: none"> - Servers (i.e., devices that provide access to data from other devices) that store, process or transmit 1,000 or more records of structured or unstructured protection level 1 data. This includes database servers, application servers, web front-end servers, back-up and storage systems, and any systems that provide authentication, authorization, or configuration management for those systems. OR - Systems with stored credentials to access protection level 1 data in any of the above systems.
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<p>Level 2: Individual</p> <ul style="list-style-type: none"> - Devices accessing data in a protection level 2 information system or otherwise processing, storing or transmitting protection level 2 data, provided these end-user devices cannot be classified as either institutional or privileged access. 	<p>Level 2: Privileged</p> <ul style="list-style-type: none"> - Any device where credentials are used to provide privileged access (super user, root, administrator, database administrator, and equivalent) to an institutional use data protection level 2 device (physical, logical, and virtual devices included). 	<p>Level 2: Institutional</p> <ul style="list-style-type: none"> - Stores of 500 or more records of structured or unstructured protection level 2 data. OR - Servers (i.e., devices that provide access to data from other devices) that store, process or transmit protection level 2 data. This includes database servers, application servers, web front-end servers, back-up and storage systems, and any systems that provide authentication, authorization, or configuration management for those systems.
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The "main actor" indicators identify the controls most relevant to a given role. However, **Proprietors** are responsible for partnering with their Resource Custodians to achieve compliance with **all MSSEI and MSSND** controls.

In the absence of an identified IT custodian, **users** are the default custodians for the devices they use.