



# FedRAMP Control

## Quick Guide

Control requirements are identified in the FedRAMP SSP

ID	Control Description	Low	Moderate	High
AC	Access Control	11	43 (25)	54 (36)
AT	Awareness and Training	4	5 (1)	7 (3)
AU	Audit and Accountability	10	19 (8)	31 (19)
CA	Security Assessment and Authorization	8 (1)	15 (7)	16 (8)
CM	Configuration Management	8	26 (15)	36 (25)
CP	Contingency Planning	6	24 (15)	35 (26)
IA	Identification and Authentication	15 (8)	27 (19)	31 (23)
IR	Incident Response	7	18 (9)	26 (17)
MA	Maintenance	4	11 (5)	14 (8)
MP	Media Protection	4	10 (3)	12 (5)
PE	Physical and Environmental Protection	10	20 (4)	27 (10)
PL	Planning	3	6 (2)	6 (2)
PS	Personnel Security	8	9 (1)	10 (2)
RA	Risk Assessment	4	10 (6)	12 (8)
SA	System and Services Acquisition	6	22 (13)	26 (13)
SC	System and Communications Protection	10	32 (12)	39 (17)
SI	System and Information Integrity	7	28 (16)	39 (27)

## Legend

0 (0)	Count = Total number of controls in each group (Total number of enhancements)
L	Impact Level: Low = L
M	Impact Level: Moderate or Mod = M
H	Impact Level: High = H
(0) (0)	Control enhancement identifier (1) (2) (3)
<b>FP</b>	FedRAMP Parameter(s)
<b>FR</b>	Additional FedRAMP Requirements
<b>FG</b>	FedRAMP Guidance
Note: Controls and Enhancements added by FedRAMP are in <b>Bold</b> text.	



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## Access Control (AC)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
AC-1	Access Control Policy and Procedures	L	M	H	FP
AC-2	Account Management	L	M (1) (2) (3) (4) (5) (7) (9) (10) (12)	H (1) (2) (3) (4) (5) (7) (9) (10) (11) (12) (13)	FP; FR; FG
AC-3	Access Enforcement	L	M	H	
AC-4	Information Flow Enforcement		M (21)	H (8) (21)	
AC-5	Separation of Duties		M	H	FG
AC-6	Least Privilege		M (1) (2) (5) (9) (10)	H (1) (2) (3) (5) (7) (8) (9) (10)	FP; FG
AC-7	Unsuccessful Logon Attempts	L	M	H (2)	FP
AC-8	System Use Notification	L	M	H	FP; FR
AC-10	Concurrent Session Control		M	H	FP
AC-11	Session Lock		M (1)	H (1)	FP
AC-12	Session Termination		M	H (1)	FG
AC-14	Permitted Actions Without Identification or Authentication	L	M	H	
AC-17	Remote Access	L	M (1) (2) (3) (4) (9)	H (1) (2) (3) (4) (9)	FP
AC-18	Wireless Access	L	M (1)	H (1) (3) (4) (5)	
AC-19	Access Control For Mobile Devices	L	M (5)	H (5)	
AC-20	Use of External Information Systems	L	M (1) (2)	H (1) (2)	
AC-21	Information Sharing		M	H	
AC-22	Publicly Accessible Content	L	M	H	FP

## Awareness and Training (AT)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
AT-1	Security Awareness and Training Policy and Procedures	L	M	H	FP
AT-2	Security Awareness Training	L	M (2)	H (2)	FP
AT-3	Role-Based Security Training	L	M	H (3) (4)	FP
AT-4	Security Training Records	L	M	H	FP

## Audit and Accountability (AU)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
AU-1	Audit and Accountability Policy and Procedures	L	M	H	FP
AU-2	Audit Events	L	M (3)	H (3)	FP; FR; FG
AU-3	Content of Audit Records	L	M (1)	H (1) (2)	FP; FR
AU-4	Audit Storage Capacity	L	M	H	
AU-5	Response to Audit Processing Failures	L	M	H (1) (2)	FP
AU-6	Audit Review, Analysis and Reporting	L	M (1) (3)	H (1) (3) (4) (5) (6) (7) (10)	FP; FR
AU-7	Audit Reduction and Report Generation		M (1)	H (1)	
AU-8	Time Stamps	L	M (1)	H (1)	FP; FR
AU-9	Protection of Audit Information	L	M (2) (4)	H (2) (3) (4)	FP
AU-10	Non-repudiation			H	
AU-11	Audit Record Retention	L	M	H	FP; FR
AU-12	Audit Generation	L	M	H (1) (3)	FP

## Security Assessment and Authorization (CA)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
CA-1	Security Assessment and Authorization Policies and Procedures	L	M	H	FP
CA-2	Security Assessments	L (1)	M (1) (2) (3)	H (1) (2) (3)	FP; FR
CA-3	System Interconnections	L	M (3) (5)	H (3) (5)	FP; FG
CA-5	Plan of Action and Milestones	L	M	H	FP; FG
CA-6	Security Authorization	L	M	H	FP; FG
CA-7	Continuous Monitoring	L	M (1)	H (1) (3)	FP; FR; FG
CA-8	Penetration Testing	L	M (1)	H (1)	FP
CA-9	Internal System Connections	L	M	H	



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## Configuration Management (CM)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
CM-1	Configuration Management Policy and Procedures	L	M	H	FP
CM-2	Baseline Configuration	L	M (1) (2) (3) (7)	H (1) (2) (3) (7)	FP; FG
CM-3	Configuration Change Control		M	H (1) (2) (4) (6)	FR; FG
CM-4	Security Impact Analysis	L	M	H (1)	
CM-5	Access Restrictions for Change		M (1) (3) (5)	H (1) (2) (3) (5)	FP
CM-6	Configuration Settings	L	M (1)	H (1) (2)	FP; FR
CM-7	Least Functionality	L	M (1) (2) (5)*	H (1) (2) (5)	FP; FR; FG
CM-8	Information System Component Inventory	L	M (1) (3) (5)	H (1) (2) (3) (4) (5)	FP; FR
CM-9	Configuration Management Plan		M	H	
CM-10	Software Usage Restrictions	L	M (1)	H (1)	
CM-11	User-Installed Software	L	M	H (1)	FR

\*FedRAMP does not include CM-7 (4) in the Moderate Baseline. The NIST supplemental guidance states that CM-7 (4) is not required if CM-7 (5) is implemented.

## Contingency Planning (CP)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
CP-1	Contingency Planning Policy and Procedures	L	M	H	FR
CP-2	Contingency Plan	L	M (1) (2) (3) (8)	H (1) (2) (3) (4) (5) (8)	FP; FR
CP-3	Contingency Training	L	M	H (1)	FP
CP-4	Contingency Plan Testing	L	M (1)	H (1) (2)	FP; FR
CP-6	Alternate Storage Site		M (1) (3)	H (1) (2) (3)	
CP-7	Alternate Processing Site		M (1) (2) (3)	H (1) (2) (3) (4)	
CP-8	Telecommunications Services		M (1) (2)	H (1) (2) (3) (4)	
CP-9	Information System Backup	L	M (1) (3)	H (1) (2) (3) (5)	FP; FR
CP-10	Information System Recovery and Reconstitution	L	M (2)	H (2) (4)	

## Identification and Authentication (IA)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
IA-1	Identification and Authentication Policy and Procedures	L	M	H	FP
IA-2	Identification and Authentication (Organizational Users)	L (1) (12)	M (1) (2) (3) (5) (8) (11) (12)	H (1) (2) (3) (4) (5) (8) (9) (11) (12)	FP; FG
IA-3	Device Identification and Authentication		M	H	
IA-4	Identifier Management	L	M (4)	H (4)	FP; FR; FG
IA-5	Authenticator Management	L (1) (11)	M (1) (2) (3) (4) (6) (7) (11)	H (1) (2) (3) (4) (6) (7) (8) (11) (13)	FP; FR; FG
IA-6	Authenticator Feedback	L	M	H	
IA-7	Cryptographic Module Authentication	L	M	H	
IA-8	Identification and Authentication (Non-Organizational Users)	L (1) (2) (3) (4)	M (1) (2) (3) (4)	H (1) (2) (3) (4)	

## Incident Response (IR)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
IR-1	Incident Response Policy and Procedures	L	M	H	FP
IR-2	Incident Response Training	L	M	H (1) (2)	FP
IR-3	Incident Response Testing		M (2)	H (2)	FP; FR
IR-4	Incident Handling	L	M (1)	H (1) (2) (3) (4) (6) (8)	FR
IR-5	Incident Monitoring	L	M	H (1)	FR; FG
IR-6	Incident Reporting	L	M (1)	H (1)	FP; FR
IR-7	Incident Response Assistance	L	M (1) (2)	H (1) (2)	
IR-8	Incident Response Plan	L	M	H	FP; FR
IR-9	Information Spillage Response		M IR-9 (1) (2) (3) (4)	H IR-9 (1) (2) (3) (4)	

## Maintenance (MA)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
MA-1	System Maintenance Policy and Procedures	L	M	H	FP
MA-2	Controlled Maintenance	L	M	H (2)	
MA-3	Maintenance Tools		M (1) (2) (3)	H (1) (2) (3)	FP
MA-4	Nonlocal Maintenance	L	M (2)	H (2) (3) (6)	
MA-5	Maintenance Personnel	L	M (1)	H (1)	
MA-6	Timely Maintenance		M	H	



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## Media Protection (MP)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
MP-1	Media Protection Policy and Procedures	L	M	H	FP
MP-2	Media Access	L	M	H	
MP-3	Media Marking		M	H	FP; FG
MP-4	Media Storage		M	H	FP; FR
MP-5	Media Transport		M (4)	H (4)	FP; FR
MP-6	Media Sanitization	L	M (2)	H (1) (2) (3)	FP; FG
MP-7	Media Use	L	M (1)	H (1)	

## Physical and Environmental Protection (PE)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
PE-1	Physical and Environmental Protection Policy and Procedures	L	M	H	FP
PE-2	Physical Access Authorizations	L	M	H	FP
PE-3	Physical Access Control	L	M	H (1)	FP
PE-4	Access Control for Transmission Medium		M	H	
PE-5	Access Control for Output Devices		M	H	
PE-6	Monitoring Physical Access	L	M (1)	H (1) (4)	FP
PE-8	Visitor Access Records	L	M	H (1)	FP
PE-9	Power Equipment and Cabling		M	H	
PE-10	Emergency Shutoff		M	H	
PE-11	Emergency Power		M	H (1)	
PE-12	Emergency Lighting	L	M	H	
PE-13	Fire Protection	L	M (2) (3)	H (1) (2) (3)	
PE-14	Temperature and Humidity Controls	L	M (2)	H (2)	FP; FR
PE-15	Water Damage Protection	L	M	H (1)	
PE-16	Delivery and Removal	L	M	H	FP
PE-17	Alternate Work Site		M	H	
PE-18	Location of Information System Components			H	

## Planning (PL)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
PL-1	Security Planning Policy and Procedures	L	M	H	FP
PL-2	System Security Plan	L	M (3)	H (3)	FP
PL-4	Rules of Behavior	L	M (1)	H (1)	FP
PL-8	Information Security Architecture		M	H	FP; FG

## Personnel Security (PS)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
PS-1	Personnel Security Policy and Procedures	L	M	H	FP
PS-2	Position Risk Designation	L	M	H	FP
PS-3	Personnel Screening	L	M (3)	H (3)	FP
PS-4	Personnel Termination	L	M	H (2)	FP
PS-5	Personnel Transfer	L	M	H	FP
PS-6	Access Agreements	L	M	H	FP
PS-7	Third-Party Personnel Security	L	M	H	FP
PS-8	Personnel Sanctions	L	M	H	

## Risk Assessment (RA)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
RA-1	Risk Assessment Policy and Procedures	L	M	H	FP
RA-2	Security Categorization	L	M	H	
RA-3	Risk Assessment	L	M	H	FP; FG
RA-5	Vulnerability Scanning	L	M (1) (2) (3) (5) (6) (8)	H (1) (2) (3) (4) (5) (6) (8) (10)	FP; FR;



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## System and Services Acquisition (SA)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
SA-1	System and Services Acquisition Policy and Procedures	L	M	H	FP
SA-2	Allocation of Resources	L	M	H	
SA-3	System Development Life Cycle	L	M	H	
SA-4	Acquisition Process	L	M (1) (2) (8) (9) (10)	H (1) (2) (8) (9) (10)	FP; FG
SA-5	Information System Documentation	L	M	H	
SA-8	Security Engineering Principles		M	H	
SA-9	External Information System Services	L	M (1) (2) (4) (5)	H (1) (2) (4) (5)	FP
SA-10	Developer Configuration Management		M (1)	H (1)	FP; FR
SA-11	Developer Security Testing and Evaluation		M (1) (2) (8)	H (1) (2) (8)	FR
SA-12	Supply Chain Protection			H	
SA-15	Development Process, Standards, and Tools			H	
SA-16	Developer-Provided Training			H	
SA-17	Developer Security Architecture and Design			H	

## System and Communications Protection

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
SC-1	System and Communications Protection Policy and Procedures	L	M	H	FP
SC-2	Application Partitioning		M	H	
SC-3	Security Function Isolation			H	
SC-4	Information in Shared Resources		M	H	
SC-5	Denial of Service Protection	L	M	H	
SC-6	Resource Availability		M	H	
SC-7	Boundary Protection	L	M (3) (4) (5) (7) (8) (12) (13) (18)	H (3) (4) (5) (7) (8) (10) (12) (13) (18) (20) (21)	FP; FR
SC-8	Transmission Confidentiality and Integrity		M (1)	H (1)	FP
SC-10	Network Disconnect		M	H	FP
SC-12	Cryptographic Key Establishment and Management	L	M (2) (3)	H (1) (2) (3)	FP; FG
SC-13	Cryptographic Protection	L	M	H	FP
SC-15	Collaborative Computing Devices	L	M	H	FP; FR
SC-17	Public Key Infrastructure Certificates		M	H	
SC-18	Mobile Code		M	H	
SC-19	Voice Over Internet Protocol		M	H	
SC-20	Secure Name /Address Resolution Service (Authoritative Source)	L	M	H	
SC-21	Secure Name /Address Resolution Service (Recursive or Caching)	L	M	H	
SC-22	Architecture and Provisioning for Name/Address Resolution Ser	L	M	H	
SC-23	Session Authenticity		M	H (1)	
SC-24	Fail in Known State			H	
SC-28	Protection of Information at Rest		M (1)	H (1)	FP; FG
SC-39	Process Isolation	L	M	H	

## System and Information Integrity (SI)

Control	Control Name	Control Baseline			Additional Req.
		Low	Moderate	High	
SI-1	System and Information Integrity Policy and Procedures	L	M	H	FP
SI-2	Flaw Remediation	L	M (2) (3)	H (1) (2) (3)	FP
SI-3	Malicious Code Protection		M (1) (2) (7)	H (1) (2) (7)	FP
SI-4	Information System Monitoring	L	M (1) (2) (4) (5) (14) (16) (23)	H (1) (2) (4) (5) (11) (14) (16) (18) (19) (20) (22) (23) (24)	FP; FG
SI-5	Security Alerts, Advisories, and Directives	L	M	H (1)	FP
SI-6	Security Function Verification		M	H	FP
SI-7	Software, Firmware, and Information Integrity		M (1) (7)	H (1) (2) (5) (7) (14)	FP
SI-8	Spam Protection		M (1) (2)	H (1) (2)	
SI-10	Information Input Validation		M	H	
SI-11	Error Handling		M	H	
SI-12	Information Handling and Retention	L	M	H	
SI-16	Memory Protection	L	M	H	