

CyCognito Alignment with NIST 800-53 Rev 5.1

The NIST Risk Management Framework (RMF), also known as special publication (SP) 800-53, provides a list of controls that support the development of secure and resilient federal information systems. [NIST SP 800-53 rev. 5.1/800-53B](#) is the latest version, containing 20 [control families](#), each with multiple controls divided into low, medium and high priority.

The CyCognito solution aligns partially or substantially to 10 of the 20 control families as applied to externally facing assets. See details for more information on alignment.

#	NIST 800-53 Rev 5.1 Control Family	CyCognito Alignment
1	AC - Access Control	4 of 25 controls
2	AT - Awareness And Training	0 of 6 controls
3	AU - Audit And Accountability	0 of 16 controls
4	CA - Assessment, Authorization, And Monitoring	2 of 9 controls
5	CM - Configuration Management	2 of 14 controls
6	CP - Contingency Planning	0 of 13 controls
7	IA - Identification And Authentication	4 of 12 controls
8	IR - Incident Response	0 of 10 controls
9	MA - Maintenance	0 of 7 controls
10	MP - Media Protection	0 of 8 controls
11	PE - Physical And Environmental Protection	0 of 23 controls
12	PL - Planning	1 of 11 controls
13	PM - Program Management	6 of 32 controls
14	PS - Personnel Security	0 of 9 controls
15	PT - PII Processing And Transparency	0 of 8 controls
16	RA - Risk Assessment	4 of 10 controls
17	SA - System And Services Acquisition	1 of 23 controls
18	SC - System And Communications Protection	1 of 51 controls
19	SI - System And Information Integrity	1 of 23 controls
20	SR - Supply Chain Risk Management	0 of 12 controls

Details

The CyCognito platform continuously scans and automatically tests your entire attacker-exposed IT ecosystem to identify This table provides details on the CyCognito alignment with the NIST 800-53 Rev 5.1 control families.

#	NIST 800-53 Rev 5.1 Control Family	Control	CyCognito Alignment
1	Access Control	AC-3 Access Enforcement	Yes - AC-3(1), AC-3(6)
		AC-17 Remote Access	Yes
		AC-20 Use of External Systems	Yes
		AC-22 Publicly Accessible Content	Yes
2	Awareness and Training	None	
3	Audit and Accountability	None	
4	Assessment, Authorization and Monitoring	CA-7 Continuous Monitoring	Yes
		CA-8 Penetration Testing	Yes
5	Configuration Management	CM-8 System Component Inventory	Yes
		CM-12 Information Location	Yes - Partially meets this requirement. CyCognito identifies if personal data is collected but not where stored.
6	Contingency Planning	None	
7	Identification and Authentication	IA-2 Identifications and Authentication (Organizational Users)	Yes - IA-2(10)
		IA-3 Device Identification and Authentication	Yes - IA-3(1)
		IA-7 Cryptographic Module Authentication	Yes
		IA-9 Service Identification and Authentication	Yes
8	Incident Response	None	
9	Maintenance	None	
10	Media Protection	None	
11	Physical and Environmental Protection	None	
12	Planning	PL-2 System Security and Privacy Plans	Yes - Partial assistance via reporting
13	Program Management	PM-5 System Inventory	
		PM-9 Risk Management Strategy	Yes - Partial assistance via reporting
		PM-16 Threat Awareness Program	Yes - Partial assistance via threat intelligence
		PM-17 Protecting Controlled Unclassified Information On External Systems	Yes
		PM-27 Privacy Reporting	Yes
		PM-31 Continuous Monitoring Strategy	Yes

#	NIST 800-53 Rev 5.1 Control Family	Control	CyCognito Alignment
14	Personnel Security		None
15	PII Processing and Transparency		None
16	Risk Assessment	RA-2 Security Categorization	Yes
		RA-3 Risk Assessment	Yes
		RA-5 Vulnerability Monitoring and Scanning	Yes
		RA-9 Critical Analysis	Yes
17	System and Services Acquisition	SA-9 External System Services	Yes
18	System and Communications Protection	SC-13 Cryptographic Protection	Yes
19	System and Information Integrity		None
		SI-10 Information Input Validation	Yes - Partial, SI-10(6)
20	Supply Chain Risk Management		None

To learn how the CyCognito platform uniquely helps you identify and prioritize the paths of least resistance into your IT ecosystem, so that you can eliminate them, visit cycognito.com.