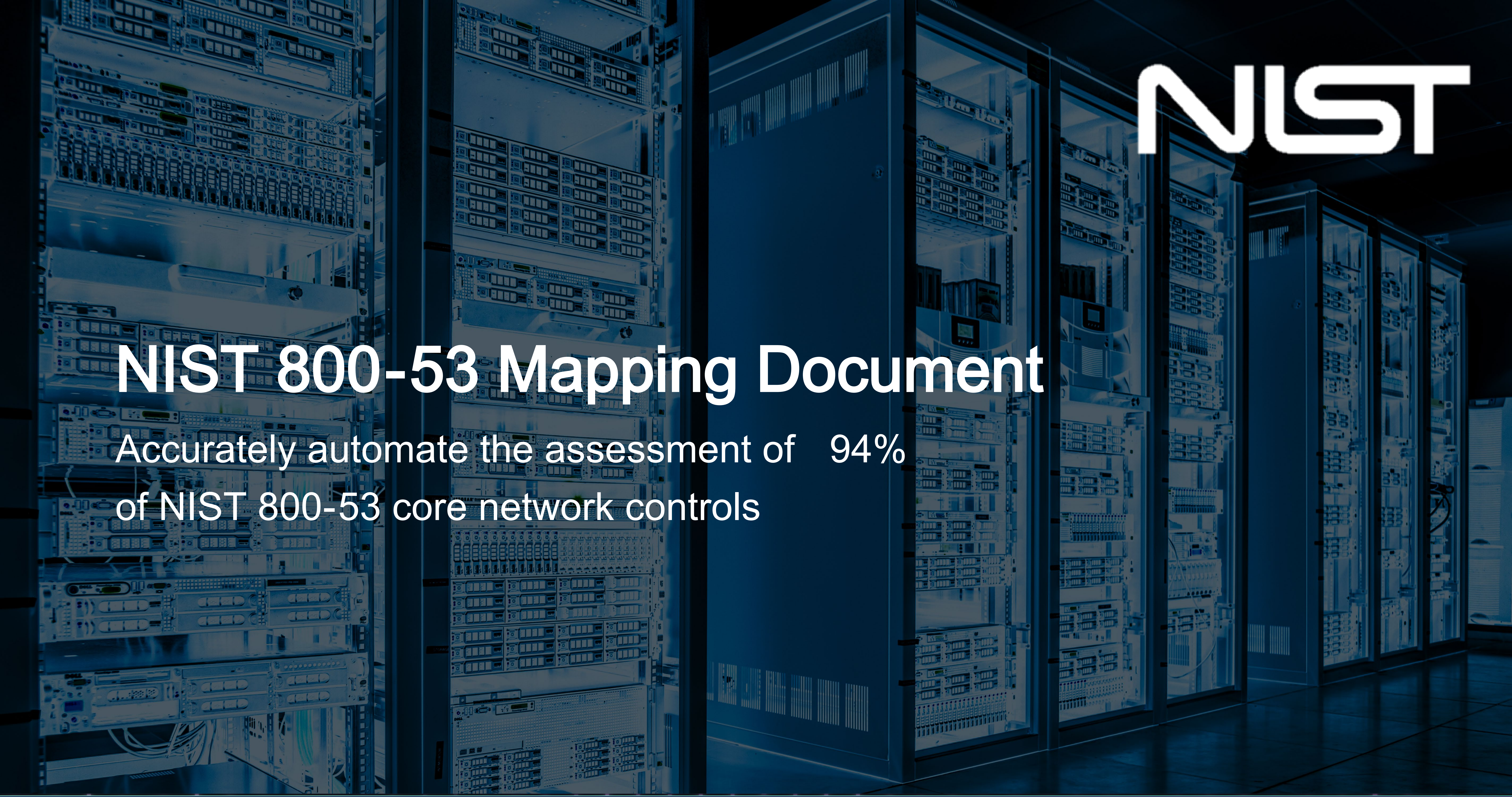

NIST

NIST 800-53 Mapping Document

Accurately automate the assessment of 94% of NIST 800-53 core network controls

NIST 800-53 Mapping Document

Titania Nipper is trusted by the US Department of Defense (DoD) and other federal agencies to accurately automate core network device assessments against trusted risk management and control frameworks and benchmarks (NIST, STIGs and CIS benchmarks). Titania Nipper is proven to save up to 3 hours per device audit by not investigating false positives generated by competitive solutions.

Nipper automates the accurate assessment of 34 (94%) of NIST 800-53 controls related to network devices across the following 10 control families, allowing federal agencies to determine and demonstrate NIST 800-53 compliance:

- Access Control – see page 3
- Audit and Accountability – see page 4
- Security Assessment – see page 5
- Configuration Management – see page 5
- Identification and Authentication – see page 6
- Risk Assessment – see page 6
- System and Services Acquisition – see page 6
- System and Communications Protection – see page 7
- System and Information Integrity – see page 8
- Supply Chain Risk– see page 8

Access Control

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems

Access Control (AC)	AC-2	Account Management	N/A	AC-2(7)
				AC-2(9)
					Configuration Report	P1	N/A	N/A	N/A

	AC-4	Information Flow Enforcement	AC-4	AC-4(1)	Security Audit	P1	N/A	✓	✓
	AC-6	Least Privilege	AC-6	AC-6(1)	Security Audit Configuration Report	P1	N/A	✓	✓
	AC-7	Unsuccessful Logon Attempts	AC-7	N/A	Security Audit	P2	✓	✓	✓
	AC-8	System Use Notification	AC-8(a),(b)	N/A	Security Audit	P1	✓	✓	✓
	AC-11	Device Lock	AC-11	N/A	Security Audit	P3	N/A	✓	✓
	AC-17	Remote Access	AC-17(b)	AC-17(2)	Security Audit	P1	✓	✓	✓
	AC-18	Wireless Access	AC-18(b)	AC-18(1)	Security Audit	P1	✓	✓	✓

Audit & Accountability

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Audit and Accountability (AU)	AU-2	Audit Events	AU-2(a),(b),(c)	N/A	Nipper + SIEM Integration	P1	✓	✓	✓

	AU-3	Content of Audit Records	AU-3	AU-3(1)
				AU-3(3)
					Nipper + SIEM Integration	P1	✓	✓	✓

	AU-4	Audit Storage Capacity	AU-4	AU-4(1)	Security Audit Configuration Report	P1	✓	✓	✓

	AU-6	Audit Review, Analysis, and Reporting	AU-6(a),(c)	AU-6(1)
				AU-6(3)
				AU-6(4)
				AU-6(5)
					Nipper + SIEM Integration	P1	✓	✓	✓

	AU-7	Audit Reduction and Report Generation	AU-7	AU-7(1)	Nipper + SIEM Integration	P2	N/A	✓	✓
	AU-9	Protection of Audit Information	N/A	AU-9(2)	Security Audit	P1	N/A	N/A	✓
	AU-11	Audit Record Retention	AU-11	AU-11(1)	Nipper + SIEM Integration	P3	✓	✓	✓

	AU-12	Audit Generation	AU-12(a),(b),(c)	AU-12(1)
				AU-12(2)
					Nipper + SIEM Integration	P1	✓	✓	✓

Security Assessment and Authorization

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Security Assessment and Authorization (CA)	CA-2	Security Assessments	CA-2(d),(e)	CA-2(2)	Security Audit	P2	✓	✓	✓

	CA-7	Continuous Monitoring	CA-7(c),(e)	CA-7(3)
				CA-7(4)
				CA-7(6)
					Nipper + SIEM Integration	P2	✓	✓	✓

Configuration Management

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Configuration Management (CM)	CM-2	Baseline Configuration	CM-2(b)	N/A	Raw Change Tracking	P1	✓	✓	✓
	CM-5	Access Restrictions for Change	N/A	CM-5(1)	Security Audit	P1	N/A	N/A	✓

	CM-6	Configuration Settings	CM-6(c),(d)	CM-6(1)
				CM-6(2)
					Security Audit
					STIG Audit
					Vulnerability Audit
					SIEM Integration
						P1	✓	✓	✓

	CM-7	Least Functionality	CM-7	CM-7(1)	Security Audit	P1	✓	✓	✓
	CM-8	Information System Component Inventory	CM-8	CM-8(1)	Configuration Report	P1	✓	✓	✓

Identification and Authentication

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Identification and Authentication (IA)	IA-5	Authenticator Management	IA-5(c),(e),(f),(h)	IA-5(1)	Security Audit	P1	✓	✓	✓

Risk Assessment

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Risk Assessment (RA)	RA-3	Risk Assessment	RA-3(a)	N/A	Security Audit	P1	✓	✓	✓

	RA-5	Vulnerability Scanning	RA-5(a),(b),(c),(f)	RA-5(2)
				RA-5(3)
				RA-5(5)
				RA-5(6)
				RA-5(8)
				RA-5(10)
					Security Audit
					Vulnerability Audit
					SIEM Integration
						P1	✓	✓	✓

System and Services Acquisition

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
System and Services Acquisition (SA)	SA-4	Acquisition Process	N/A	SA-4(5)	Security Audit STIG Audit SIEM Integration	P1	N/A	N/A	✓

System and Communications Protection

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
System and Communications Protection (SC)	SC-5	Denial of Service Protection	SC-5	SC-5(3)	Security Audit	P1	✓	✓	✓

	SC-7	Boundary Protection	SC-7(b),(c)	SC-7(4 - f,h)
				SC-7(5)
				SC-7(11)
				SC-7(13)
				SC-7(19)
				SC-7(21)
				SC-7(22)
				SC-7(23)
				SC-7(29)
					Security Audit
					Configuration Report
						P1	✓	✓	✓

	SC-10	Network Disconnect	SC-10	N/A	Security Audit	P2	N/A	✓	✓

	SC-45	System Time Synchronization	SC-45	SC-45(1)
				SC-45(2)
					Security Audit		N/A	N/A	N/A

System and Information Integrity

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems

System and Information Integrity (SI)	SI-4	Information System Monitoring	SI-4(d),(e)	SI-4(2)
				SI-4(3)
				SI-4(16)
				SI-4(17)
					Nipper + SIEM Integration	P1	✓	✓	✓

	SI-5	Security Alerts, Advisories, and Directives	N/A	SI-5(1)	Nipper + SIEM Integration	P1	N/A	N/A	N/A

Supply Chain Risk

Control Family	Control #	Control	Main Control Supported	Control Enhancement Checks Automated with Nipper	Check Automated with Nipper Audit	Priority	Low Impact Information Systems	Moderate Information Systems	High Impact Information Systems
Supply Chain Risk Management (SR)	SR-6	Supplier Assessments and Reviews	SR-6	SR-6(1)	Vulnerability Audit		N/A	✓	✓

Trusted by US federal agencies, Titania Nipper’s unrivaled accuracy in diagnosing core network misconfigurations and vulnerabilities is proven to save up to 3 hours per device audit by not investigating false positives.

94% of controls in the NIST 800-53 framework related to network devices can be automated and accurately assessed, helping internal auditors and audit contractors to determine and demonstrate compliance.

Visit titania.com/nipper to download a 30-day trial today and put Nipper’s accuracy to the test on your network devices.

Or get in touch to arrange a demonstration of how to integrate Nipper with your SIEM to aggregate your NIST 800-53 audit data and analyze compliance across your network.

UK Office

Titania, Security House,
Barbourne Road,
Worcester, WR1 1RS

+1 (703) 682-6821
enquiries@titania.com