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DoD Zero Trust capability mapping

Cisco + Splunk

A Zero Trust model of security prompts organizations to assess trust at every access attempt.

Our view is that a Zero Trust approach should:

- Establish trust for users, devices and applications trying to access an environment
- Enforce trust-based access based on the principle of least privilege, only granting access to applications and data that users/devices explicitly need
- Continuously verify trust to detect any change in risk even after initial access is granted
- Respond to change in trust by investigating and orchestrating response to potential incidents

With this approach, agencies gain better visibility across users, devices, networks, containers, and applications, because they can verify temporal security state and apply risk-based policy with every access attempt. Organizations can also reduce their attack surface by segmenting resources and granting the absolute minimum access needed per request. Applying this Zero Trust model helps entities comply with DoD Complyto-Connect (C2C), Executive Order 14028, NSM-8, and OMB mandates. End users ultimately get a more consistent and productive security experience - regardless of their location, which endpoints are used, or where their applications live in today's hybrid cloud environments.

Establish Trust User / Device / Service Identity Posture + context **Risk-based authentication Enforce Trust Based Access** Micro-segmentation Unified access control Least privilege + explicit trust **Continuously Verify Trust** Re-assessment of trust Indicators of compromise Shared signals Behavior monitoring - threat and nonthreat activity Vulnerability management

- **Respond to Change in Trust**
- Prioritize incident response
- Orchestrated remediation
- Integrated + open workflows

Better together

Cisco and Splunk help create a digital world that is safer and more resilient. Our technologies can assist the DoD in their Zero Trust (ZT) initiative, as stated in the DoD Zero Trust Capability Execution Roadmap and the DoD Zero Trust Strategy. Cisco and Splunk enable "Cross-Pillar Capabilities" with data and network telemetry this provides profound Visibility and Analytics and empowering Automation and Orchestration.

Cisco's Security portfolio offers extensive threat intelligence and advanced analytics which enhances visibility and control across users, devices, networks and applications. Splunk is a data-driven, open, integrated networking and security platform with hundreds of integrations to other technologies supporting existing environments. Splunk also supports multicloud

monitoring and Splunk Cloud SaaS offering is authorized and accredited to FedRAMP Moderate, High, and IL5 standards. Additionally, Splunk has numerous existing deployments in onpremises and highly-classified environments throughout the DoD and Federal Government. Our architects are available to help find the best solution for any situation.

The DoD Zero Trust Strategy outlines a seven pillar zero trust model and associated capabilities, to standardize the way missions and programs implement and adopt zero trust principles. The comprehensive portfolio that Cisco and Splunk brings to the DoD can help integrate data, networking, and security solutions to bring together zero trust outcomes more efficiently with improved user and operator experience.

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IDENTITY Continually verify trust at every access decision



ACCESS Provide least privilege access for users, devices, apps: across networks & clouds



RESPONSE Detect and stop threats faster powered by AI/ML

User & Device

Network & Cloud

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DoD Zero Trust Capabilities						
User	Device	Application and Workload	Data	Network and Environment	Automation and Orchestration	Visibility and Analytics
1.1User Inventory o	2.1 Device Inventory	3.1 Application Inventory	4.1 Data Catalog Risk Assessment	5.1 Data Flow Mapping	6.1 Policy Decision Point (PDP) and Policy orchestration	7.1 Log All Traffic (Network, Data, • • Apps, Users)
1.2Conditional User Access	2.2 Device Detection and Compliance	3.2 Secure Software Development and Integration	4.2 DoD Enterprise Data Governance	5.2 Software Defines Networking (SDN)	6.2 Critical Process Automation	7.2 Security Information and Event Management • o (SIEM)
1.3 Multi-Factor Authentication ● ●	2.3 Device Authorization with Real-Time o Inspection	3.3Software Risk Management	4.3 Data Labeling and Tagging	5.3 Macro Segmentation	6.3 Machine Learning	7.3 Common Security and Risk Analytics
1.4 Privileged Access Management	2.4 Remote Access	3.4 Resource Authorization and o Integration	4.4 Data Monitoring and Sensing ● ●	5.4 Micro Segmentation	6.4 Artificial Intelligence	7.4 User and Entity Behavior Analytics ● ●
1.5 Identity Federation and User • • Credentialing	 2.5 Partially and Fully Automated Asset, Vulnerability and Patch Management 	3.5 Continuous Monitoring and Ongoing • • Authorizations	4.5 Data Encryption and Rights Management ● ●		6.5 Security Orchestration, Automation and Response (SOAR)	7.5 Threat Intelligence Integration ● ●
1.6 Behavioral, Contectual ID and Biometrics	 2.6 Unified Endpoint Management (UEM) and Mobile Device Management (MDM) 		4.6 Data Loss Prevention (DLP)		6.6 API Standardization	7.6 Automated Dynamic Policies
1.7Least Privileged Access ● ●	2.7 Endpoint and Extended Detection and Response • • (EDR and XDR)		4.7 Data Access Control o		6.7 Security Operations Center (SOC) and Incident Response (IR)	
1.8 Continuous Authentication		Together Cisc	co and Splunk ar	dress		• Cisco
1.9 Integrated ICAM Platform		Together, Cisco and Splunk address• Cisco39 Capabilities and cover 115 Zero Trust Activities• Splunk• Cisco/Splunk				

Cisco Solution	Zero Trust Capability
Cisco Identity Services Engine	1.2, 1.4, 1.7, 1.8, 2.1–2.4, 5.2–5.4, 6.1
Cisco Secure Network Analytics	1.6, 3.5, 4.5, 5.1, 7.1-7.4
Cisco Catalyst Center	1.6, 5.1-5.3, 6.4, 7.3, 7.4, 7.6
Cisco Secure Client	2.2-2.4, 4.5, 5.1, 5.4, 7.1, 7.4
Cisco Secure Firewall	2.2, 2.4, 4.5, 5.3, 5.4, 6.1, 6.3
Cisco Secure Workload	3.1, 3.3, 5.1, 5.4, 6.1, 7.3
Cisco Duo	1.2, 1.3, 1.5, 1.6, 7.2
Cisco Cybervision	2.2, 5.1, 7.1, 7.4
Panoptica	3.2-3.4, 6.6
Kenna Security	3.3, 7.3, 7.5
Cisco Umbrella SIG/Investigate	4.4, 4.6, 7.5
Cisco Secure Endpoint	2.7
Cisco Email	4.6
Cisco Secure Analytics and Logging	7.1

Cisco Enterprise Networking	Facilitates ZT Capabilities
Cisco SD-Access	1.2-1.4,1.6-1.8, 2.1-2.4, 3.3, 3.5, 4.5, 5.1, 5.2, 5.4, 6.1-6.3, 7.3, 7.4
Catalyst SD-WAN	1.2-1.4,1.6-1.8, 2.1-2.4, 3.3, 3.5, 4.4-4.6, 5.1, 5.2, 5.4, 6.1-6.3, 7.3
Hybrid Cloud (DC-Cloud)	1.2-1.4,1.6-1.8, 2.1-2.4, 3.3, 3.5, 4.5, 5.1-5.4, 6.1-6.3

Splunk Solution	Zero Trust Capabilities
Splunk Enterprise	1.1-1.3,1.7, 2.3, 2.6, 4.4, 7.1
Splunk Enterprise Security	1.3-1.5, 1.8, 2.1-2.7, 3.2-3.5, 4.4, 4.6, 4.7, 5.2, 5.4, 6.1, 6.5, 6.7, 7.1-7.5
Splunk SOAR	1.3, 1.5, 1.6, 1.8, 2.2-2.7, 3.3-3.5, 4.4, 4.6, 4.7, 5.2, 5.4, 6.1, 6.2, 6.5-6.7, 7.2, 7.5
Splunk ITSI	2.1, 2.3-2.6, 3.1-3.4, 6.5, 7.1-7.4
Splunk UBA	1.3-1.6, 1.8, 2.3, 4.4, 7.2-7.4

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