

Cisco Quantum-Safe Communications Roadmap



NIST Post-Quantum Cryptography (PQC) algorithms implemented across these platforms/protocols

Portfolio	Protocols planned by December 2026	Protocols planned by June 2027
Enterprise Routing (IOS XE)	IKEv2 IPsec, DMVPN, FlexVPN, SD-WAN IPsec, MACsec, SSH, TLS	TLS, DTLS - more use-cases, Authentication capabilities
Enterprise Switching (IOS XE)	IPsec, MACsec, SSH, TLS	TLS more use-cases
Wireless (IOS XE)	IPsec, SSH, EAP-TLS, HTTPs, MACsec	RADSec, TACAS, LDAP, CAPWAP, VxLAN, Over-the-Air (OTA) for client to AP connection
IoT (IOS XE)	DMVPN, FLEXVPN, IKEv2 IPsec, MACsec, SSH, TLS	
Data Center Networking (NX-OS)	MACsec, SSH	TLS
Data Center Networking Nexus Dashboard	SSH (Rescue-user access)	SSH (Device access), TLS
Data Center Networking (ACI)	SSH	TLS
Service Provider (IOS-XR)	MACsec, SSH, TLS	
Firewalls	TLS, IPsec, SSH	RA-IPsec, DTLS
Secure Client		IPsec
Catalyst Center		TLS, SSH and SFTP (Hybrid)
Webex	TLS and MLS for Webex App and Devices supporting end-to-end encrypted meetings	
Meraki Dashboard		TLS implemented in Secure OS, NGINX, and Envoy Gateway; hybrid configuration for secure management communications
Splunk	Hybrid PQC capabilities for all DoD IL5 authorized Splunk cloud offerings	
ThousandEyes		TLS for agent communications and APIs/application access
Identity Services Engine		RADIUS, EAP, TACACS, HTTPS (critical services), LDAPS, IPsec, SSH
Duo		TLS with fallback options to support systems that are not yet updated in the customer environments.

Cisco's Quantum-Safe Product Announcements (Cisco Live US 2026)



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Portfolio	Planned Products / Platforms	SW Release	Quantum-Safe Communications	Quantum-Safe Products
Enterprise Routing (IOS XE)				
	New Product Launches: Cisco Secure Router 8131H, 8151H-C, 8211, 8221, 8221L, 8225, 8650, Cisco 8255 Secure Router Node (Unified Edge)	–	Core	Core
Enterprise Switching (IOS XE)				
	C9550 Fixed Core Switches, C9350 Fixed Access Switches	–	Core	Core
Enterprise Wireless (IOS XE)				
	Future Shipments of: CW9800H1, CW9800H1-MCG, CW9800H2, CW9800M, CW9800L, CW9800L-MCG	–	Core	Core
Data Center Networking (NX-OS)				
	N9300 Fixed Switch (P200 based)	–	Core	Core
Service Provider (IOS XR) – Software Release Only				
	<ul style="list-style-type: none"> Cisco 8000, NCS5700 (excluding NCS57C3), NCS540 series (excluding N540-ACC-SYS, N540X-ACC-SYS, N540-24Z8Q2C-SYS) EAP-TLS for MACsec on all MACsec capable IOS-XR platforms 	<ul style="list-style-type: none"> 26.2.1 (SSH) 26.3.1 (MACsec EAP-TLS) 		–
Firewalls & VPNs				
	<ul style="list-style-type: none"> Cisco Secure Firewall Threat Defense (FTD): 250R (10.5), 260G (10.5), 3100 (10.5.1), 4200 (10.5.1), 2300 (11.0) 	<ul style="list-style-type: none"> FTD 10.5 / ASA 9.24.50 (IPsec IKEv2, SSH, sftunnel) FTD 11.0 / ASA 9.25 (QUIC, RAVPN, TLS Client) 	Core	Core
Meraki / Catalyst Center				
	<ul style="list-style-type: none"> Meraki Dashboard (MX 27.1, MS 27.1, MR 33.1) Catalyst Center 3.4.1 	<ul style="list-style-type: none"> IOS-XE 26.2.1 Catalyst Center 3.4.1 	Core	–
Splunk				
	Splunk Cloud Platform – FedRAMP High & DoD IL5		Core	–
ThousandEyes				
	Enterprise, Endpoint, Device Agents API / OpenTelemetry Commercial / Federal Platform	–	Core	–
Duo				
	Duo Commercial & Duo Federal		Core	–