CISCO Connect

Modernize the Network with Cisco Secure Campus



GK

CCIE Enterprise Infrastructure
Solutions Engineer

Agenda

01 Why Modernize Now?

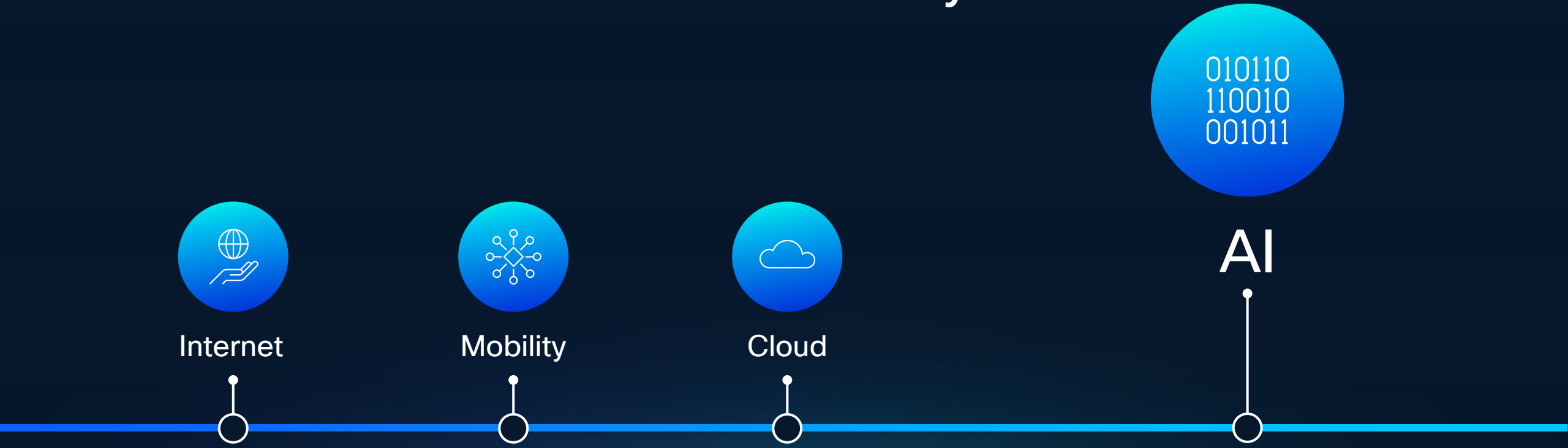
02 Security in the Network

03 The Next Gen Campus Portfolio

04 Simplified operations, powered by AgenticOps

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AI is the biggest disruption we have seen yet



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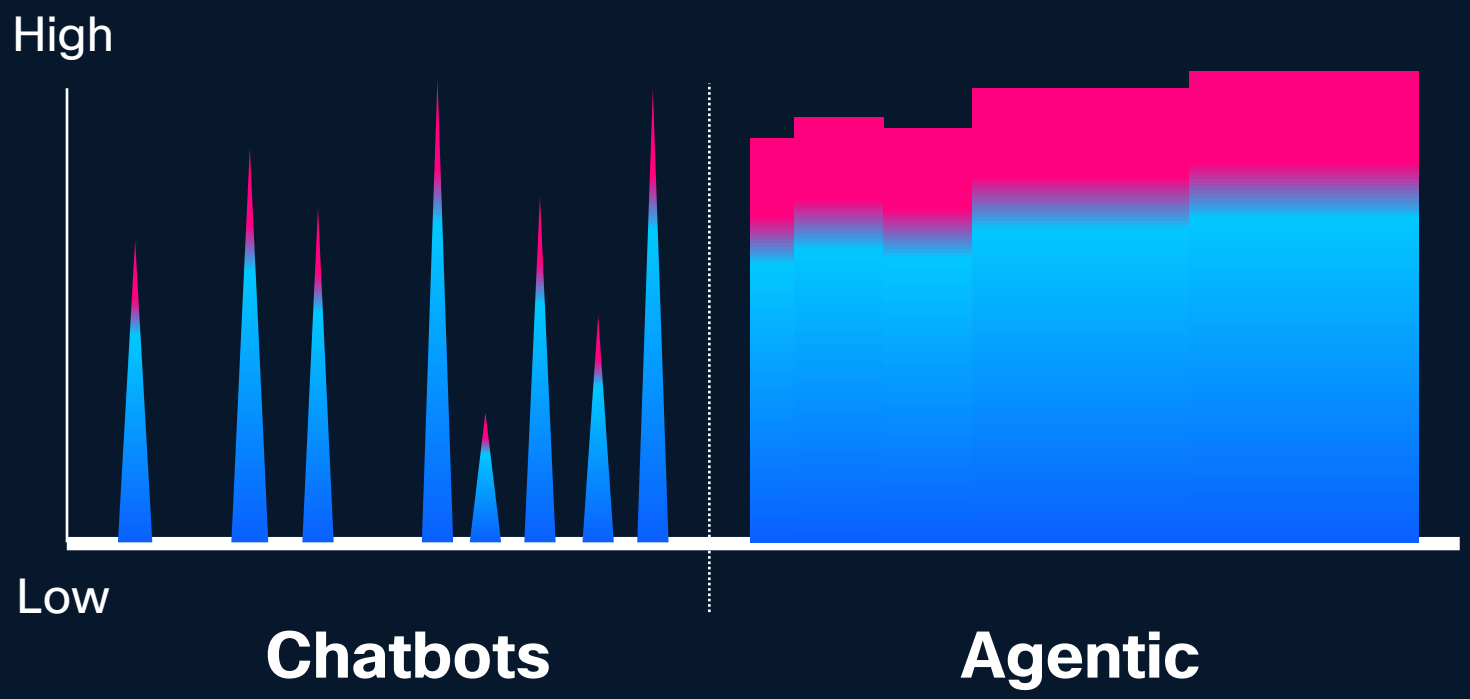
Creating new network demands

Changing traffic patterns
Increased sustained east-west traffic

Agentic execution
Beyond DC, across environments

Need for AgenticOps
Keeping Agents running, moving beyond human-paced operations

AI-driven threats
Rapidly evolving security needs



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Agentic AI in the Campus

Agentic AI is moving into the campus. Why?

- **Cost Reduction**: Local hardware solutions reduce persistent agent deployment costs by up to 80%
- **Token Multipliers**: Agentic workloads consume 4x to 15x more tokens than basic chat applications because multi-step autonomous reasoning triggers continuous loops.
- **Growth in Reasoning**: Global reasoning workloads have surged 320 times year-over-year, driving projections for token consumption to grow 3,400% by 2030.

As Agentic AI moves closer to the data, networks need to adapt



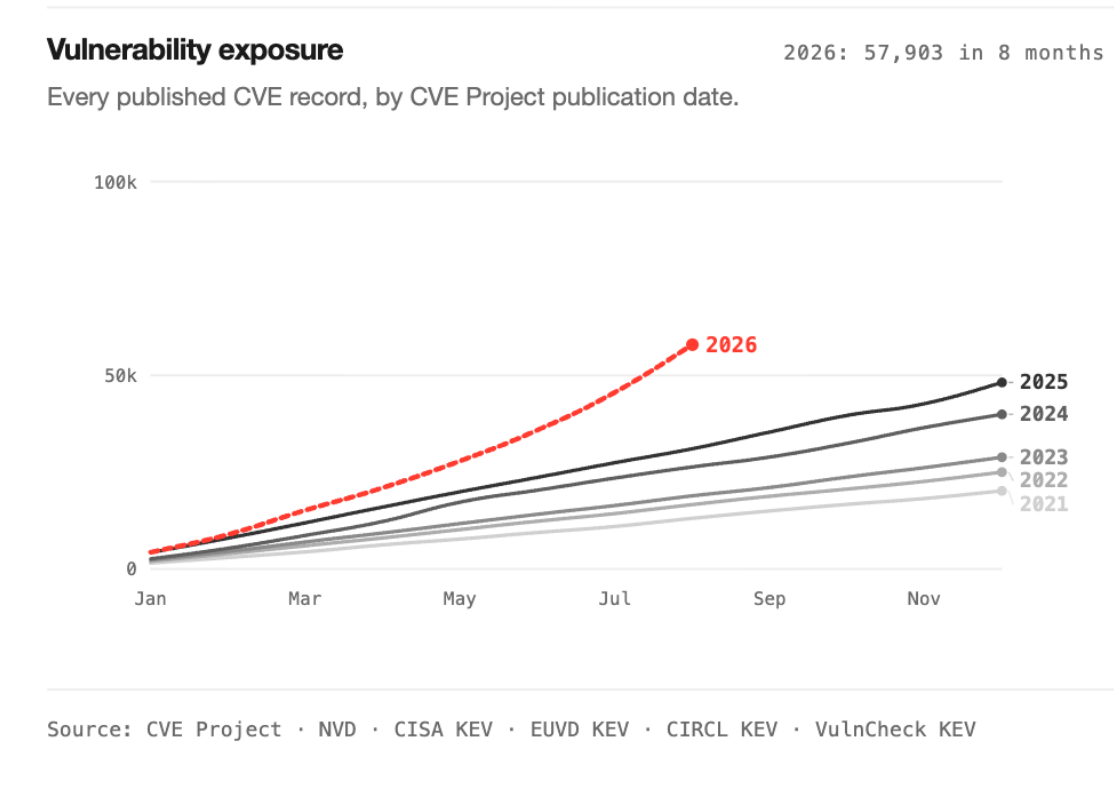


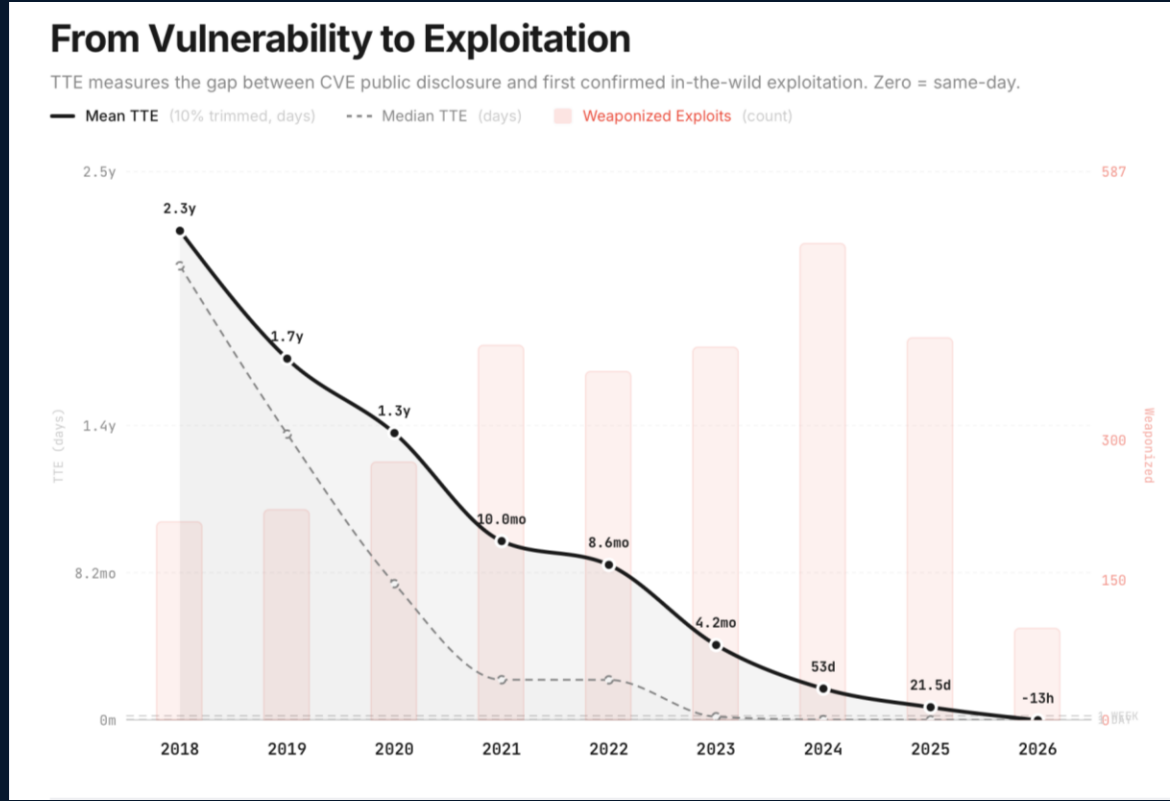


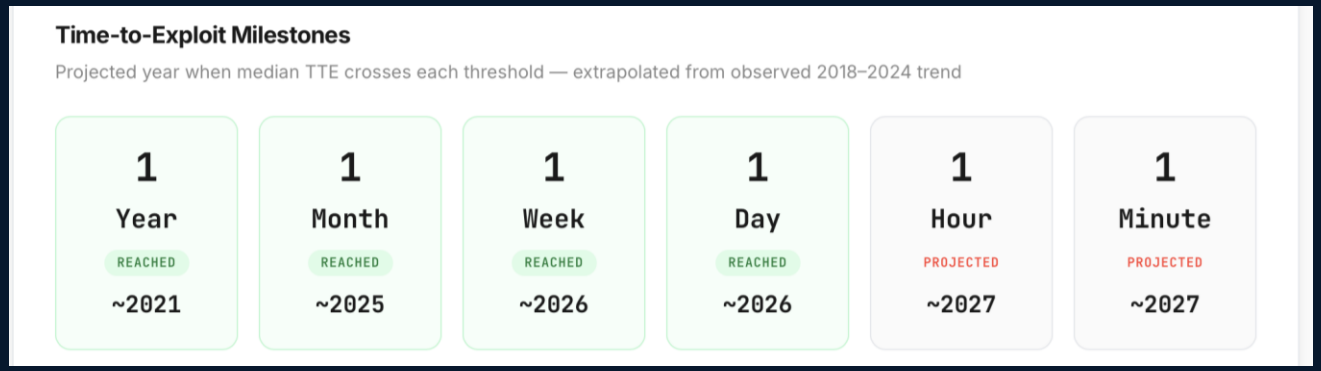
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Threats are increasing in volume and speed

https://ZeroDayClock.com

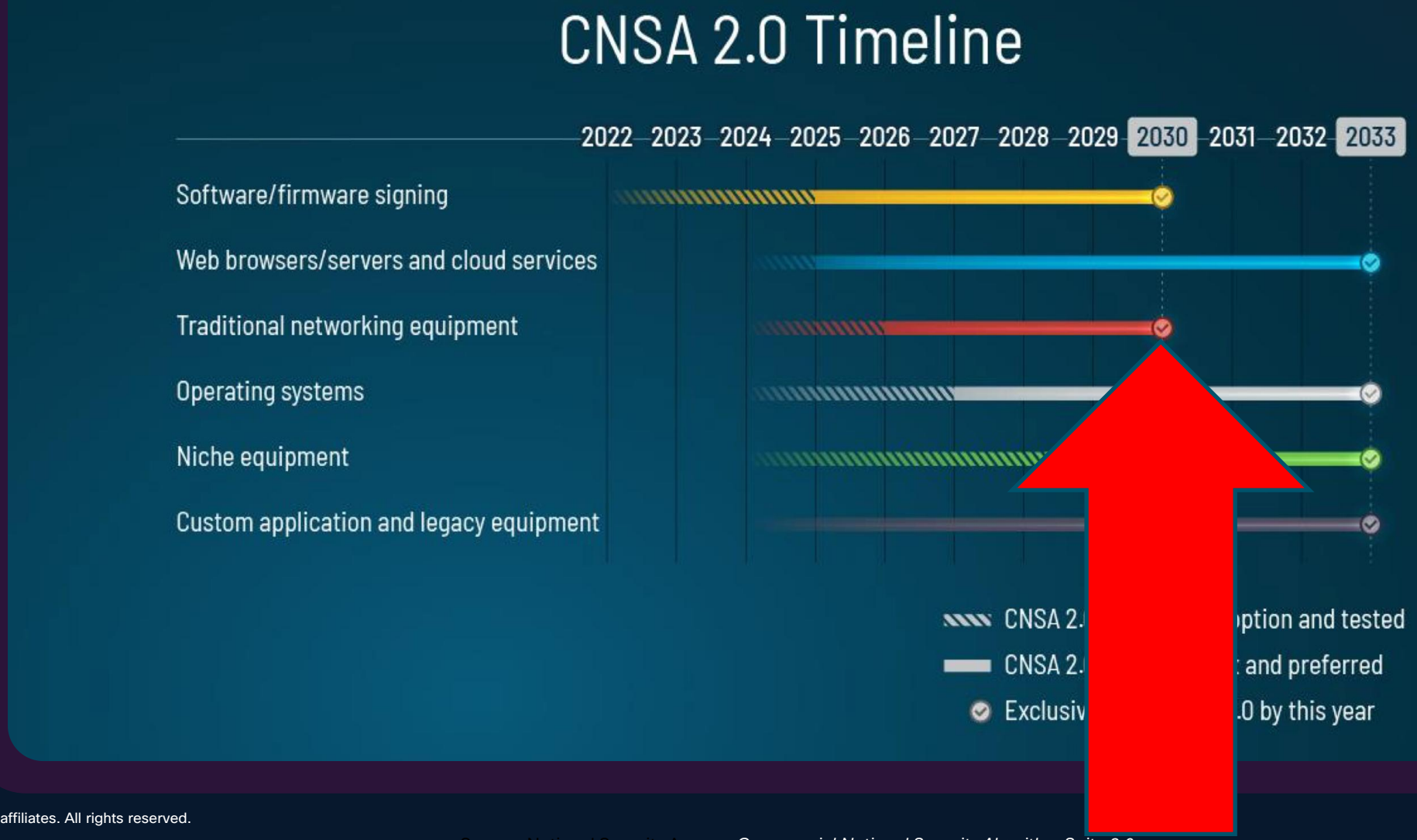






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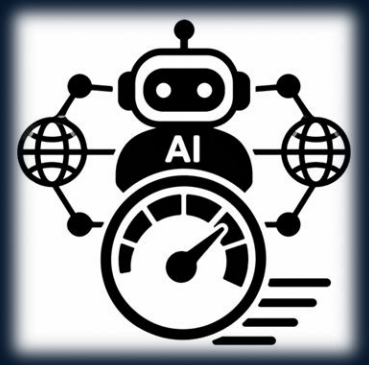
Post Quantum is Approaching



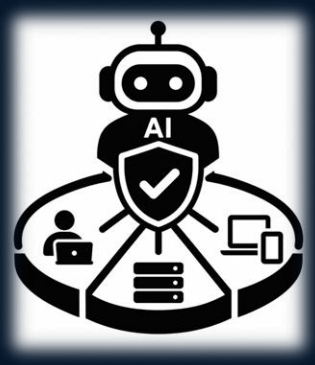
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Source: National Security Agency, *Commercial National Security Algorithm Suite 2.0*

The Modern Campus Needs



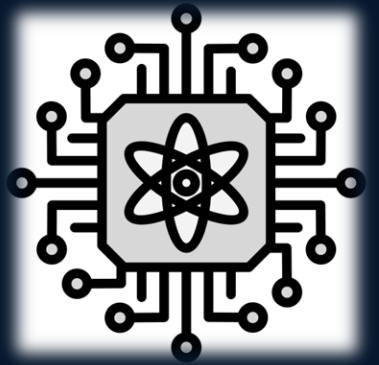
Performance to Meet Agent Demands



Agent Identity and Distributed Security



Defend Against AI-Accelerated Exploits



PQC-Ready

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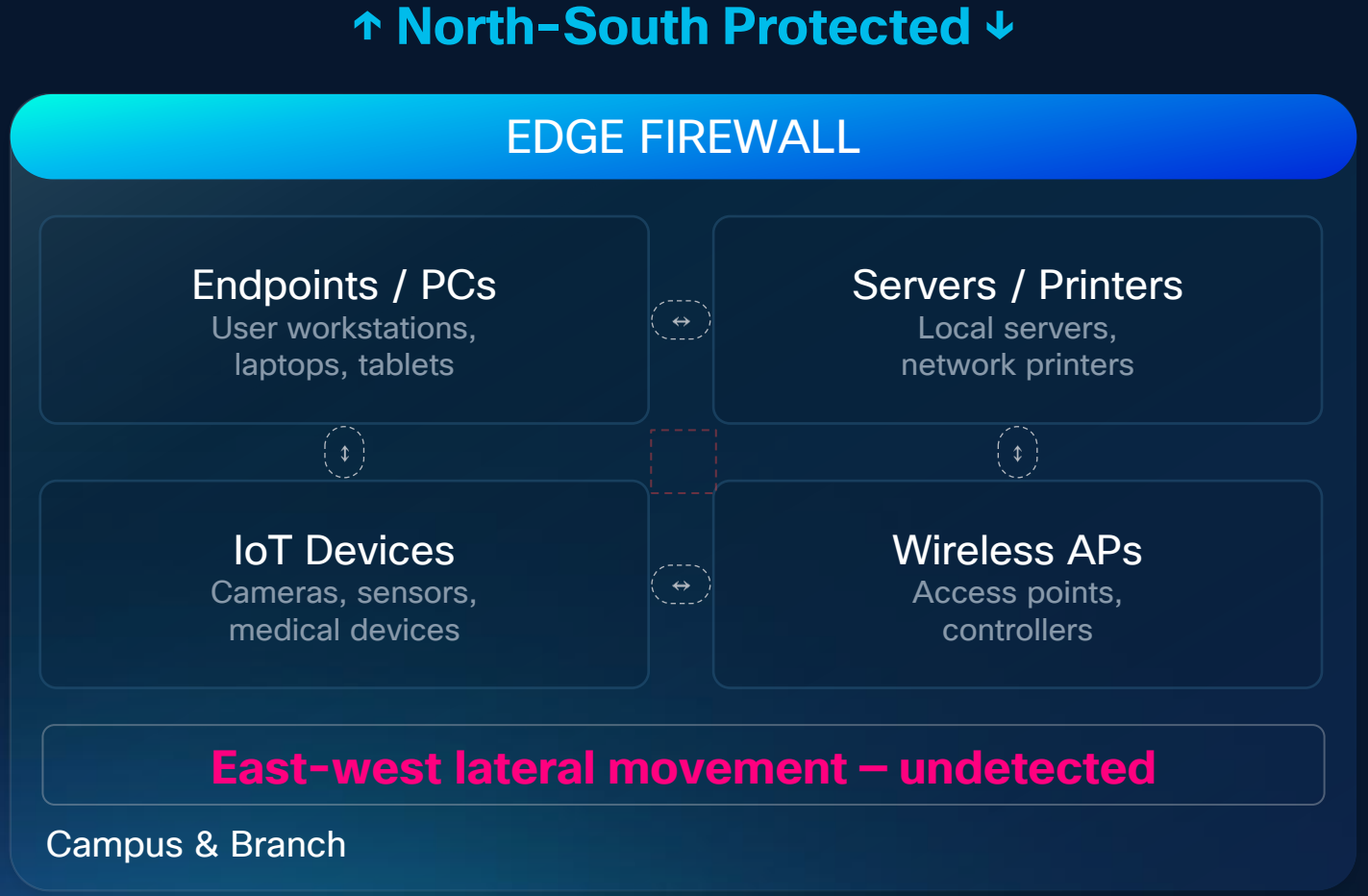
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Security fused into the network



How security is deployed today

Edge firewall appliances only inspect traffic crossing the perimeter — not traffic moving laterally within your network



The problem: Edge firewalls are blind to internal traffic

Ransomware spreads endpoint-to-endpoint on campus — no micro-segmentation, no inline encryption, no identity-based access control

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Why the network is the answer

Only the network has the position, visibility, and scale to deliver security everywhere

Sees all

Universal visibility

Every packet traverses the network — no agent or appliance matches this reach.

Line rate

Zero performance penalty

Security in silicon at wire speed. No hairpinning, no overhead.

One policy

Enforced consistently everywhere

One policy model, coordinated enforcement at every point.

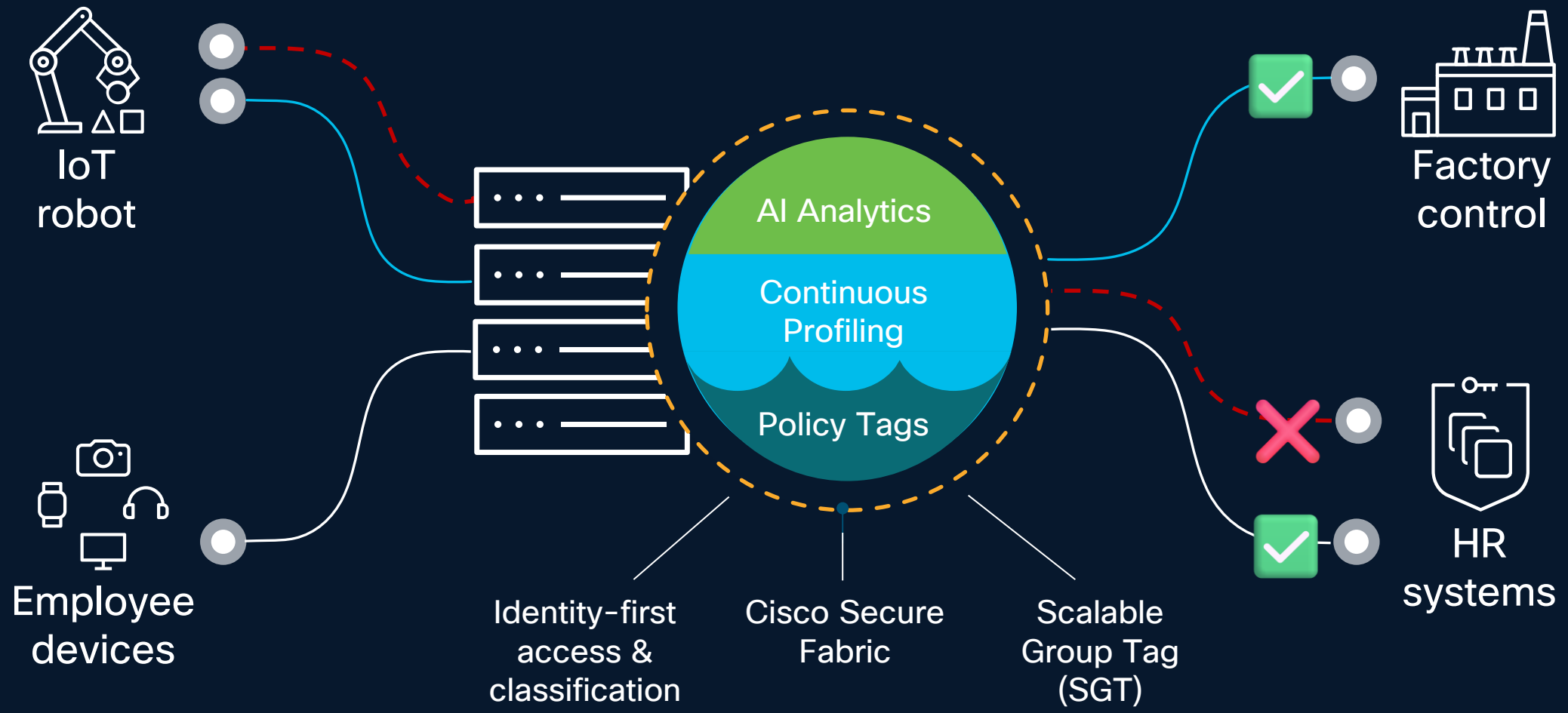
The network is the only universal control point.
Fuse security into it, and every device is protected by default.

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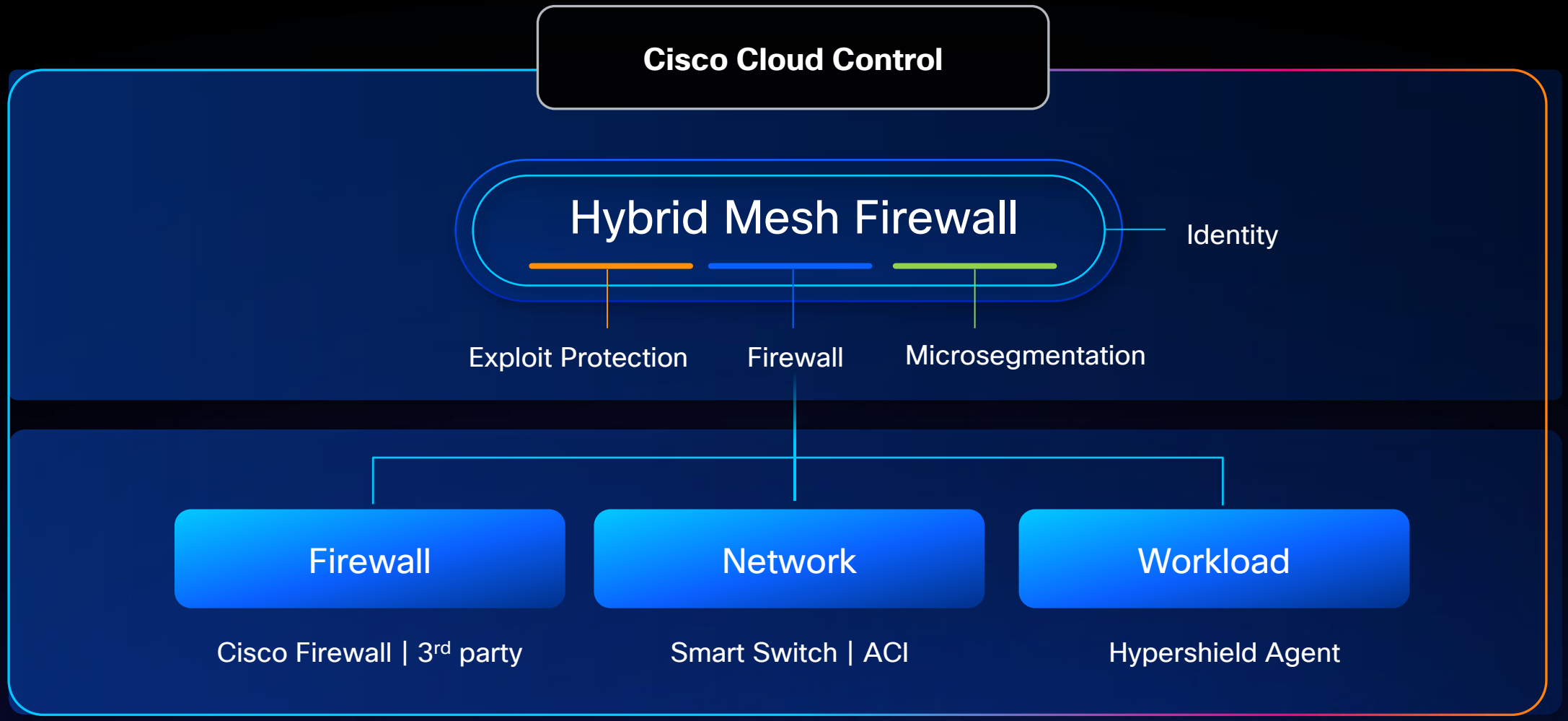
Scalable network segmentation

Continuously verified identity and group policy applied across the network



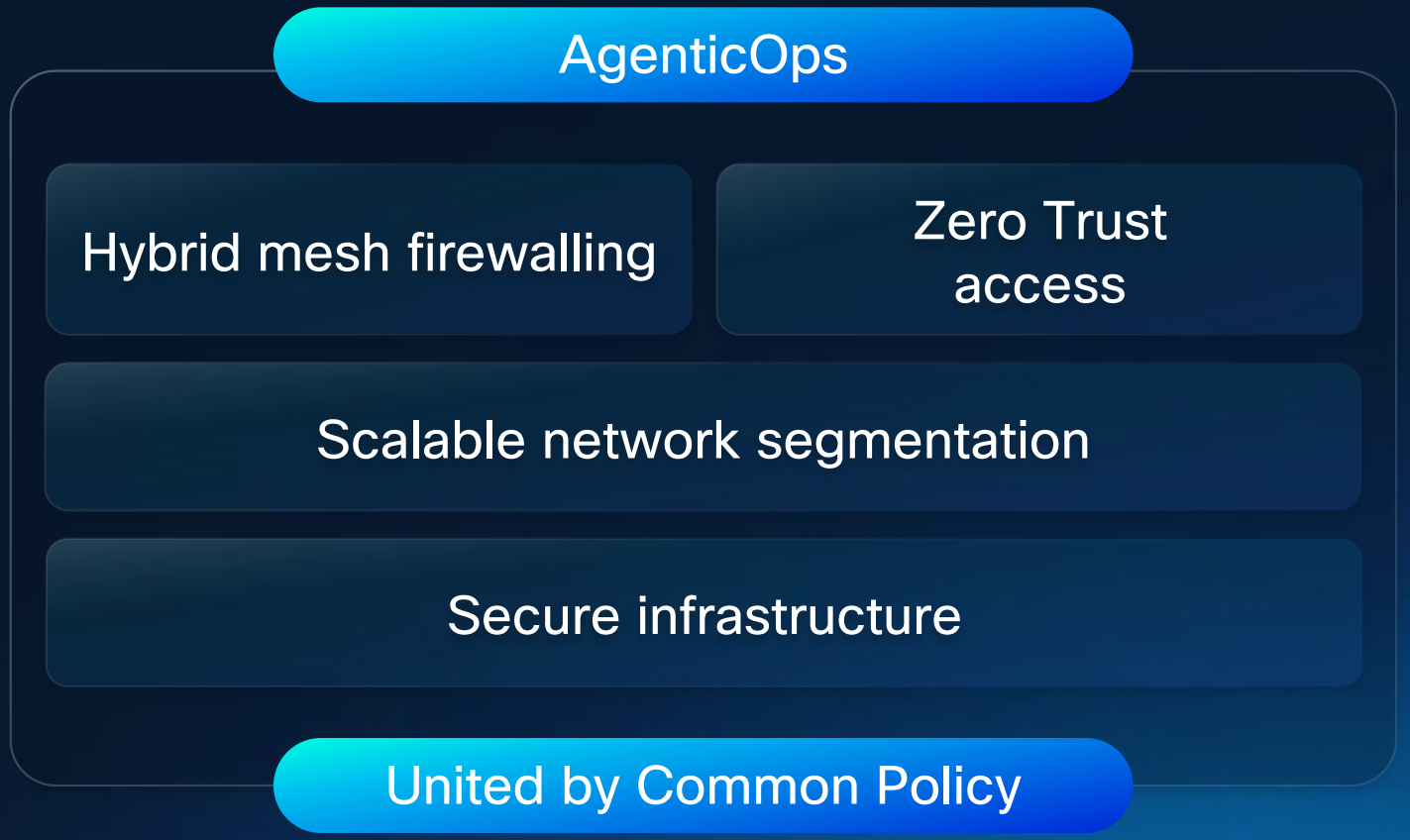
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Protecting your infrastructure and apps, including AI



Reference design for fusing security into the network

- Identity-first
- Continuously verified
- Enterprise-wide policies
- Comprehensive threat intel
- Distributed enforcement



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Secure Infrastructure

Patching takes time

Software Maintenance Upgrade (SMU)

5-6 weeks turnaround

May require reload

Limited coverage

Needs an available fix for CVE

Release-specific

VS

Compensating Controls

Turnaround in days for high priority

Never requires reload

Can cover ~25% non-SMUable

Blocks CVE even when fix unavailable

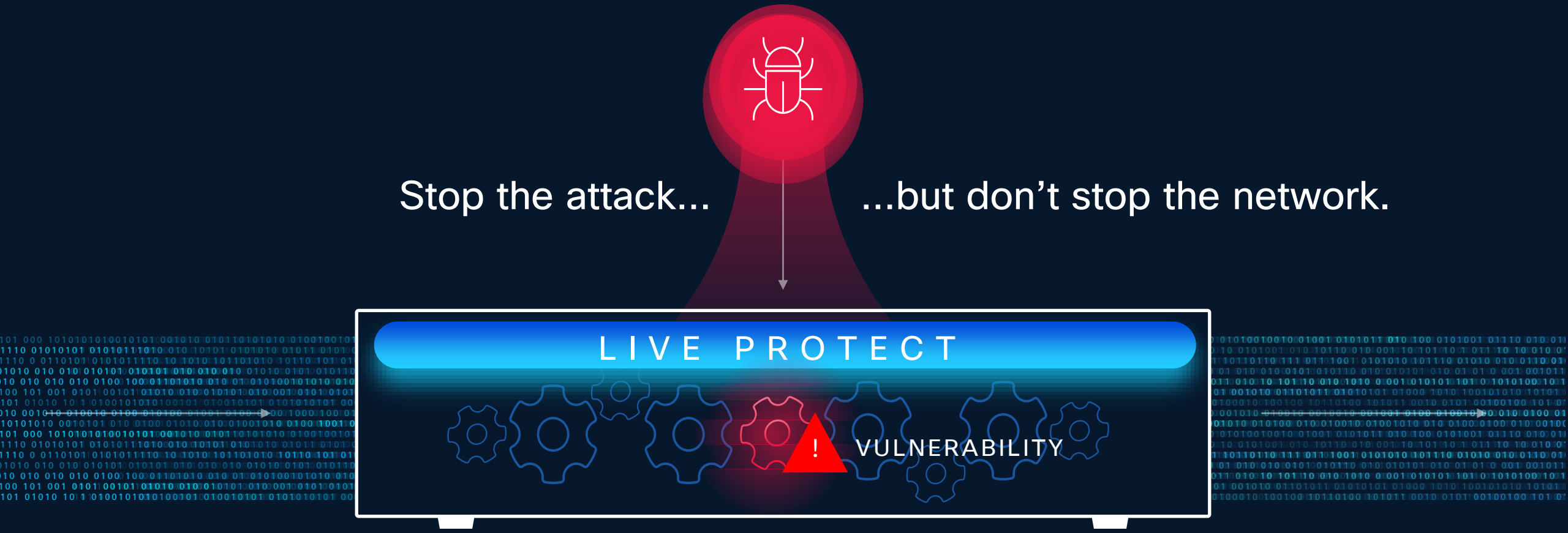
Works across releases

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Secure infrastructure - Cisco Live Protect

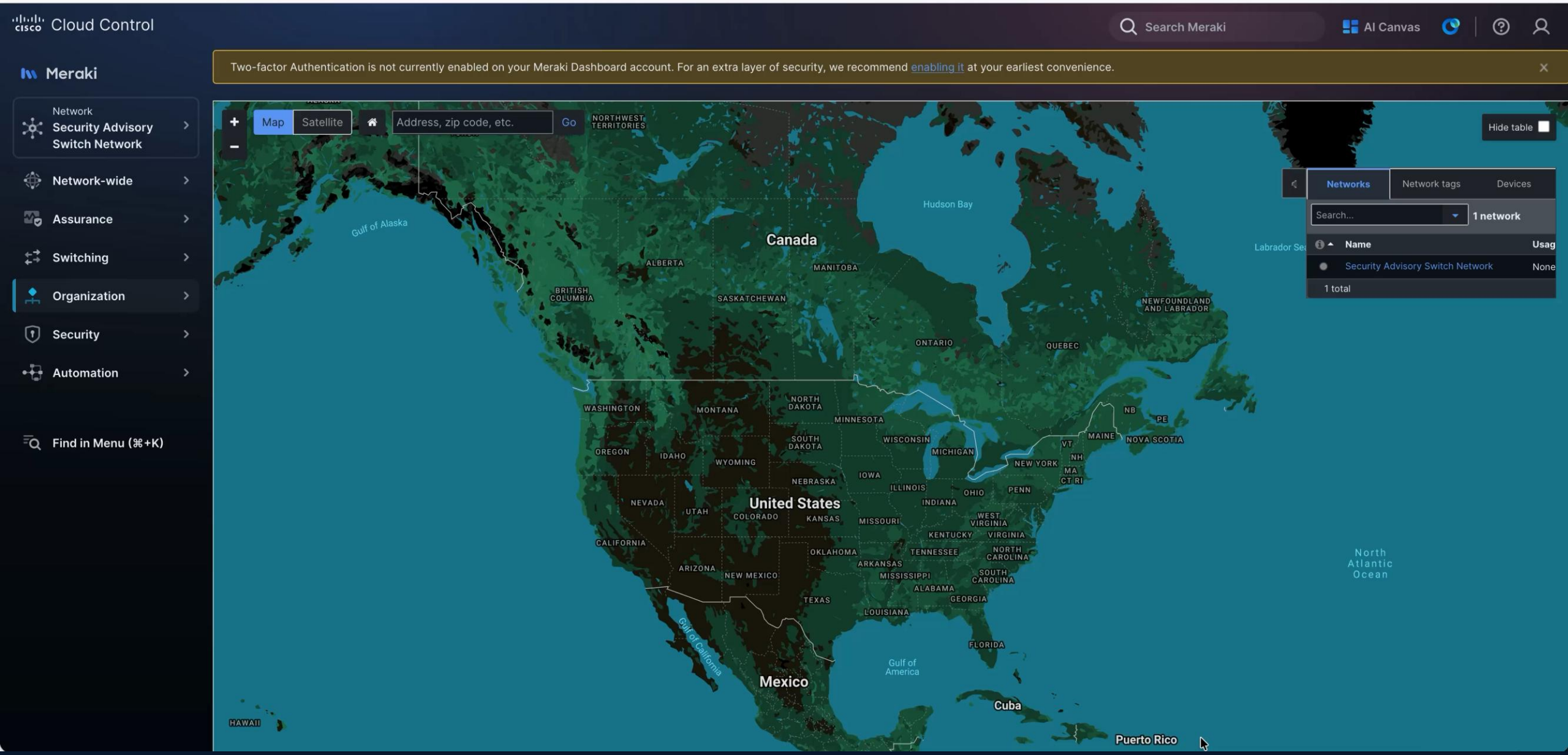
Vulnerability shielding for Cisco networking devices



In Early Field Trials Now
Switches, Wireless, Routers

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Day-0 threat is shielded, but patching is still needed

The New Scheduled Disclosure Model

NEW

Twice-monthly, fixed days

Security-hardened software publishes on the 1st and 3rd Wednesdays of each month at 1600 GMT.

Seven-day advance notice

The list of covered technologies and platforms is published 7 days ahead. No release planned = no notice.

Two extended maintenance releases per year

IOS XE, IOS XR, NX-OS, Firepower/ASA and SD-WAN; Cisco will not release two core operating system updates on the same day.

Why the change

Frontier AI models and agentic analysis are surfacing bugs across large codebases faster than ad-hoc disclosure was built to absorb – while the gap between disclosure and exploitation has effectively closed.

A fixed cadence with advance notice turns patching into a planned activity that aligns to change control.

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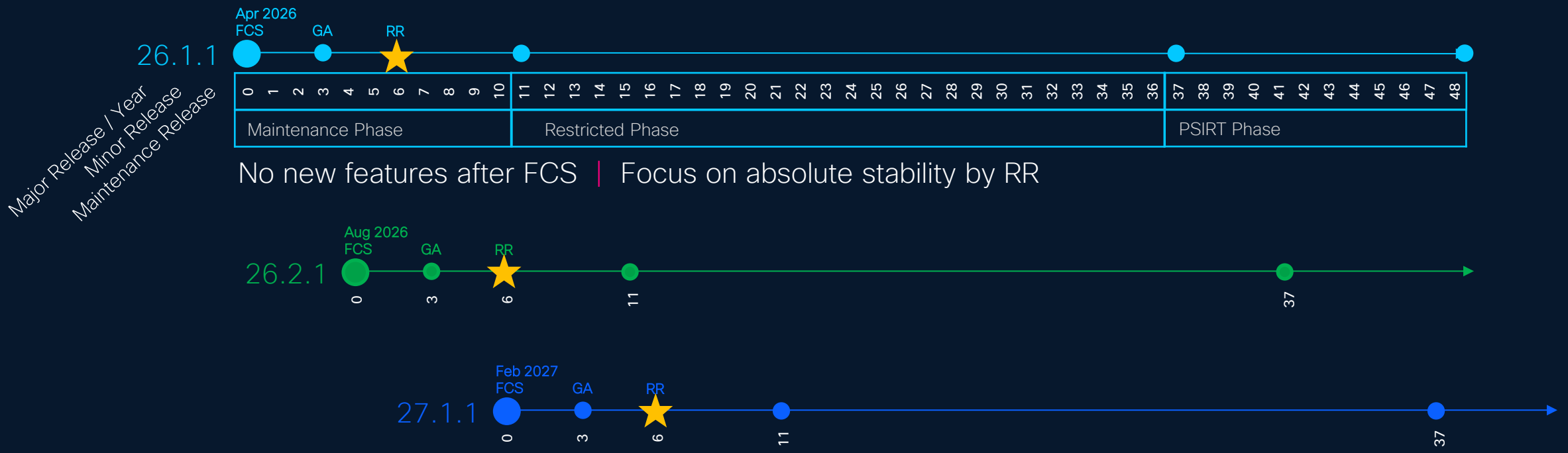
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New IOS-XE Release Strategy

Longer time between OS upgrades with fewer operational distractions

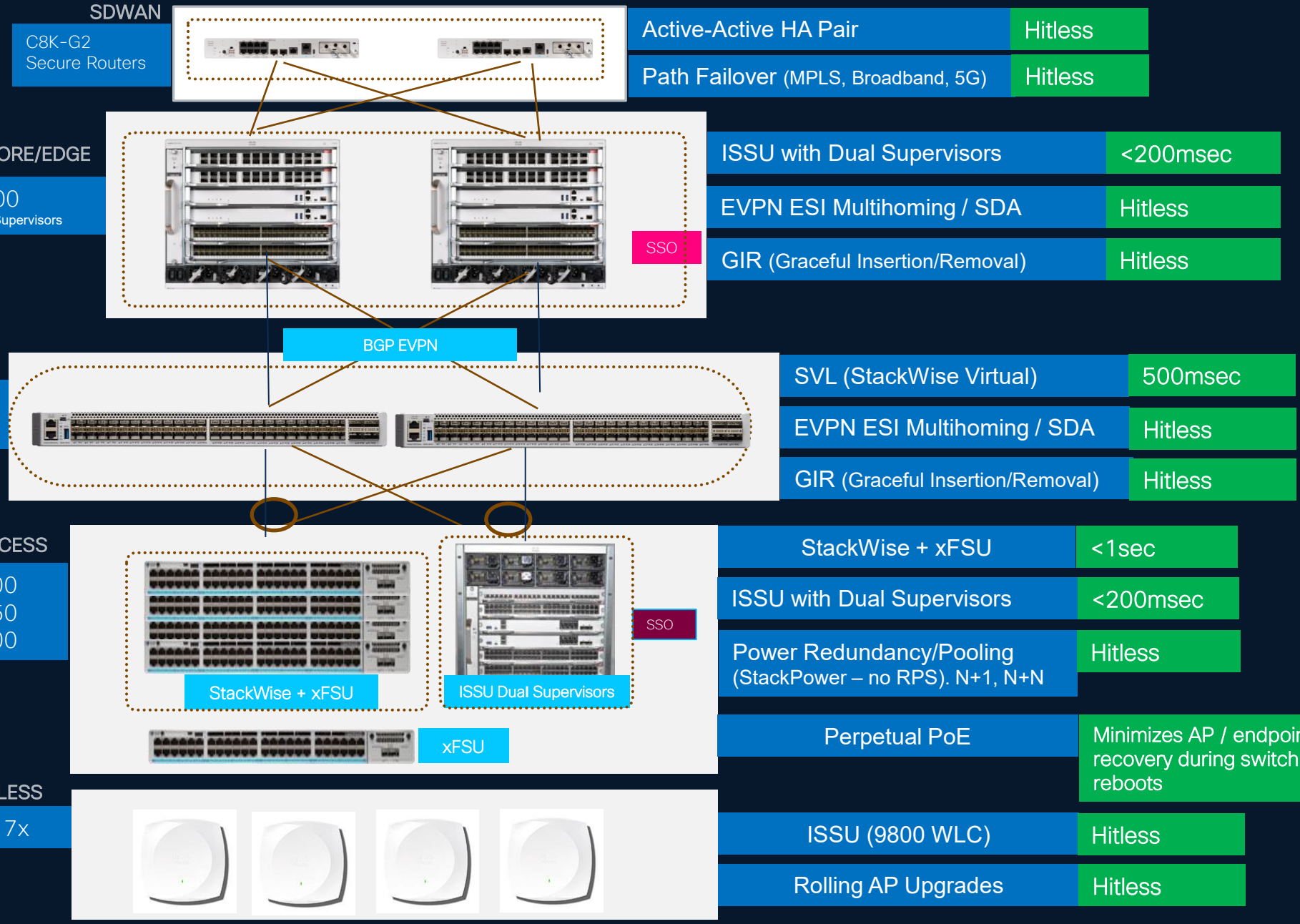
2
Extended Maintenance Release / Year (48mo Support)

6m
Gap between Recommend Releases



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High-Availability Campus



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PQC Ready

Cisco Post Quantum Cryptography

26.2.1 / 26.2.2

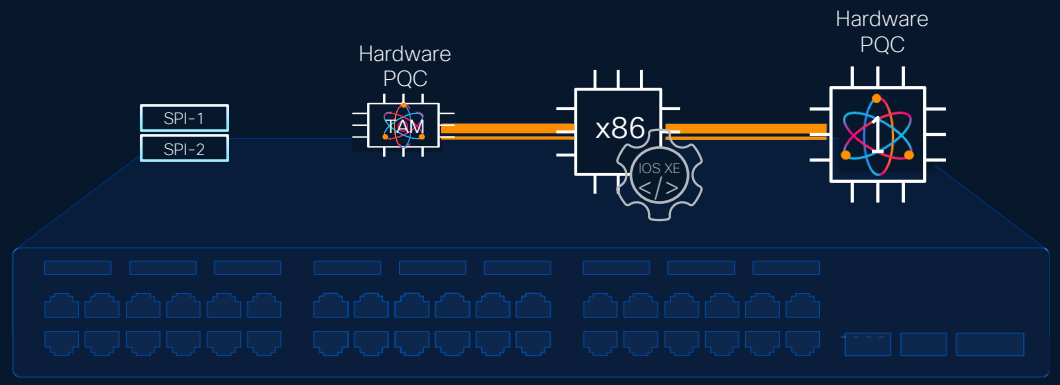
Cisco Modern Campus is Quantum-Resistant

Securing the Device

Step 1: Image Signing & Secure Boot

Cisco Trust Anchor Module on FPGA chipset:

1. Verifies PQC-signed Rommon
2. Verifies unmodified IOS XE
3. Protects the datapath between TAM and CPU



Securing the Data

Step 2: Quantum-Resistant Key Exchange & Data Encryption

Cisco Trust Anchor Module on FPGA chipset:

1. Quantum-resistant key exchange

HW data encryption on Silicon1 chipset

2. Quantum-resistant data encryption

C9350 | C9550 | C9610 | WiFi 7 | G2 Routers

1. Rommon verification using LMS
2. OS image signing and verification using ML-DSA
3. Bus encryption between CPU and TAM using ML-KEM
4. SSH key exchange with ML-KEM
5. IKEv2 with ML-KEM
6. EAP-TLS 1.3 with ML-KEM
7. TLS 1.3 with ML-KEM

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The Modern Campus Portfolio



Introducing

Scalable devices ready for AI



Smart Switches



Secure Routers



Campus Gateway



Secure Firewall



Large Venue Wi-Fi 7

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Cisco C9350 Smart Switches

- High-performance, low latency
- Post-quantum secure
- Cisco Silicon One + co-processor for security and AI
- Intelligent energy efficiency



Smart Switches for the AI-powered campus

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C9350 Portfolio Expansion

Providing fiber-to-the-desktop, collapsed core, and more ways to power Wi-Fi-7

Available Q3CY26
1G Fiber Downlinks



Cisco C9350-48S
48x 100Mbps / 1G SFP



Cisco C9350-24S
24x 100Mbps / 1G SFP

Q4CY26
mGig Fiber Downlinks



Cisco C9350-24Y
24x 25G/10G/1G SFP28



Cisco C9350-12Y
12x 25G/10G/1G SFP28

Available now
mGig Copper Downlinks



Cisco C9350-48HXN
12x 10G-mGig & 36x 5G-mGig w/ 90W UPoE+



Cisco C9350-24HX
24x 10G-mGig w/ 90W UPoE+

Q4CY26
mGig Copper Downlinks



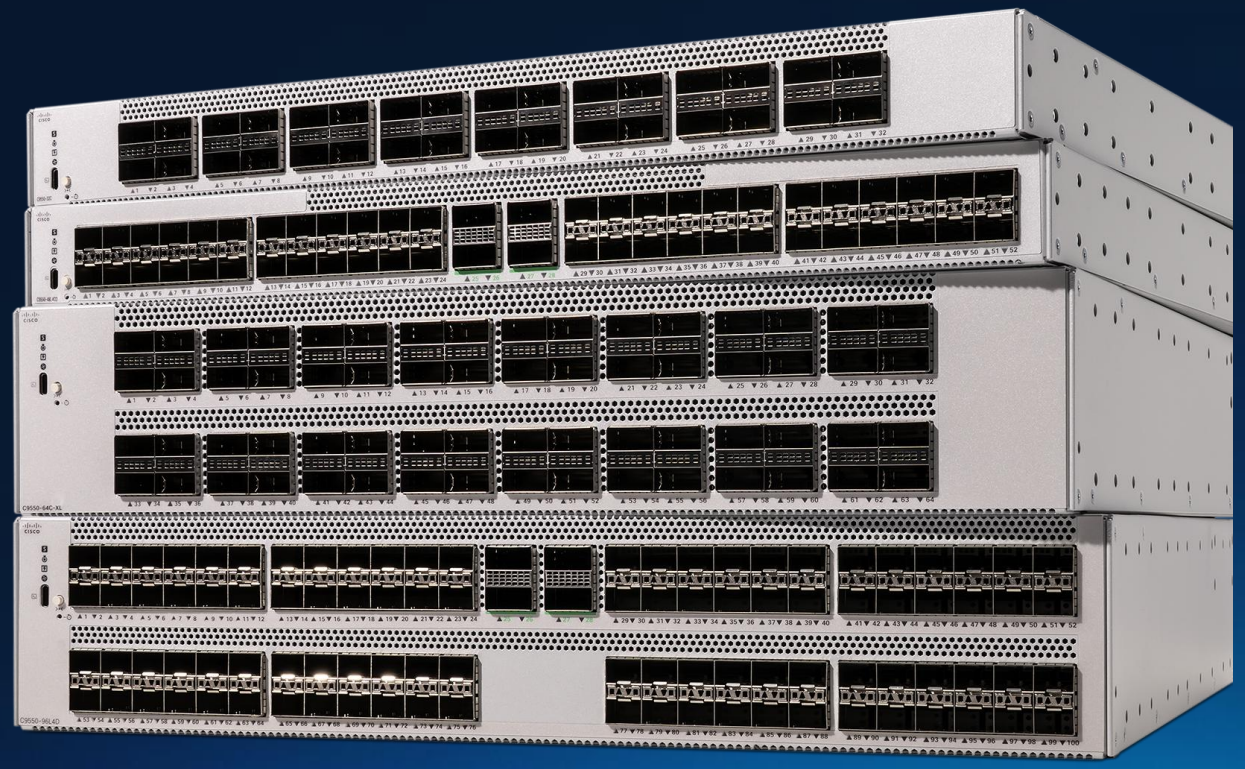
Cisco C9350-48HXG
24x 10G-mGig & 24x 1G w/ 90W UPoE+



Cisco C9350-48HM
48x 2.5G w/ 90W UPoE+

Cisco C9550 Fixed Core Smart Switches. Built for AI Scale.

- 400G Campus Core
- Up to 6.4 Tbps switching capacity
- 3.9B packets/second
- Quantum safe



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INTRODUCING

Cisco C9550 Series Smart Switches

Powerful, secure, easy to manage



Cisco Silicon One NPU2.0: industry's most powerful, programmable ASICs

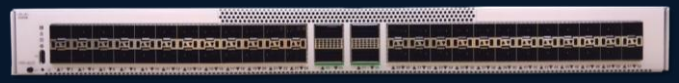
High-performance, Next-gen Multi-core x86 CPU & DRAM

High-throughput, Secure On-device Application Hosting

Cisco IOS XE w/ Cisco Smart Stacking (NGSVL)

Post-Quantum Secure Boot & Trust Anchor

Orderable



C9550-48L4CD
48x 1/10/25/50G + 4x 100G/ 2x 400G



C9550-24L4CD
24x 1/10/25/50G + 4x 100G/ 2x 400G



C9550-96L4D
96x 1/10/25/50G + 4x 400G (2RU)



Coming Soon



C9550-32C
32x 40/100G

C9550-64C-XL
64x 40/100G (2RU)
+8GB HBM with on-chip buffers

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Wi-Fi 7 for the Modern Campus

Coffee shops	Residence halls	Classrooms	High Density	Outdoor	Highest Density	Stadiums, large **venues**
				New 		
CW9171I	**CW9172I/H**	**CW9174I/E**	**CW9176I/D1**	**CW9177I/D/E**	**CW9178**	**CW9179F**
Lower density deployments, compact form factor	Moderate-density deployments, wall plate	Moderate to high-density deployments	High-performance, omni & directional antenna options, URWB	High-end outdoor, 3 variants for optimal coverage, URWB	Ultra-high performance, high-density deployments, URWB	High-density, large venues, configurable beam patterns
Available	Available	Available	Available	Available	Available	Available

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Cisco Campus Gateway



CW9800H1-MCG

Scales up to 12,000 APs and 64,000 clients

Throughput up to 100 Gbps

New



CW9800L-MCG

Scales up to 1,000 APs and 10,000 clients

Throughput up to 10 Gbps

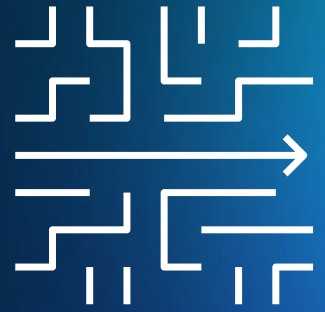
Cloud management simplicity with L3 roaming scale

Easy migration for existing WLC architectures

Supports clustering and disaster recovery failover

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Cloud Management Updates



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Cloud management across the networking portfolio



Wireless

Full WiFi6E & WiFi7 support

Campus Gateway for L3 roaming



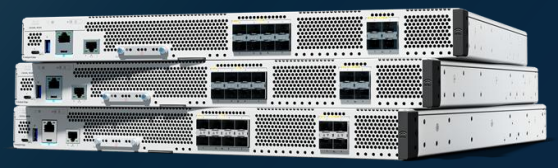
Switching

C9200, C9300, C9500 switches

New | C9350 & C9550

New | C9400 & C9600 Modular switches

New | IE3500 OT Series



Routing

New | Secure Routers

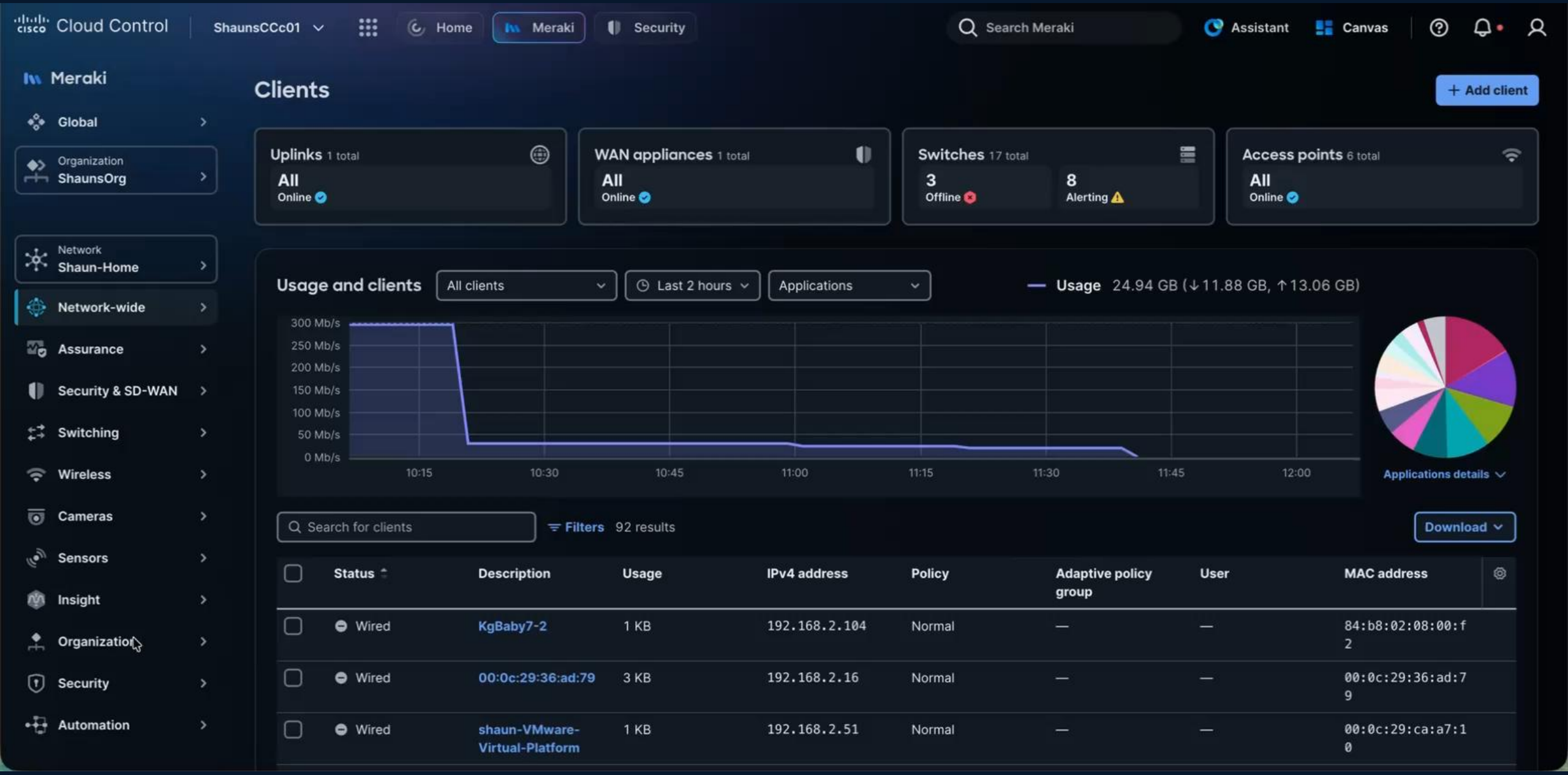
Cellular Gateways for 5G connectivity

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C9000 Switches are now cloud-managed, but what about every IOS-XE feature?

Introducing CLI Profiles

Beta Coming Soon



Introducing

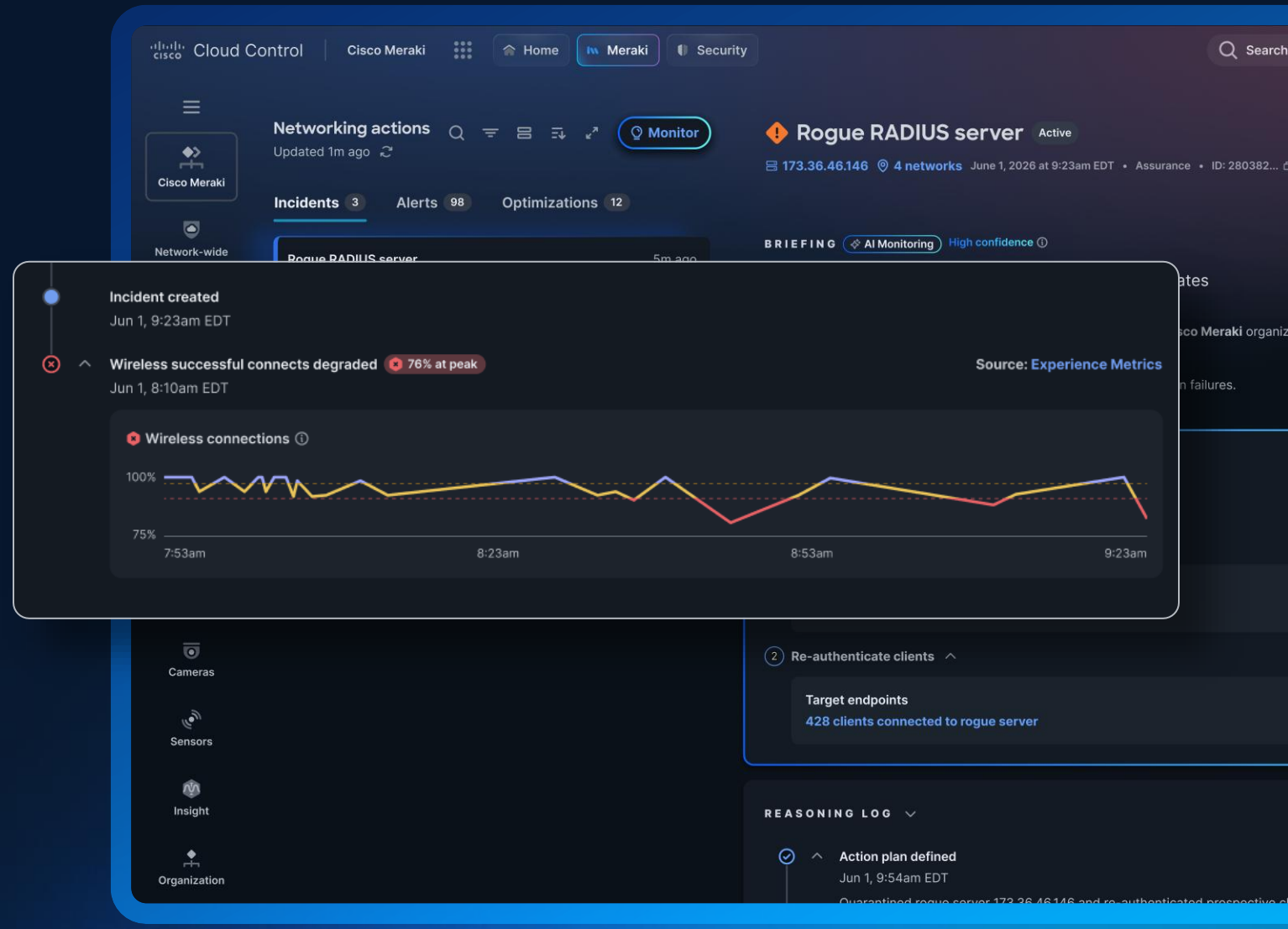
Enhanced experience metrics

Continuous real-time experience assessment

Monitors user outcomes and creates incidents

Shift from observing systems to understanding experiences

Collapses thousands of signals into a single view

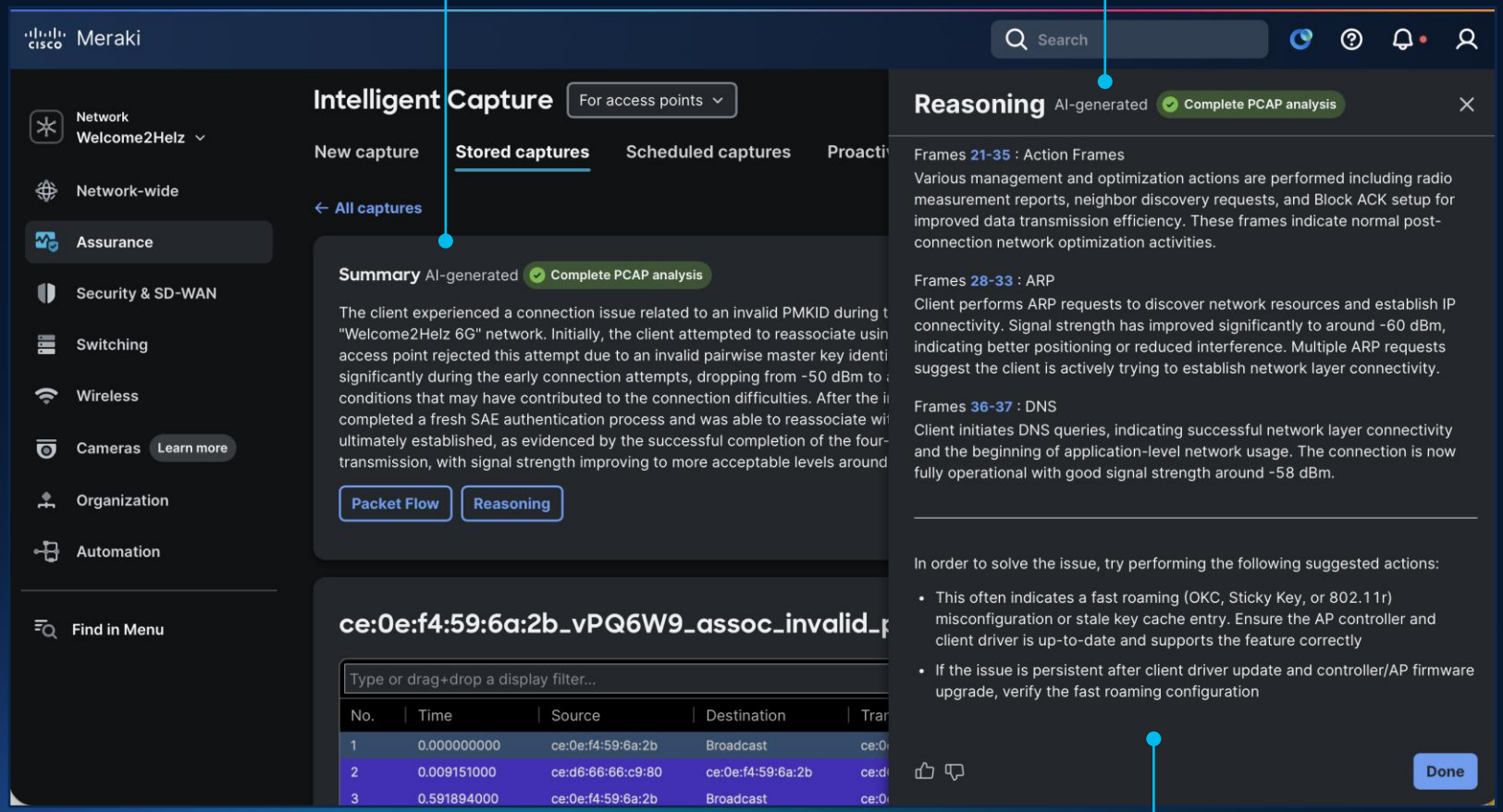


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Introducing

AI Packet Analyzer

- Automatically seizes the moments of client failure and uploads PCAP files to the AI cloud
- Quickly analyzes PCAPs with AI summary
- Isolates fault with reasoning view or visually with packet flow view
- Actionable recommendation provided to resolve issue



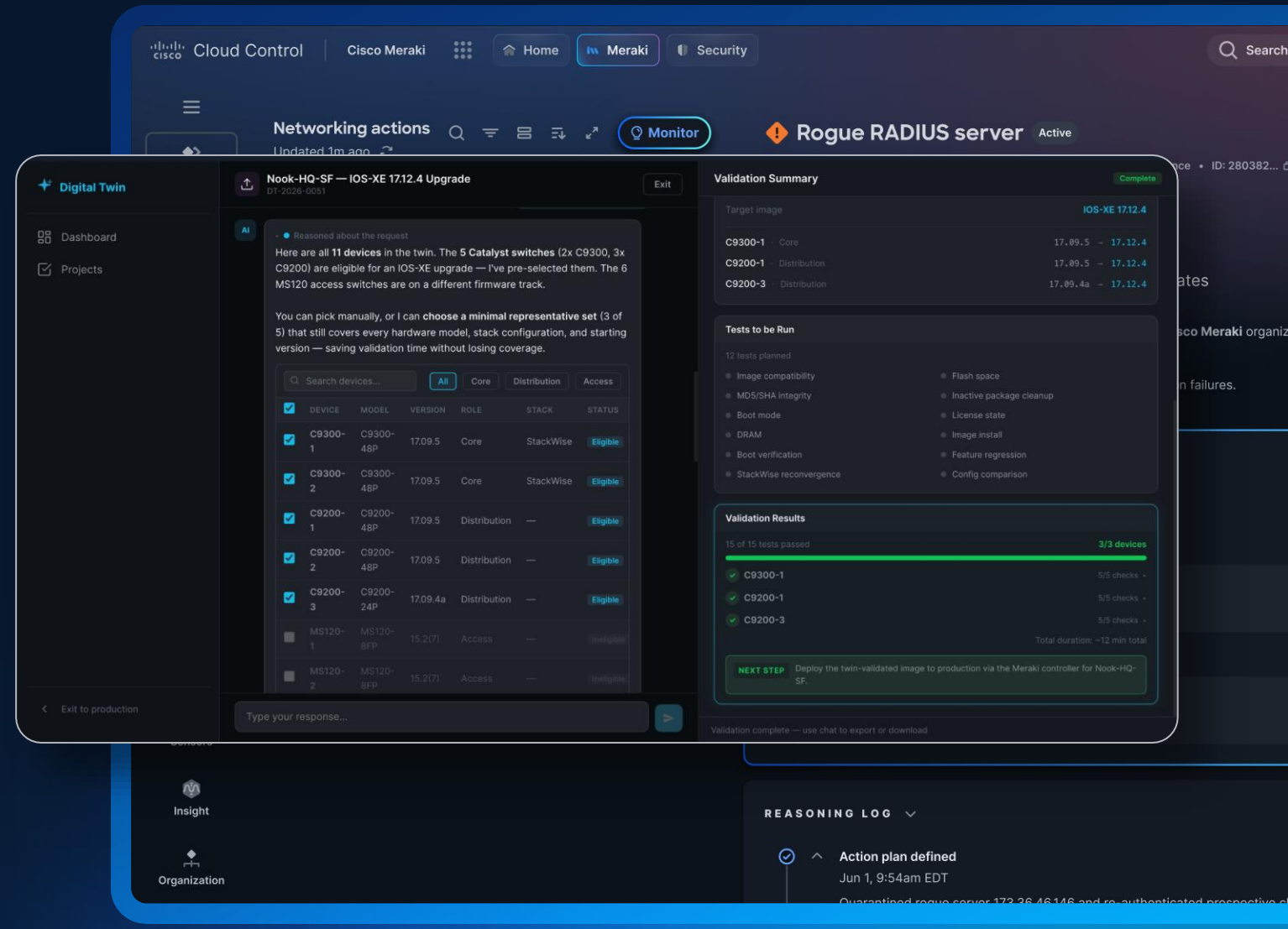
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Alpha Coming Soon

Digital twin

Validates before applying changes

Emulates devices, connectivity, and configuration in a true Digital Twin



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Modernize the Network

Scale for the AI Era

- Network performance, agility, and security must evolve to keep up
- Cisco has a full suite of campus products ready for these modern challenges

Proactive Cyber Defense

- Blocking Day-0 exploits is critical
- Structured, seamless patching to minimize disruption
- Plan for PQC today



Security Fused into the Network

- Perimeter FWs are not sufficient for lateral movement
- The network has visibility, is pervasive, and provides east-west segmentation

Operational Transformation

- Complete cloud-managed portfolio
- No feature compromise - Full IOS-XE feature set
- Intelligent assurance and proactive prediction for greater network stability

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CISCO Connect

Thank you




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