

Scaling Secure Enterprise Networking in the AI Era with AgenticOps

CISCO Live !

Samuel Pasquier
VP, Industrial IoT

D. Matthew Landry
VP, Wireless

Prab Singh
Sr. Director, ThousandEyes

Neela Jacques
VP, Switching



AI-Ready Data Centers



Future-Proofed Workplaces

← Secure Global Connectivity →



Digital Resilience



Accelerated by Cisco AI



Every major technology disruption changed the enterprise network

AI is the biggest disruption of all.



Internet



Mobility



Cloud



AI

AI is bringing challenges

Proliferation of Agents

1,000s

AI Agents per
enterprise expected

More security risks than ever

#1 risk

AI-enhanced
malicious attacks

Profound skills shortage

64%

of orgs face IT skills
shortage by 2026

Architectural requirements are **changing**



Traffic pattern
changes



Edge computing
integration



IT-OT
collaboration



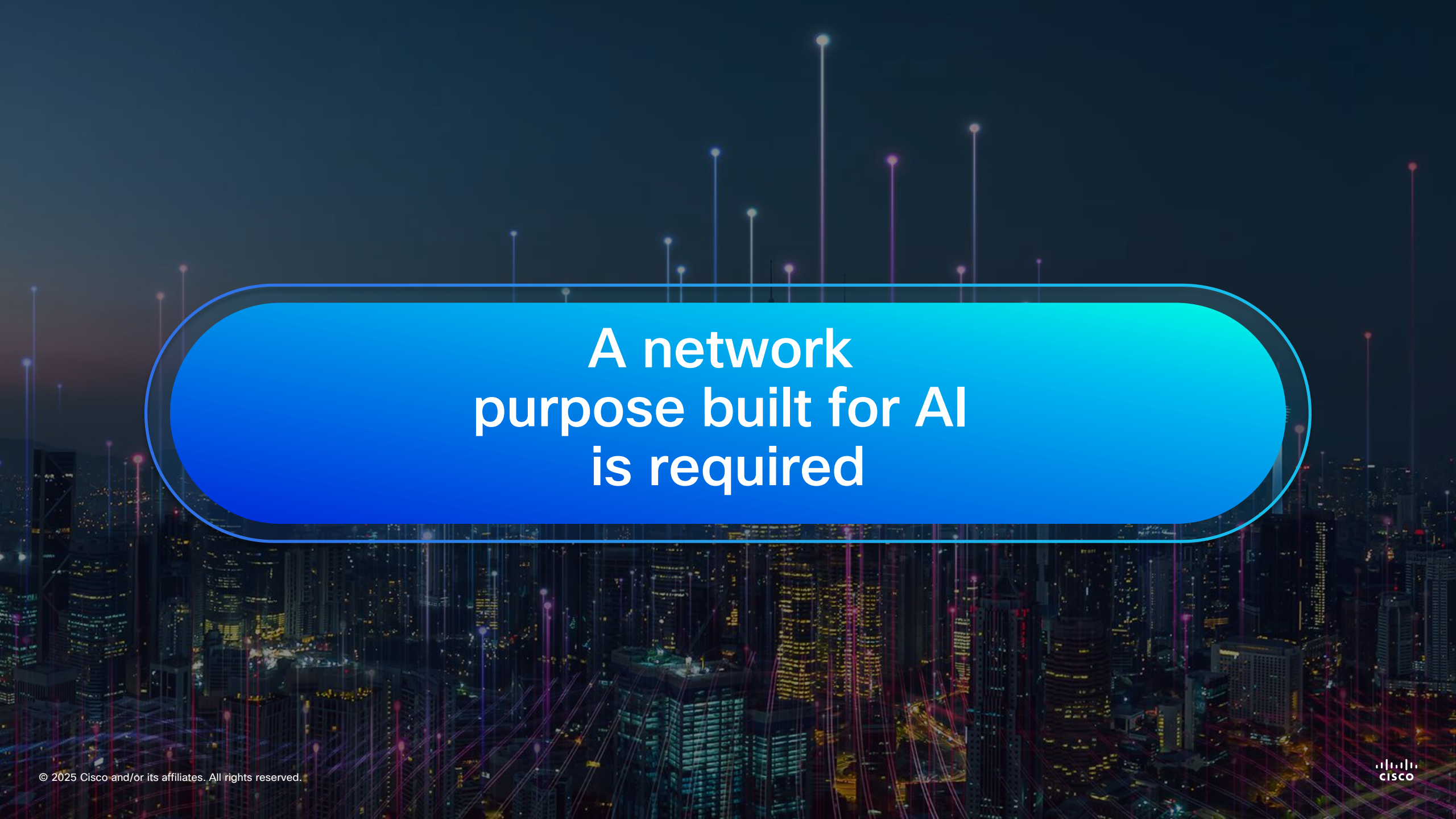
Pervasive Zero
Trust security



More
bandwidth



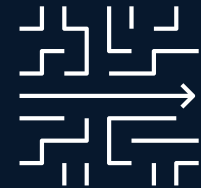
Shifting
workloads



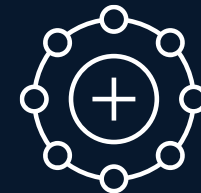
**A network
purpose built for AI
is required**

Architecture for the AI-ready secure network

AgenticOps
for operational simplicity



Scalable devices
ready for AI



Security
fused into the network



Unlocking the AI era with simple, secure, and scalable networks

Now announcing:

A major leap forward for operational simplicity

Global Overview
Cloud Management
AgenticOps

Deploy branches in minutes, not months

Unified Branch with
Branch as Code

New scalable infrastructure for the AI era

Secure Routing
Scalable Wi-Fi 7



Michelle Fernando

Superintendent, OT Networks

BHP

**AgenticOps empowers
IT teams to focus on
what matters most**

BETA

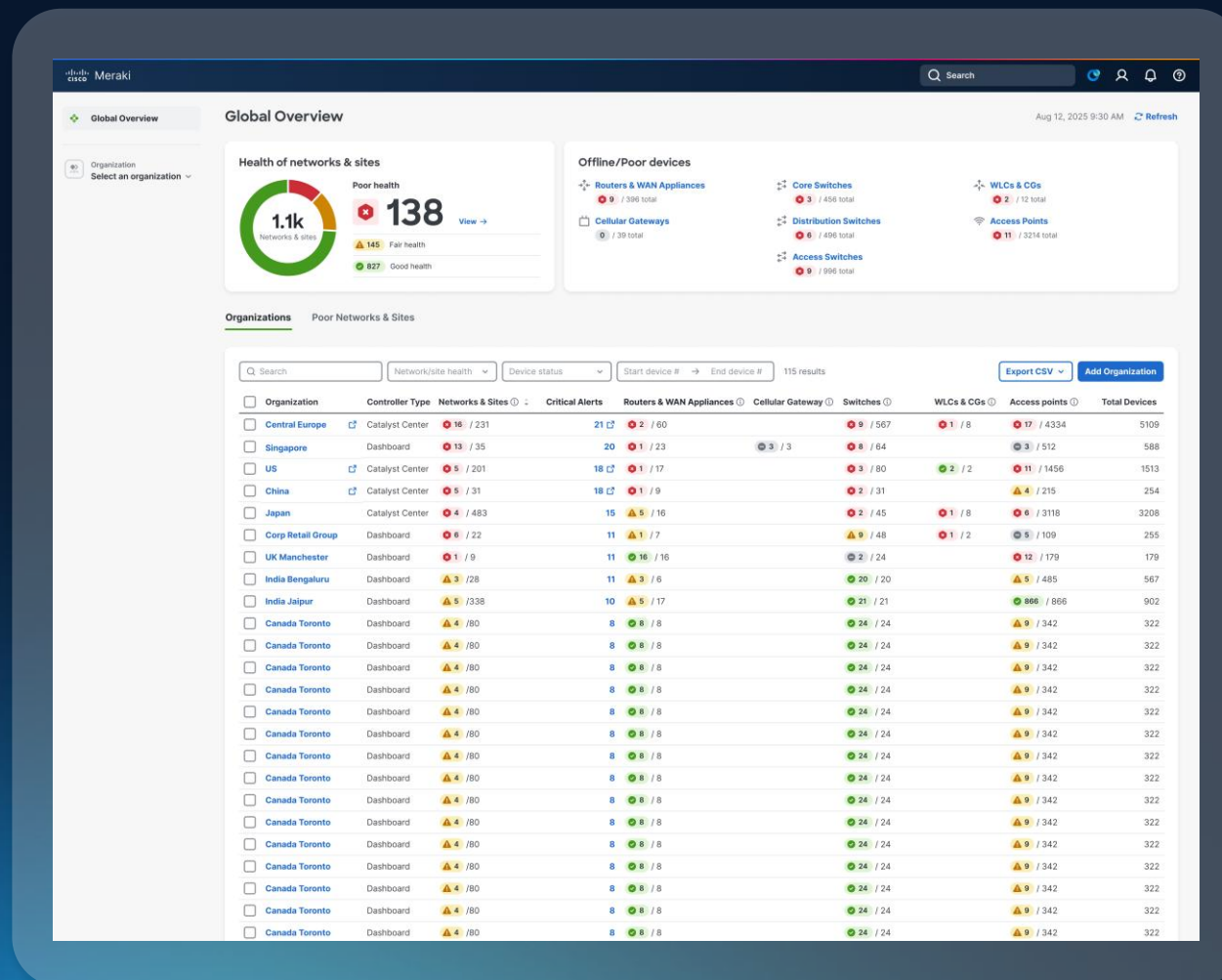
Unified network management

A single cloud dashboard experience integrating Meraki and Catalyst Center

Global health visibility and actionable alerts

Secure SSO for seamless workflows

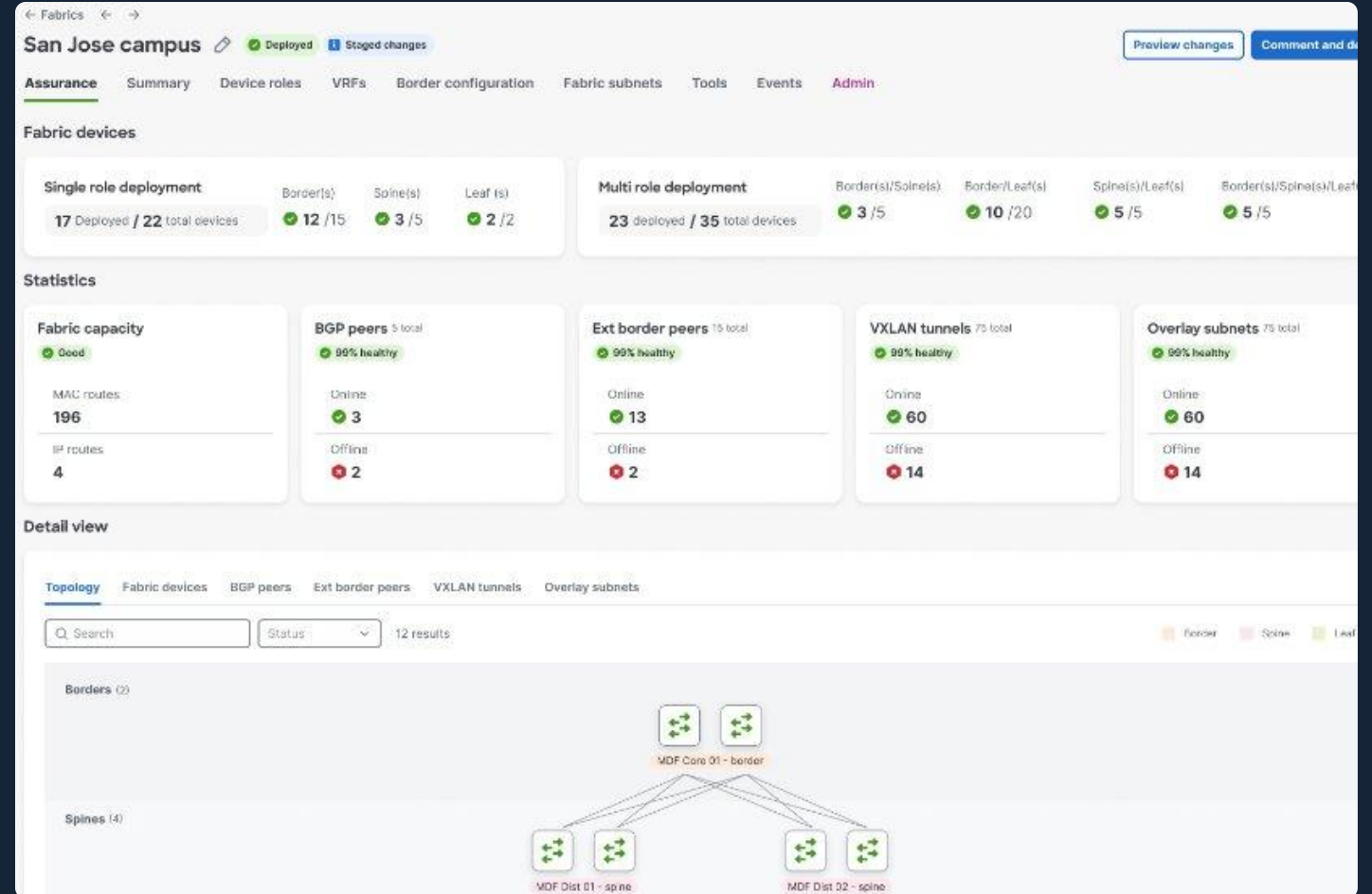
Simplified AI-powered network operations across cloud and on-prem environments



Cloud-managed fabric

Simple deployment of plug-and-play fabrics

Fast, secure fabric orchestration to simplify large site management from the cloud



AI at every layer



AI in the network stack



AI in the control plane



AI in the operational
workflow

AgenticOps

The new standard for IT operations

AVAILABLE NOW



AI Assistant

Accelerate network operations

ALPHA



AI Canvas

Cross-domain collaborative troubleshooting

POWERED BY DEEP NETWORK MODEL

Cut MTTR to near seconds with AI-driven root cause and resolution.

Catch critical issues early with AI that sees across the stack.

Operate at scale with lean teams and built-in AI expertise.

Troubleshoot faster together with shared context across teams.

Deep network model the most advanced networking LLM

Purpose-Built for Networking

Up to 20% more precise reasoning for troubleshooting, configuration, and automation.

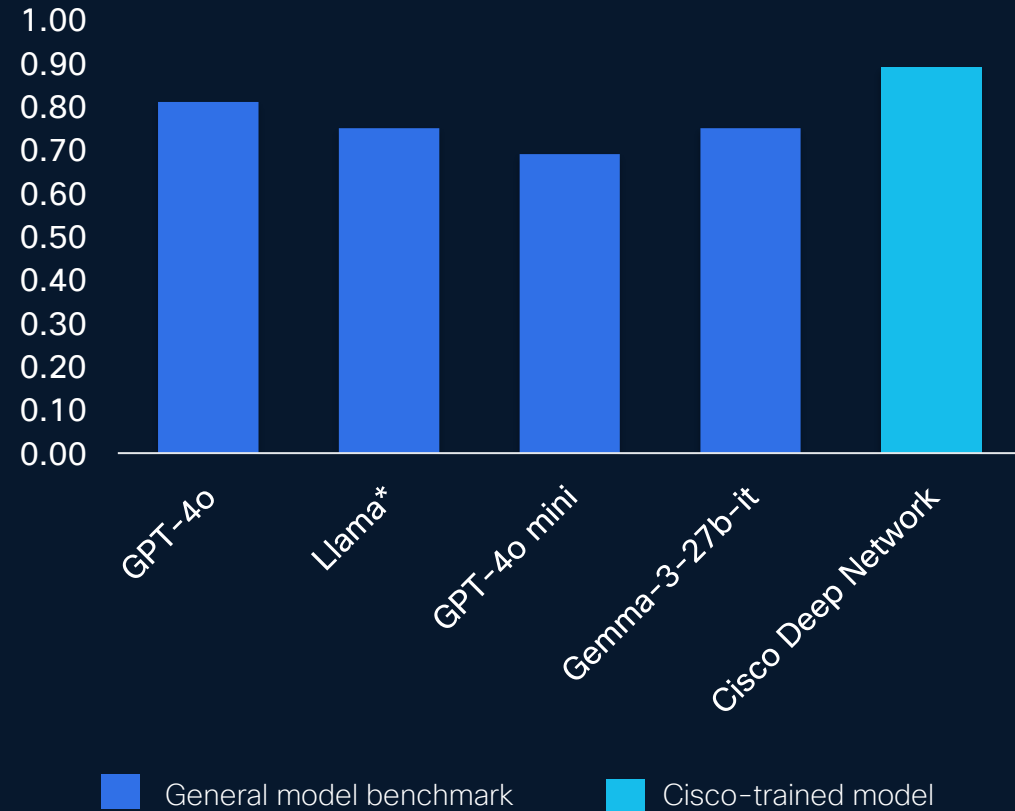
Trusted Training

Fine-tuned on 40+ years of Cisco expertise and expert-vetted for accuracy.

Continuous Learning

Evolves with live telemetry and real-world Cisco TAC and CX insights.

Outperforms general models by ~20%



Accuracy on CCIE-style MCQs (590-question benchmark, May 2025)
*3.2-90B-Vision-instruct

Scalable devices for mission-critical environments

What does it mean to build hardware for the AI era?

Silicon

High bandwidth and high performance.
Post-quantum ready

OS

Pervasive programmability, deep observability,
near-zero downtime architecture

System

AI driven visibility, programmable open
ecosystem, power efficient

Scalable devices, ready for AI

INTRODUCING



Smart Switches



Secure Routers



Secure Firewall



Wi-Fi 7



Industrial IoT

AVAILABLE NOW

Our new family of Cisco Smart Switches for the AI-powered campus

High-performance,
low latency

Cisco Silicon One +
co-processor for
security and AI

Quantum Resistant
& PQC Compliant-
ready

Intelligent energy
efficiency &



Cisco C9350 Fixed Access
Smart Switch



Cisco C9610 Modular Core
Smart Switch

AVAILABLE NOW

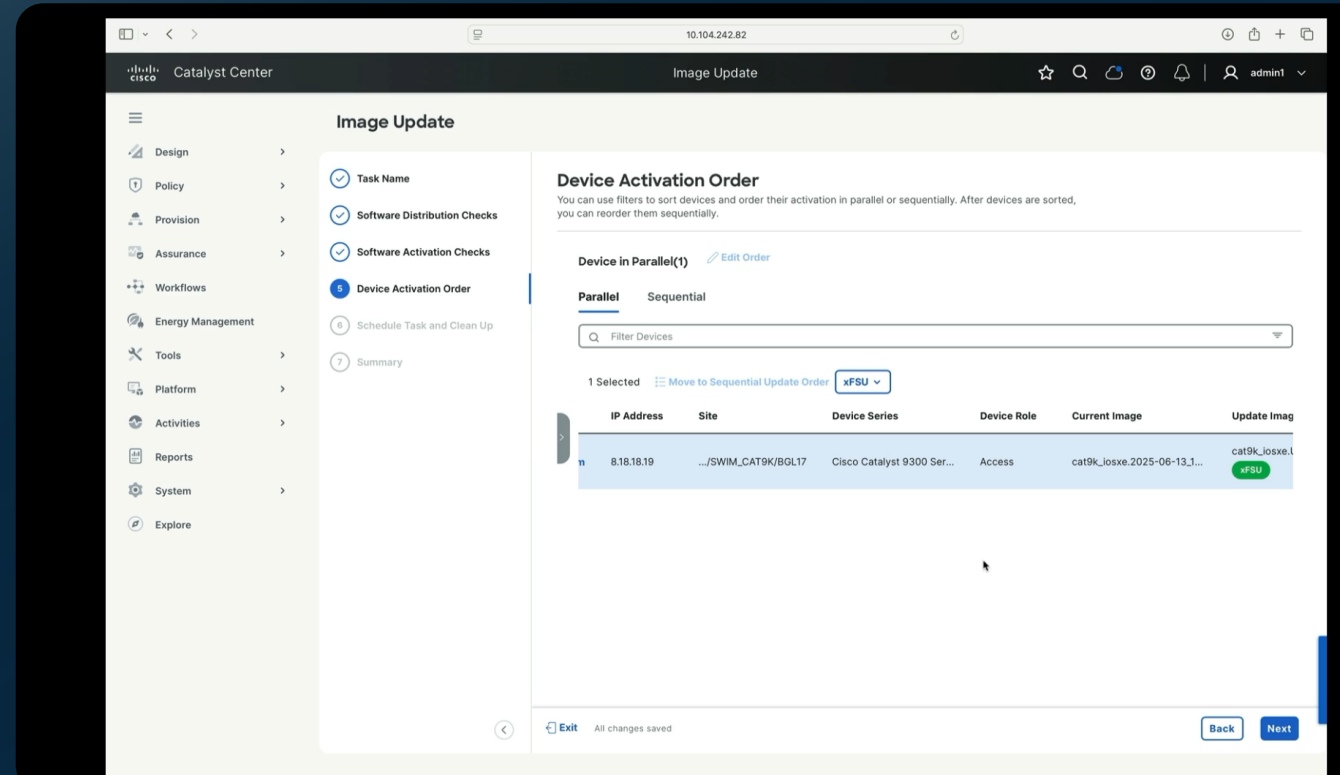
Minimize downtime during software reloads and upgrades

with extended fast software upgrade (xFSU)

Complements In-Service Software Upgrades (ISSU) (C9400, C9500, C9600) for C9300 switch family & Cisco C9350 Smart Switches

<5 second traffic downtime (IOS XE17.15.2)

No topology modification needed



Secure networking
processor

More throughput to
support increased
application
workloads

Hybrid mesh firewall
for secure branch
connectivity

Post-quantum
secure

Cloud or on-prem
management

INTRODUCING

Secure Routers for the AI-powered unified branch



AVAILABLE NOW

Cisco 8000 Secure Routers

19 new Industrial Switches for secure, AI-driven operations

New!



6 New DIN-rail
Switches and 8
Expansion
Modules

New!



8 New IP67
Switches

New!



2 New Compact
IP67 Switches

New!



2 New Compact
IP30 Switches
with 4PoE

New!



1 New Mixed-
port Rackmount
Switch

Fast Dependable Wi-Fi for Every Site and Scale

Scalable infrastructure to power new possibilities



Intelligent Wi-Fi 7 for every site

Cisco CW9171I Access Points
Cisco CW9174I &
CW9174E Access Points

ORDERABLE NOVEMBER



Seamless wireless for every campus

Cisco CW9800L
Wireless Controller

ORDERABLE NOVEMBER



Cloud management for centralized wireless architectures

Cisco Campus Gateway

AVAILABLE

Introducing Wi-Fi and Ultra-Reliable Wireless Backhaul unified infrastructure

One management platform

One wireless infrastructure to install

Best of Wi-Fi combined with
new use cases enabled by
URWB technology

Wi-Fi



URWB



**Protect critical systems without
slowing them down.**

Threats are accelerating

Attack surface

Exploits remain #1 infection vector

33%

of infections start as exploits¹

Stolen credentials grant longest access

292

days – average breach lifecycle²

IoT devices are targets and threat

1/3

of breaches involved IoT devices

Sources:
1. M-Trends 2025: Executive Edition, Apr 2025, “By the Numbers – The Data of M-Trends”
2. IBM cost of a data breach 2024
3. Verizon DBIR, 2025

Quantum computing

Gartner

Secure Your Network Against “Harvest Now, Decrypt Later” Quantum-Enabled Attacks

25 February 2025 - ID G00825373 - 9 min read

By: Tim Zimmerman, Mike Leibovitz, Matthew Brisse, Mark Horvath

Initiatives: I&O Platforms

Malicious actors using a “harvest now, decrypt later” strategy pose a hidden risk for enterprises. Encrypted data is unreadable today but can be stored until quantum computers can decrypt them. I&O leaders can mitigate this risk by adopting a postquantum cryptology strategy.

Overview

Key Findings

Cryptographically relevant quantum computers (CRQCs) will be able to break conventional cryptographic systems by being able to

THE WALL STREET JOURNAL.

English Edition | Print Edition | Video | Audio | Latest Headlines | More

CIO JOURNAL

Quantum Computing Is Closer Than Ever. Everybody’s Too Busy to Pay Attention.

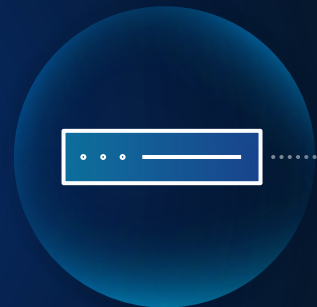
A technology that feels like it’s ‘always five years away’ may suddenly be two years away—but businesses are a little preoccupied

By Isabelle Bousquette Follow

Feb. 13, 2025 7:00 am ET



Comprehensive security fused into every layer



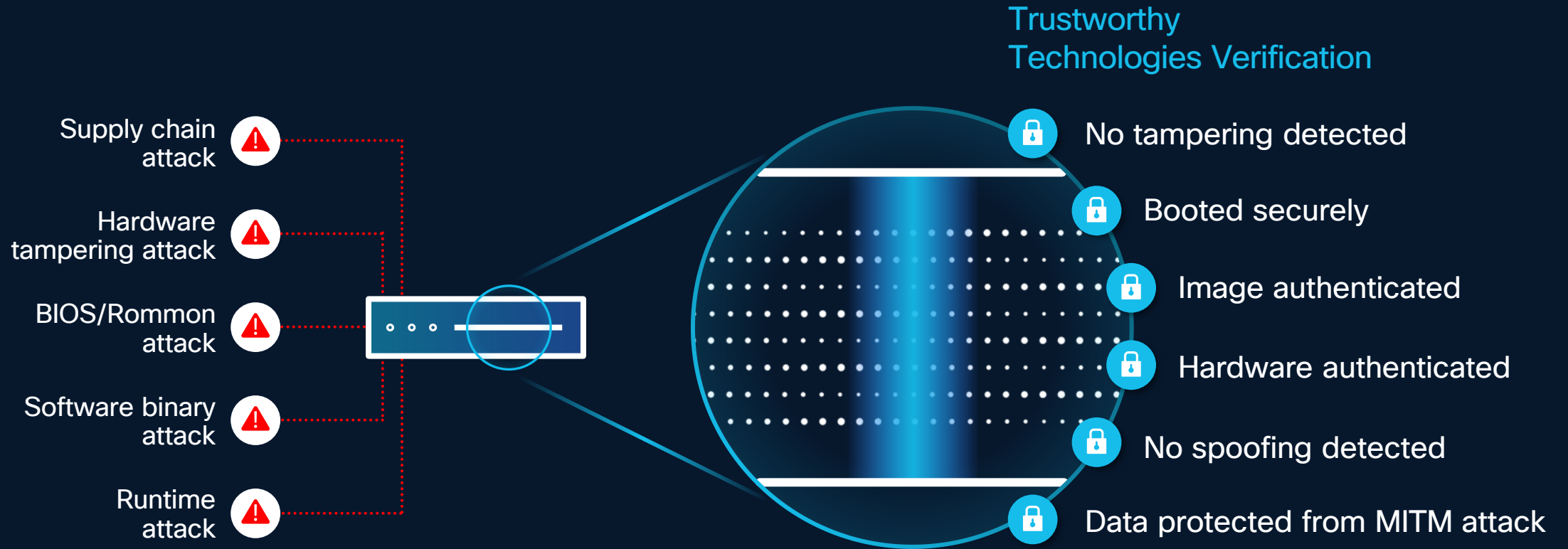
The device
Secured

The network
Secured

Users, endpoints and apps
Secured

Securing the device

Secure from hardware to software, from boot time to runtime

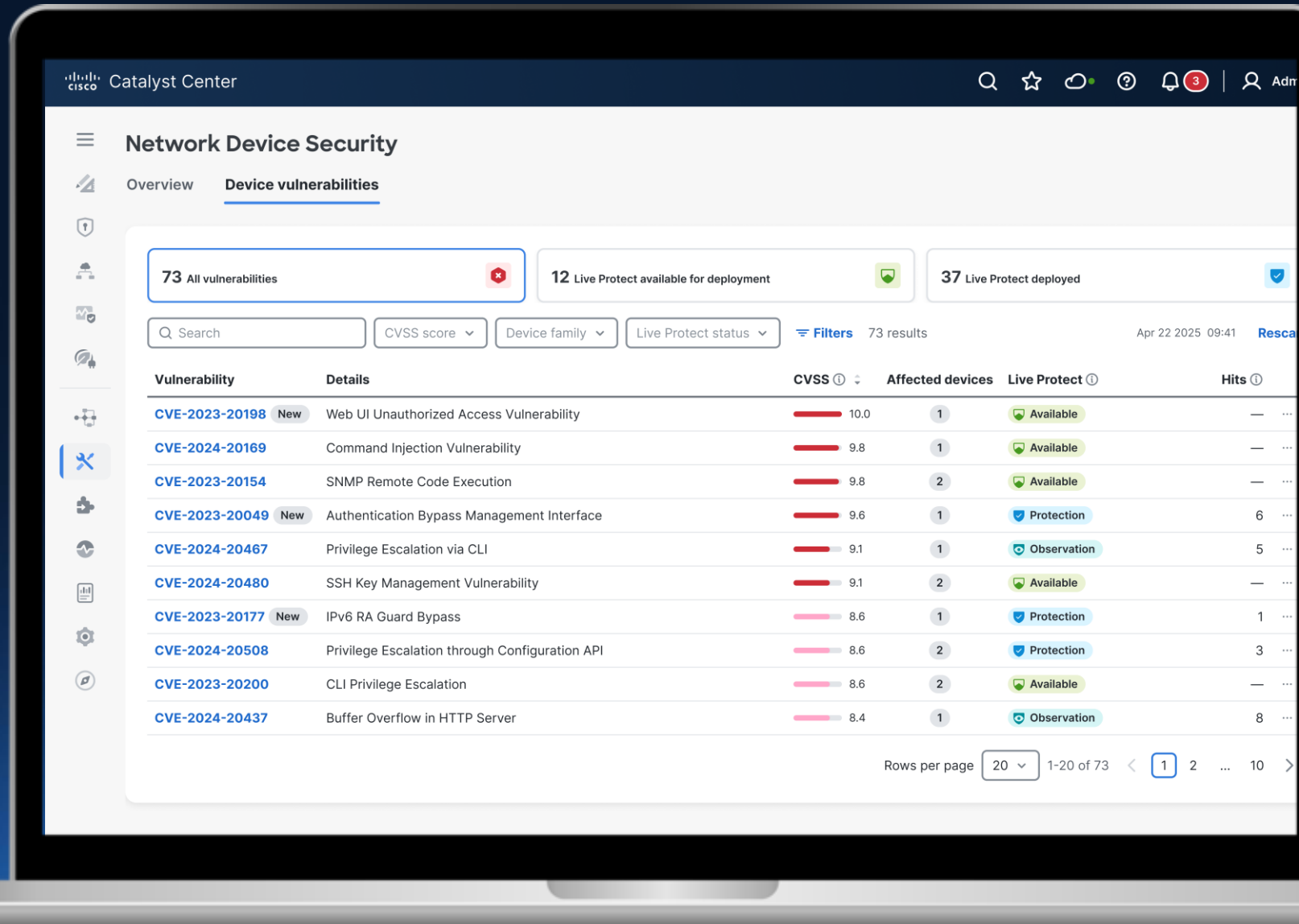


FUTURE

Live Protect

Stop the attack, not the network.

Block vulnerabilities instantly,
update on your schedule.



☰

Network Device Security

Overview

Device vulnerabilities

73 All vulnerabilities

12 Live Protect available for deployment

37 Live Protect deployed

CVSS score ▾

Device family ▾

Live Protect status ▾

Filters 73 results

Apr 22 2025 09:41 [Rescan](#)

Vulnerability		Details	CVSS ⓘ ▾	Affected devices	Live Protect ⓘ	Hits ⓘ
CVE-2023-20198	New	Web UI Unauthorized Access Vulnerability	<div><div></div></div> 10.0	1	Available	— ...
CVE-2024-20169		Command Injection Vulnerability	<div><div></div></div> 9.8	1	Available	— ...
CVE-2023-20154		SNMP Remote Code Execution	<div><div></div></div> 9.8	2	Pending	— ...
CVE-2023-20049	New	Authentication Bypass Management Interface	<div><div></div></div> 9.6	1	Protection	6 ...
CVE-2024-20467		Privilege Escalation via CLI	<div><div></div></div> 9.1	1	Observation	5 ...
CVE-2024-20480		SSH Key Management Vulnerability	<div><div></div></div> 9.1	2	Available	— ...
CVE-2023-20177	New	IPv6 RA Guard Bypass	<div><div></div></div> 8.6	1	Protection	1 ...
CVE-2024-20508		Privilege Escalation through Configuration API	<div><div></div></div> 8.6	2	Protection	3 ...
CVE-2023-20200		CLI Privilege Escalation	<div><div></div></div> 8.6	2	Pending	— ...
CVE-2024-20437		Buffer Overflow in HTTP Server	<div><div></div></div> 8.4	1	Observation	8 ...

Rows per page

20 ▾

 1-20 of 73 <

1

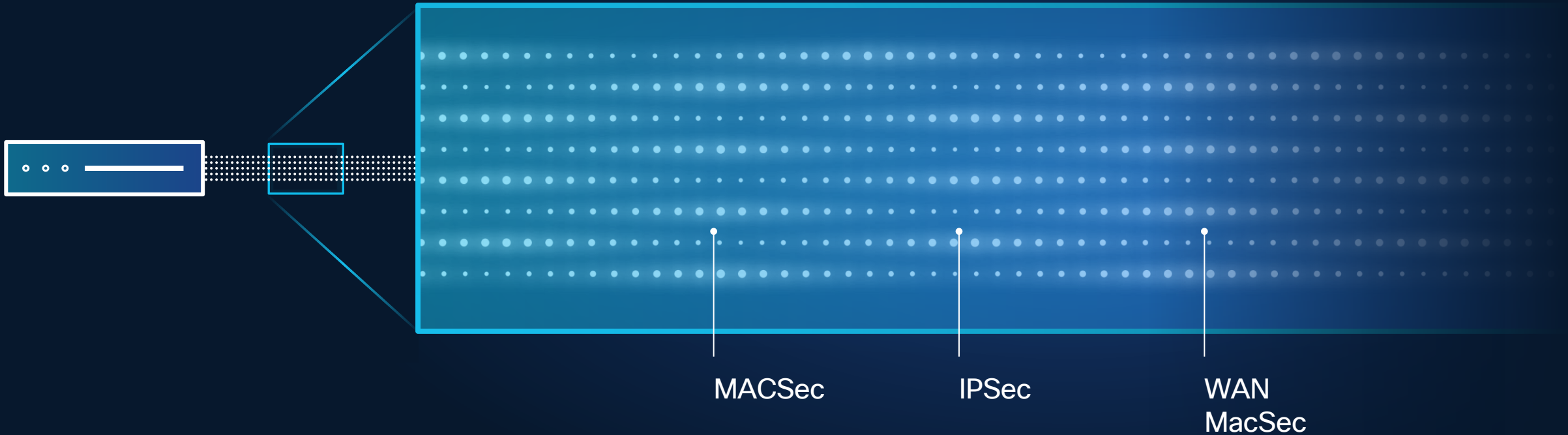
 2 ... 10 >

Securing the network

Protecting your data in motion across owned & unowned infra

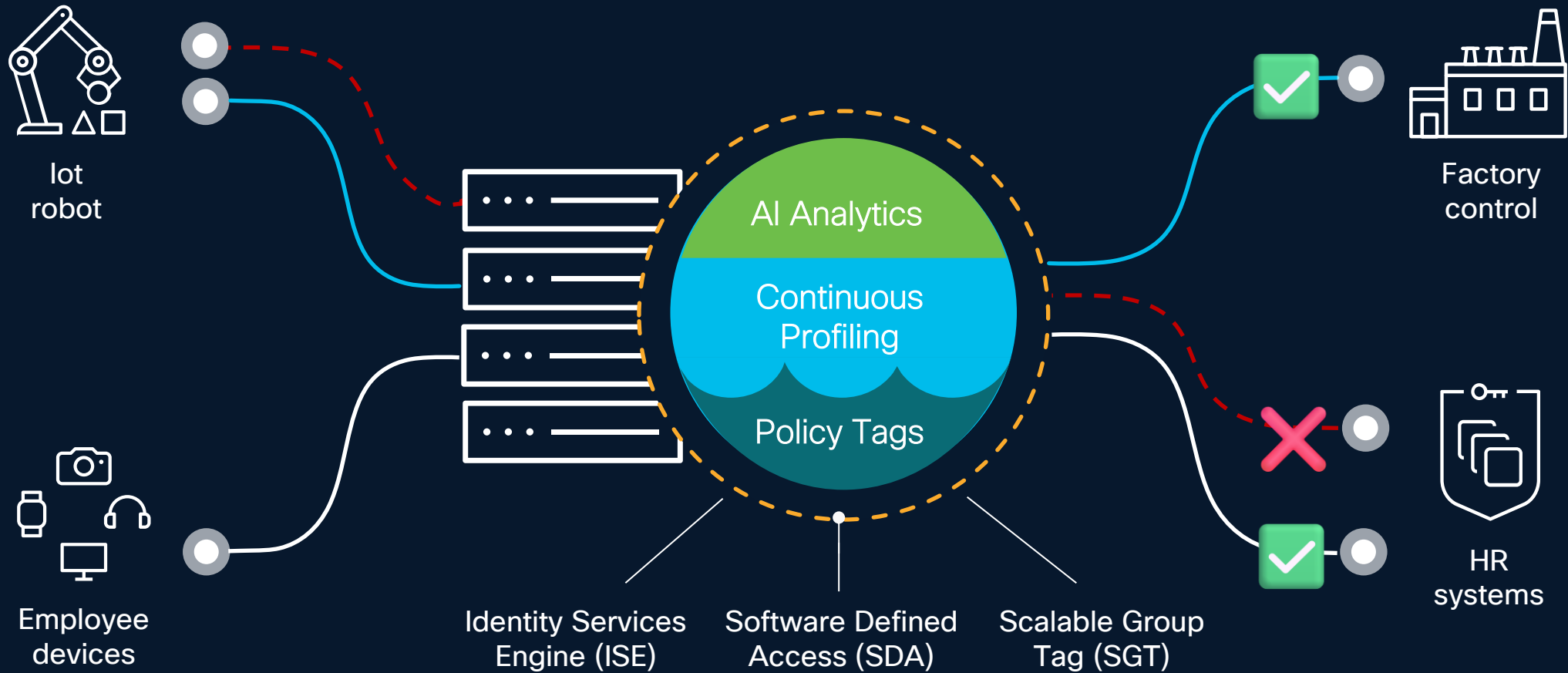
Post-Quantum Cryptography

Future proof investments | Protect against quantum | Secure sensitive data



Securing network access

Scalable microsegmentation to protect every connection



Cisco's Universal ZTNA

Secure
SD-WAN

+

Security
service edge

+

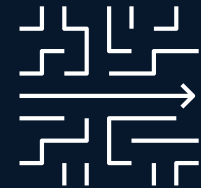
Trusted
identity edge

SINGLE VENDOR SASE

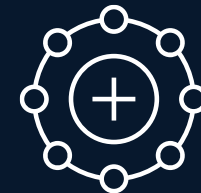
End-to-end Assurance with ThousandEyes

Architecture for the AI-ready secure network

AgenticOps
for operational simplicity



Scalable devices
ready for AI



Security
fused into the network



Take action



Get a live demo in World of Solutions



Connect with your Sales partner



Catch a replay of the Keynotes

