

# Unlocking the Future of Secure Networking: Platform, Software, and AI-Powered Advancements

Kara Muessig- Solutions Engineer



# Another Massive Technology Disruption

Internet

Mobility

Cloud

AI

# AI Is Bringing Changes and Challenges

**1,000s**

AI Agents per  
enterprise expected

**#1 risk**

AI-enhanced  
malicious attacks

**64%**

of orgs face IT skills  
shortage by 2026

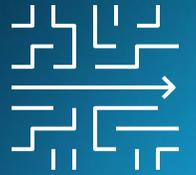
# Is Your Campus Network AI Ready?

For explosive traffic, for increased security risks, for more complexity

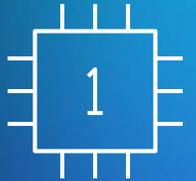


# Architecture for Secure Campus & Unified Branch

**Operational simplicity**  
powered by AI



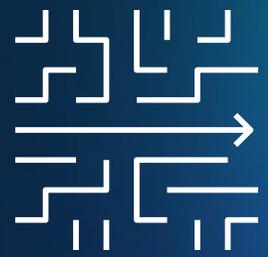
**Scalable devices**  
ready for AI



**Security**  
fused into the network



# Operational Simplicity Powered by AI



# Our Unified Platform

PLATFORM

Management

Assurance

API / Integrations

Intelligence

HARDWARE



Smart  
Switches



Secure  
Routers



Wireless



Industrial  
IoT

# Unifying Catalyst & Meraki

## Catalyst

**Catalyst Center**

**Catalyst License**

**Catalyst Hardware**

## Meraki

**Meraki Dashboard**

**Meraki License**

**Meraki Hardware**

MANAGEMENT

LICENSE

CISCO HARDWARE

GA | JUNE

# Unified Management – Catalyst and Meraki, Any Environment

Seamless control across cloud, on-prem, or hybrid

New enterprise campus capabilities

AI-powered automation and assurance

The screenshot displays the Cisco Meraki Management Console interface. The top navigation bar includes the Cisco Meraki logo, a search bar, and user profile icons. The left sidebar contains a navigation menu with categories like Network, Assurance, Security & SD-WAN, Switching, Wireless, Cameras, Sensors, and Organization. The main content area is titled "Organization Summary" and includes a "Last day" filter and a "View old version" link. The "Device status" section shows a total of 19 offline devices across various categories: Uplinks (96 total, all online), WAN appliances (96 total, 9 offline, 16 recovered), Cellular gateways (96 total, all online), Switches (96 total, 9 offline, 16 recovered), Access points (96 total, 1 offline, 6 recovered), Controllers (96 total, all online, 16 recovered), Cameras (96 total, all online), and Sensors (96 total, all online). The "Organization insights" section features a donut chart for "Impacted networks" showing a score of 9/100 with a +4 change, and a table for "Impact across networks" listing issue types like Clients, Network devices, Infrastructure, and Applications. A "Trending networks" table lists networks such as London, SFO-Corp, Chicago - Data, San Francisco, and Tokyo with their health scores and changes. The "Networks by health score" section includes a search bar, filters for Good, Fair, and Poor, and a table of 100 results showing network names, health scores, score changes, network tags, and counts for Clients, Network devices, Infrastructure, and Applications.



# Expanded Cloud Management for Catalyst Portfolio



## Wireless

Full wireless support  
Scale large campus wireless  
with Campus Gateway



## Switching

Expanded management for  
access and core switching,  
including C9200 and C9500



## Routing

Next-gen routing  
support coming

Cloud management powered by cloud-native IOS XE

# Catalyst in the Cloud – What’s New?



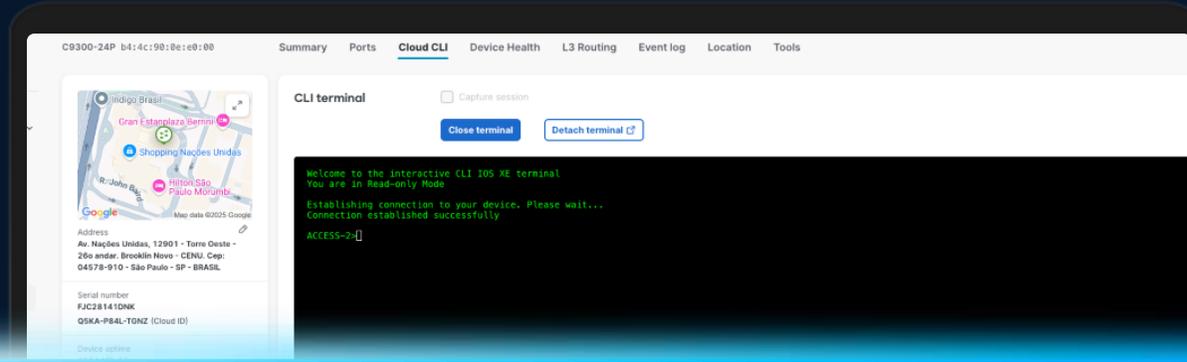
Native iOS XE support  
(no more CS firmware)



Streamlined onboarding &  
device registration



Expanded cloud CLI and  
configuration options



New 17.18.2



Extend secure connectivity to  
rugged outdoor networks  
**Targeting Spring 2026**



IE3500

IOS XE 17.15



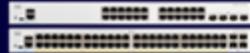
C9300L



C9300



C9300X



C9200L

IOS XE 17.18



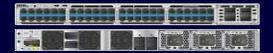
C9500



C9200/CX



C9300LM



C9350

\*Support for C9500X, C9606, and C9400 available in subsequent release

# Key Innovations on IOS XE 17.18

## Enterprise Feature Development

### Advanced Routing

Routed Ports

Loop-free Routed Access

VRF Lite

Scalable Macro Segmentation

BGP

Flexible, Open Dynamic Routing

### High-Availability

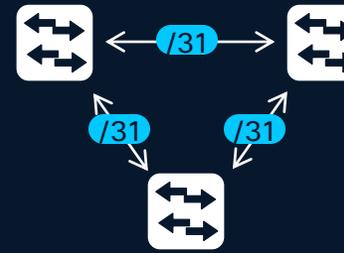
Rapid PVST+

Enhanced L2 Loop Prevention

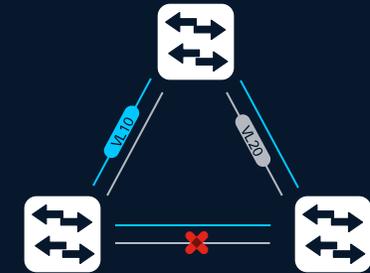
StackWise Virtual (SVL)  
ISSU

Sub-second downtime  
firmware upgrades

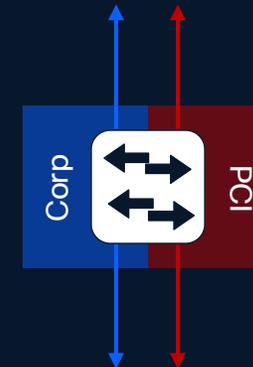
Routed Ports



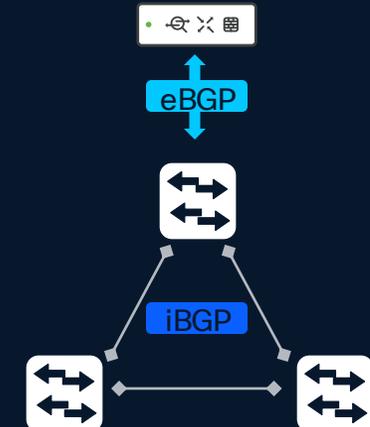
RPVST+



VRF Lite



BGP



# Large Campus Capabilities, Managing Intuitively

Public Beta

## Cisco Campus Cloud Fabric

Scalable, secure, BGP-EVPN fabric with Cloud management

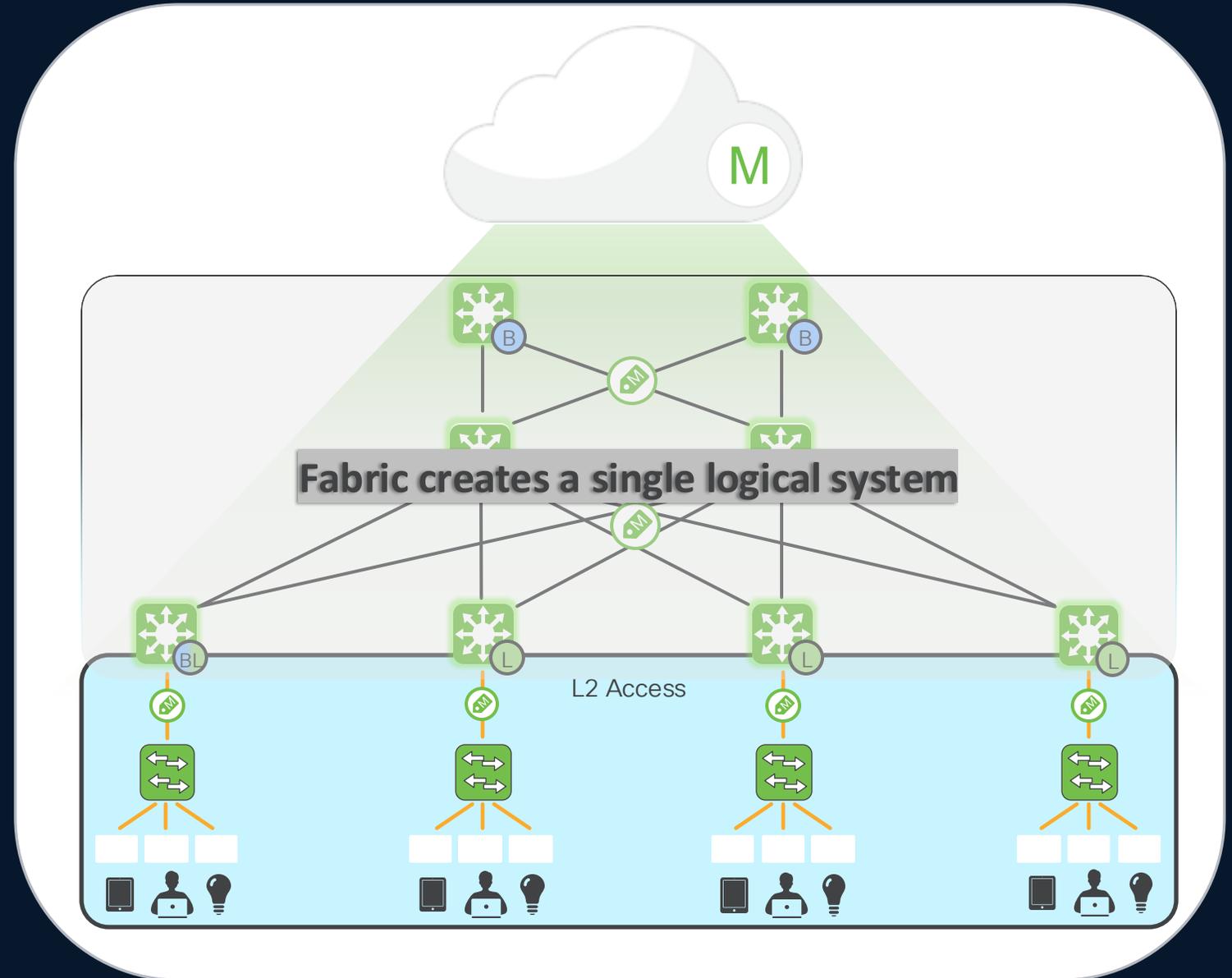
Micro-segmentation, macro-segmentation, and policy enforcement based on user identity and group

Simplified deployment workflow allowing staging and commit as two separate processes

The screenshot shows the management interface for a 'San Jose campus' fabric. At the top, there's a navigation bar with 'Fabrics' and a 'Staged' indicator. A 'Comment and deploy' button is in the top right. Below the navigation, there are tabs for 'Summary', 'Device roles', 'VRFs', 'Border configuration', 'Fabric subnets', 'Tools', 'Events', and 'Admin'. The 'Summary' tab is active, showing deployment statistics for 'Fabric devices'. It is divided into 'Single role deployment' and 'Multi role deployment'. The 'Single role deployment' shows 17 deployed out of 22 total devices, with 12/15 border devices, 3/5 spine devices, and 2/2 leaf devices. The 'Multi role deployment' shows 23 deployed out of 35 total devices, with 3/5 border/spine devices, 10/20 border/leaf devices, 5/5 spine/leaf devices, and 5/5 border/spine/leaf devices. Below this is a 'Deployment summary' section with four cards: 'Border configuration' (4/4 total configurations), 'VRFs' (0/7 total VRFs), 'Fabric subnets' (0/1 created and 0/1 migrated subnets), and 'Underlay subnets' (5 total subnets). The 'Detail view' section shows a 'Topology' view with a search bar and a status dropdown. The topology diagram shows a hierarchical structure: 2 border devices (MDF Core 01 - border), 4 spine devices (MDF Dist 01 - spine and MDF Dist 02 - spine), and 6 leaf devices (MDF NetB - leaf, MDF NetC - leaf, and MDF NetD - leaf). A legend indicates that orange represents Border, pink represents Spine, and green represents Leaf.

# Why Cloud Managed Campus Fabric?

- Fabric changes management of an L3 topology in a campus from box-by-box to a single logical system
- Migration is a core goal to enable customers to optimize their networks without a complete rip and replace
- L2 can be stretched in the most optimal manner for wireless client mobility and legacy apps with L2 adjacency requirements



# Cloud-Managed Campus Fabric Overview

Cloud-Managed  
EVPN-VXLAN Fabric

Focused on existing  
cloud-native Catalyst

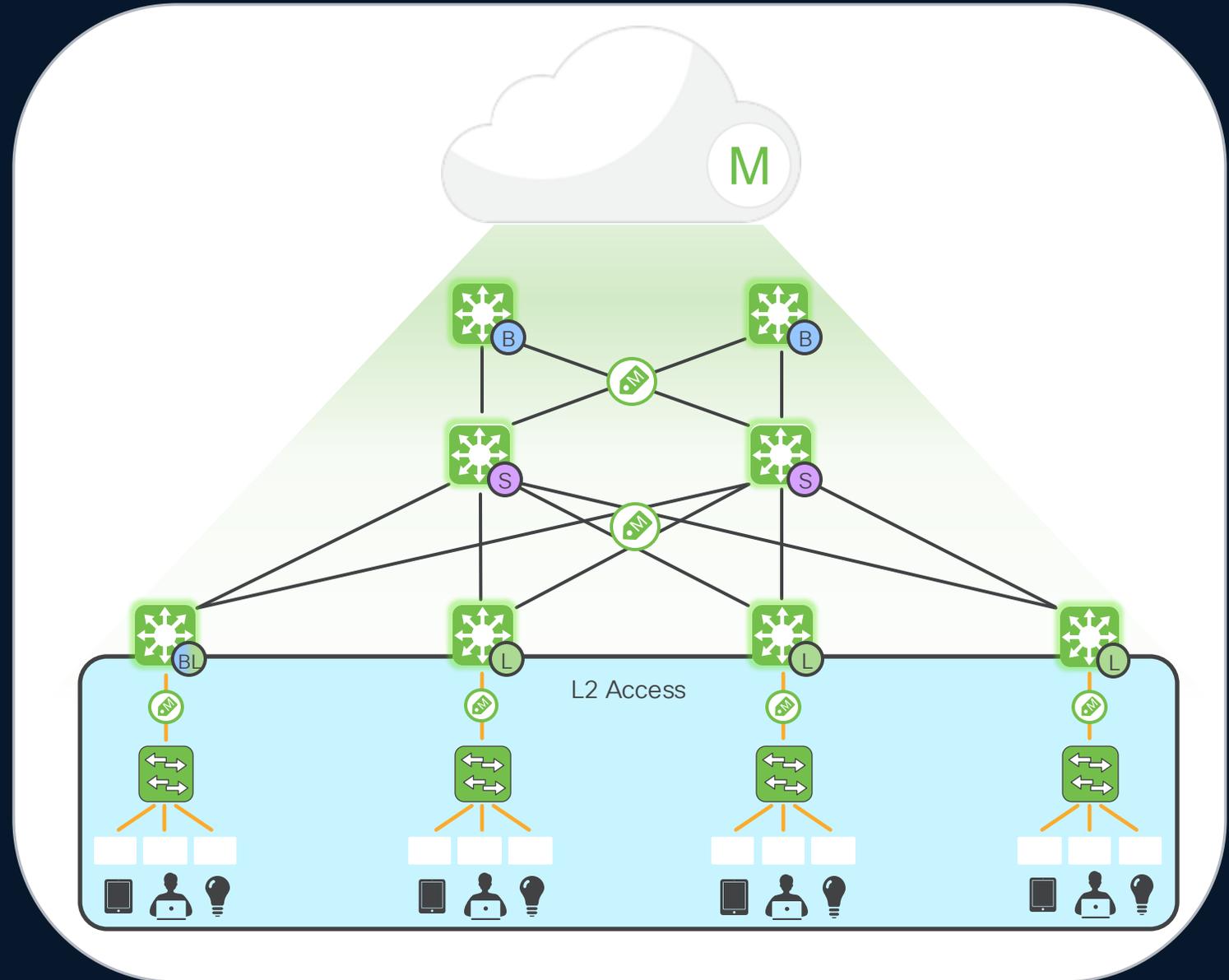
Flexible deployment  
and staging



Securing the network  
through Adaptive Policy

Optimized L2 extension

Day-2 fabric health view



← Fabrics  
**Create fabric**

- 1 Fabric setup**
- 2 VRFs
- 3 Fabric subnets
- 4 Fabric border routing configuration
- 5 Summary

The Meraki fabric can be composed of one or many networks and devices in those networks to provide a BGP-EVPN fabric overlay. To create a fabric, you will need to provide a name, select one or many networks where the fabric will be built, and select and assign the roles to the applicable switches in the list below.

**Fabric name**

**Select networks/network group**

**BGP autonomous system number**  **BGP auth key**

**Underlay loopback IP pool**

**Select roles for devices**

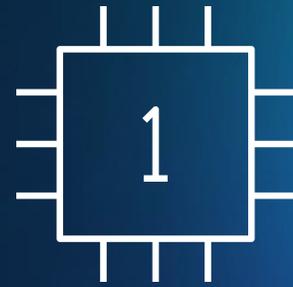
The list will populate all fabric supported switches that are in the networks selected. The default roles are defined as Borders, Spines, and Leaves, but can be modified to assign multiple roles to a single switch based on the network design and use case.

**Filters** 6 results

2 items selected [Select all](#) [Remove role](#) [Edit role](#)

Devices	Status	Local IP	Networks	Serial column	Tag	Roles	Action
<input checked="" type="checkbox"/> MDF Core-01(9500-24Y4CX2)	Online	10.10.100.1	Network A	Serial number	Tag		<a href="#">✎</a>
<input checked="" type="checkbox"/> MDF Dist-01 (9500-48Y4Cx2)	Online	10.10.192.1	Network A	Serial number	Tag 1 Tag 2		<a href="#">✎</a>
<input type="checkbox"/> MDF Dist-02 (9500-48Y4Cx2)	Online	10.10.176.1	Network A	Serial number	Tag 2	Leaf	<a href="#">✎</a>
<input type="checkbox"/> NetB-MDF-Stack (9300x Stack)	Online	10.10.20.1	Network B	Serial number	Tag 3	Border Spine Leaf	<a href="#">✎</a>
<input type="checkbox"/> NetC-MDF-Stack (9300x Stack)	Online	10.10.40.1	Network C	Serial number	Tag	Border	<a href="#">✎</a>
<input type="checkbox"/> NetD-MDF-Stack (9300x Stack)	Online	10.10.30.1	Network D	Serial number	Tag	Border	<a href="#">✎</a>

**Scalable Devices Ready for AI**



INTRODUCING

# Scalable Devices Ready for AI

Smart Switches



Secure Routers



Campus Gateway



Secure Firewall



Large Venue Wi-Fi 7



ALL ORDERABLE JUNE 2025

# Introducing Smart Switches for the AI-Powered Campus

High-performance,  
low latency

Cisco Silicon One +  
co-processor for  
security and AI

Post-quantum  
secure

Intelligent energy  
efficiency



## Cisco C9350 Smart Switches

AVAILABLE JUNE 2025

Unparalleled density,  
speed, and security

Backward compatible  
chassis with front to  
back airflow

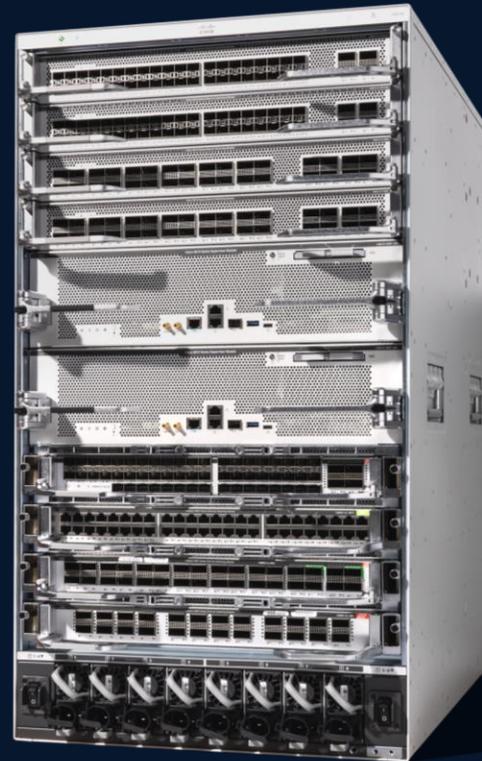
Powered by Cisco  
Silicon One

High density  
chassis with state-  
of-the-art hardware

Entirely modular and  
upgradable system

# Introducing

## Smart Switches for the AI-Powered Campus



AVAILABLE JUNE 2025

## Cisco C9610 Modular Core Smart Switches

Boosts hardware encryption post quantum security

Intelligently adaptable to mitigate link failures, congestion, and bandwidth challenges

Flexible and programmable for future AI and ML workloads

High-scale and low latency for time-sensitive applications

Efficient power performance

# Powered by Cisco Silicon One for Scale, Security, and Efficiency



**Silicon One A100L and  
Silicon One K100L**

# Cisco 8000 Series Secure Routers + Firewall for Campus and Data Center

Campus



8400 Secure Router



Firewall 3100 Series

Data Center



8500 Secure Router



Firewall 4200 Series



Firewall 6100 Series

# Wi-Fi 7 for Every Operational Scale



## CW9172

6 spatial streams  
Omnidirectional  
Ceiling mount and  
wall plate form factor



## CW9176I

12 spatial streams  
Omnidirectional  
10 Gbps, GPS, UWB



## CW9176D1

12 spatial streams  
Integrated directional  
10 Gbps, GPS, UWB



## CW9178

16 spatial streams  
Omnidirectional  
2x 10 Gbps, GPS, UWB

NEW



## CW9179F

16 spatial streams  
Software-defined radios  
2x 10 Gbps, GPS

Wi-Fi 7 | Global use AP | Unified license | AI optimized

Scales up to  
5,000 APs  
and 50,000 clients

Easy migration for  
existing LAN  
controller  
architectures

No need to  
re-cable, change  
VLANs, or disrupt  
operations

# Introducing The New Campus Gateway



AVAILABLE TODAY

## Cisco Campus Gateway

# Security Fused Into the Network



# Security Fused Into the Network

Securing access to apps  
anywhere



Securing network  
connectivity



Securing network  
access

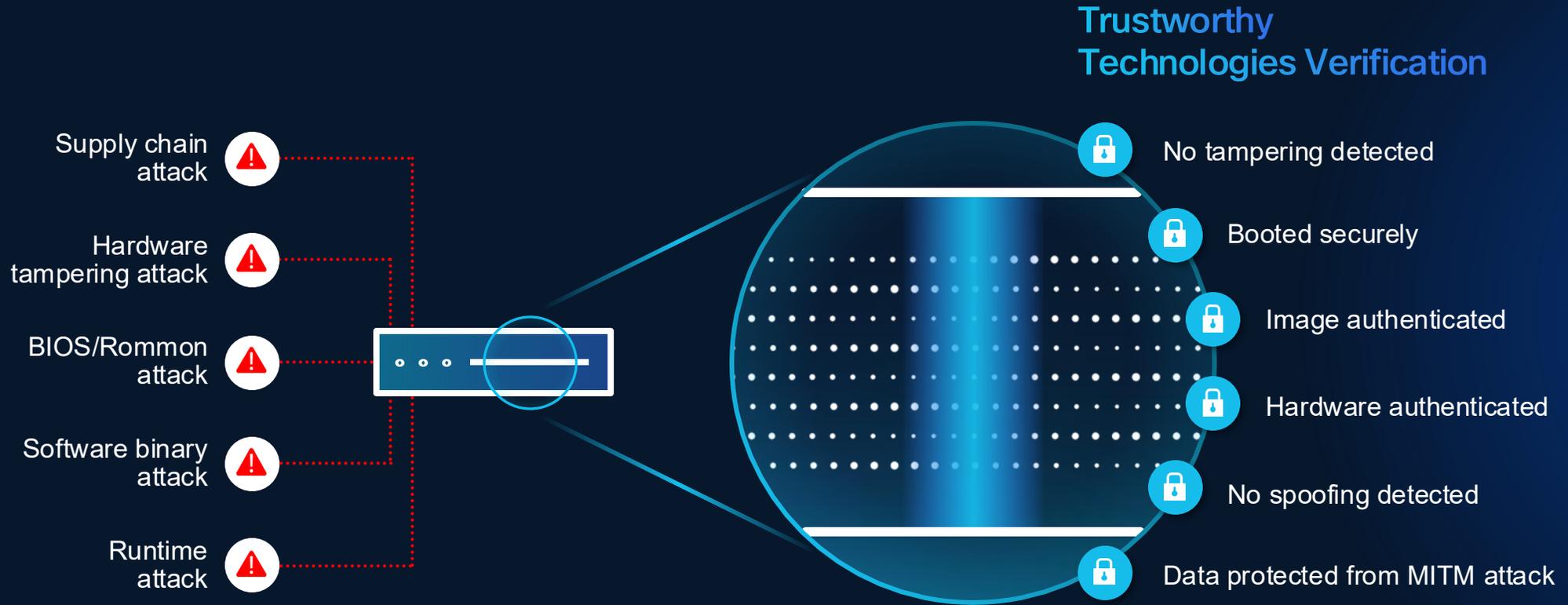


Securing the device



# Securing the Device

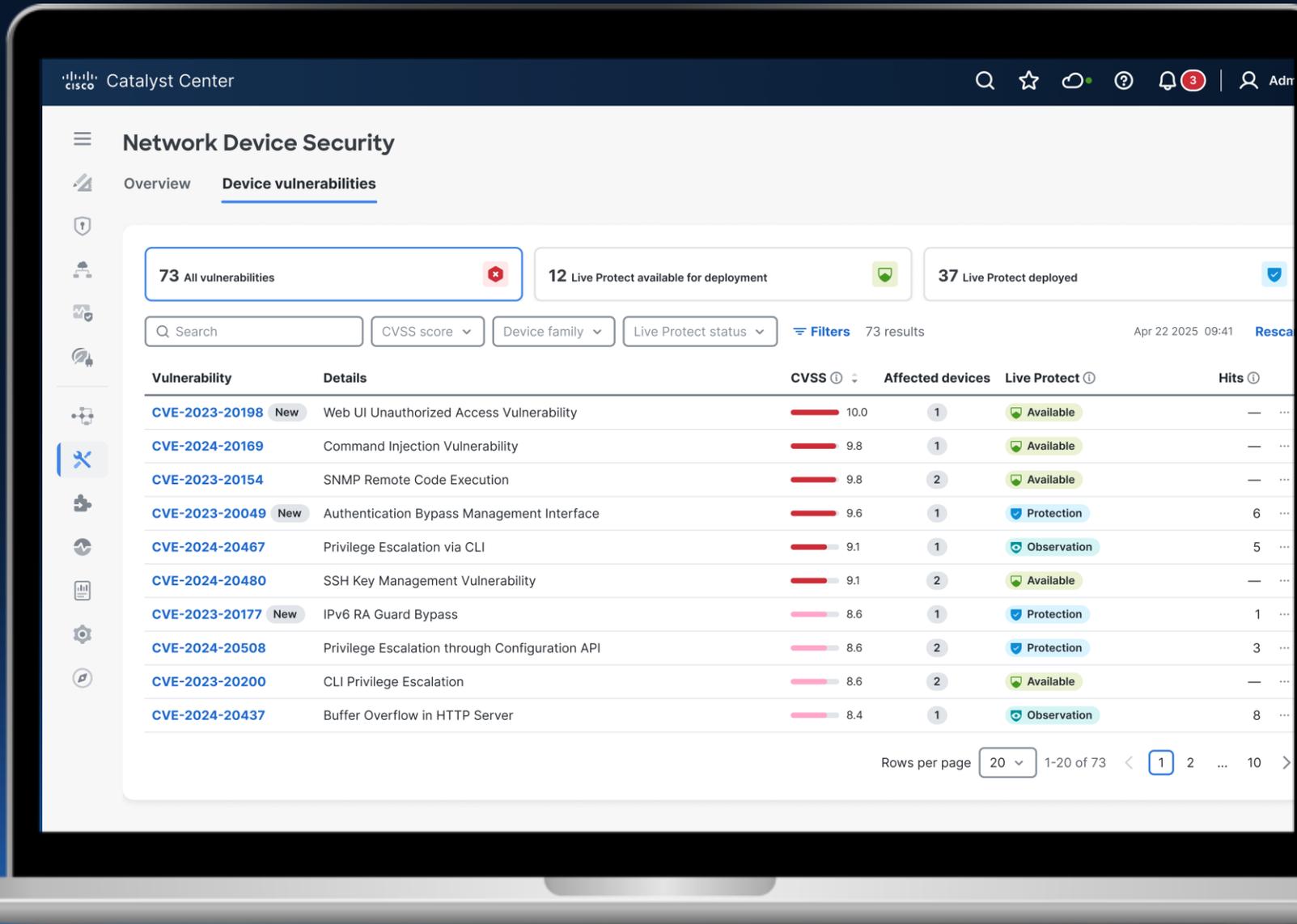
Secure from hardware to software, from boot time to runtime



FUTURE

# Live Protect

Mitigate new threats in near-real time—without upgrading image or rebooting device



# Network Device Security

Overview Device vulnerabilities

73 All vulnerabilities 
12 Live Protect available for deployment 
37 Live Protect deployed

Filters 73 results
Apr 22 2025 09:41
[Rescan](#)

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

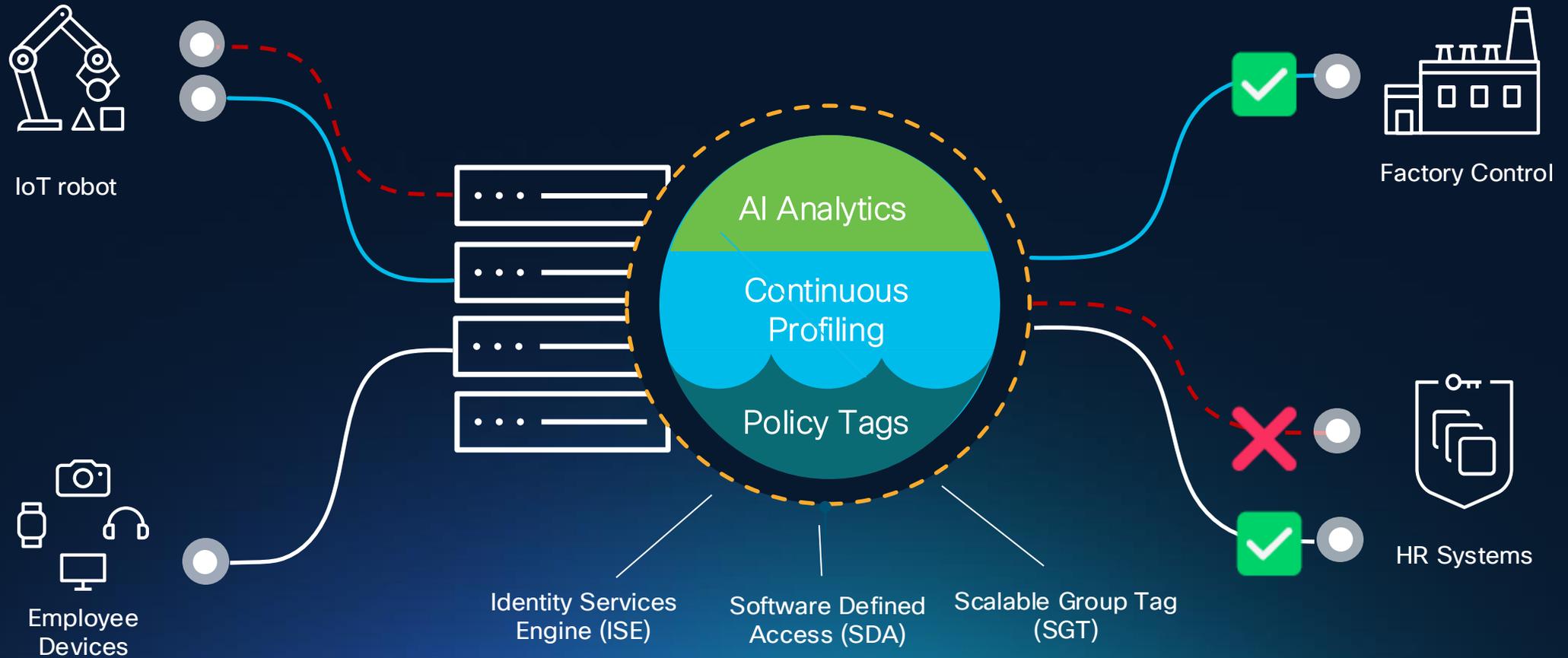
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# Securing Network Connectivity

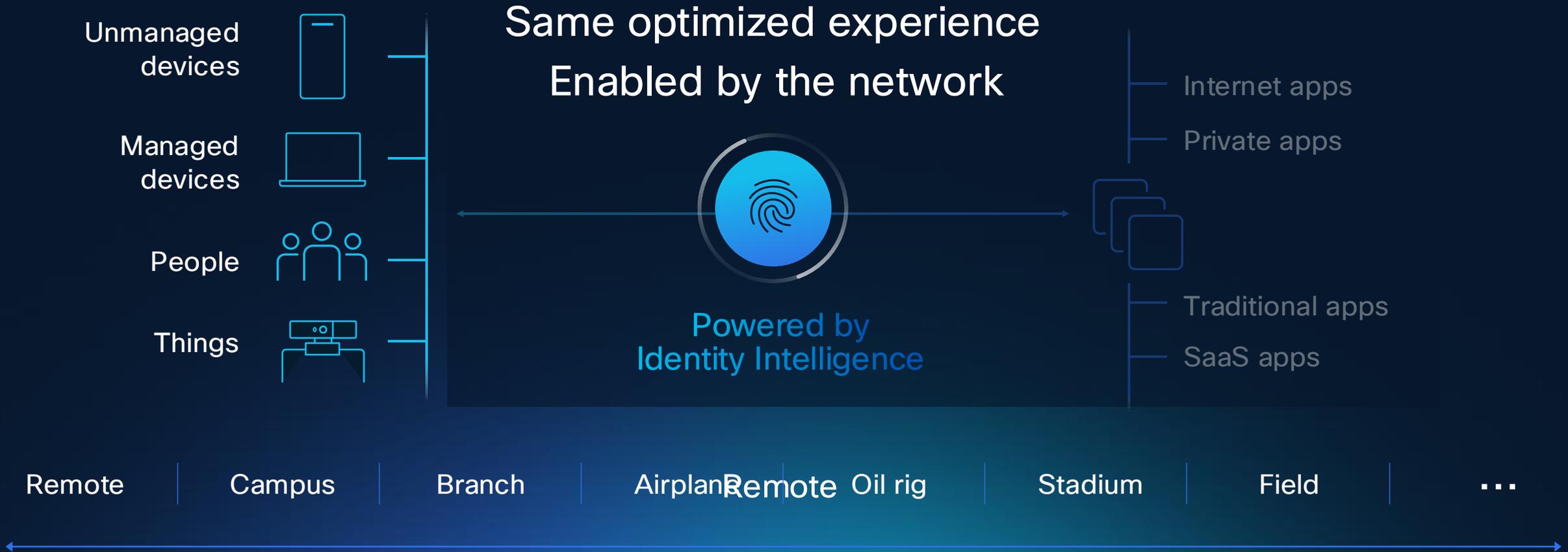


# Securing Network Access

Scalable microsegmentation to protect every connection



# Securing Users, Device Access to Apps with Universal ZTNA from Cisco



# Challenges in the Branch

**Growing  
operational  
complexity**



**Rising security  
vulnerabilities**



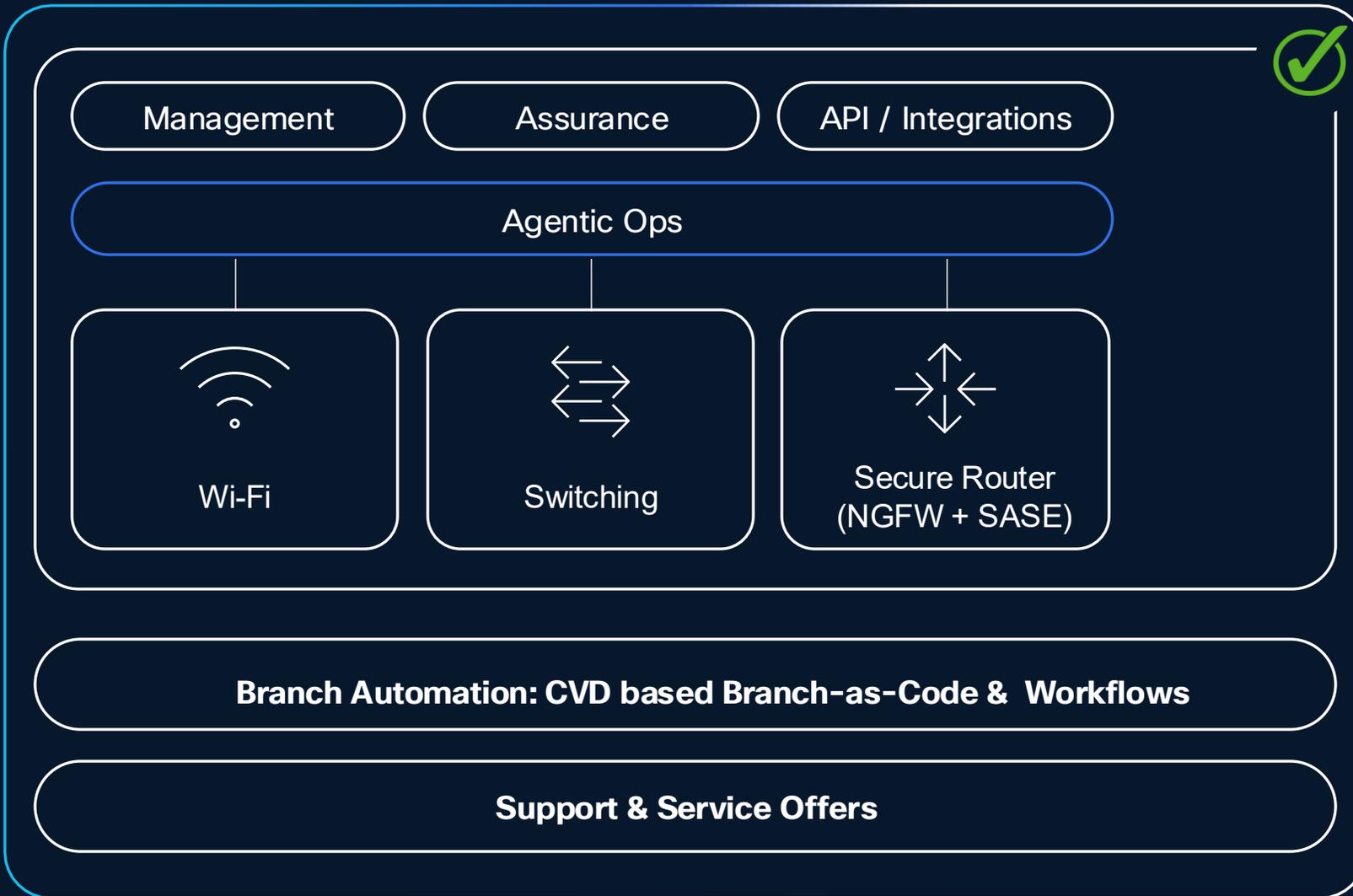
**Lean IT teams &  
talent shortages**



**Demanding apps  
and new AI  
workloads**



# Introducing Unified Branch: Platform Led Secure Networking Architecture



Full stack + platform led architecture: Secure WAN services, Switching and Wi-Fi

[ThousandEyes](#) - proactive, end-to-end visibility, performance insights, and assurance.

[New automation toolkit](#) - Branch as Code and workflows -prebuilt data model and automation to deploy Branch at scale.

[Cisco Validated Design](#) - recommend and tested branch designs for reliable & resilient operation.

[Aligned Support & Service offers](#)  
Enhanced support for Unified Branch streamlines & enhances customer care

# Automation to Scale Operations

Little Automation

Dashboard

- Manual configuration and deployment
- Ideal for lean IT

Partial Automation

Workflows

- Custom and pre-built workflows
- Ideal for NetOps

Full Automation

Branch as Code

- Infrastructure as code data models using Terraform
- Ideal for Enterprises and Partners with DevOps Teams

# Unified Branch Demo Using AI Assistant + Workflows

Thank you



