The AI-Ready Campus & Branch: Powering Smart Workplaces and Secure, Scalable Networks

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Today’s journey for this session

Agentic AI

Current industry trends and challenges

Architecture for Secure Campus

Building blocks for future-proofed workplaces

Beyond the Network at the Campus

Network as a sensor for additional use cases

Architecture for Secure Branch

Extending the network connectivity and security beyond the campus

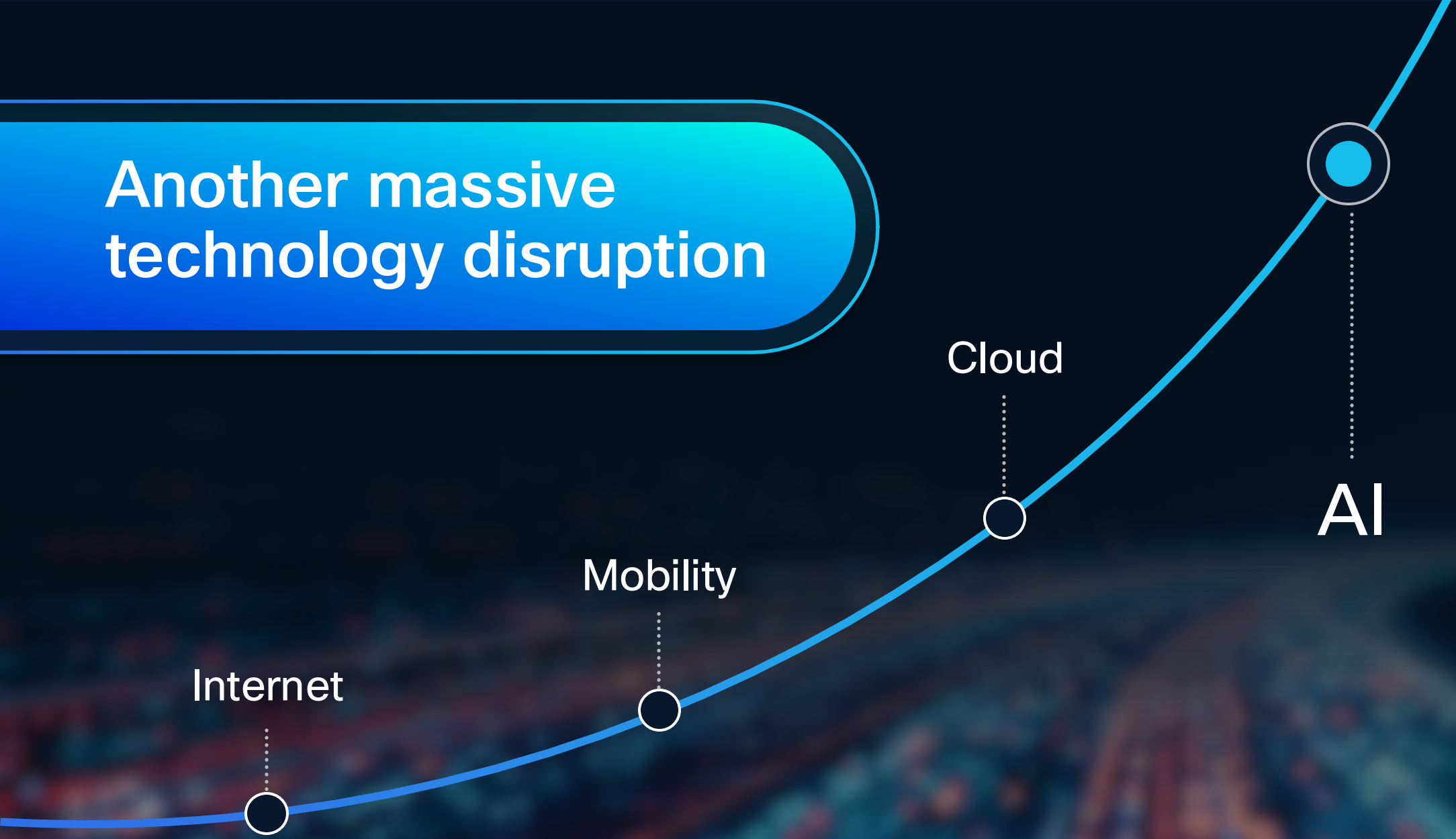
SASE

Exploring a security strategy for a hyper-distributed world

Key Takeaways

for the AI-ready campus & branch

Another massive technology disruption



AI is bringing changes and challenges

1,000s

AI Agents per enterprise expected

#1 risk

AI-enhanced malicious attacks

64%

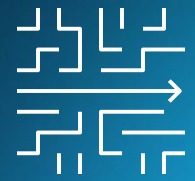
of orgs face IT skills shortage by 2026

Is your Campus Network AI ready?

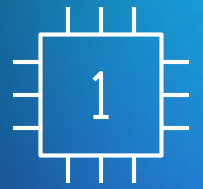
For explosive traffic, for increased security risks, for more complexity

Architecture for Secure Campus

Operational simplicity
powered by AI



Scalable devices
ready for AI



Security
fused into the network

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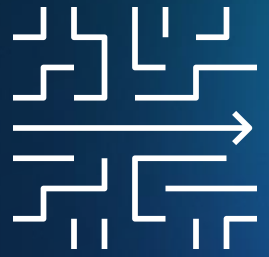
Operational simplicity powered by AI

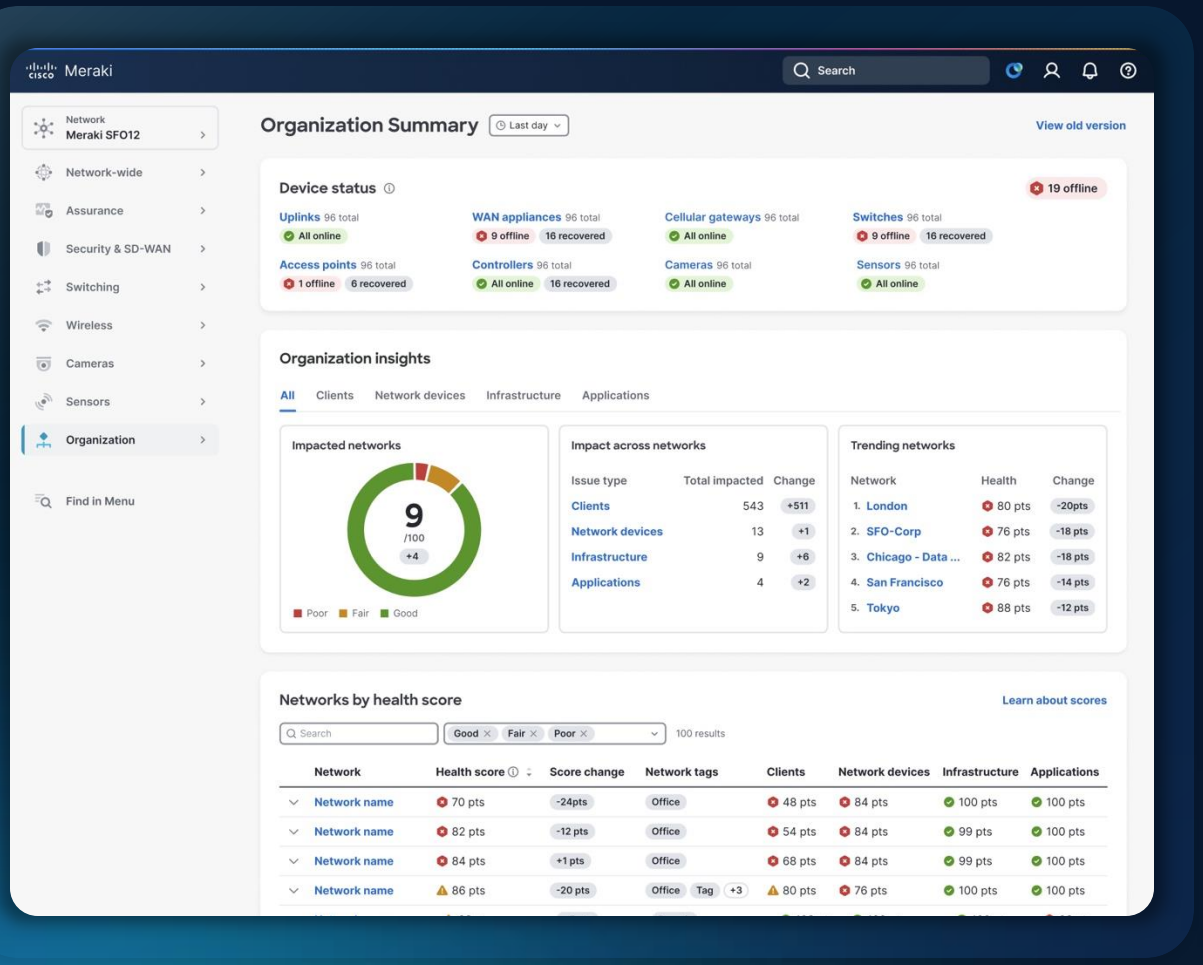


Unifying Catalyst & Meraki

Catalyst		Meraki
Catalyst Center	MANAGEMENT	**Meraki Dashboard**
Catalyst License	LICENSE	**Meraki License**
Catalyst Hardware	CISCO HARDWARE	**Meraki Hardware**

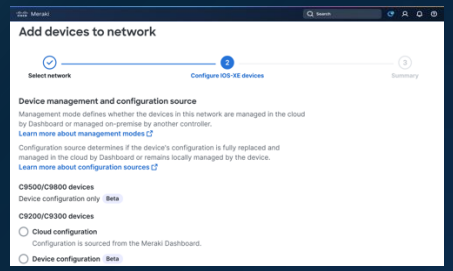
Unified Management – Catalyst and Meraki, any environment

- Seamless control across cloud, on-prem, or hybrid
- New enterprise campus capabilities
- AI-powered automation and assurance



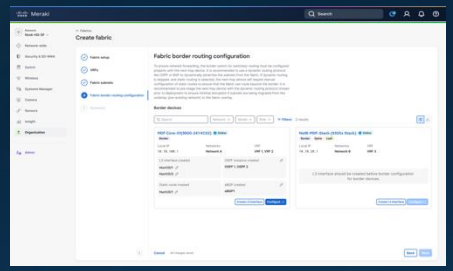
Large campus cloud capabilities

Powerful Switching Capabilities



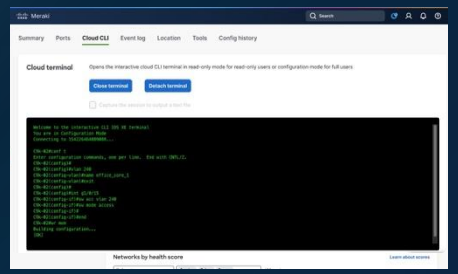
Support campus deployments with BGP, VRF, ISSU, and IOS XE stacking

Fabric for Secure Networking



Simplify NetOps with a secure fabric and micro/macro-segmentation

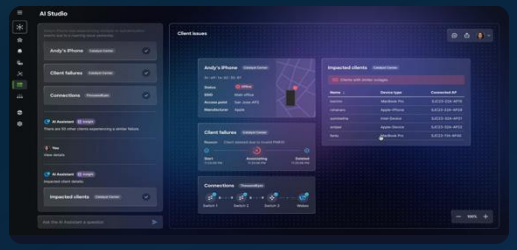
Cloud CLI for Flexibility



Simplify onboarding and flexibility with operating mode options and Cloud CLI

AgenticOps
The New Standard for IT Operations

ALPHA I OCTOBER



AI Canvas

Cross-domain collaborative troubleshooting

CONTROLLED RELEASE I OCTOBER

cisco AI Assistant

AI Assistant

Accelerate network operations

POWERED BY DEEP NETWORK MODEL

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

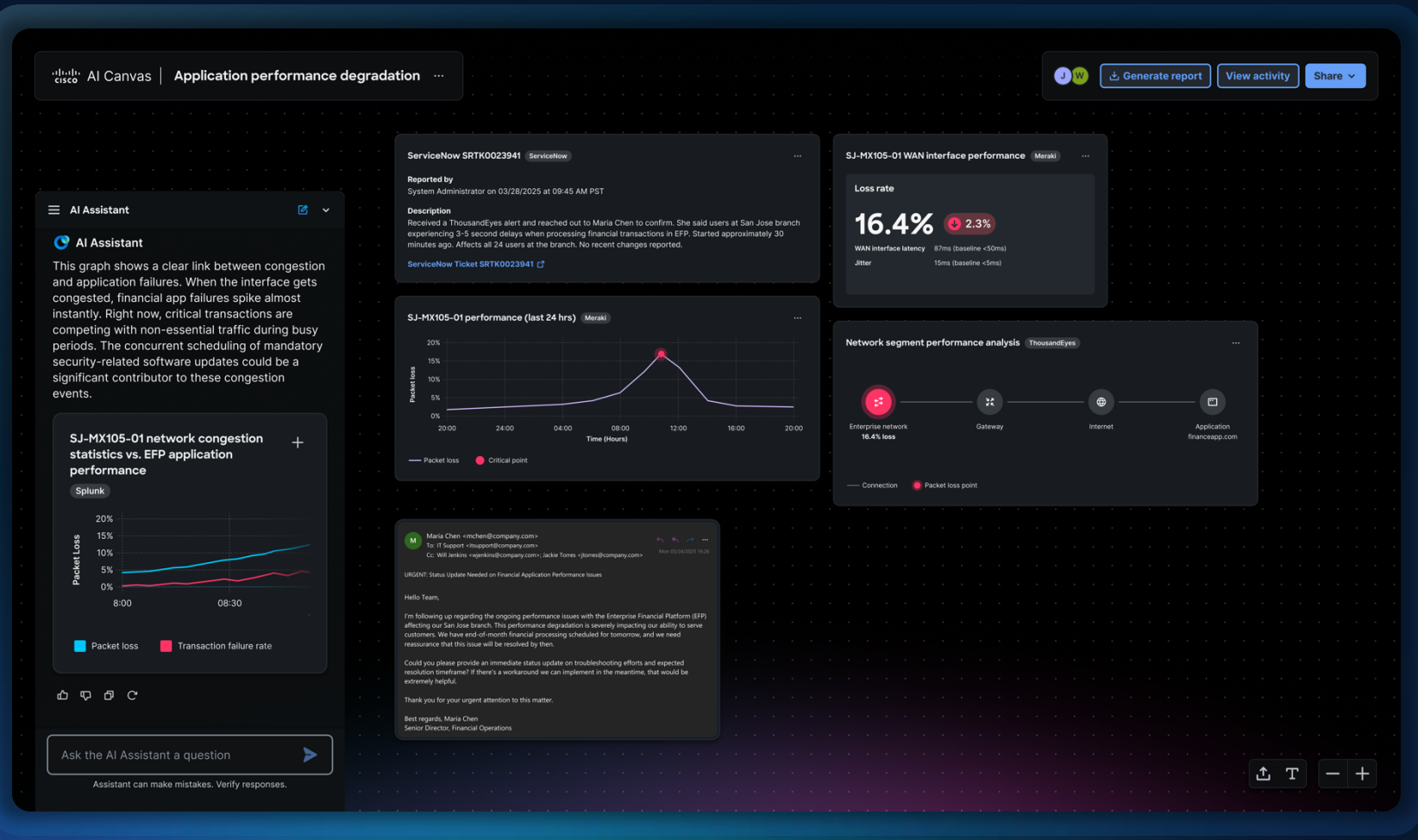
Catch critical issues **early with AI that sees across the stack.**

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

Troubleshoot faster together with shared context across teams.

AI Canvas

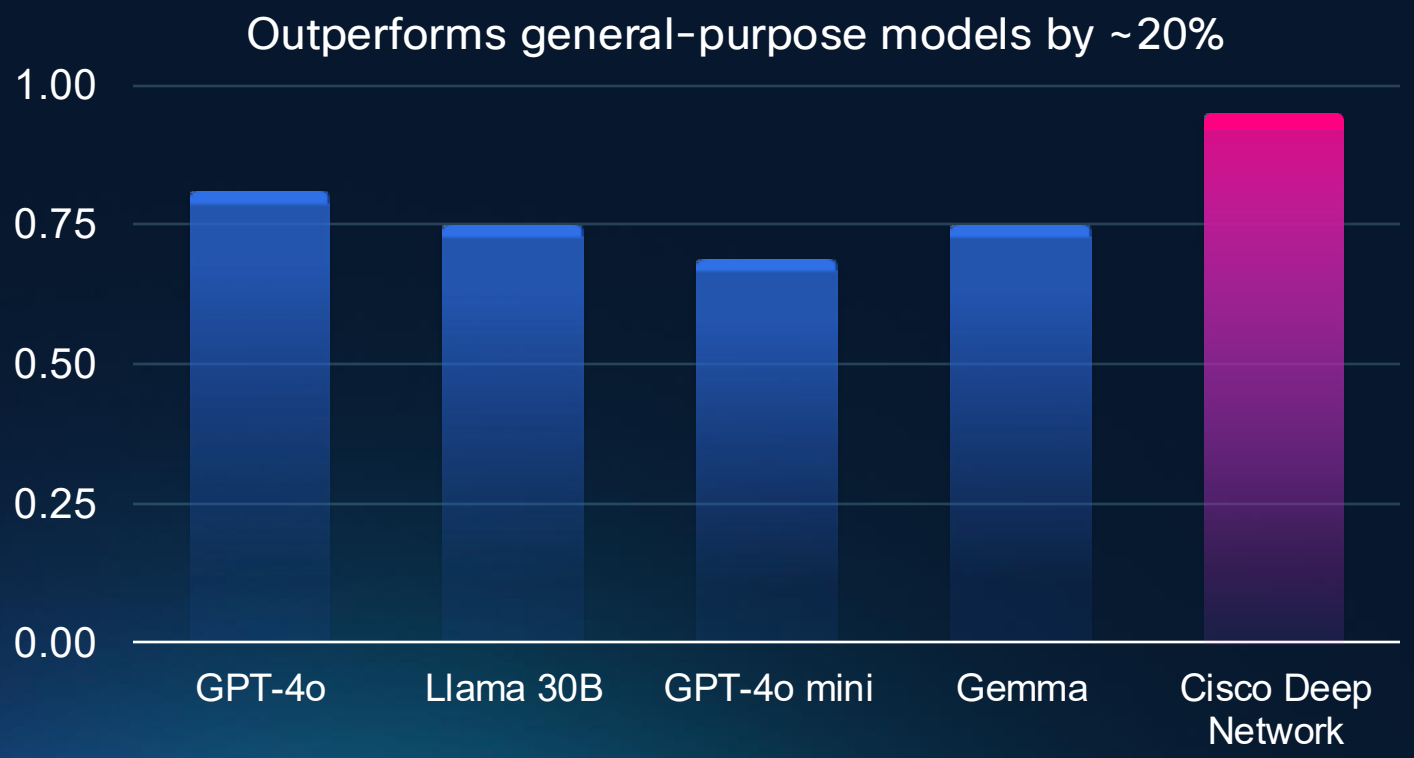
- Troubleshooting and execution across multiple domains
- Collaboration across multiple users (NetOps, SecOps and execs)
- Built on the foundation of the Deep Network Model



Deep Network Model

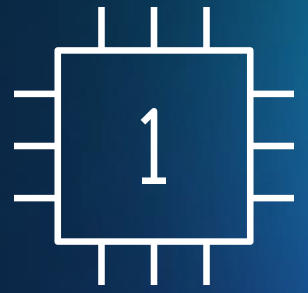
Purpose-built for networking, expert accuracy

- More precise reasoning for troubleshooting, configuration, and automation
- Fine-tuned on 40+ years of expertise and expert-vetted for accuracy
- Evolves with live telemetry and real-world Cisco TAC and CX insights



Accuracy on CCIE-style multiple choice questions (590-question benchmark), May 2025

Scalable devices ready for AI



What technologies make up the Secure Campus?

Catalyst Center | Meraki Dashboard

Wi-Fi

Wi-Fi 7
Wireless Controllers
Campus Gateway

Switching

Cisco Catalyst
Cisco Meraki
Cisco Smart Switches

Routing

Cisco Secure Routers
Cisco Catalyst 8000

ThousandEyes

Medium
Large

splunk> a cisco company

cisco SPACES

webex by cisco

cisco

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 & 9610 Smart Switches

AVAILABLE TODAY

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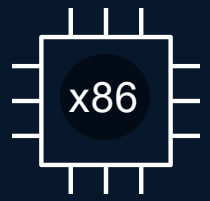
Introducing the Next Generation of Campus Switching

Silicon One ASICs, AI-Ready Infrastructure, Updated IOS-XE

Silicon One ASICs

Adaptability

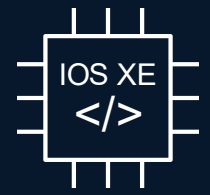
- Programmable at all layers
- Permits multiple use cases in a converged solution
- Virtual slicing for parallel processing



X86 Processor

AI Readiness

- Control-Plane scale for agentic-AI and AI agents at scale.
- Enhances Software-assisted Services (AVC/XDR)
- Advanced App-Hosting with AI-Hosting (Edge Compute)



Updated IOS XE

Security

- Supports post-quantum cryptography
- Trustworthy Linux kernel that securely hosts applications
- Leverage advanced Linux features for Cisco Live Protect

Smart Power, PoE Assurance and Energy dashboard

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More throughput to support increased traffic to data center

Advanced embedded NGFW for secure branch connectivity

Post-quantum secure

DevOps style Branch-as-code for rapid deployment

Introducing

Secure Routers for the AI-powered unified branch

Cisco 8000 Secure Routers

Cisco 8000 Series Secure Routers for every size location

Small Branch: 8100

4 Variants

IPsec:
Up to 1.5 Gbps

SD-WAN:
Up to 1 Gbps

Threat Protection:
Up to 1 Gbps

Medium Branch: 8200

2 Variants

IPsec:
Up to 5 Gbps

SD-WAN:
Up to 4 Gbps

Threat Protection:
Up to 2.5 Gbps

Large Branch: 8300

2 Variants

IPsec:
Up to 20 Gbps

SD-WAN:
Up to 15 Gbps

Threat Protection:
Up to 7 Gbps

Campus: 8400

3 Variants

IPsec:
Up to 45 Gbps

SD-WAN:
Up to 23 Gbps

Threat Protection:
Up to 11 Gbps

Data Center: 8500

2 Variants

IPSec:
Up to 45 Gbps

SD-WAN:
Up to 23 Gbps

Route Scale up to 8M

Wi-Fi 7 for every operational scale

NEW

CW9171I

4 spatial streams

Omnidirectional

Ceiling mount and wall plate form factor

CW9172 & CW9172H

6 spatial streams

Omnidirectional

Ceiling mount and wall plate form factor

NEW

CW9174I & CW9174E

8 spatial streams

Omnidirectional

External antennas

5Gbps

CW9176D & CW9176I

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

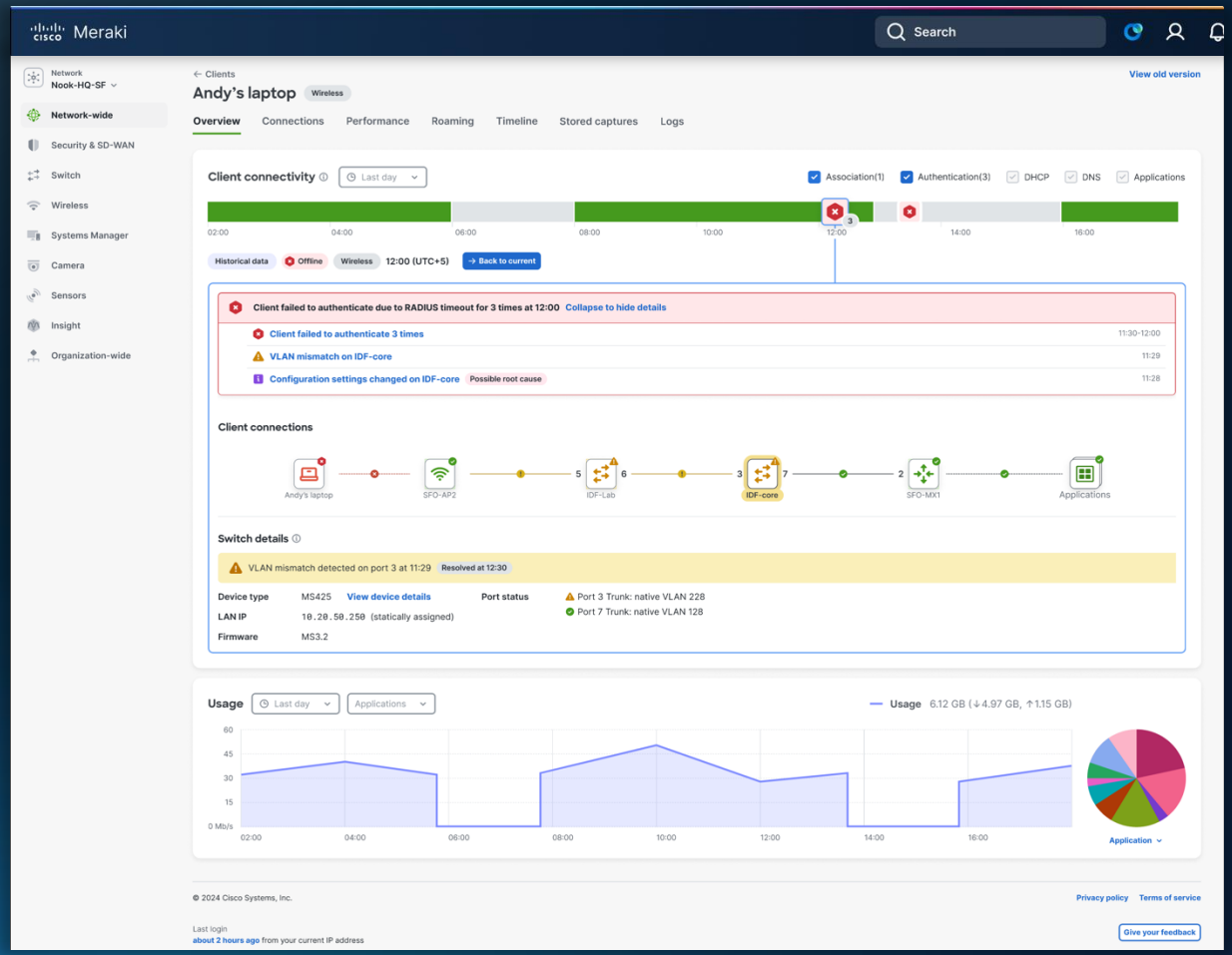
Cisco Campus Gateway

Role Play

AVAILABLE | NOW

Assurance across every digital experience

- Deep visibility across both owned and unowned networks
- AI-powered insights surface experience-impacting issues instantly
- Closed-loop workflows trigger automated remediation
- AI Assistant accelerates root cause analysis end-to-end



AVAILABLE | NOW

Intelligent Packet Capture

Reproducing Wireless Issues

- Difficulty replicating issues after occurrence

High Overhead Troubleshooting

- Often requires manual in-person packet captures

Lack of Live RF Visibility

- Most solutions offer only trend monitoring

Security fused into the Network

New threats attack networks directly

Attacks on Infrastructure

Exploits like Salt Typhoon that target unpatched software on key infrastructure

Attacks on Encryption

“Harvest now, decrypt later” attacks where encrypted data is extracted and stored, anticipating quantum computing.

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Security fused into the network

Securing network connectivity

Securing network access

Securing the device

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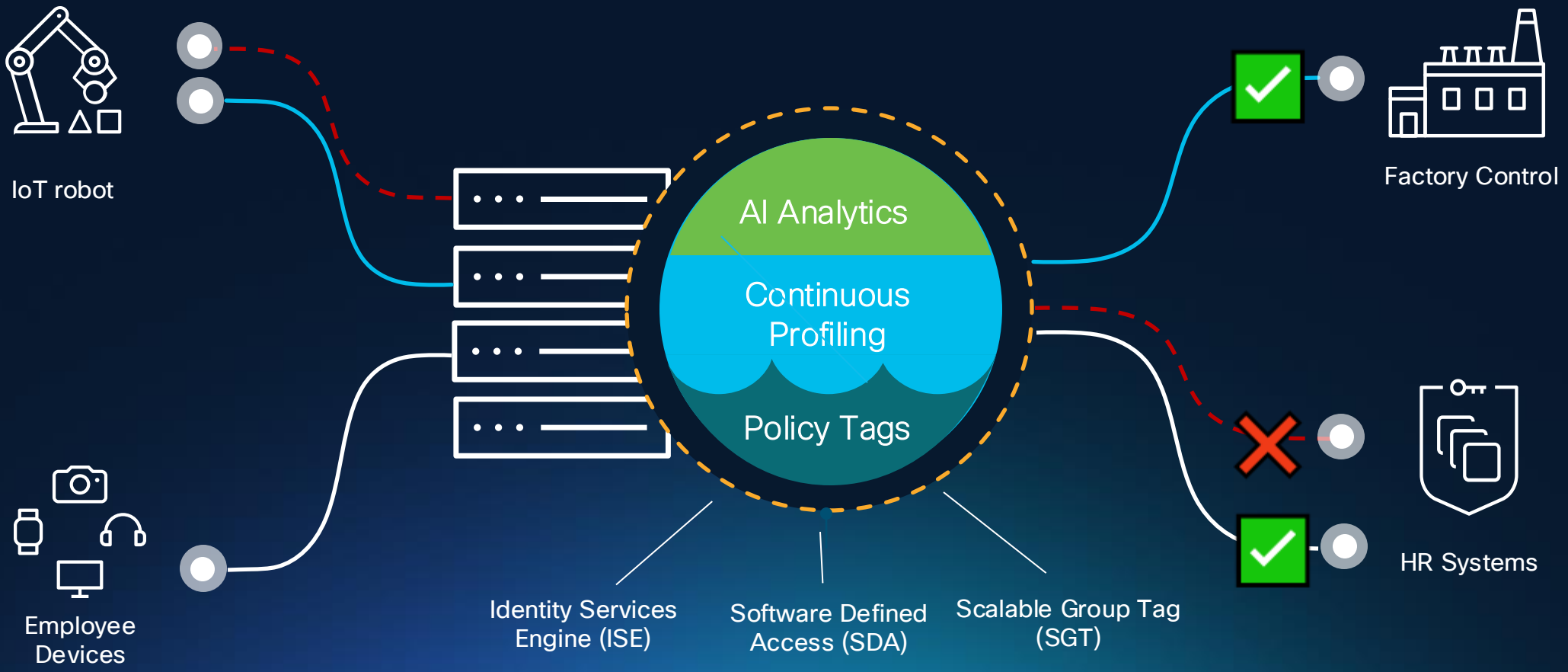
Securing network connectivity

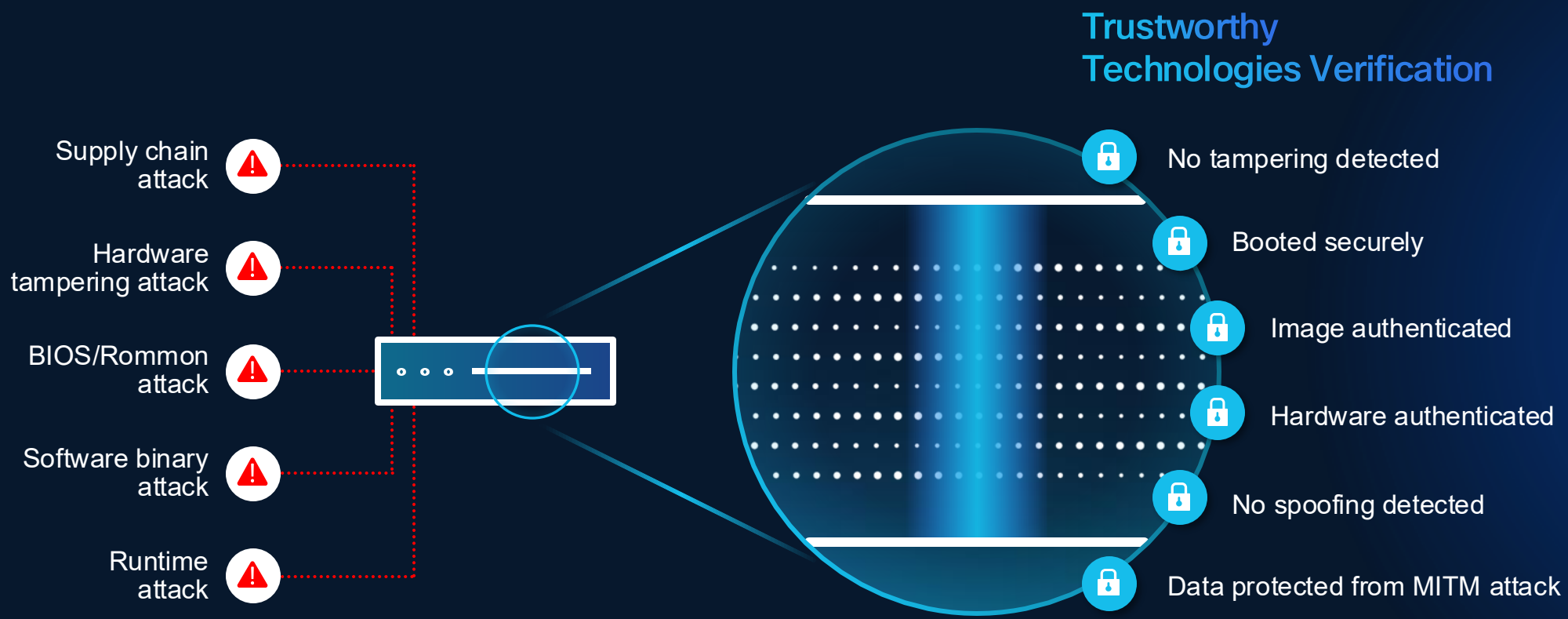
Securing network access

Scalable microsegmentation to protect every connection



Securing the device

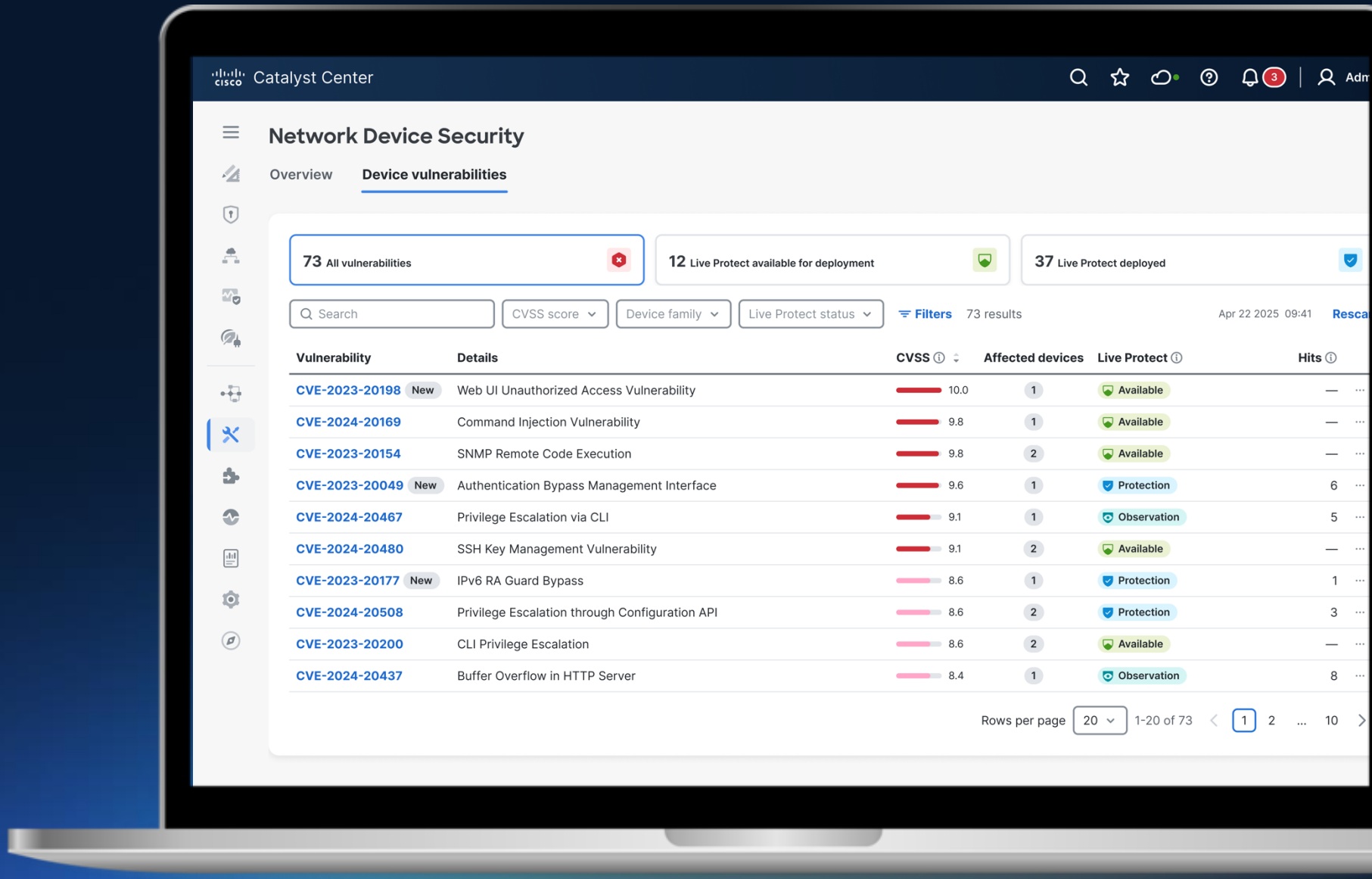
Secure from hardware to software, from boot time to runtime



FUTURE

Live Protect

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



Challenges in the branch

Growing operational complexity

Rising security vulnerabilities

Lean IT teams & talent shortages

Demanding apps and new AI workloads

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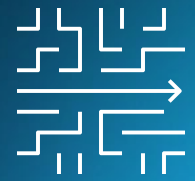
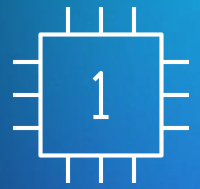
This requires a new branch architecture

Architecture for Unified Branch

Operational simplicity
powered by AI



Scalable devices
ready for AI



Security
fused into the network

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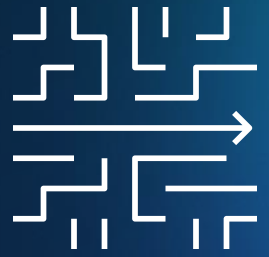
Operational Simplicity powered by AI



What products make up the Unified Branch?

Meraki Dashboard

Wi-Fi

Cisco Wi-Fi 7

Switching

Cloud-Managed Catalyst
Meraki Switching
Cisco Smart Switches

Routing+ Firewall+SASE

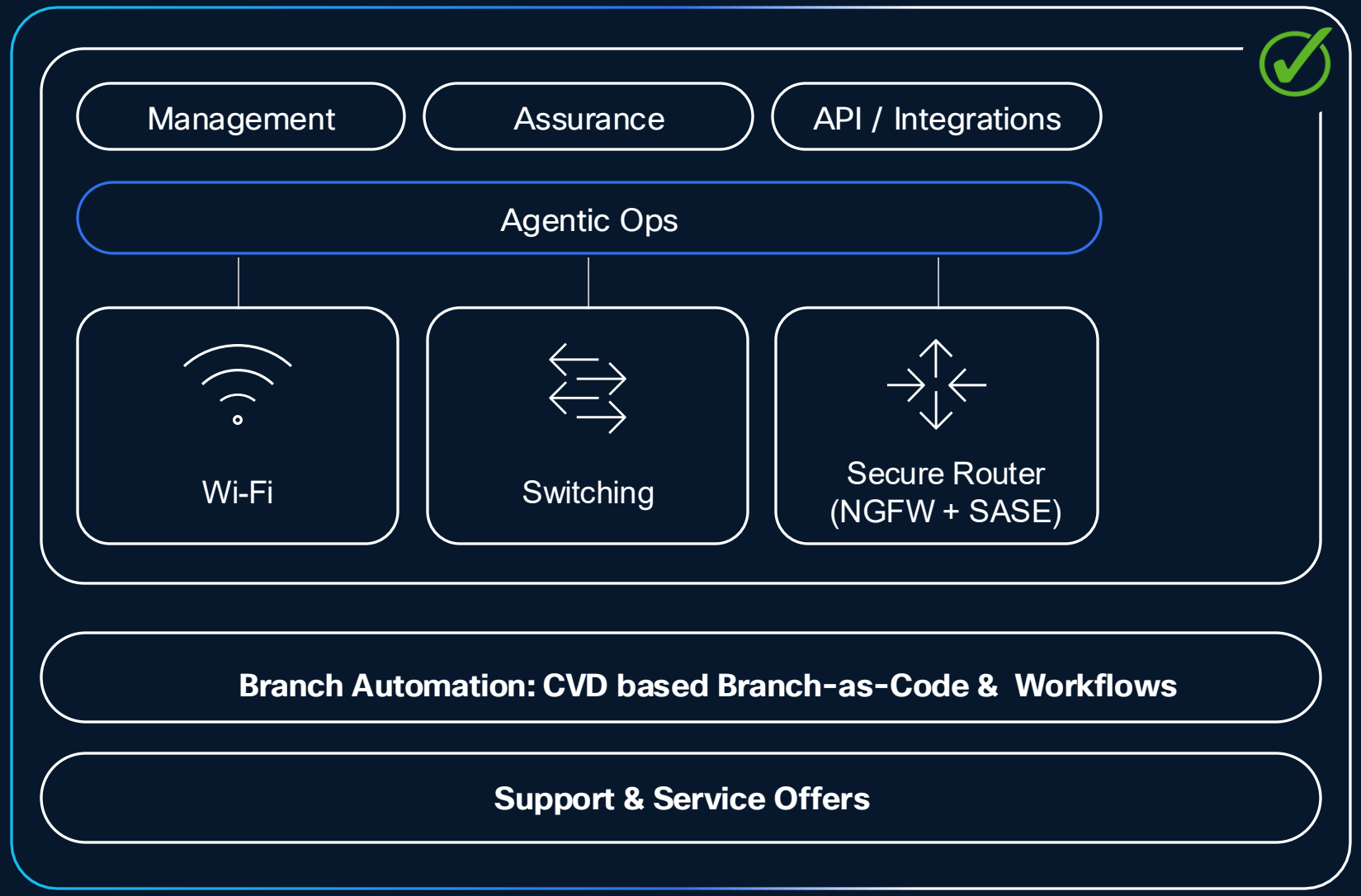
Meraki MX
Cisco Secure Routers
Secure Access + SASE

ThousandEyes

Small
Medium
Large

NetOps

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.

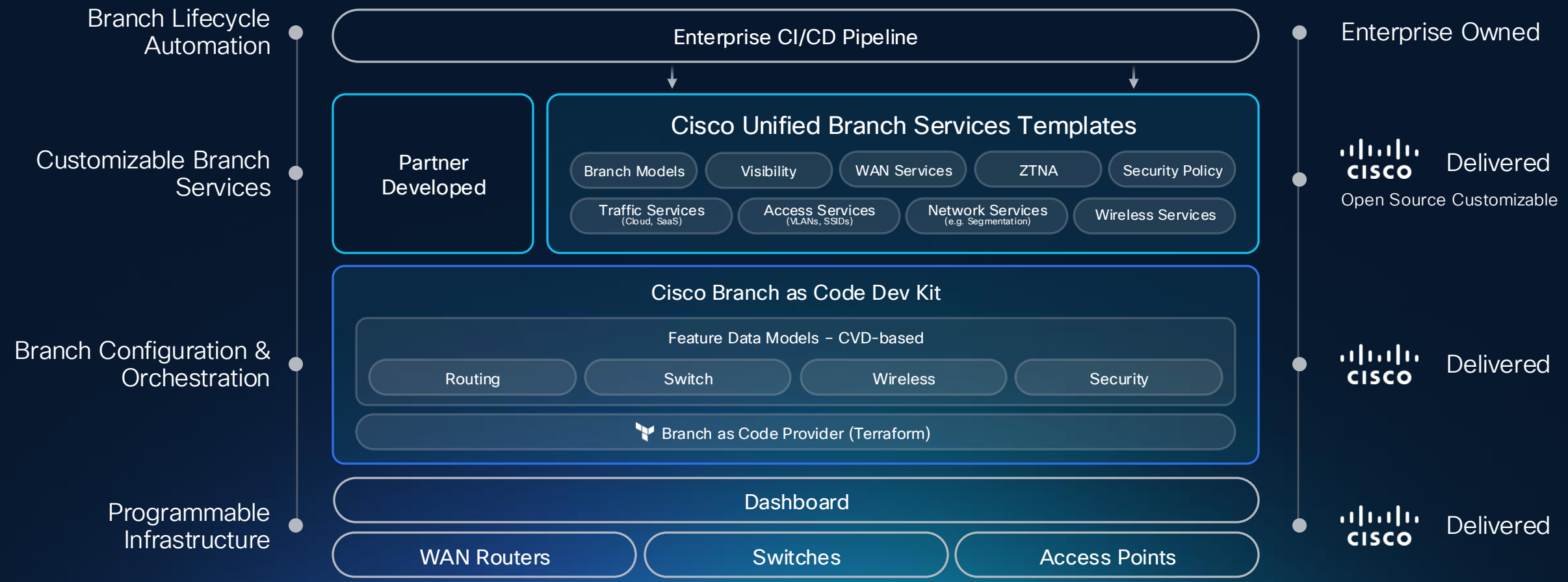
New automation toolkit - Branch as Code and workflows -prebuilt data model and automation to deploy Branch at scale.

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

Branch operations, further simplified with Branch-as-code

Large scale deployments with Branch as Code stack



Branch operations, further simplified with AgenticOps

Scalable branch devices ready for AI

Introducing the industry's most advanced secure router

Secure Networking Processor

Post Quantum Security capable
with 3x higher throughput

Advanced Security

NGFW and SASE with
3x Threat protection

Assurance

ThousandEyes with Traffic Insights
AI Troubleshooting

Cloud Management

IOS-XE managed by dashboard

Simplified Licensing

Cisco Networking & Routing Subscriptions

Cisco 8000 Series
Secure Routers

Secure Networking Processor

Purpose built for the Future AI Workloads

C8400, C8300, C8200, C8100 Series Secure Routers are powered by ‘secure networking processor’

Security

- Inline Crypto
- PQC capable crypto engine
- Cisco Secure Firewall acceleration
- Built-in AI/ML inferencing engine

Networking

- Integrated hardware accelerators
- Various Ethernet standards– 2.5mGig, 5mGig, 10GE, 25GE
- Performance defined Power – 30%+ power saving
- Programmable uCode – feature parity

1.5 Gbps encrypted threat protection

Up to 3x price-performance

Integrated SD-WAN

Introducing

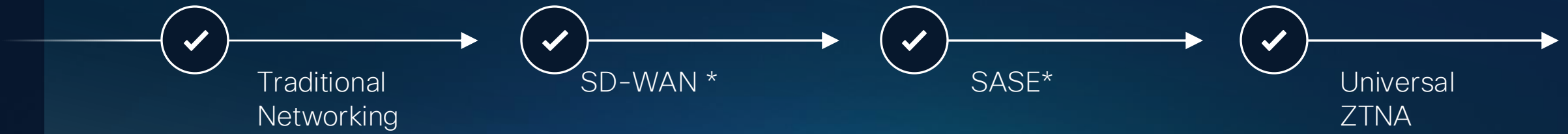
Advanced on-box threat inspection for the branch

AVAILABLE DEC 2025

Cisco Secure Firewall 200 Series

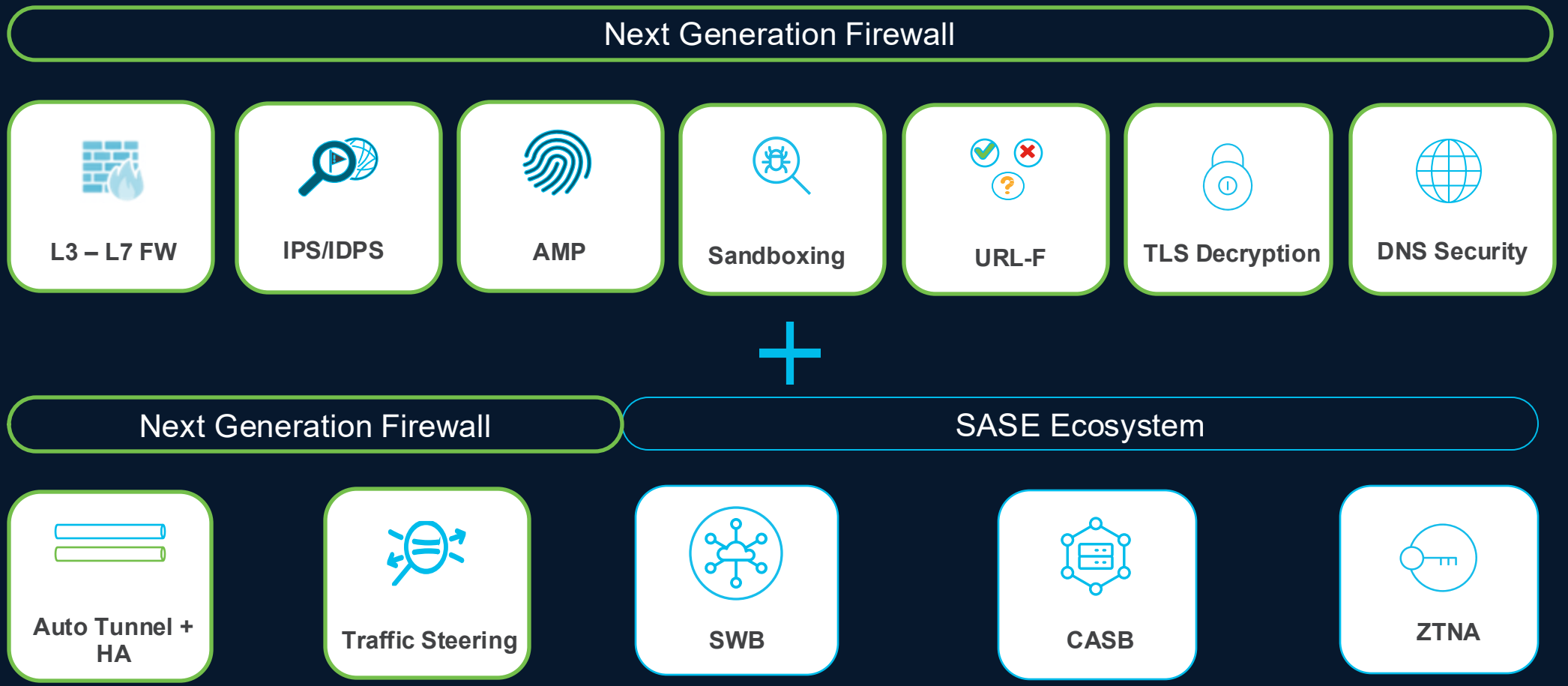
Security fused into the network

Cisco eases your journey to a future proof secure branch



*when combined this is known as SASE architecture

Secure Firewall embedded in the Secure Router



SASE: Secure Access integrated with Cisco SD-WAN

Your security strategy for a hyper-distributed world

SASE

Secure
SD-WAN

Converged set of cloud networking

+

Security
Service Edge

Converged set of cloud security

End-to-end Assurance with ThousandEyes

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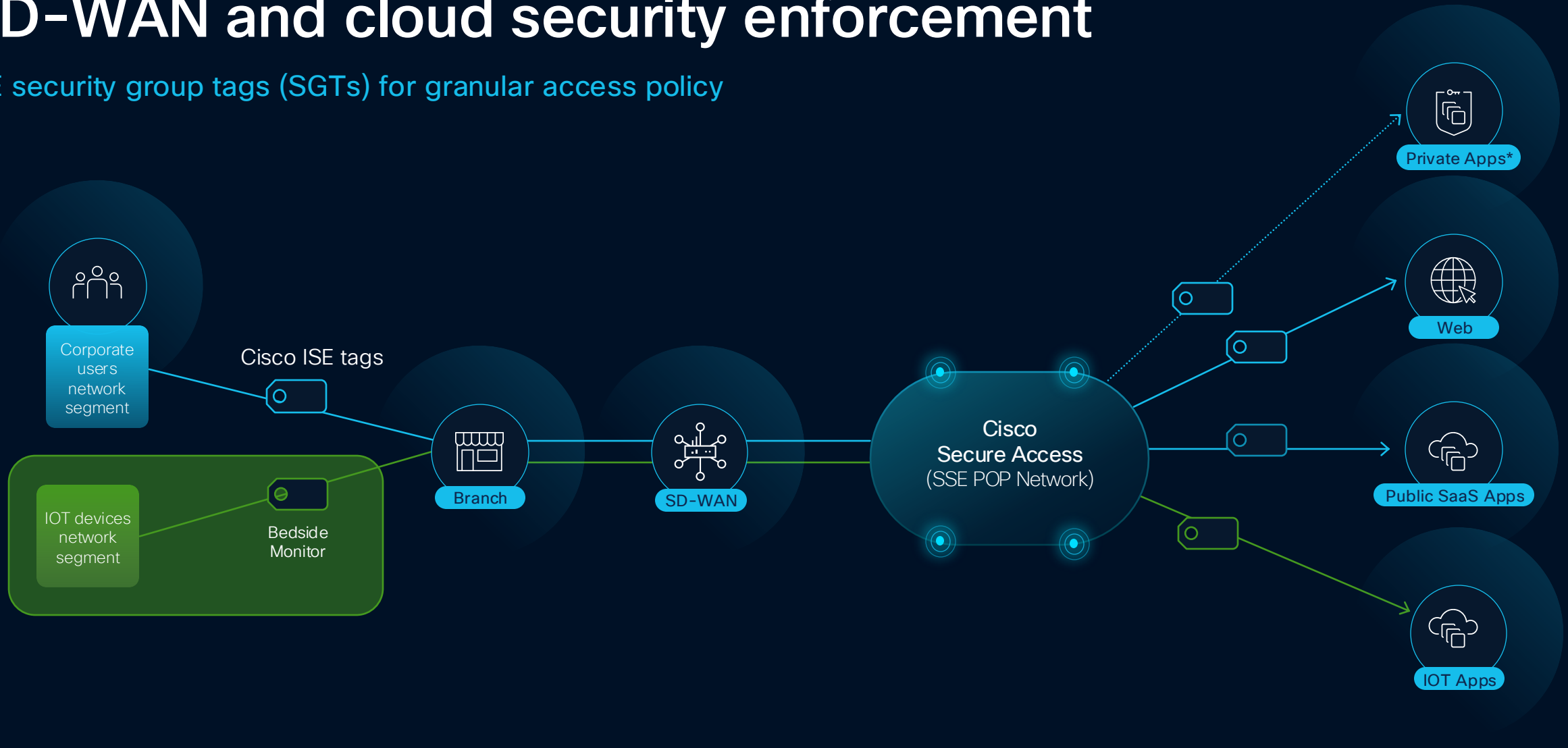
Extend consistent identity context across SD-WAN and cloud security enforcement

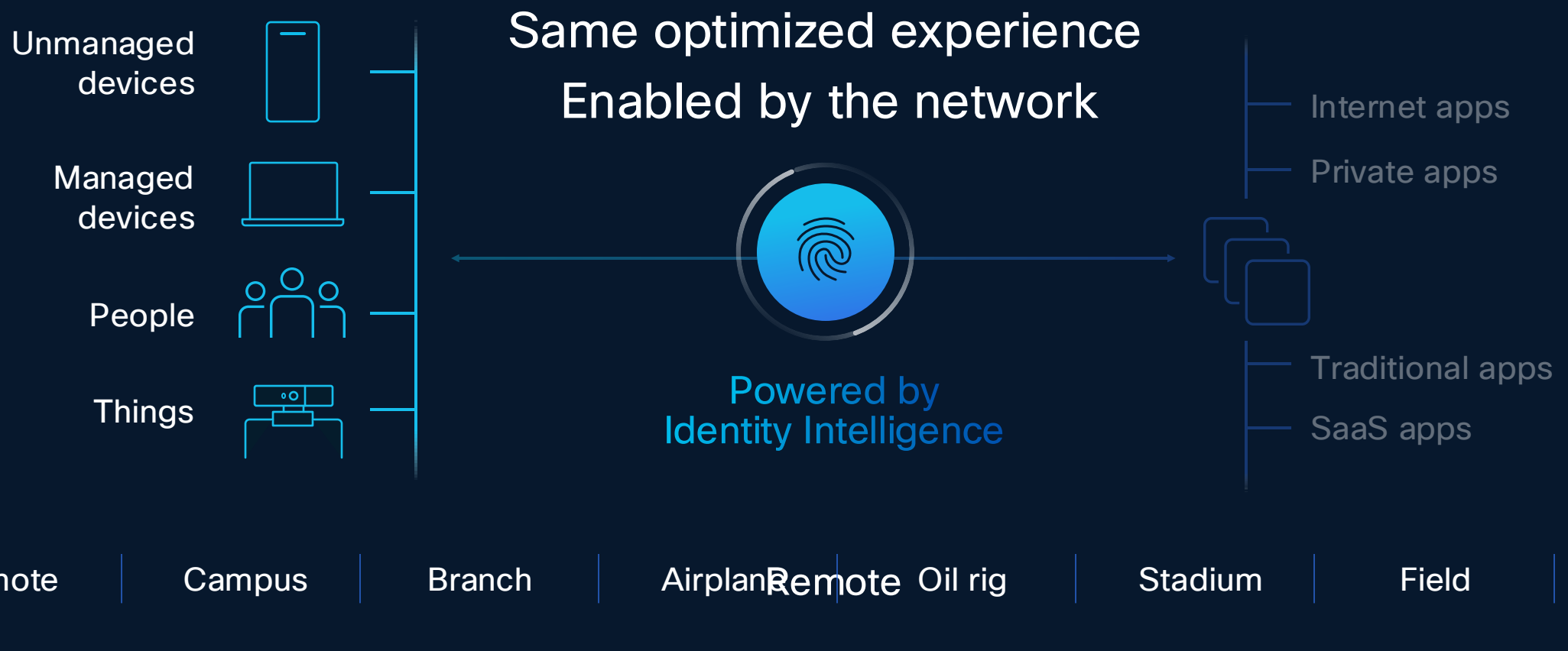
ISE security group tags (SGTs) for granular access policy



* Capabilities are planned but not yet available or guaranteed.

Centralized policy with distributed enforcement

Securing Users, Device access to Apps with Universal ZTNA from Cisco



Thank you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