CISCO Connect

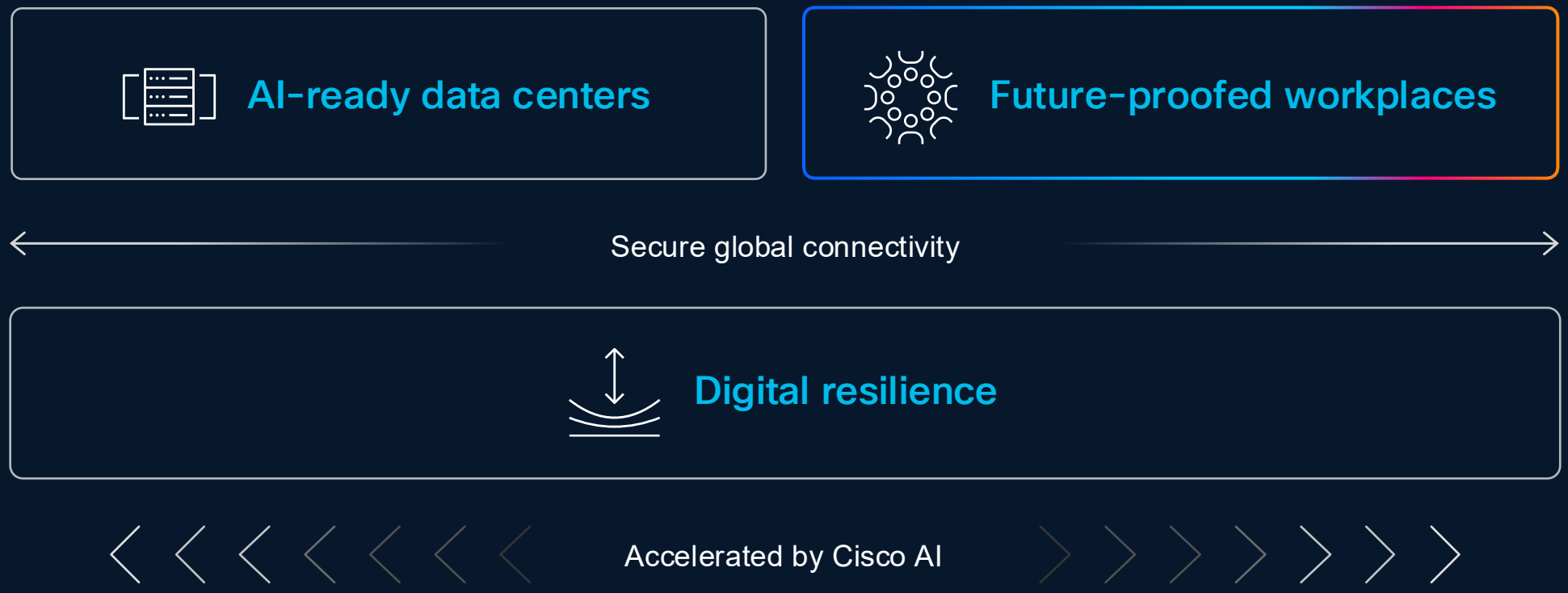
# Networking for the Agentic Era




Sam Miller
Solutions Engineer
Industrial Internet of Things, Northeast US Public Sector

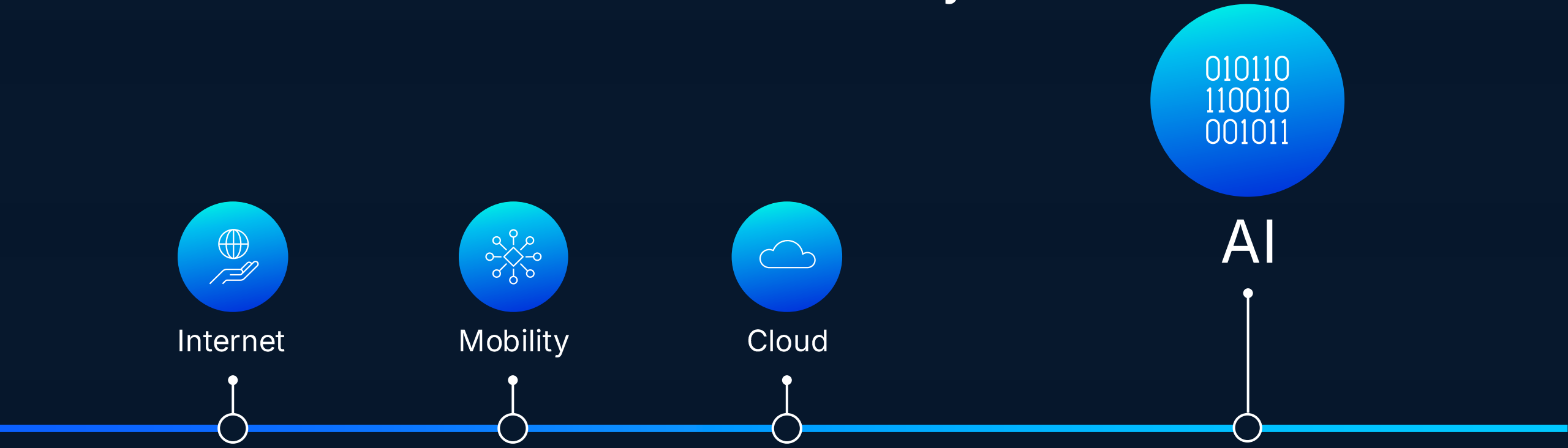
September 23, 2026

# Cisco powers how people and technology work together across the physical and digital worlds




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# AI is the biggest disruption we have seen yet




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# Creating new network demands

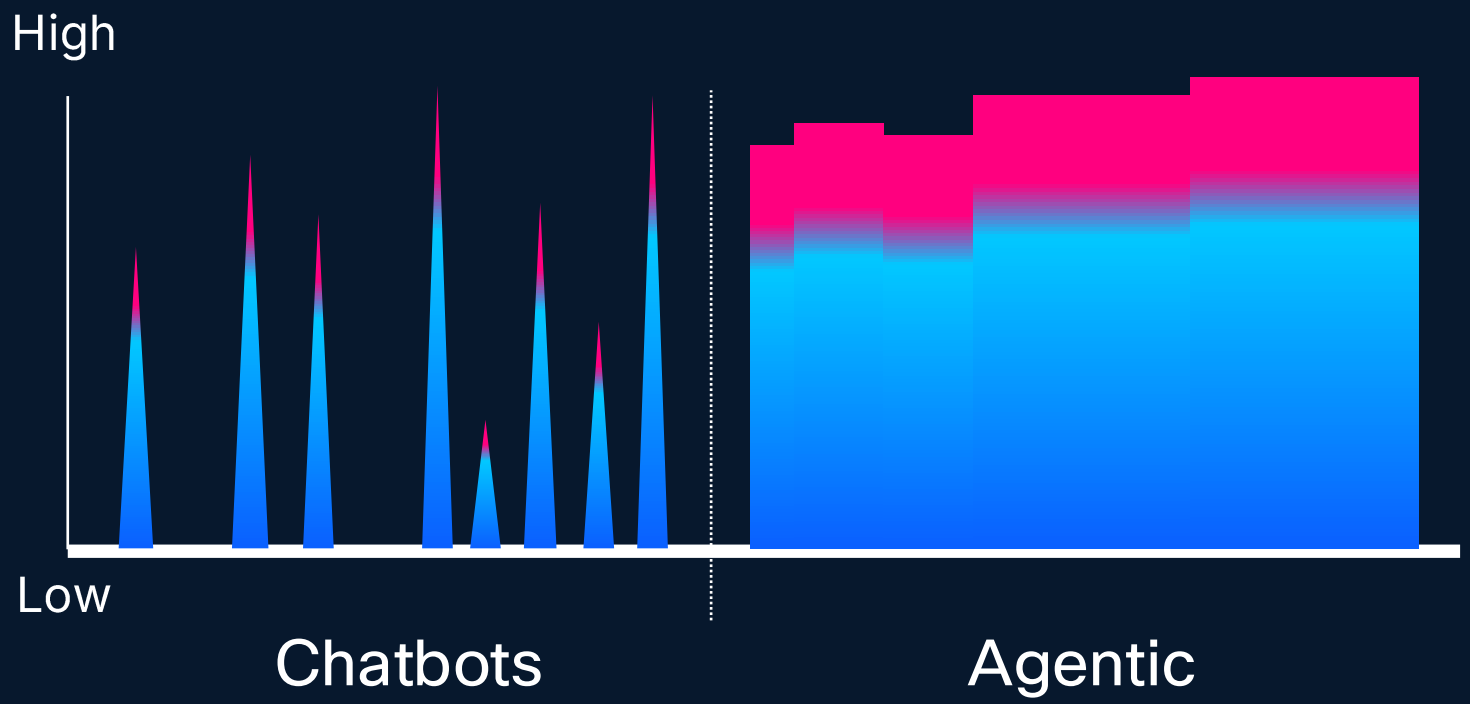
## Changing traffic patterns
Increased sustained east-west traffic

## 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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Our approach to addressing new AI demands:

# Architecture for the AI-ready secure network



Simplified operations powered by AgenticOps



Security fused into the network



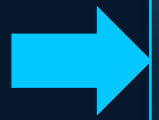
Scalable devices ready for AI

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Security fused into the network



Scalable devices ready for AI

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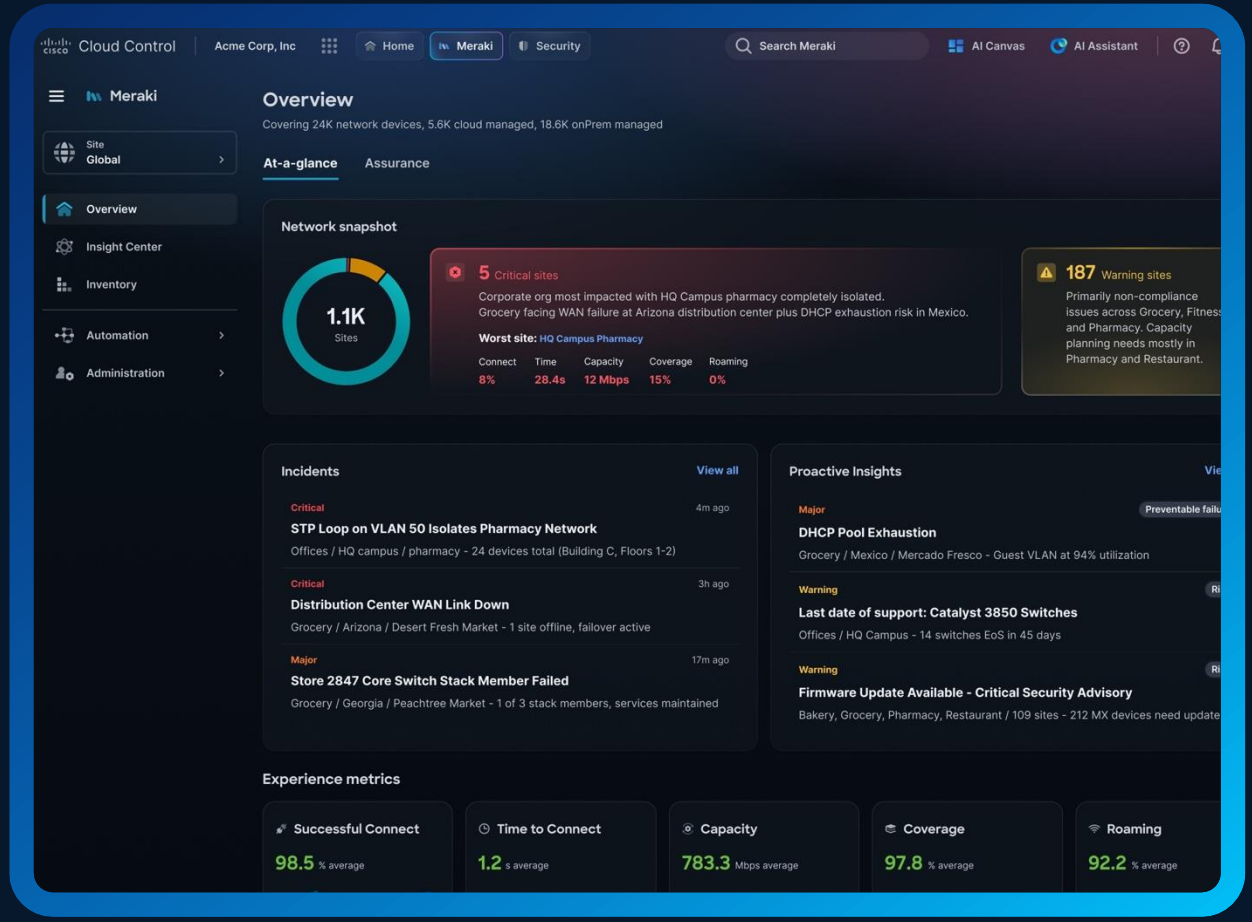
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# Cloud Control

## Unified management for operational simplicity

### Flexible deployments for cloud, on-prem, and hybrid

- Unified management experience
- Enterprise capabilities and scale
- AgenticOps-powered automation and assurance




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# Cloud management across the networking portfolio



## Wireless

Full wireless support

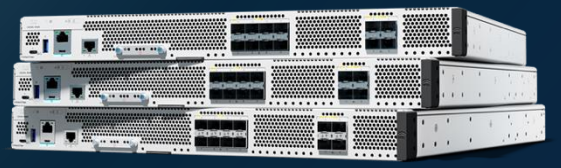
Scale large campus wireless with Campus Gateway



## Switching

C9400 & C9600 Modular switches

IE3500 Rugged Series Switching support



## Routing

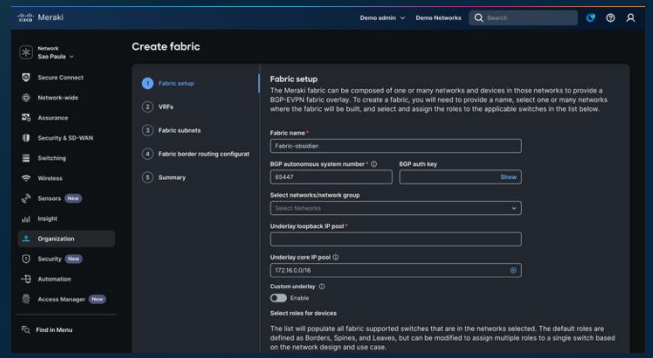
Expanded management for Secure Routers

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# Expanding enterprise capabilities

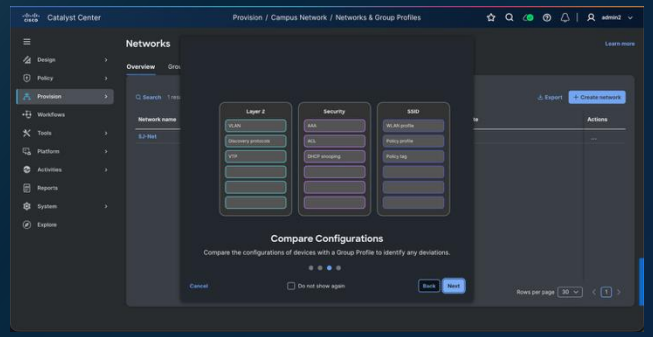
## Zero Trust cloud managed campus




Support campus deployments with cloud-managed fabric, BGP, VRF

Available

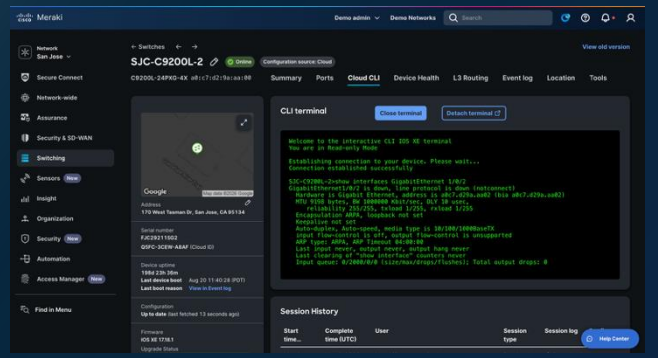
## Catalyst Center innovations




Rule-based compliance, Azure support, Campus Automation

Available

## Cloud CLI for flexibility




Flexibility with operating mode options and Cloud CLI

Available

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# AgenticOps

## Agentic Workflows

AI Assistant for Catalyst Center

Deep Reasoning for troubleshooting and validation (Beta)

Available

## AI Assistant

AI Created Workflows

Custom Agent Creation

Available

## Cisco Cloud Control

AI Assistant | AI Canvas | Agent Studio | Cisco dashboards | Third party & APIs



Cross-domain telemetry



Purpose-built models



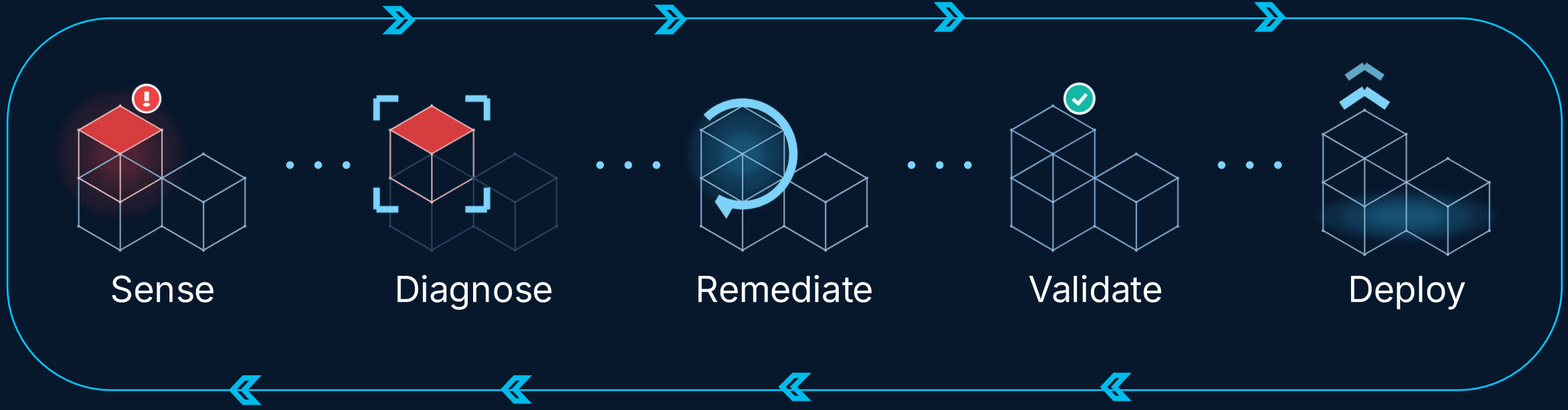
Trusted agents

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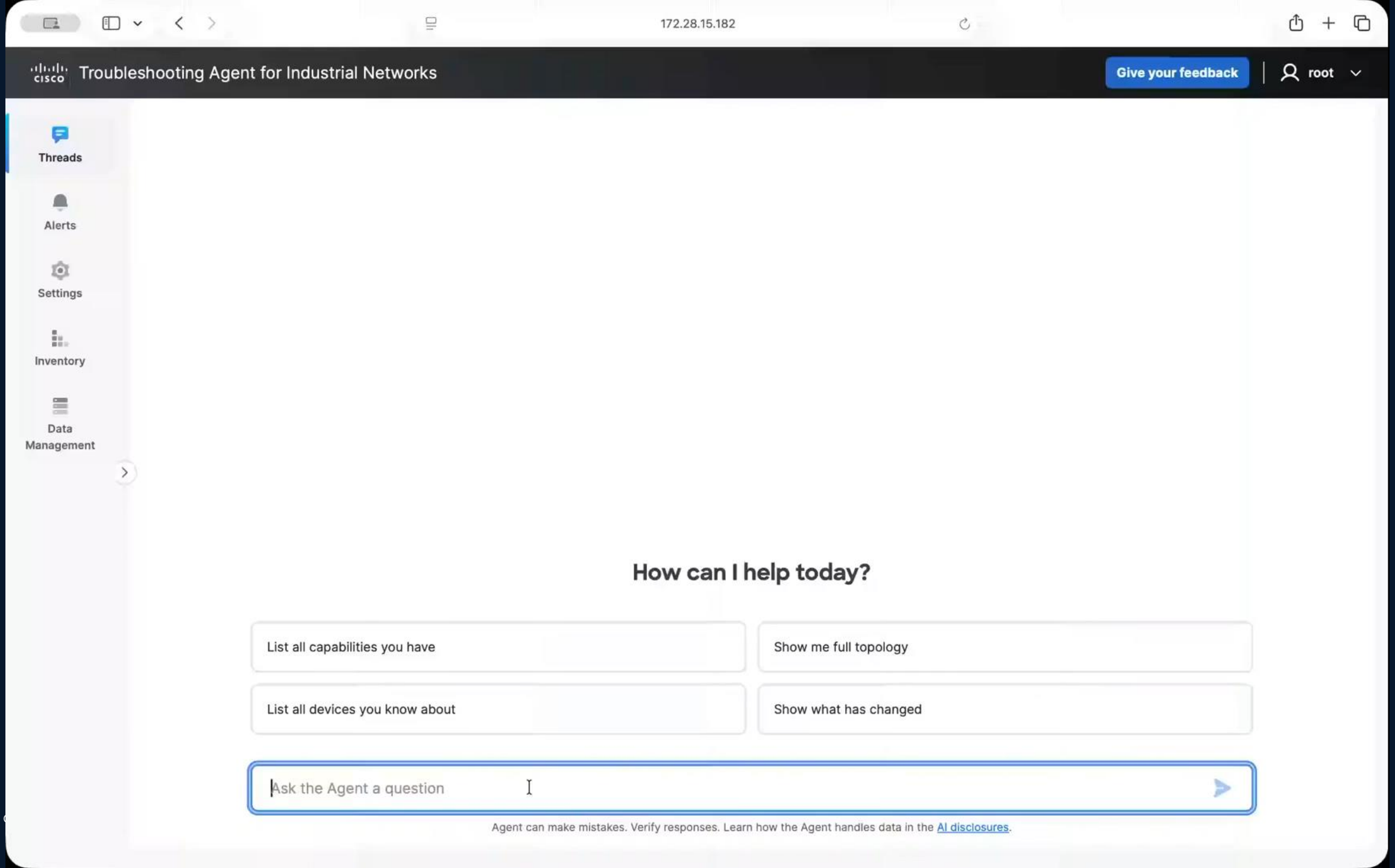
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# AgenticOps in practice

## Closed—loop automation

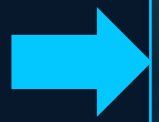



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172.28.15.182
Troubleshooting Agent for Industrial Networks
Give your feedback
root
Threads
Alerts
Settings
Inventory
Data Management
How can I help today?
List all capabilities you have
Show me full topology
List all devices you know about
Show what has changed
Ask the Agent a question
Agent can make mistakes. Verify responses. Learn how the Agent handles data in the AI disclosures.

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# Architecture for the AI-ready secure network





Simplified operations powered by AgenticOps



Security fused into the network



Scalable devices ready for AI

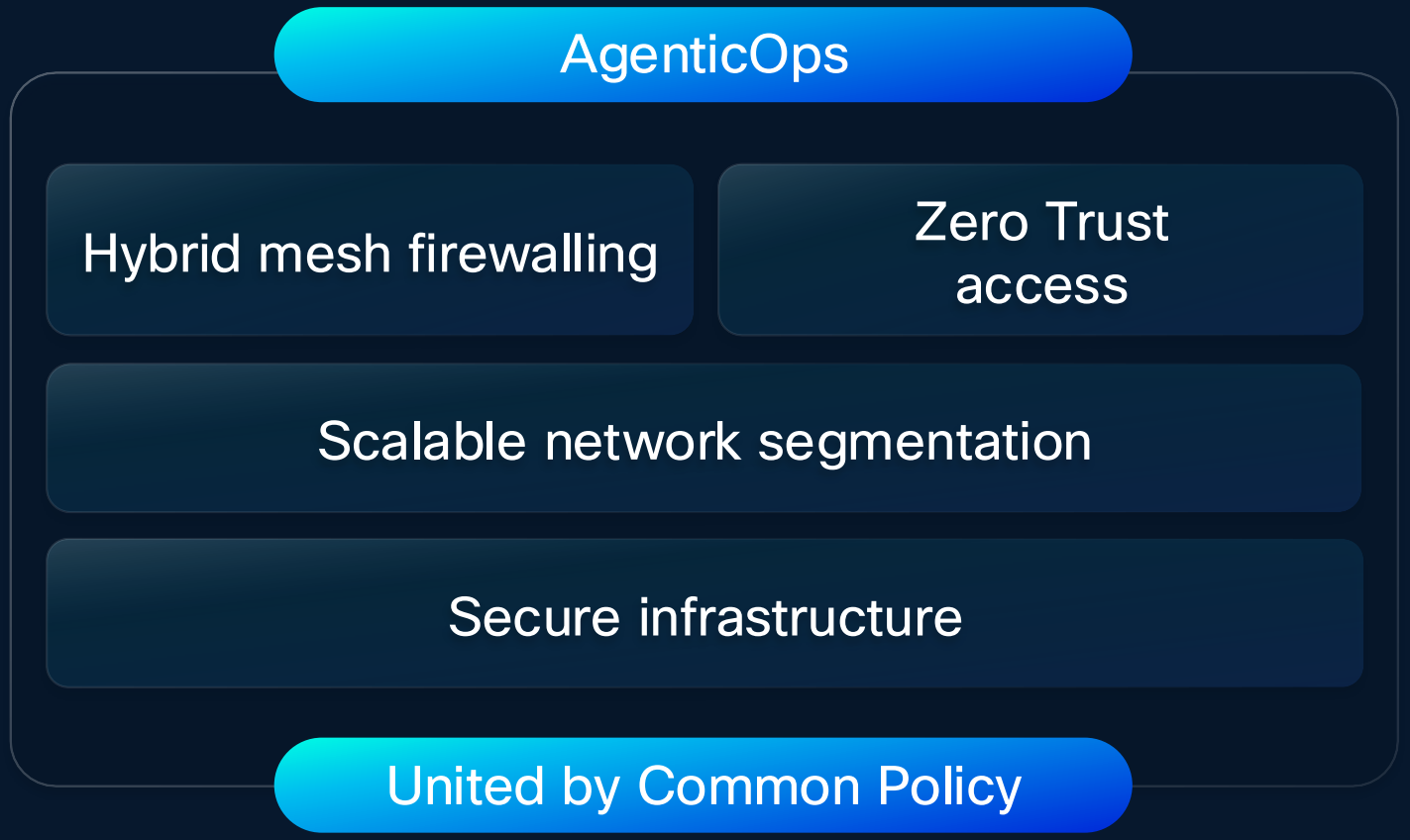
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Secure Networking Architecture

# Advanced security at every layer

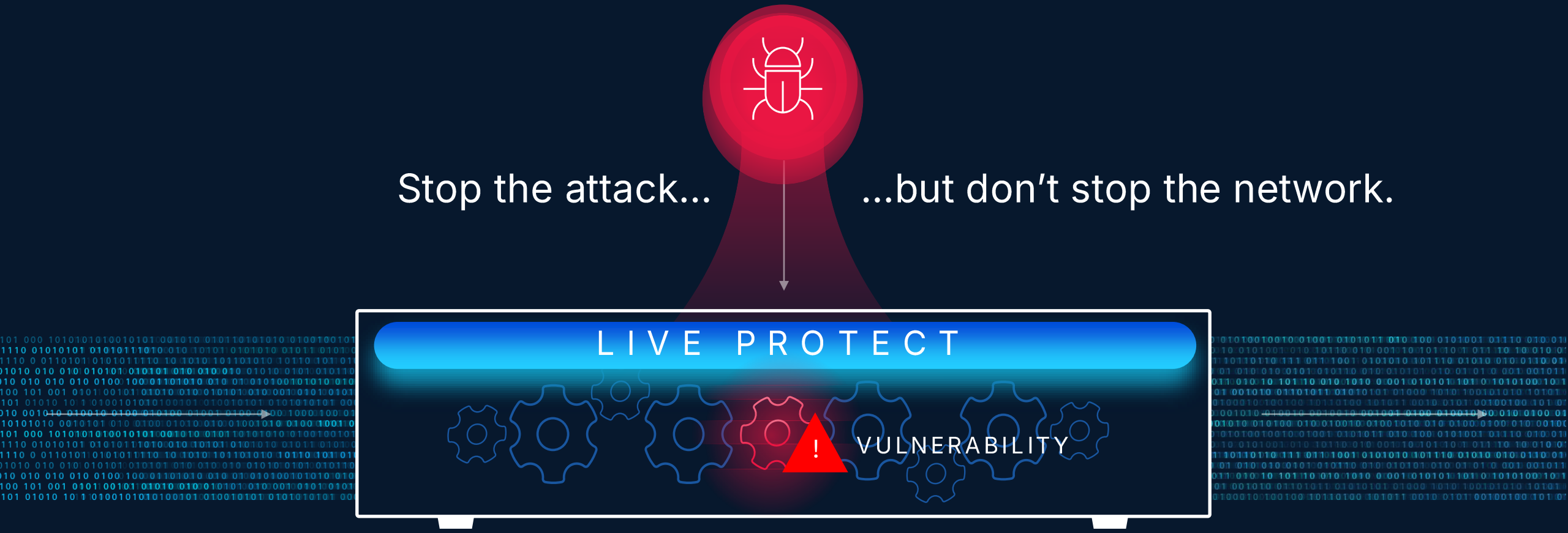
- Identity-first
- Continuously verified
- Enterprise-wide policies
- Comprehensive threat intel
- Distributed enforcement




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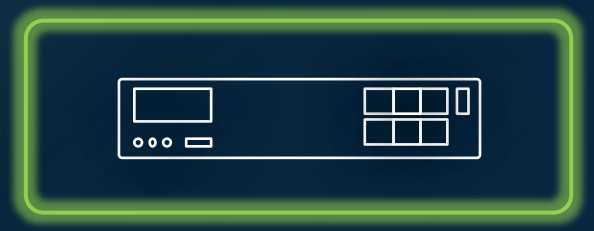
# Live Protect

Vulnerability shielding for Cisco networking devices




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# Live Protect capabilities

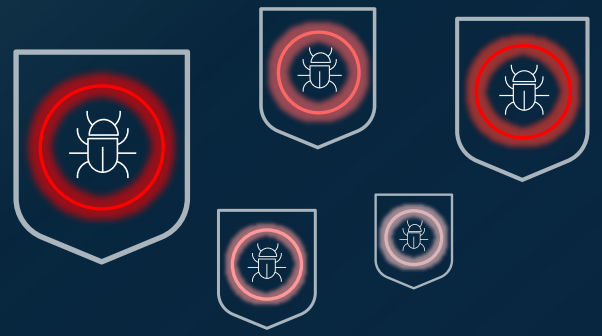


## Device hardening

Deprecate or restrict legacy features

### Example

Disable remote shell which is a common attack vector



## Vulnerability shields

Defend against new vulnerabilities

### Example

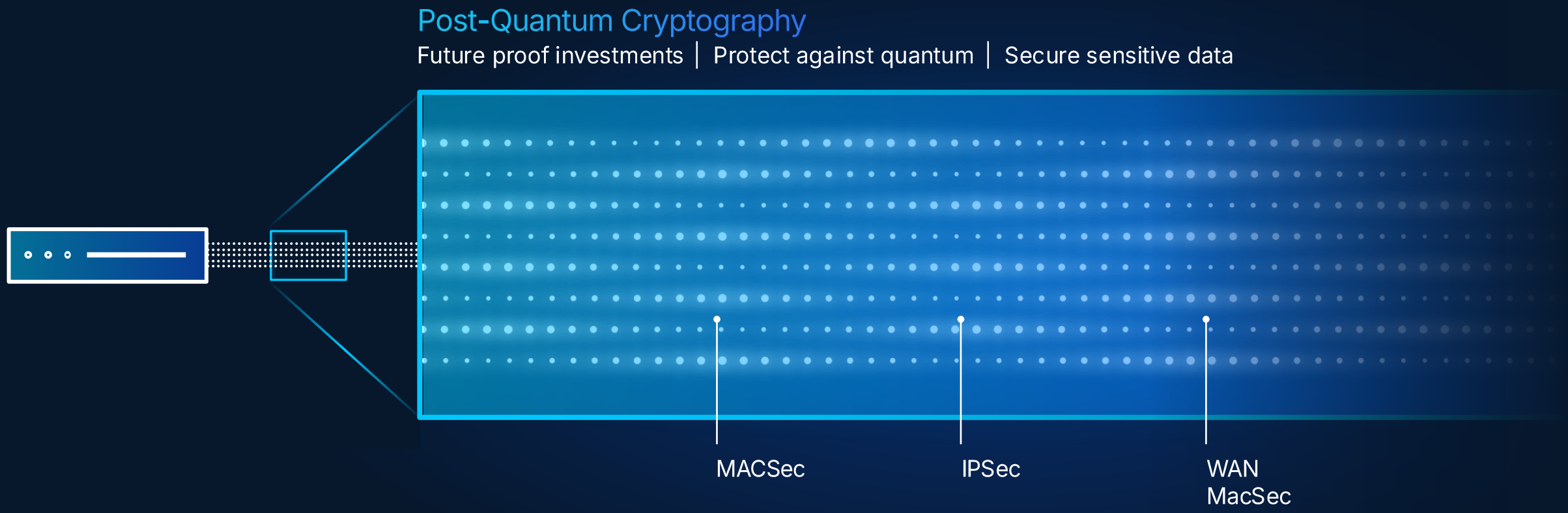
Issue a compensating control for a command injection attack

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# Securing network connectivity

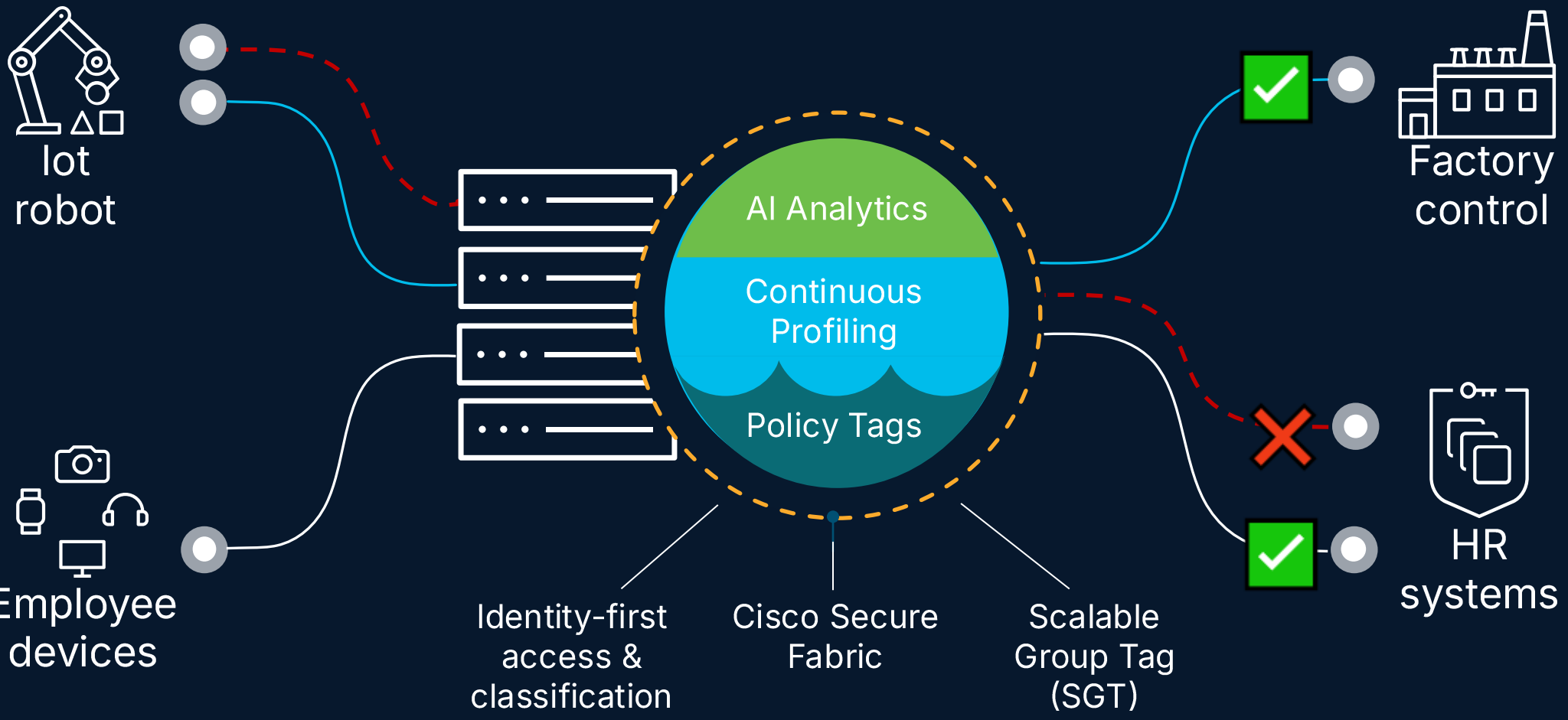
## Secure and protect your data in motion




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# Scalable network segmentation

## for preventing lateral movement




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# Segmentation and deep inspection of traffic between zones

## Cisco hybrid-mesh firewall

Security cloud control



Cisco Firewalls

Physical | Virtual | Cloud | FWaaS



3rd Party Firewalls



Smart Switches

eBPF



Workload Agents

Define once, enforce everywhere

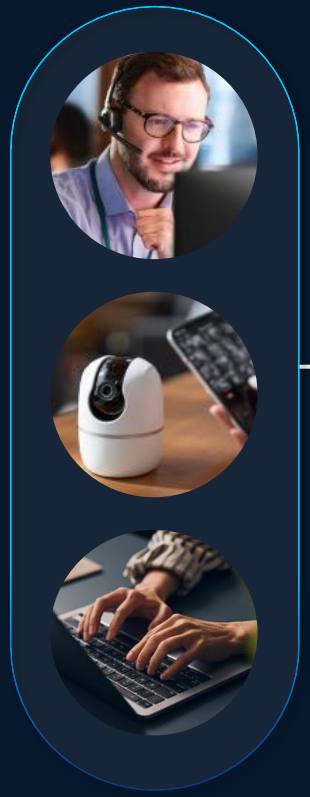
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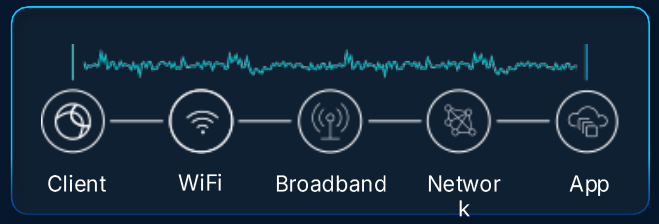
# Zero Trust Access: Cisco SASE

## Secure access for people, things and AI Agents

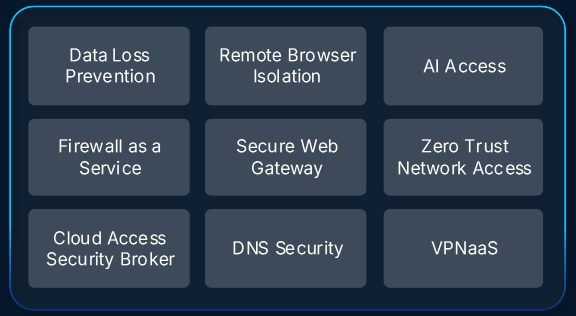
Every device, person, thing, everywhere



**Zero downtime:**
Experience and Policy Assurance

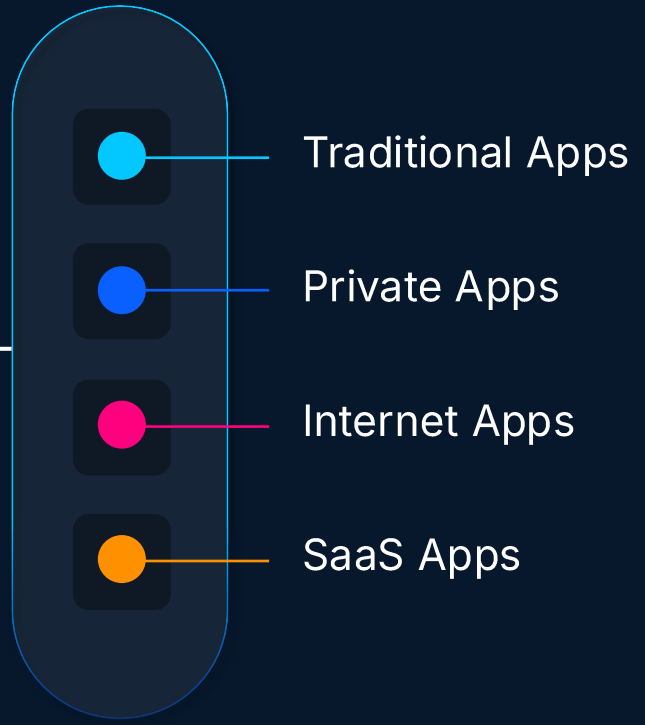



**Zero impostors:**
Identity Trust

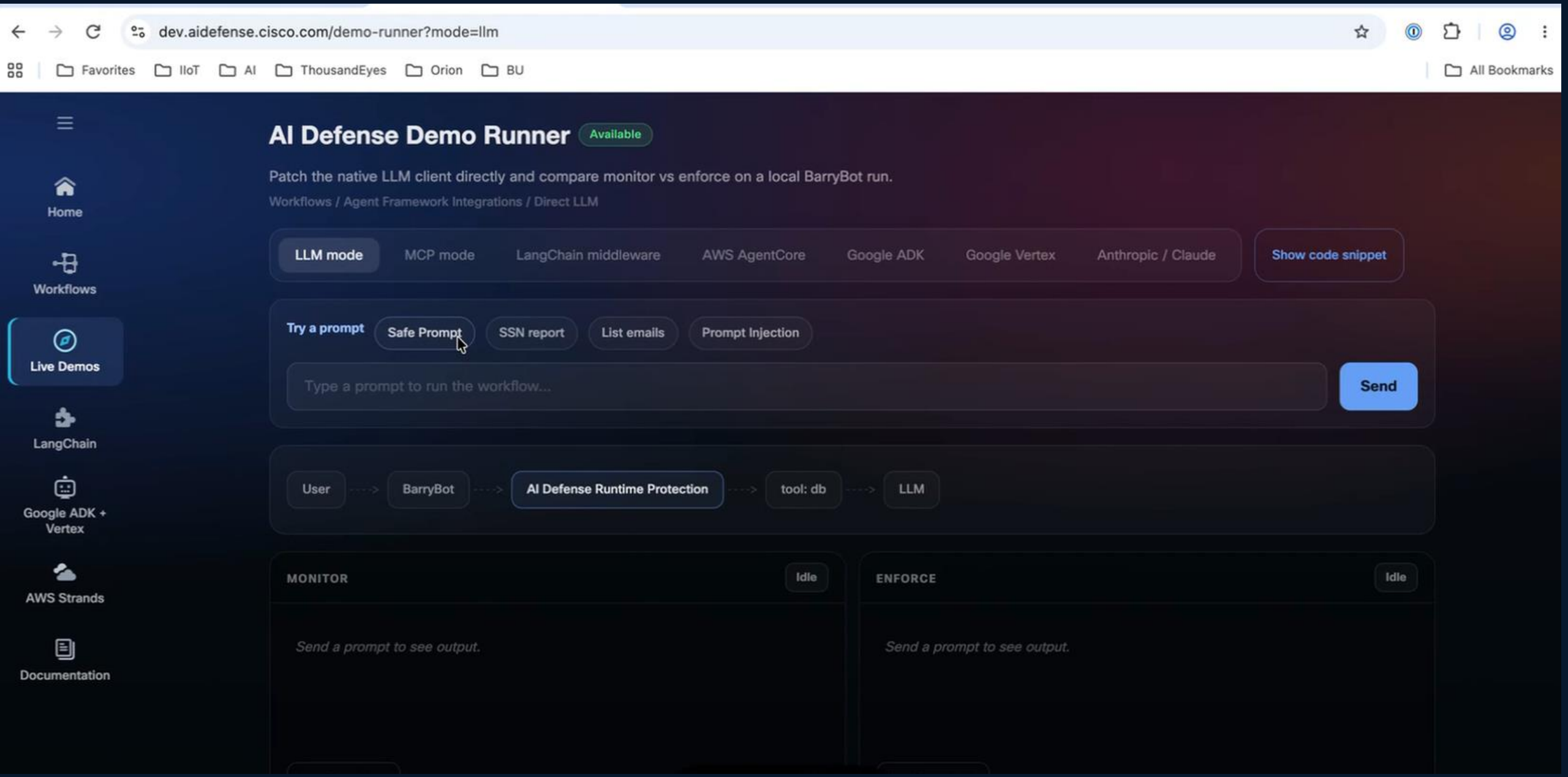



**Consistent Security:**
Security Service Edge

**Zero friction:**
We do the plumbing




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# Security Demos & Resources

- https://cs.co/aid
- https://cs.co/aj
- https://cs.co/aisf

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Secure Networking Architecture

# Security fused into the network

Live Protect on Smart Switches

GA AUG 2026

Post-Quantum Cryptography now for SD-WAN

GA AUG 2026

Cisco Firewall on Secure Routers

GA AUG 2026

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Security fused into the network



Scalable devices ready for AI

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# Scalable devices, ready for AI



Smart Switches



Secure Routers



Secure Firewall



Scalable Wi-Fi 7



Industrial IoT

Unified hardware | Unified software | Unified management

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High-performance, low latency

Cisco Silicon One + co-processor for security and AI

Post-quantum secure

Intelligent energy efficiency

Available Now

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



Cisco C9350 Fixed Access Smart Switch



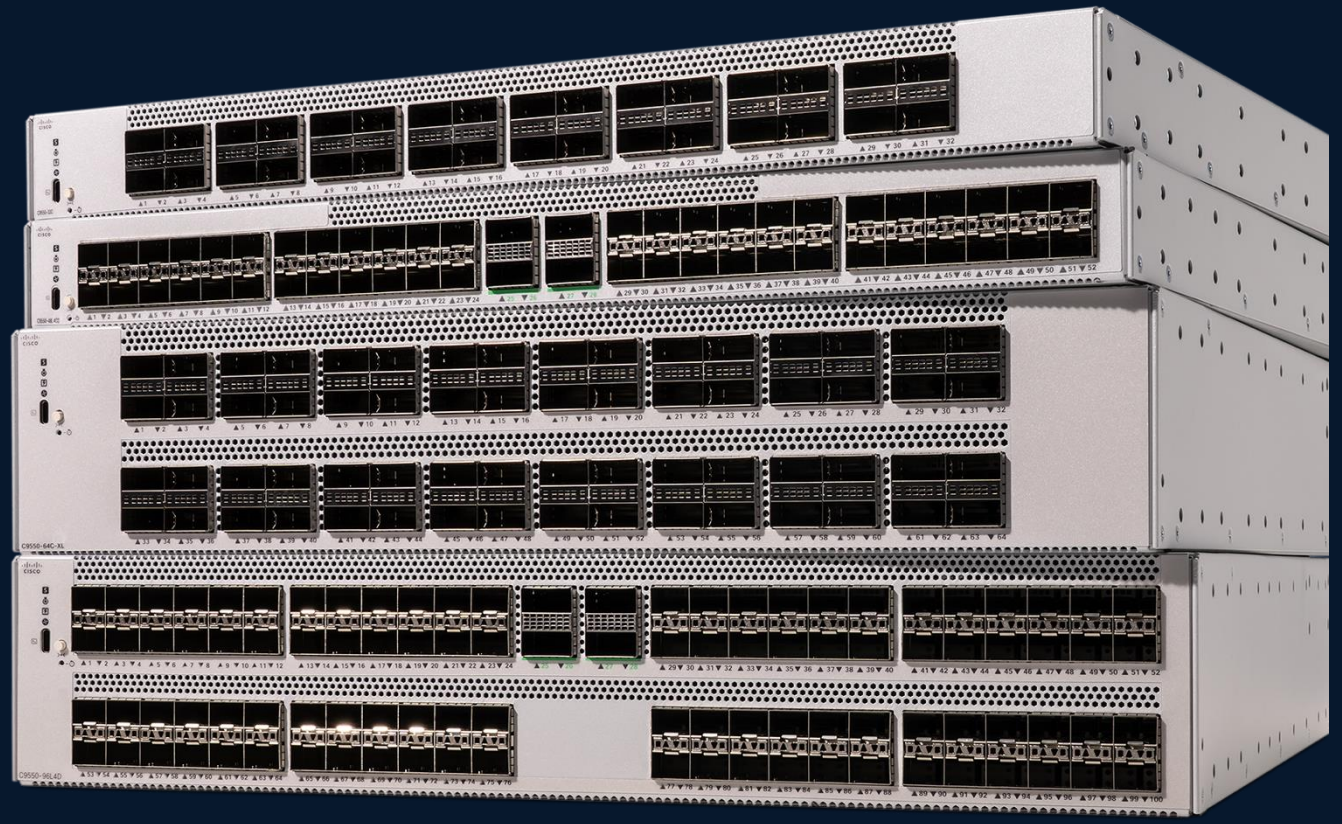
Cisco C9610 Modular Core Smart Switch

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Orderable May 2026

# 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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# Wi-Fi 7 for the Modern Campus

Cisco Wireless with URWB as of IOS XE 26.1.1

| Coffee shops | Residence halls | Classrooms | Lecture halls, libraries | Outdoor | Auditoriums | Stadiums, large venues |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |
| 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 | Coming soon | Available | Available |

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# 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

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# Next-generation networking, now with greater choice and flexibility



## A new class of Smart Switches

New C9550 Core & expanded C9350 mGig & Fiber

Orderable May 2026



## New Secure Routers

New Cisco 8100/8200/8300/8600 Secure Routers

Orderable Sept 2026



## Premium Outdoor Wi-Fi 7

CW9177I/E/D

Orderable Jun 2026



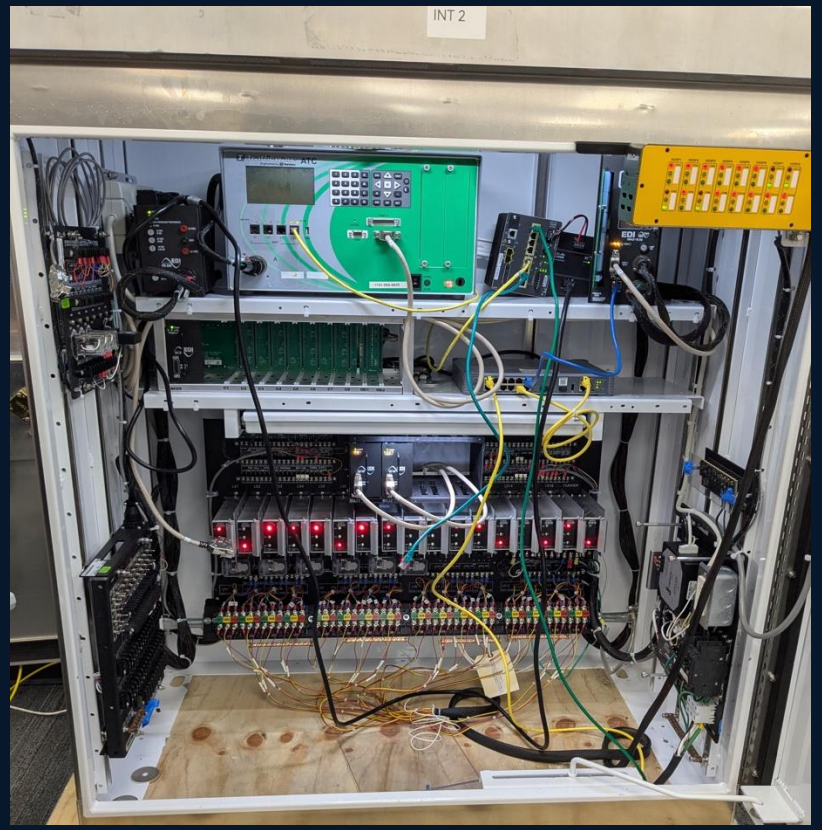
## Industrial compact router

Cisco IR1000 Rugged Series Secure Router

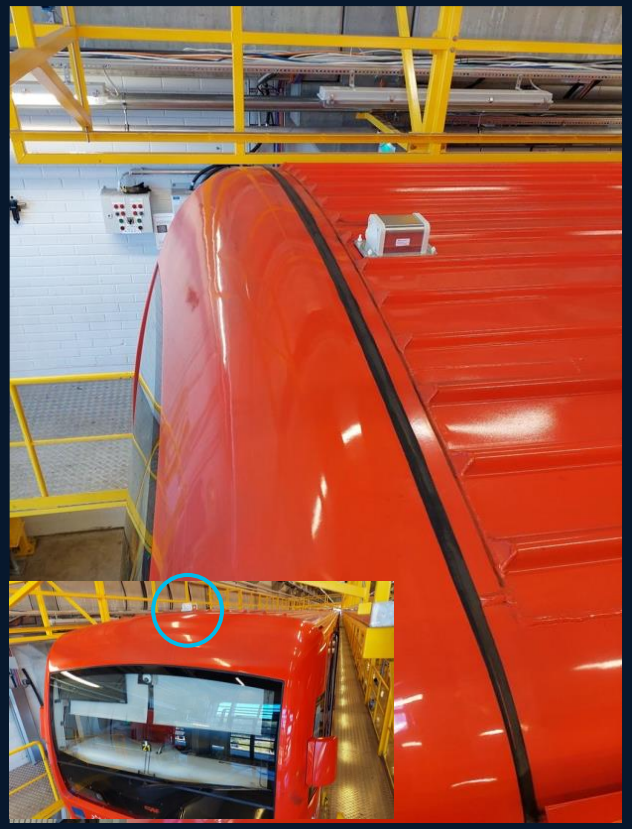
Orderable Sept 2026

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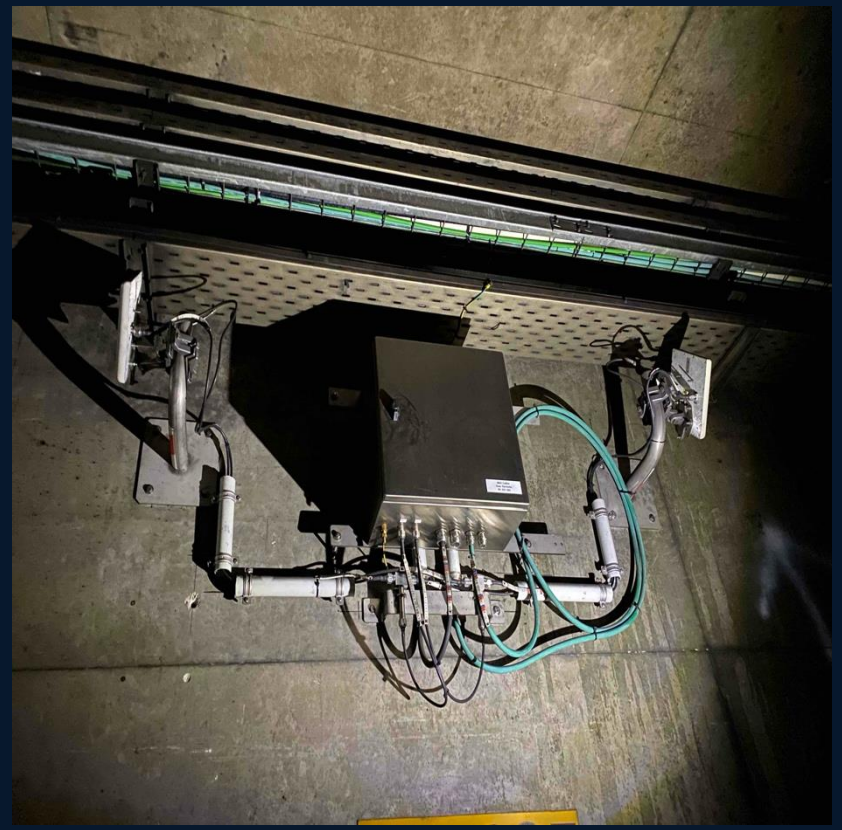
# Example IIoT Deployments




Roadside Traffic Cabinets



Train & Vehicle Mounted



Infrastructure & Tunnels

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Thursday, September 17, 2026 01:44

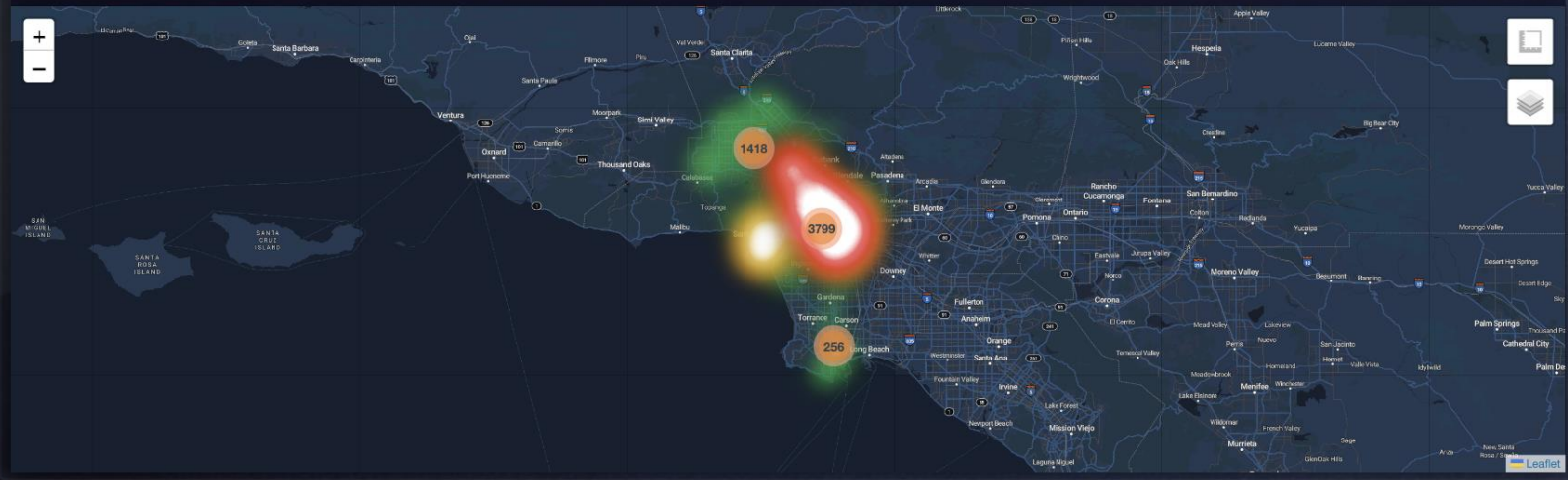
# Pedestrian Safety Analytics

## Transportation Intelligence

Intersection Monitoring and Near Miss Detection

| 1,078 ↓-75 | 156 ↑8 | 634 ↓-92 | 74.5% ↑0.2% | 449 ↓-40 | 33 ↓-3 |
|---|---|---|---|---|---|
| Pedestrian Near Misses | Accidents | Red Light Violations | Average Intersection Safety Score | Vehicles Failing To Yield | Active Safety Alerts |
| Last 30 Days | Last 30 Days | Last 30 Days | Last 30 Days | Last 30 Days | Last 24 Hours |

### Intersection Safety Heatmap




### Intersection Risk Ranking: Top 10 Most Dangerous

| Intersection | Risk Score | Red Light Violations | Pedestrian Misses | Accidents |
|---|---|---|---|---|
| 11TH ST / HILL ST | 16.0 % | 24 | 35 | |
| 11TH ST / MAPLE AV | 17.0 % | 24 | 23 | |
| 11TH ST / ALVARADO ST | 19.0 % | 26 | 29 | |
| 11TH ST / BROADWAY | 19.0 % | 22 | 29 | |
| 11TH ST / FLOWER ST | 20.0 % | 30 | 25 | |
| 11TH ST / GRAND AV | 22.0 % | 12 | 22 | |
| 11TH ST / HARVARD BL | 22.0 % | 25 | 27 | |
| 10TH AV / WASHINGTON BL | 23.0 % | 12 | 13 | |
| 11TH ST / ALBANY ST | 23.0 % | 32 | 25 | |
| 11TH ST / LOS ANGELES ST | 24.0 % | 30 | 27 | |

### Safety Trend Over Time

Accidents — Pedestrian Near Misses — Red Light Violations

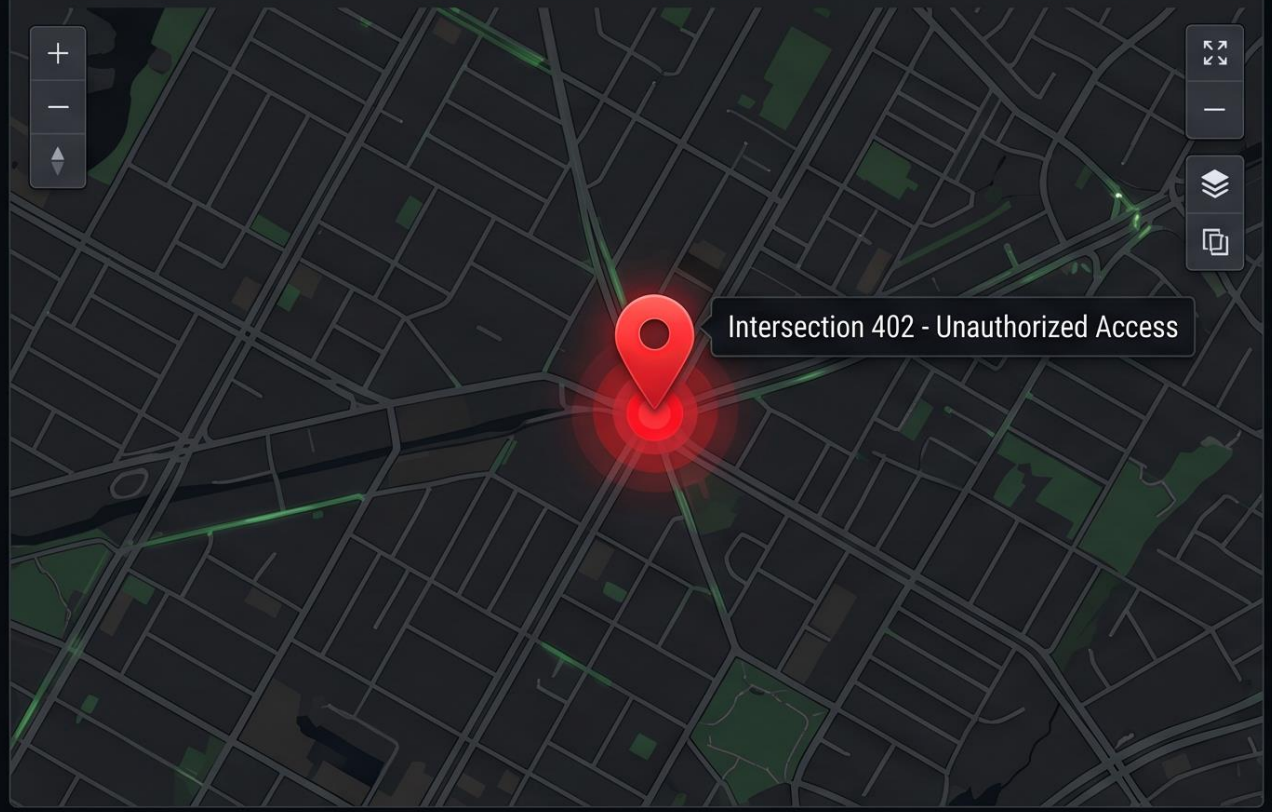
### Unsafe Behavior Breakdown (Totals For Period)

Accidents 63

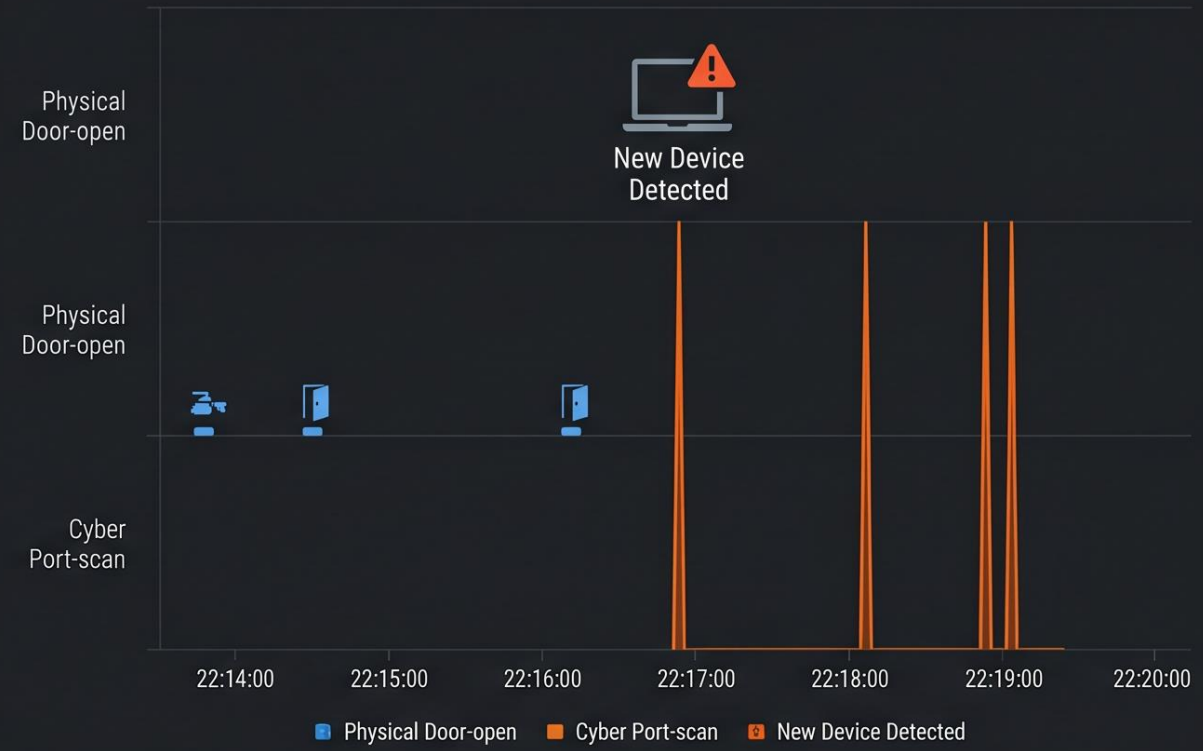
### Safety Feed Alert

- [HIGH] Vehicle-Pedestrian Near Miss Detected @ Hollywood Blvd & Highland Ave
- [HIGH] Red Light Violation with Pedestrians Present @ Wilshire Blvd & Vermont Ave
- [MEDIUM] High-Speed Vehicle in Active Crosswalk @ Sunset Blvd & Vine St
- [MEDIUM] Vehicle Failure to Yield to Pedestrian @ Broadway & 7th St

## City Map




## Breach Correlation Timeline (span=1m)




## Active Threat Intelligence

| Timestamp | Source Device | MAC Address | IP Address | Activity Type | Target Port/Service | Severity |
|---|---|---|---|---|---|---|
| 22:15:01 | Dell XPS 13 | 00:1A:2B:3C:4D:5E | 192.168.1.105 | Unauthorized Connection Detected | - | High Severity |
| 22:15:10 | Dell XPS 13 | 00:1A:2B:3C:4D:5E | 192.168.1.105 | Port Scan: SSH (22) | 22 | High Severity |
| 22:15:10 | Dell XPS 13 | 00:1A:2B:3C:4D:5E | 192.168.1.105 | Port Scan: SSH (22) | 13899 | High Severity |
| 22:15:10 | Dell XPS 13 | 00:1A:2B:3C:4D:5E | 192.168.1.105 | Port Scan: RDP (3389) | 13899 | High Severity |
| 22:15:25 | Dell XPS 13 | 192.168.1.105 | 192.168.1.105 | Port Scan: RDP (3389) | 3389 | High Severity |
| 22:15:25 | Dell XPS 13 | 192.168.1.105 | 192.168.1.105 | Port Scan: SSH (22) | 22 | High Severity |
| 22:15:25 | Dell XPS 13 | 192.168.1.105 | 192.168.1.105 | Port Scan: RDP (3389) | 3389 | High Severity |

Our approach to addressing new AI demands:

# Architecture for the AI-ready secure network



Simplified operations powered by AgenticOps



Security fused into the network



Scalable devices ready for AI

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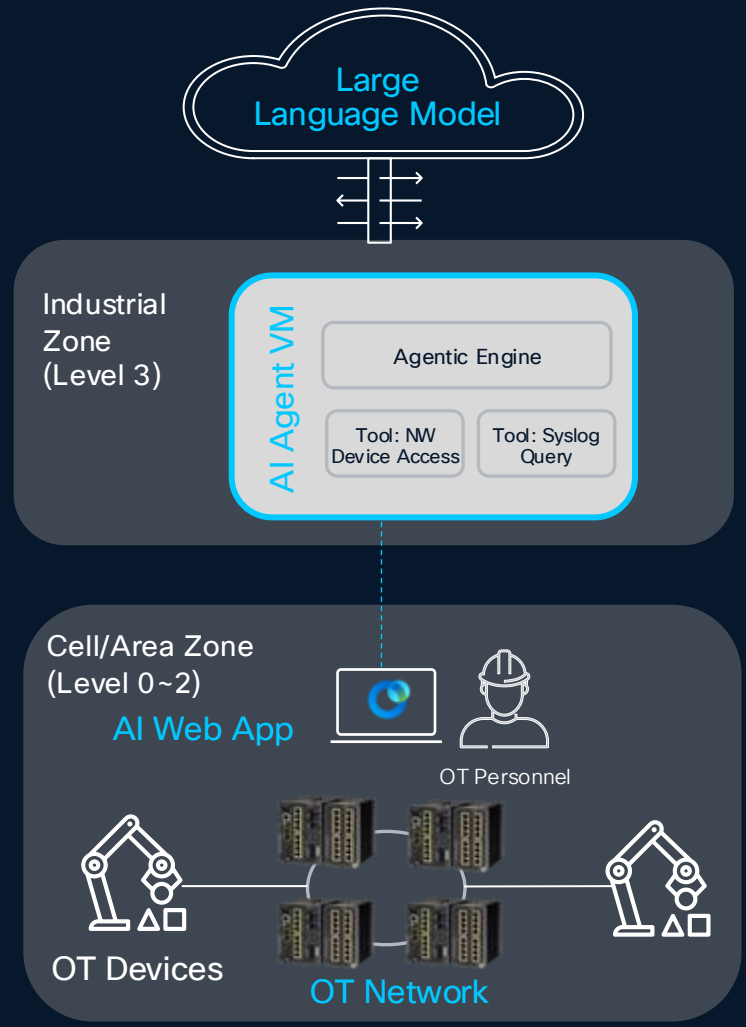
CISCO Connect

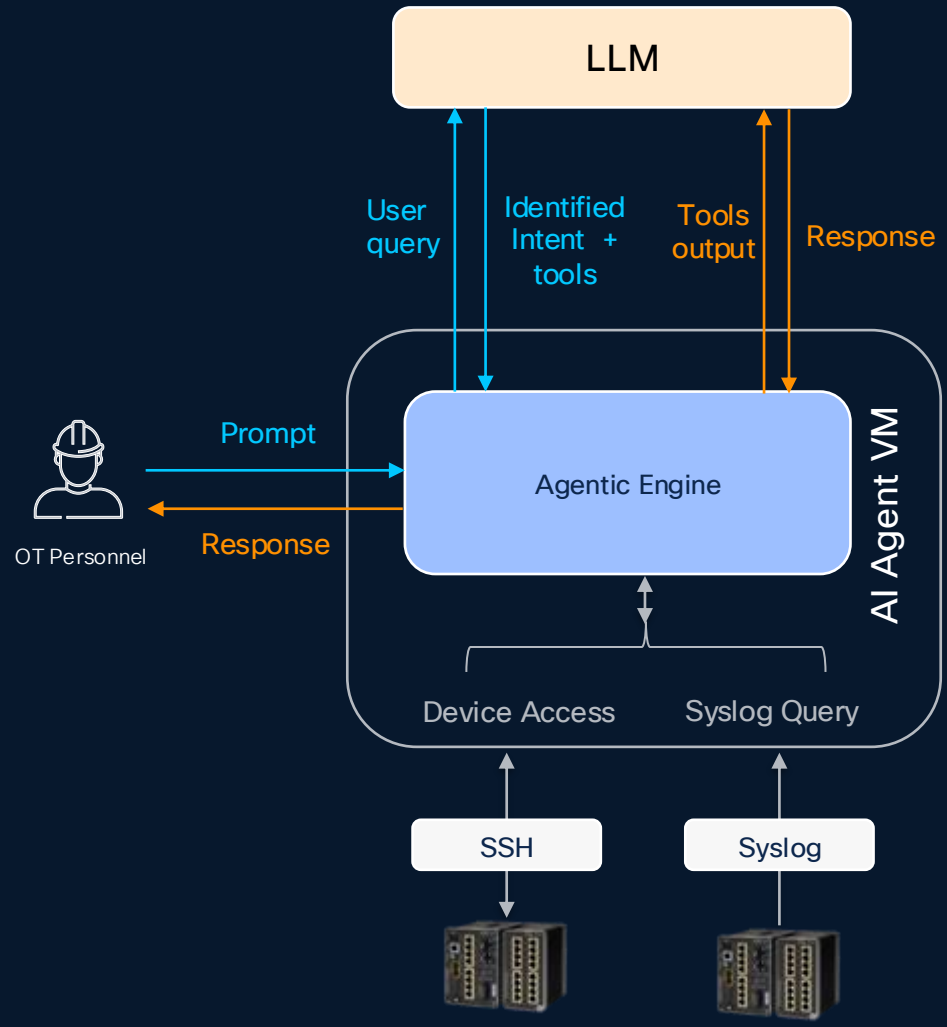
# Thank you



# How the Agent is Deployed and How it Works

Alpha




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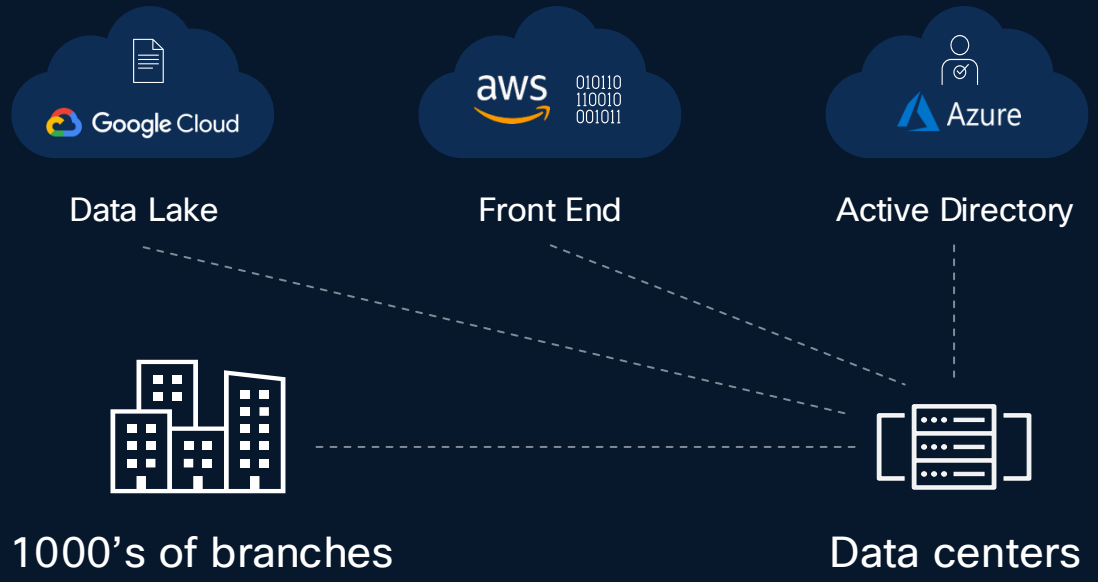
# Multivendor clouds create bottlenecks and complexity

Enterprise workloads -> AI multicloud workloads

Hub connectivity -> Distributed connectivity

Multiple clouds -> Multicloud network

## Typical multicloud architecture




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Beta Jun 2026

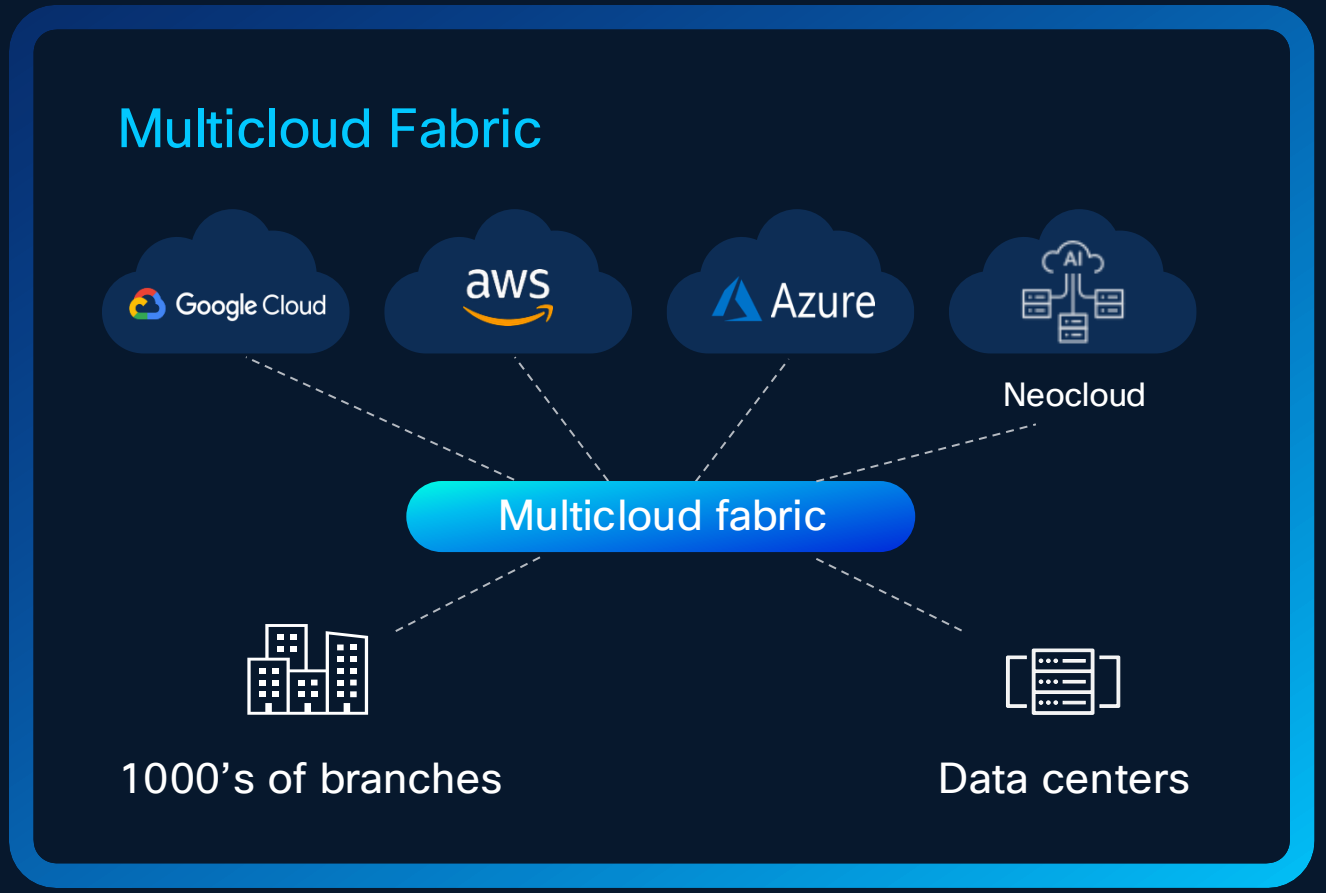
# Introducing Cisco Multicloud Fabric

Single multicloud networking service – available via Cloud Control

Instantly available global fabric across clouds

Built-in security and end-to-end visibility

Use Cases Site-to-Cloud Cloud-to-Cloud




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