

Kickstart Your Enterprise Network with Cloud Dashboard

cisco Live !

Meraki Dashboard 101

Ryan Pascoe
Solutions Engineer

Session ID: BRKMER-1074

Agenda

- 01 Why? (Steve Jobs)
- 02 Dashboard Fundamentals
- 03 Demo, Tips and Roadmap

Cisco Webex App

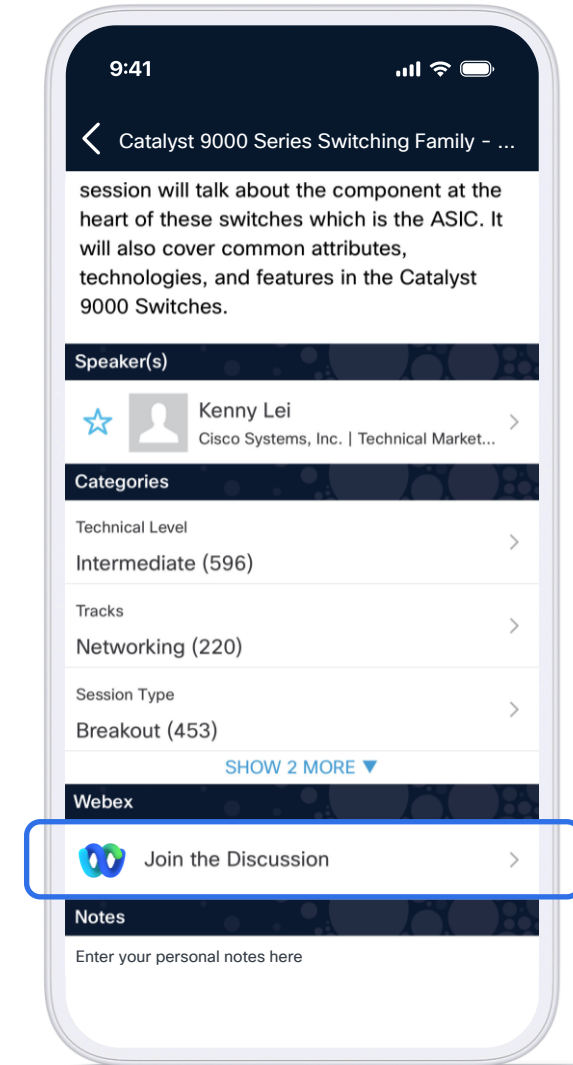
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until 14 November 2025.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKMER-1074>

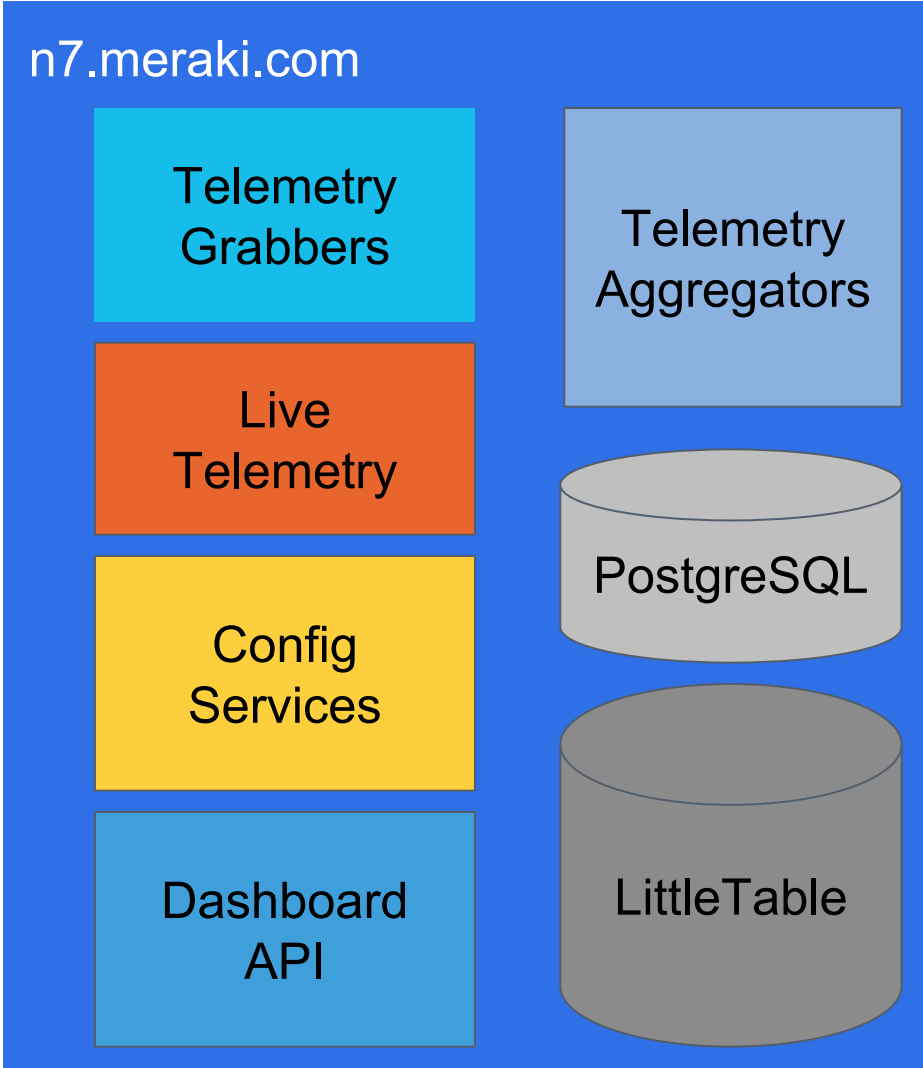
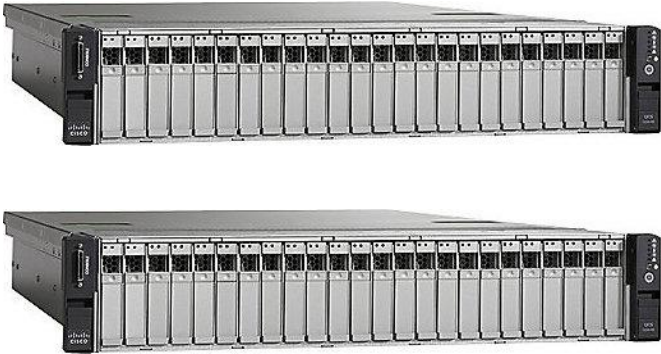
Dashboard Architecture

<https://n7.meraki.com/o/1ZWKRd/manage/organization/>

Shard Cluster

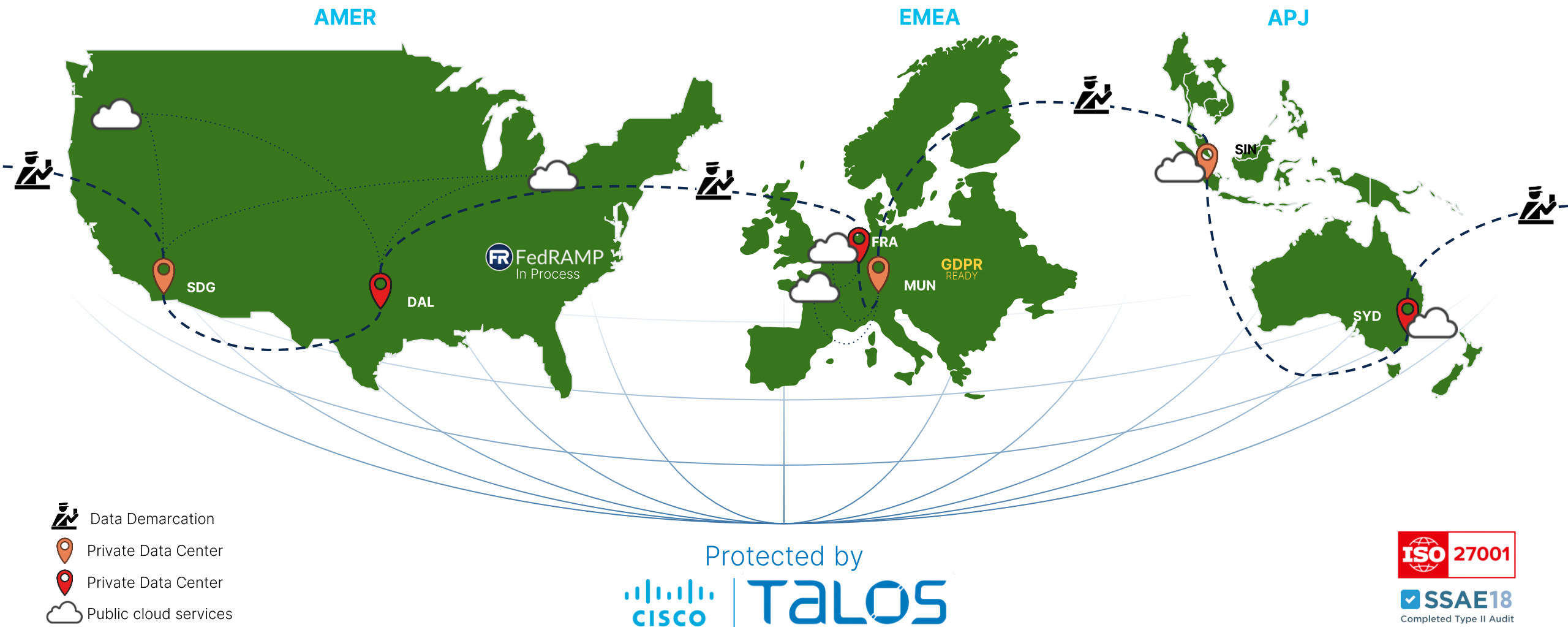
<https://n7.meraki.com/o/1ZWKRd/manage/organization/>
Shard

Shard Architecture

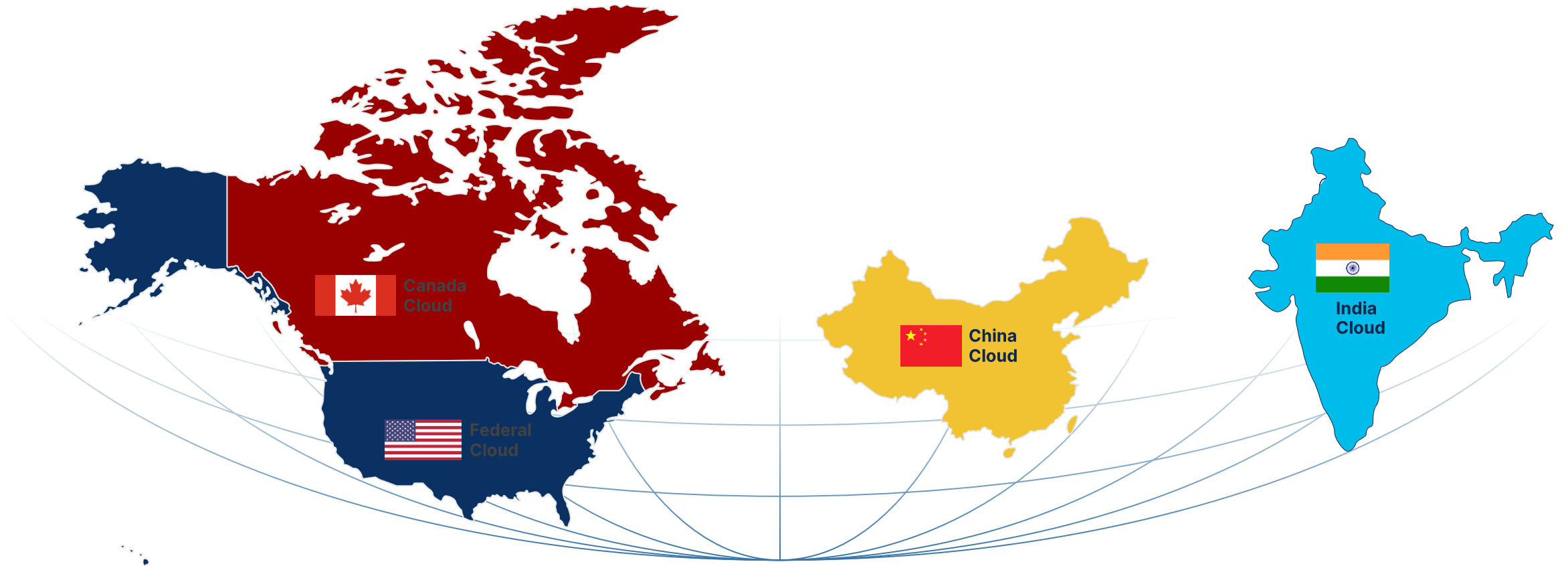


<https://n7.meraki.com/o/1ZWKRd/manage/organization/>
Cluster

Built for security and scale

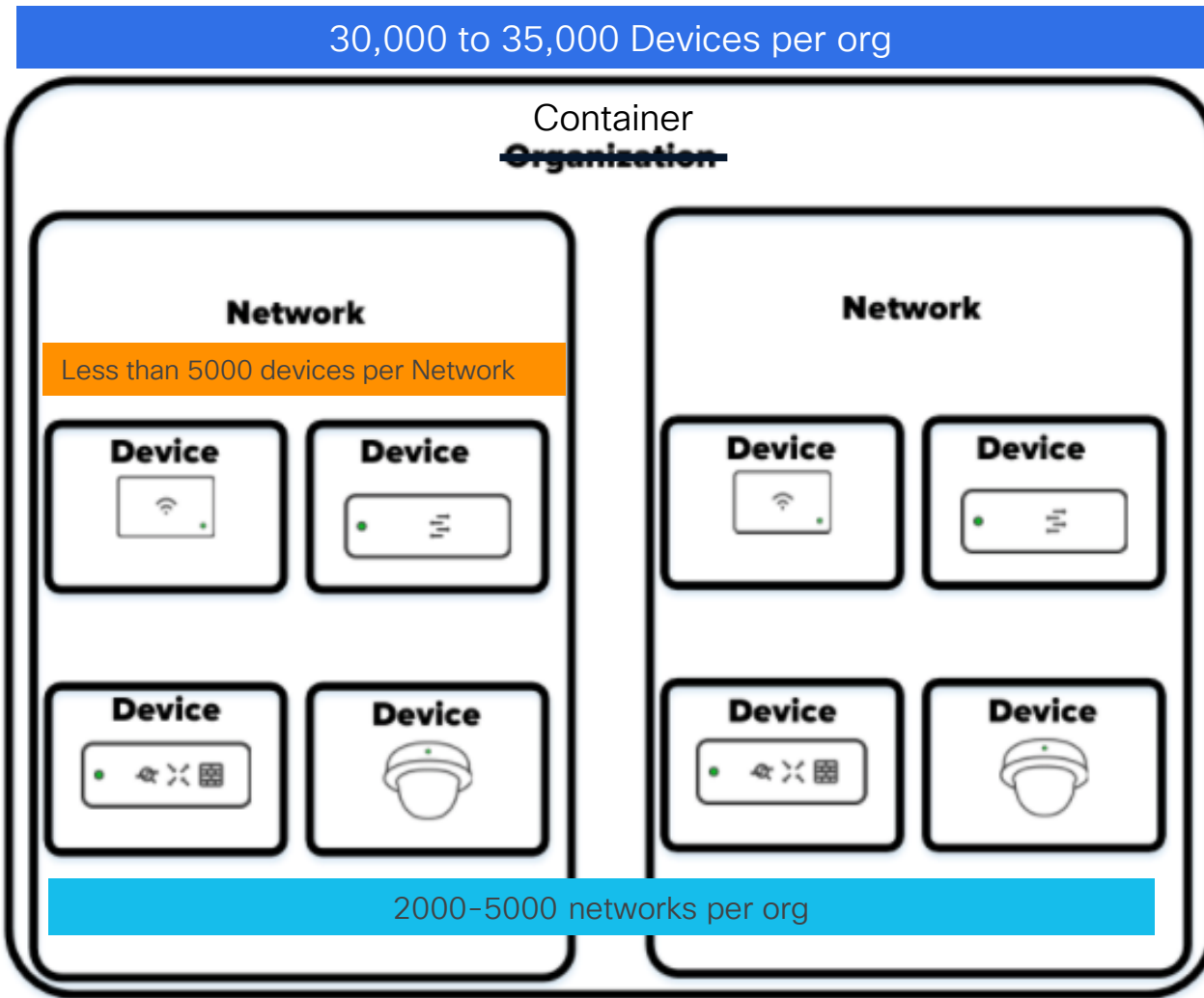


Geo Clouds

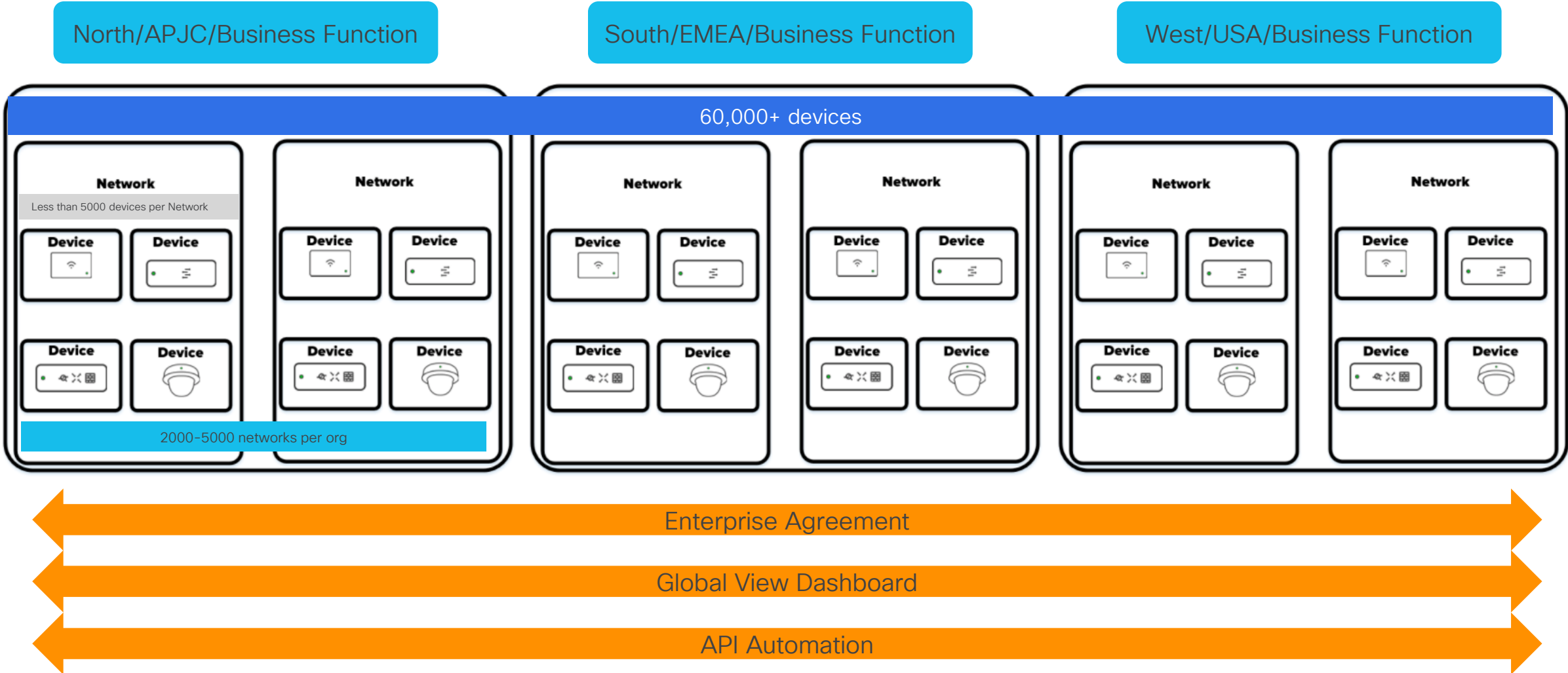


Scale

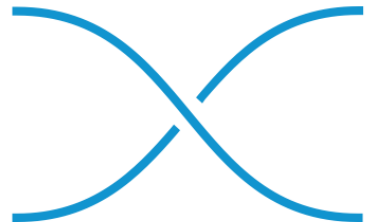
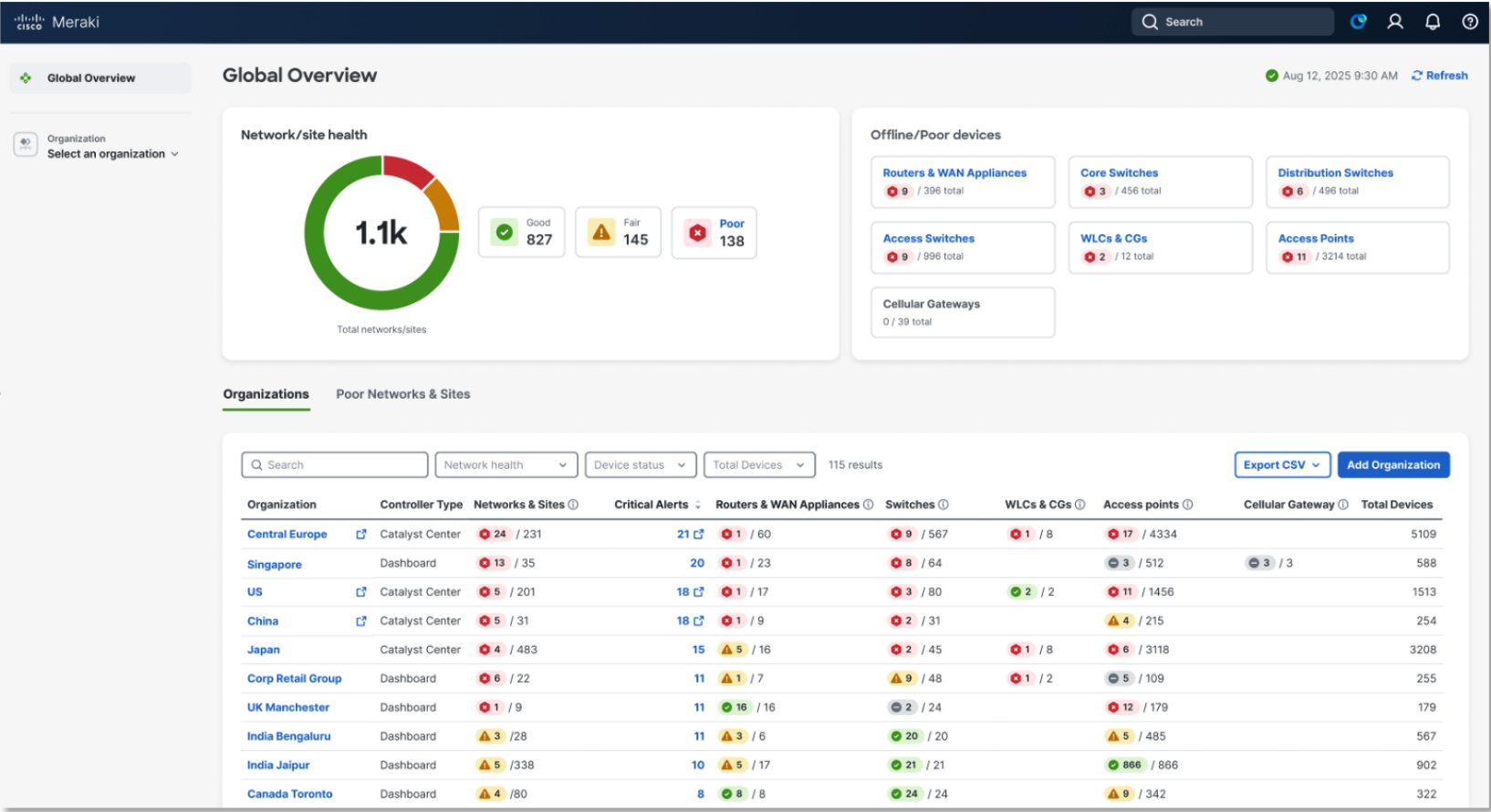
Today Design Guidance up to 35k Devices



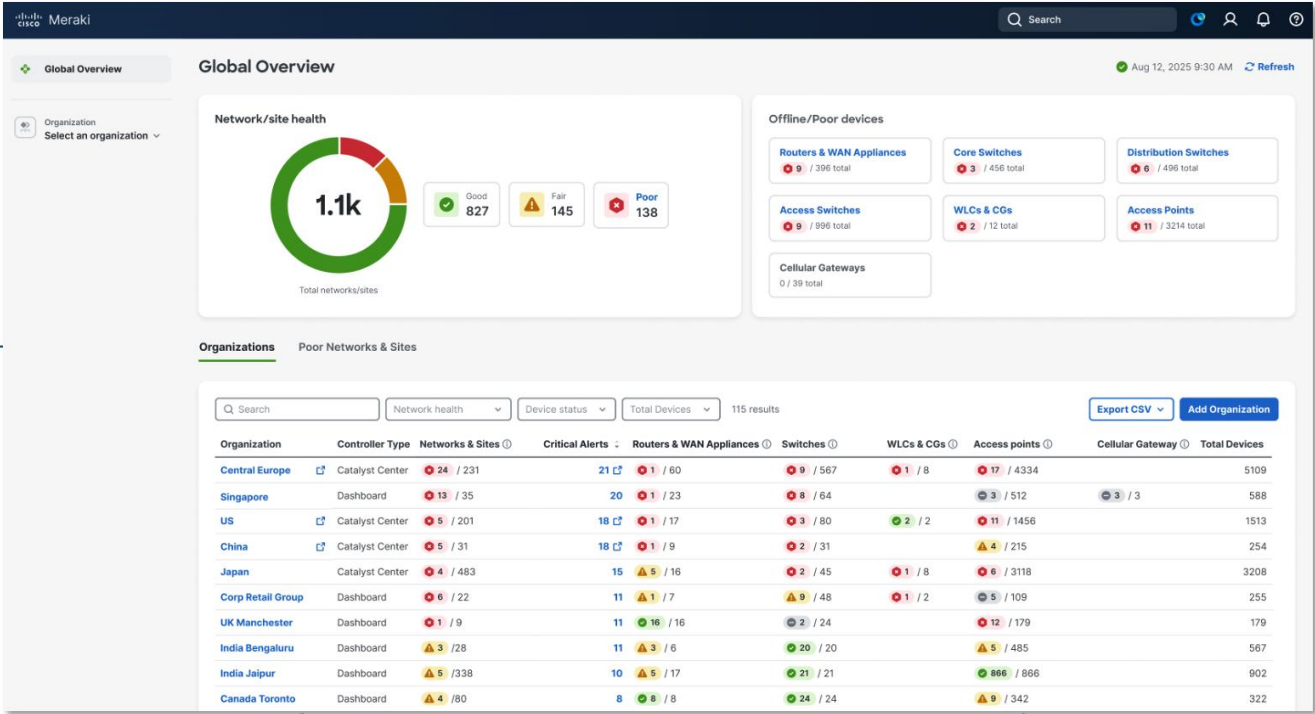
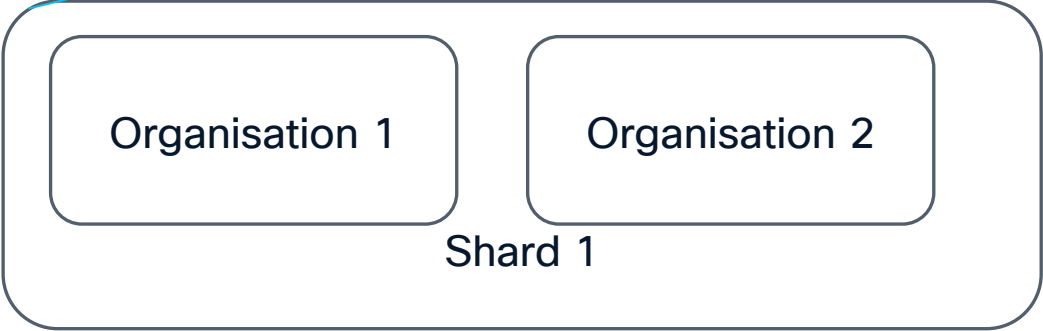
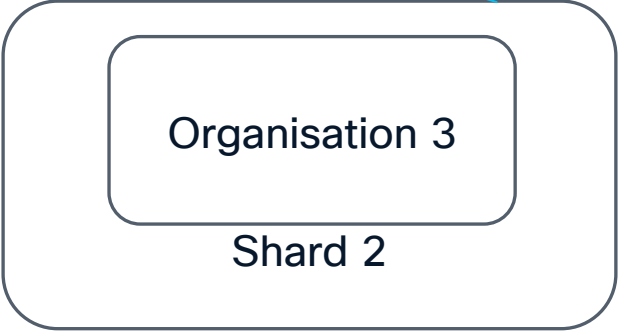
Today Design Guidance 60k+ devices



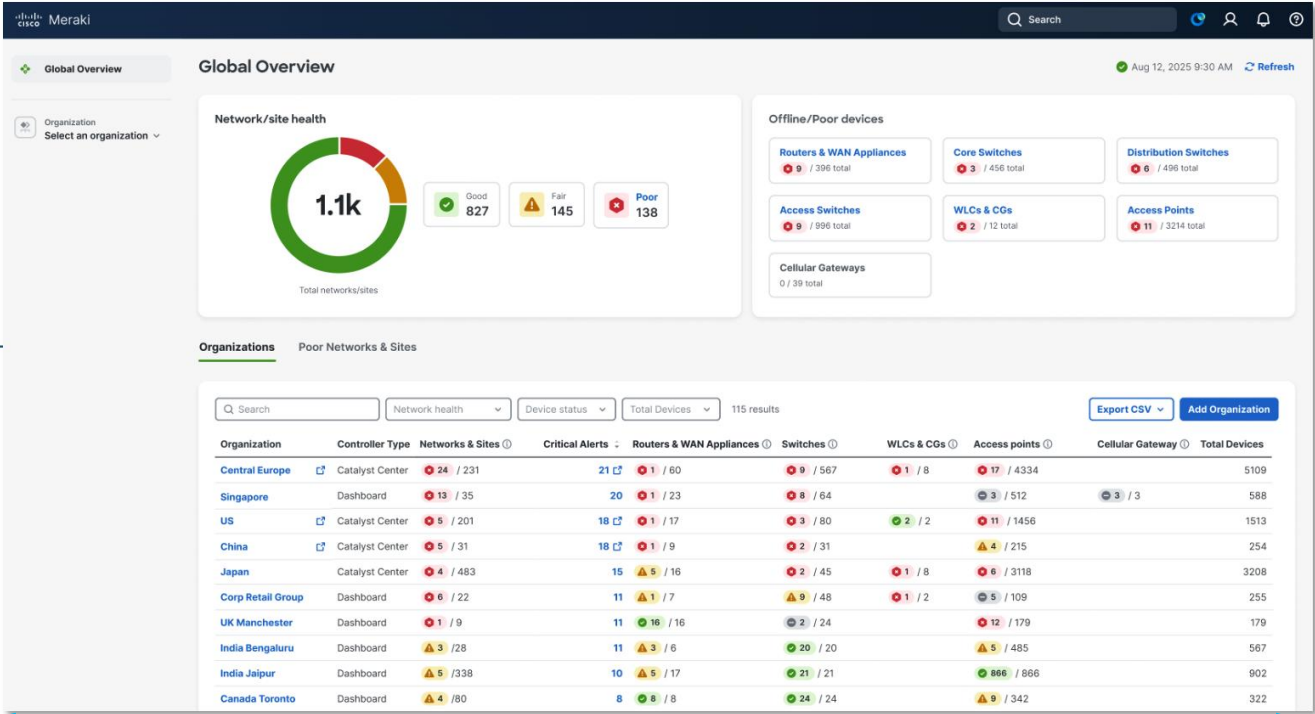
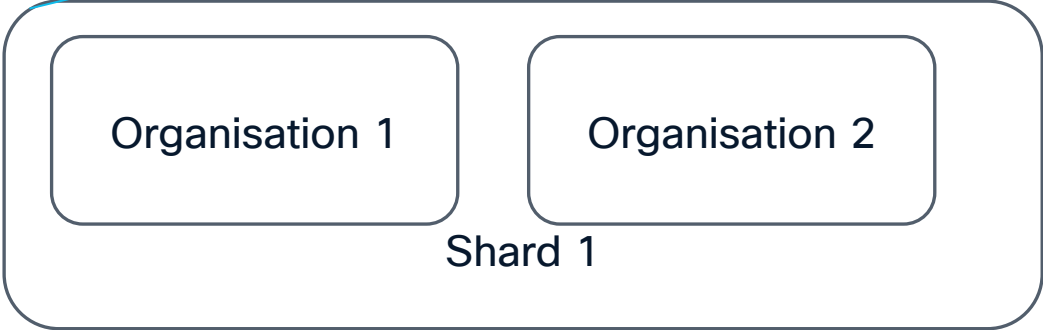
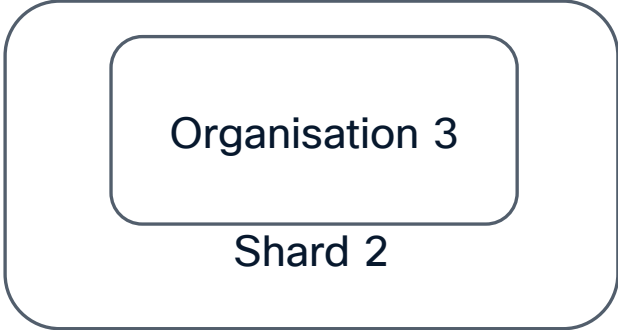
Global Overview



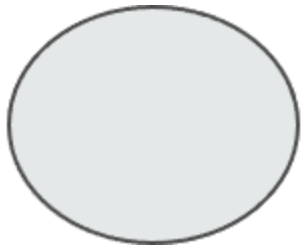
Global Overview



Global Overview

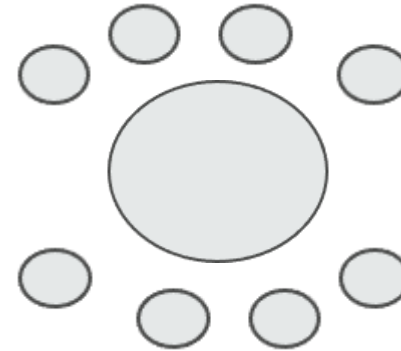


Future Scaling



Shards

All services
residing on the
same server



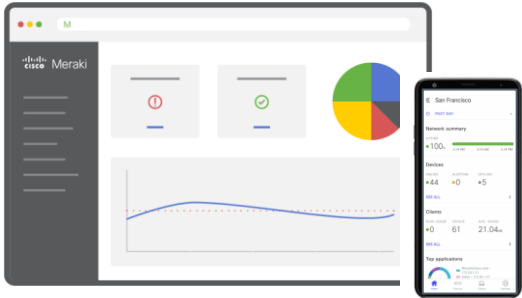
Elastic Shards

Remove single-server
bottleneck for sharded
services

E.g. Grabbers and
Aggregators

Connectivity

What can we connect?



Wireless

Switching

Security and
SD-WAN

Cellular
Gateways

Smart
Cameras

Sensors

Meraki



MR



MS



MX



MG



MV



MT

Cisco



CW



C9300/9200/9500



8455-G2-MX



9800 WLC

The old way (mtunnel)



Pro:

Secure and audited

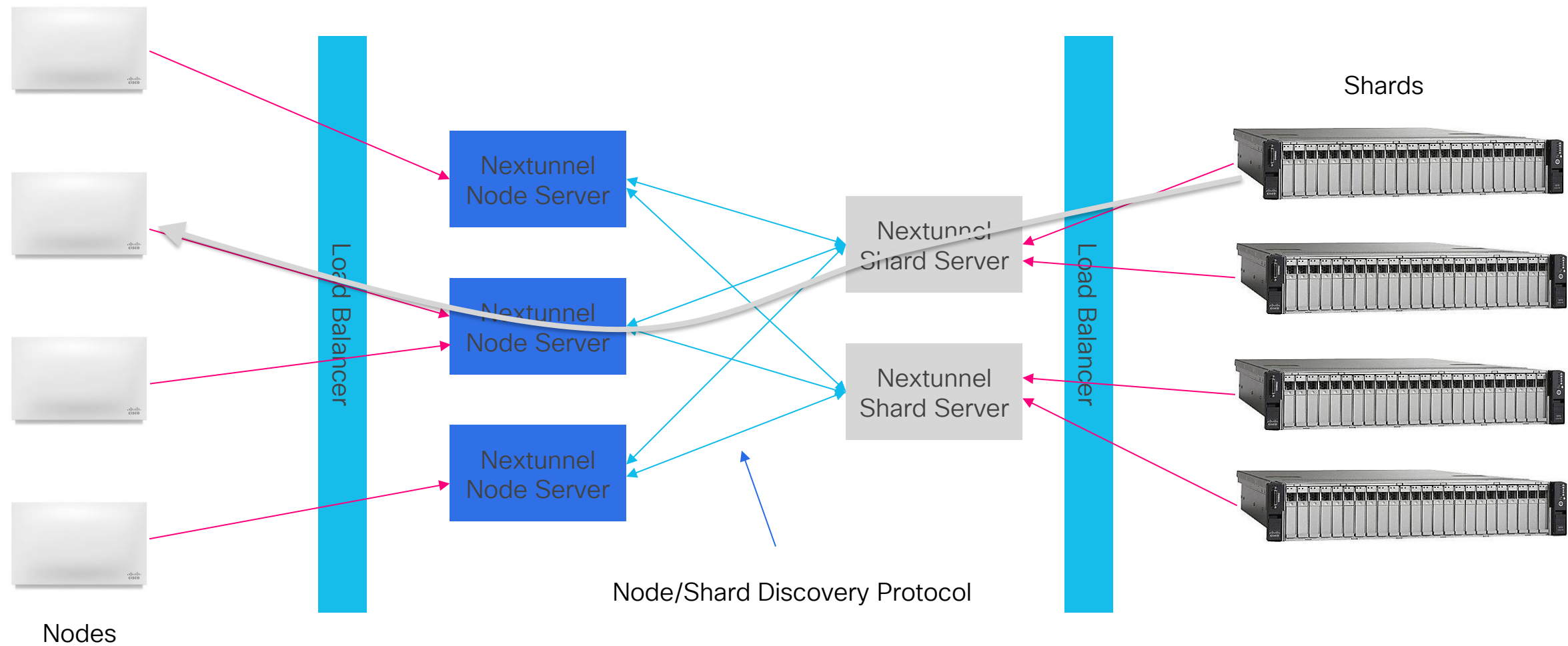
Con:

Non-standard port

Doesn't scale independently of shards

Scaling Device Connectivity

Kubernetes



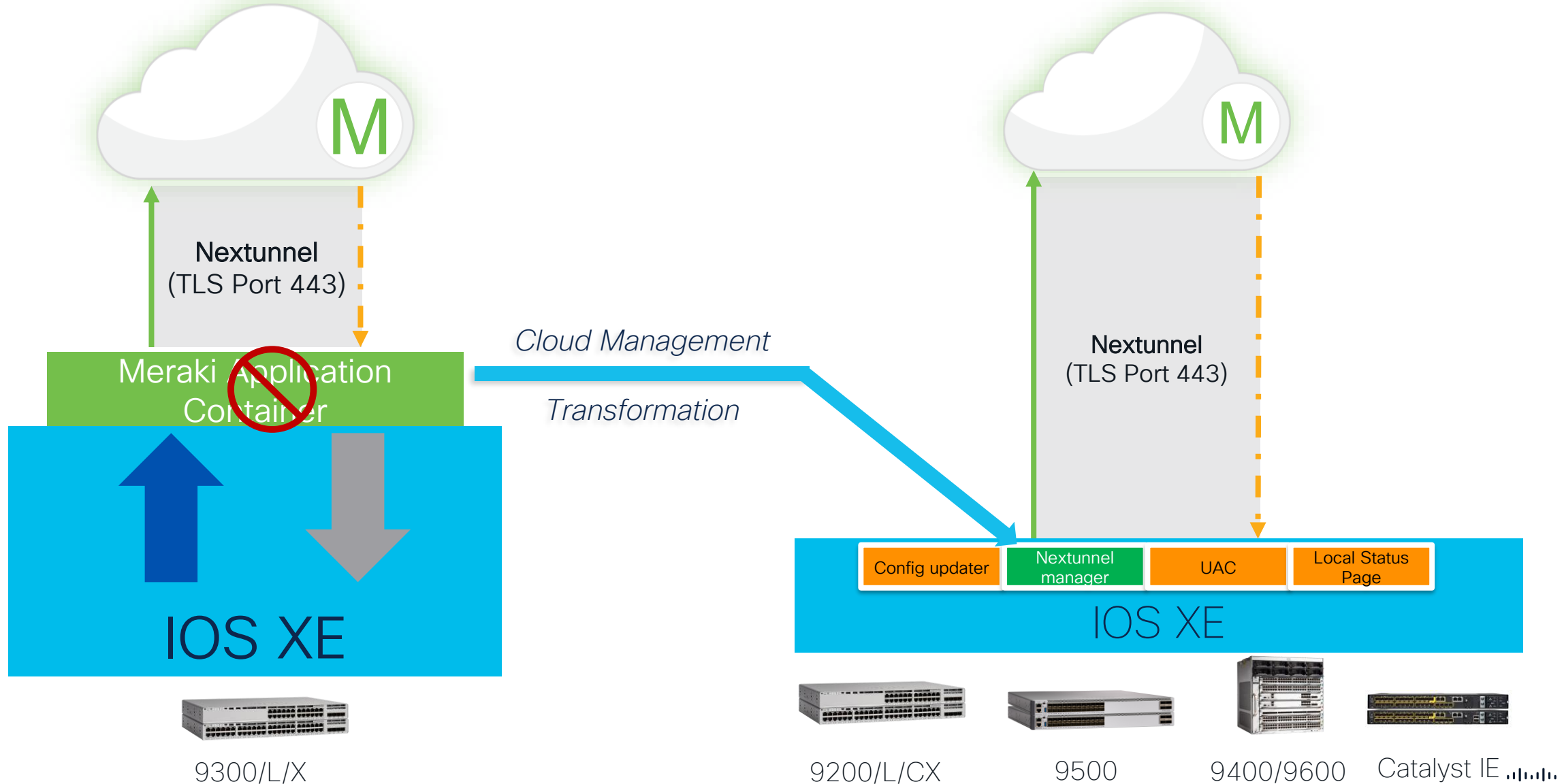


**Why is understanding
nextunnel so important?**

The background of the slide is an abstract composition of numerous thin, flowing lines in shades of blue, yellow, orange, and purple, creating a sense of dynamic movement and connectivity. A large, semi-transparent white rectangle is positioned on the left side of the slide, serving as a backdrop for the main text.

What can we connect

1st Gen Software Architecture - App to Cloud



Technical Prerequisites

- Enable IP Routing, aaa-new model, DNS, NTP and Internet connectivity on the device
- Connectivity must be via a front-panel port (not mgmt. interface) and be in the default VRF
- Catalyst switches running IOS XE version 17.15.3 and above.
- Switches require an active DNA Essentials or Advantage license



Supported Hardware Models

Cloud management with device configuration is supported on the following switch models, including stacks:

Catalyst 9200 series switches (including 9200L and 9200CX models).

Catalyst 9300 series switches (including 9300L, 9300LM, 9300X models).

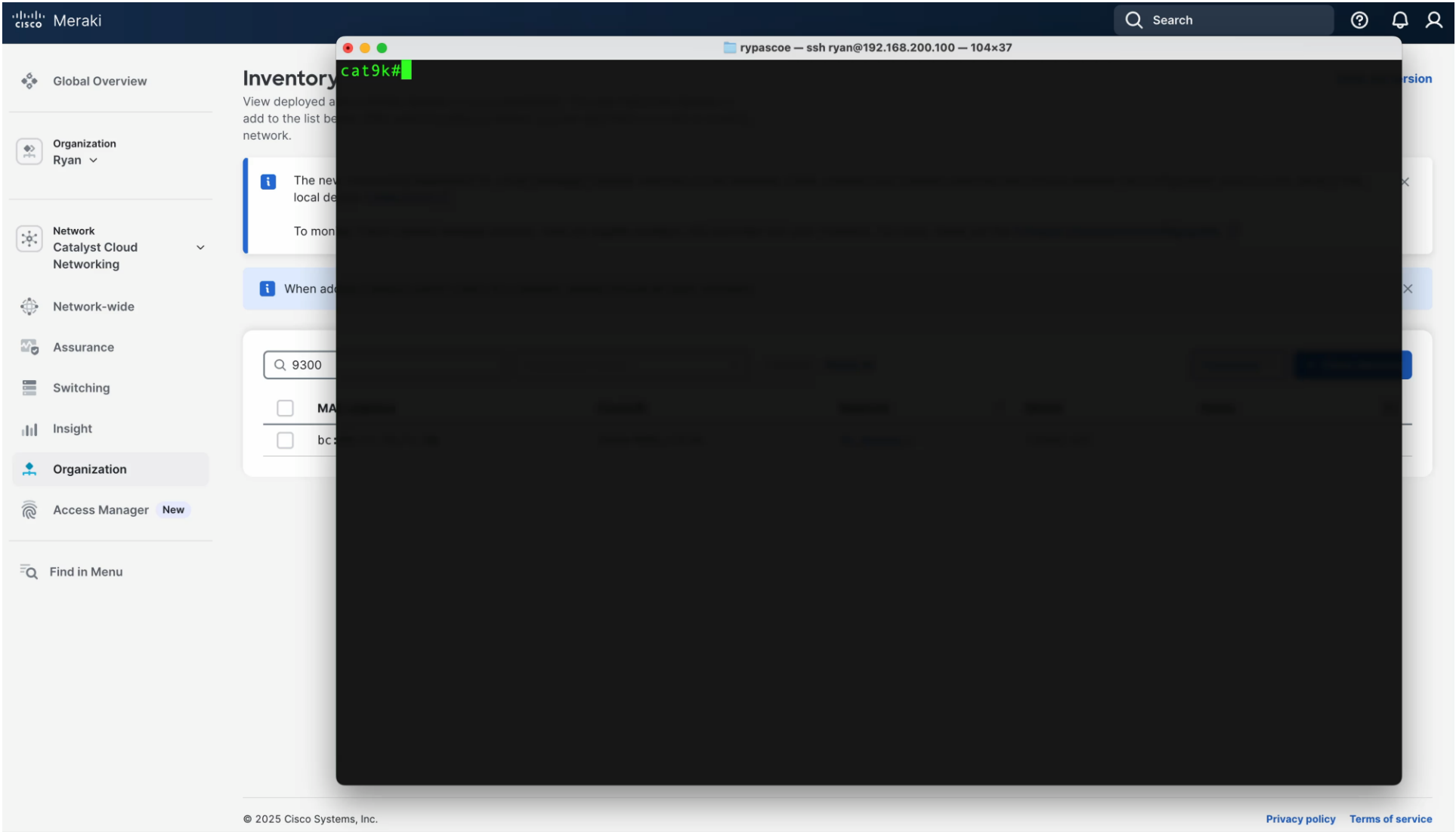
Catalyst 9500 series switches (EFT starting coming soon)

Links:

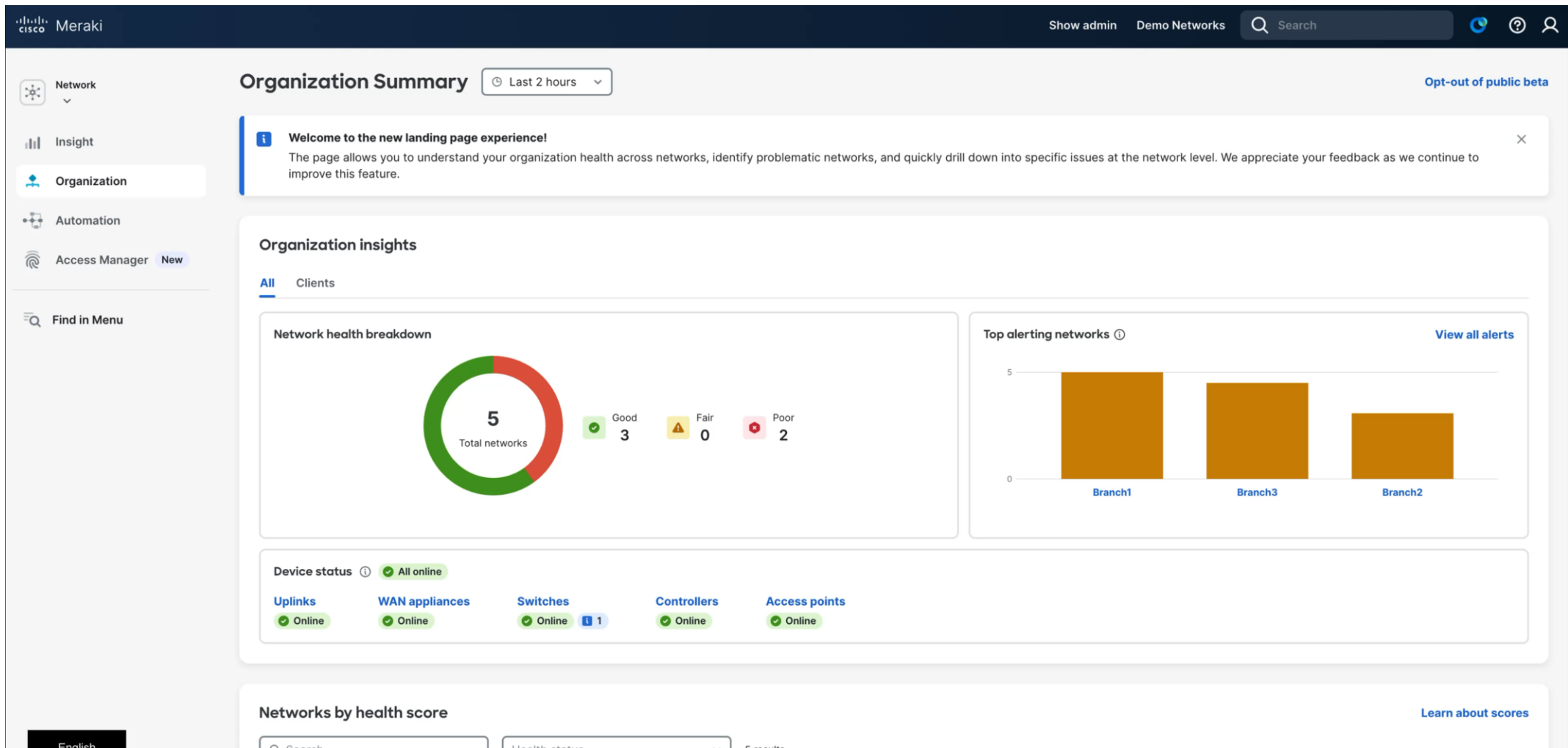
Overview https://documentation.meraki.com/MS/Cloud-Native_IOS_XE/Cloud-Native_IOS_XE_Overview#Configuration:_Device

Onboarding Process https://documentation.meraki.com/MS/Cloud-Native_IOS_XE/Connect_Hybrid_Operating_Mode_Catalyst_Switch_to_Dashboard

Onboarding Demo



Demo



[View old version](#)

Network
Branch 1 ▾

 Network-wide Assurance Security & SD-WAN

Switching

 Wireless

 **Insight**

 Organization

 Automation

 **Access Manager** New

Find in Menu

Adaptive Policy

Policies

Groups

Custom ACLs

Networks

Total policies

46

Allow policies

12

Deny policies

31

Groups

12

ACLs

4

Q Search

1 Source group 

Destination group ▾

Permission

11 results [Reset all](#)

[+ Add policies](#)

Destination Groups 12

[illegible]

Network
Branch1

Network-wide

Assurance

Security & SD-WAN

Switching

Wireless

Insight

Organization

Automation

Access Manager New

Find in Menu

Access Points

Last day

+ Add access point

The Cisco Campus Gateway is now available

The Campus Gateway is Cisco's newest cloud-native solution for high-scale campus deployments. To learn more, check out the [learning hub](#)

Overview

List

Health

Map

Connection log

Timeline

0 Offline

0 Alerting

1 Online

0 Repeaters

Q Search

Filters 1 result

Download

Status	Name	MAC address	Connectivity (UTC-5)	Serial number	Local IP
	Branch1-CW9162	c4:d6:66:0d:be:70		Q5AA-2AEW-TKAD	198.18.5.10

English

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Privacy policy

Terms of service

Cookie preference

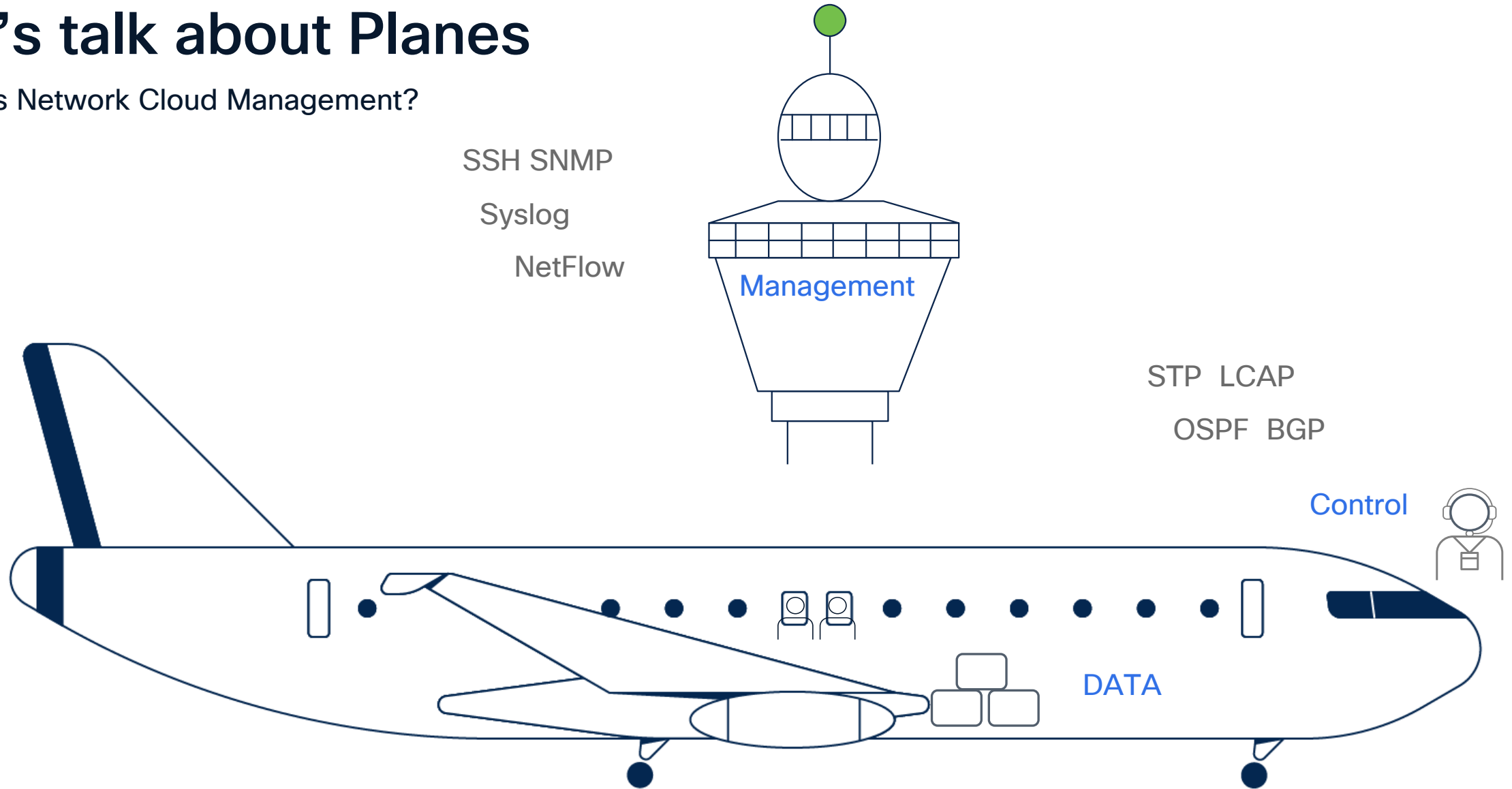


**“Anything that can go wrong will
go wrong”**

Murphy’s Law

Let's talk about Planes

What is Network Cloud Management?



**What happens if my network
loses connectivity to the Meraki
Cloud?**



***Your network continues
to operate****

Advanced Capability and Visibility

Tips and Tricks

Firmware

- Organised into Stable > SRC > Beta
- All releases are fully Supported by Meraki Support
- Release Notes for each version
- Central management means issues can be detected early
- One version per network
- Set an upgrade window for each network

Firmware upgrades

Try beta firmware

No

[What is this?](#)

Upgrade window

Friday

12am

AEST

[What is this?](#)

Switch firmware

The switch in this network is configured to run the latest available firmware.
Last upgraded on Wednesday, May 28, 2025 at 18:55 AEST.

☐ Reschedule the upgrade to: at AEST

☐ Perform the upgrade now

☒ Upgrade as scheduled

Latest firmware versions

Stable

Stable release candidate

Beta

Other available versions

i

Cloud management with IOS XE for C9000 switches is available starting from IOS XE 17.15. Try the new 17.15 firmware, downgrading to CS firmware is restricted. [Learn more](#)

MR 31.1.8

Released Sep 3, 2025

[Release notes](#)

MX 19.1.11

Released Sep 9, 2025

[Release notes](#)

MV 7.1.1

Released Sep 20, 2025

[Release notes](#)

MT 2.0.1

Released Aug 27, 2024

[Release notes](#)

MG 4

Released Aug 27, 2024

[Release notes](#)

IMPLIES

CURRENT VERSION

FIRMWARE TYPE

STATUS

AVAILABILITY

Any networks

Any version

Any firmware type

Any status

Any availability

Current firmware	Firmware type	Status ▲	Availability
MS 17.2.1.1 / IOS XE 17.15.3	General Availability	Good ⓘ	Up to date
MR 32.1.4	Beta	Good ⓘ	Up to date
MX 19.2.1	Beta	Critical - August 01, 2025 ⓘ	Upgrade
MV 99.9	General Availability	Good ⓘ	Up to date
MT 2.0.1	General Availability	Good ⓘ	Up to date
MX 18.211.2	General Availability	Critical - August 01, 2025 ⓘ	Upgrade
MX 18.211.2	General Availability	Critical - August 01, 2025 ⓘ	Upgrade
MV 9.99	General Availability	Good ⓘ	Up to date
MR 30.7	General Availability	Critical - May 05, 2025 ⓘ	Upgrade
MT 1.4	General Availability	Critical - April 12, 2024 ⓘ	Upgrade

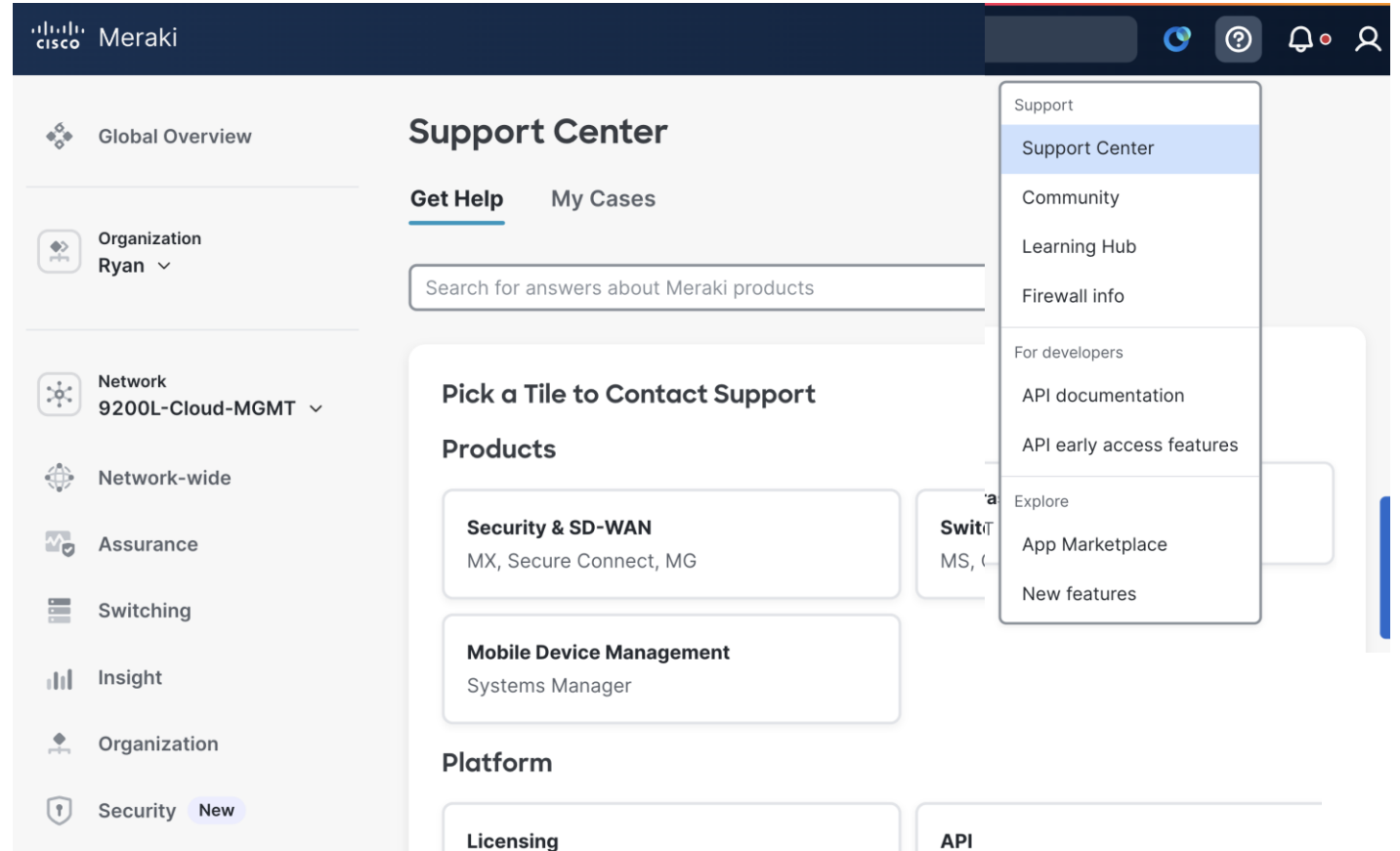
Your firmware is out of date and may have security vulnerabilities and/or lack key performance improvements. We highly recommend that you upgrade to the latest stable or latest beta firmware release.

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BRKMER-1074

Support

- Global Support 24 x 7
- Log a case directly from dashboard
 - (24 hour SLA)
- Call in for urgent support
 - (Instant troubleshooting)



Support Passcode

F1C1

My profile

Tags

- Start with Tag's
- Tag Uses
 - Reporting
 - Configuration
 - Upgrades

 Network

Meraki San Francisco

SFO12

 Secure Connect

Network-wide

Assurance

Security & SD-WAN

Switching

Wireless

Systems Manager

Cameras

Sensors

Insight

Organization

Automation

Access Manager New

Switch Ports

for the last day

Edit

Aggregate

Split

Mirror

Unmirror

Tags

Search...

help

12355 switch ports

☐	Switch / Port	Tags ▲	Name	Type	VLAN	Received bytes	Sent bytes	Status
☐	sfo12-4-1-sw-01 / 1 details	<div>"Cisco" "access"</div>		trunk	native 84	103.6 MB	119.4 MB	<div></div>
☐	sfo12-4-1-sw-01 / 2 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 3 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 4 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 5 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 6 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 7 details	<div>"Cisco" "Corp" "access"</div>	<div>filter by s</div>	185, voice 152	-	-	<div></div>	
☐	sfo12-4-1-sw-01 / 8 details	<div>"Cisco" "Corp" "access"</div>	<div>access ▼</div>	185, voice 152	-	-	<div></div>	
☐	sfo12-4-1-sw-01 / 9 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>
☐	sfo12-4-1-sw-01 / 10 details	<div>"Cisco" "Corp" "access"</div>		access	185, voice 152	-	-	<div></div>

10

▼

results per page

Global Status Page

Out of band system for Meraki outage notifications



Meraki

SUBSCRIBE TO UPDATES

All Systems Operational

About This Site

Welcome to the Meraki Status Page. This page is designed to communicate incidents that impact many customers, an entire service, device type, or region. It does not reflect scheduled maintenance or service outages that fall below the threshold mentioned above.

Past Incidents

Oct 16, 2025

No incidents reported today.

Oct 15, 2025

Meraki Support Phone Outage

Resolved - The issue involving customers being unable to reach our support team via phone has been resolved.

Privacy, Compliance and Data Retention

- Useful Links
 - Meraki.com/trust
 - https://documentation.meraki.com/General_Administrati on/Privacy_and_Security/Dashboard_Data_Availability

Overview

Our Data Centers

Storage Architecture

User/Management Data Segregation

Security Tools

PCI Compliance Tool

Privacy and Data Protection

Subprocessors

Service Level Agreement

Vulnerability Reporting & Rewards

Location Analytics

Technical and Organizational

Overview



99.99% Reliability SLA



Highly Available Redundant Architecture



Meraki Dashboard ISO/IEC 27001 Certified



Meraki Dashboard SOC 2 Type II Certified

Cisco Meraki operates the industry's largest-scale cloud networking service. The Cisco Meraki cloud service powers millions of networks worldwide and connects hundreds of millions of devices every day. Cisco Meraki scales to fit the needs of businesses of every size, supporting networks with hundreds of thousands of devices at full enterprise scale, as well as small businesses with only a handful of users. Cisco Meraki also has extensive experience in the cloud, having run its cloud networking service continuously for more than 10 years. The Cisco Meraki cloud platform is trusted

Feature Involved	Dashboard Element	Rest of the World
Clients	Client Association Table	1 year
Clients	Client RSSI	2 hours
Splash Stats	Splash Log-Ins	2 months
Bluetooth	BLE Clients List	3 months
Radius	Radius Accounting	1 month

Early Access Page

Access to new features

Meraki Early Access Program New

Welcome to the Meraki Early Access Program! This is a list of all the early access features that you can enroll in and try out.

A-Z

▼

Dashboard

Access Manager

Authenticate and authorize users/endpoints, enable access control and/or micro-segmentation easily, without needing external RADIUS.

Opt-in settings

▼

Dashboard

AI Assistant

The Cisco AI Assistant is a proprietary conversational AI interface designed to optimize network management, automate routine tasks, and promote proactive troubleshooting.

Opt-in settings

▼

Security & SD-WAN

AnyConnect VPN Settings - Updated Look and Feel

An updated look and feel for the AnyConnect VPN Settings tab on the Client VPN page

Opt-in settings

▼

Configuration Templates

- Templates are useful for large scale
- Gotcha's
 - Single firmware upgrade
 - Specific overrides only
 - No nesting of templates
 - New dashboard features lag

This network is acting as the configuration template for 1 network.

Addressing & VLANs

Configuration templates list > **TELEWORKER - US**

18 networks are bound to this configuration template.

☐ Name ▲
☐ Teleworker - Andres Quintero
☐ Teleworker - Andy Schmidt
☐ Teleworker - Betty Chang
☐ Teleworker - Brandon Funkhouser
☐ Teleworker - Claudio DeSouza
☐ Teleworker - David Hardek
☐ Teleworker - Dennis Adams

Integrations and Marketplace

Integrations

[Browse](#)[My integrations](#)

Cisco Products

Innovate and integrate with Cisco products.

**Catalyst SD-WAN**

✓

Connect to a Catalyst SD-WAN overlay to enable simple SD-WAN interconnects.

SD-WAN

**Cisco XDR**

✓

Send flow telemetry to identify and prioritize security incidents.

Analytics

**Splunk**

✓

Monitor network and security events in your environment.

Network Security

Ecosystem Partners

Explore and integrate with ecosystem partner applications.

**Genea Security**

By Genea

Set up to view Genea physical access control events on the Meraki Vision Portal.

Physical access control

**PagerDuty**

By Cisco

✓

Send Meraki alerts to PagerDuty to respond to network incidents.

Incident Management

Find apps:

FEATURED PICKS

AIOPS

SUSTAINABILITY

COMPUTER VISION AI

Security Operations

Network Operations

Wi-Fi Based Services

Internet of Things

Managed Services

**Red Hat Ansible Automation Platform**

PARTNER OF THE MONTH

Red Hat Ansible Automation Platform

Red Hat® Ansible® Automation Platform is Red Hat's enterprise IT automation solution that includes everything needed to build...

See details

Previous winners

New Apps

VIEW ALL →

**ElastiFlow**

ElastiFlow

AI

ElastiFlow delivers real-time, contextualized visibility into all connected services and applications across complex

**Megaport**

NaaS | Private Connectivity On-Demand

Megaport is changing how businesses connect their infrastructure. Build secure, scalable, and agile networks in

**Switch Port Manager by BOUNDLESS**

Switch Port Manager by Boundless automates bulk Cisco Meraki switch-port configuration across sites in minutes, cutting

Popular Apps for Enterprise IT

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BRKMER-1074



Network Wide > General

- Set Time, Traffic Analytics and Firmware Preference

Local time zone

Australia - Sydney (UTC +... ▾)

Traffic analysis

Detailed: collect destination hostnames ▾

Custom pie chart

No slices specified.
[Add a slice](#)

Firmware upgrades

Try beta firmware

No ▾
[What is this?](#)

Upgrade window

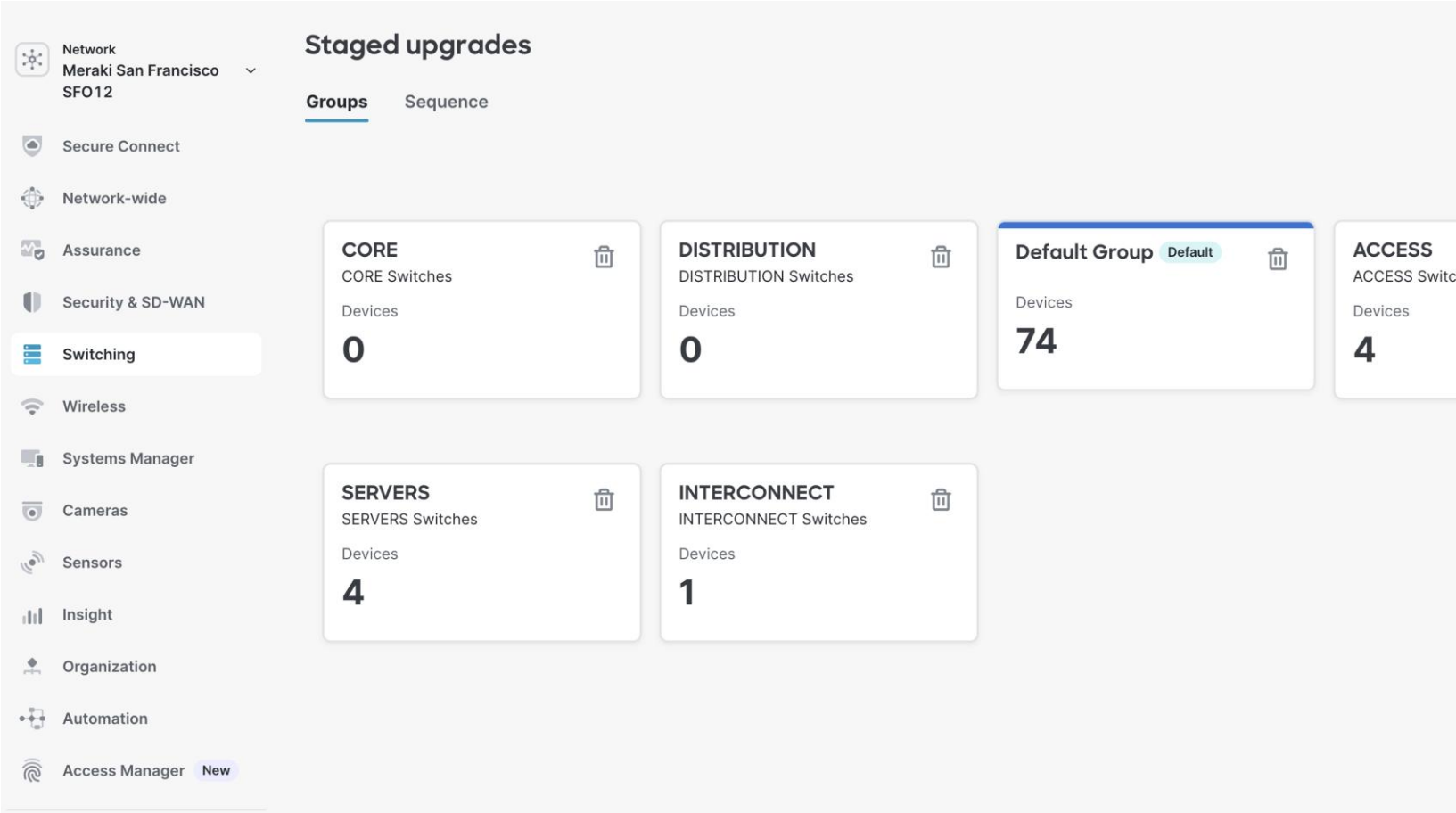
Tuesday ▾ 11pm ▾ AEDT
[What is this?](#)

Switch firmware

The switches in this network are configured to run the latest available firmware.
Last upgraded on Saturday, May 24, 2025 at 09:00 AEST.

☐ Reschedule the upgrade to: at AEST

Staged Upgrades (Switching)



Local Status Page

Not status.meraki.com

- 'Console' for Cloud Managed devices
- Web ONLY
- **Local** Device Status Page
- **Remote** Device Status Page
 - Same Page different ways to access it
- No Device Status Page for MT, or MV

The screenshot displays the Meraki Local Status Page in a web browser. The browser's address bar shows the URL `10.128.128.126/#connection`. The page header includes the Cisco Meraki logo and navigation tabs for **Connection**, **Neighbors**, and **Configure**.

The main content area is divided into two sections. The left section, titled **Healthy**, features a large green checkmark icon and the text "This access point is functioning normally". The right section, titled **Access Point details**, contains a table with the following information:

Access Point details	
Name	FrontRoom-CW9164
Network name	Flame
Hardware address	cc:9c:3e:
Product model	CW9164I

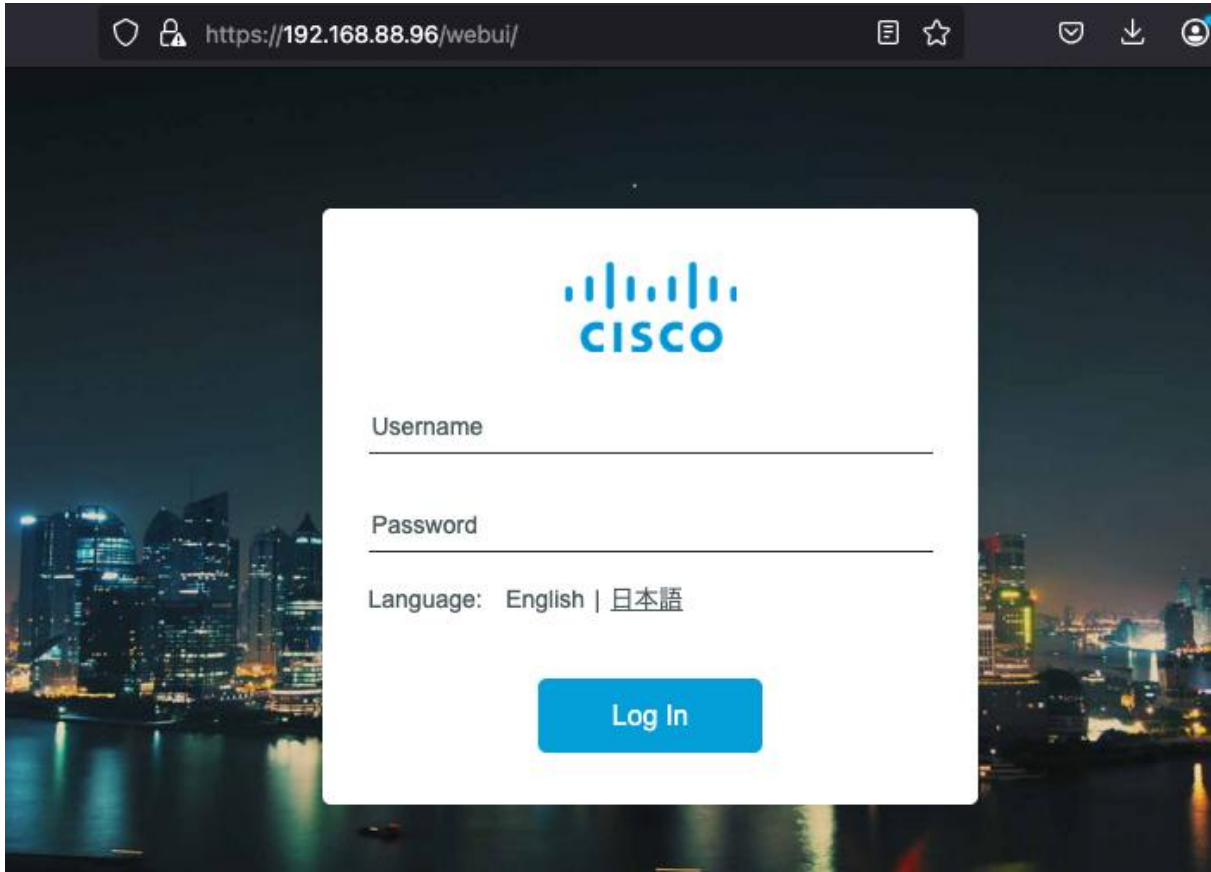
Below the status and details sections is the **Device configuration** area. It includes three settings:

- Local device status pages**: Set to "Local device status pages enabled". Below this is a link "What is this?".
- Remote device status pages**: Set to "Remote device status pages disabled". Below this is a link "What is this?".
- Local credentials**: Includes an information icon and a blue banner with the message: "If you did not set the LSP password at the time of network creation after Aug 1 202 Please update it before your first LSP use. Passwords are not recoverable and must".

The **Local credentials** section also contains input fields for **Username** (with the value "admin") and **Password** (with the placeholder "New password" and a toggle icon). An **Update password** button is located at the bottom of this section.

Cloud Native IOS XE Device Status Page

New Device Status Page GUI



← Cisco

Cisco C9300-24P
17.18.1prd5

Welcome admin

Search Menu Items

Connection

Administration

Switchport

✓

Healthy

This Switch is functioning normally

Client Connection

Client IP192.168.88.115

Switch Details

NameRIC-AccessSW01-1

Network NameCloud Native IOS XE - switch

Hardware Addressa4:10:b6:47:49:80

Product ModelC9300-24P

EthernetThis switch is directly connected to a local network.

IPv4 address: 192.168.88.96

IPv4 VLAN: 1

Cisco Meraki CloudThis switch is successfully connected to the Cisco Meraki Cloud

VLAN Utilisation

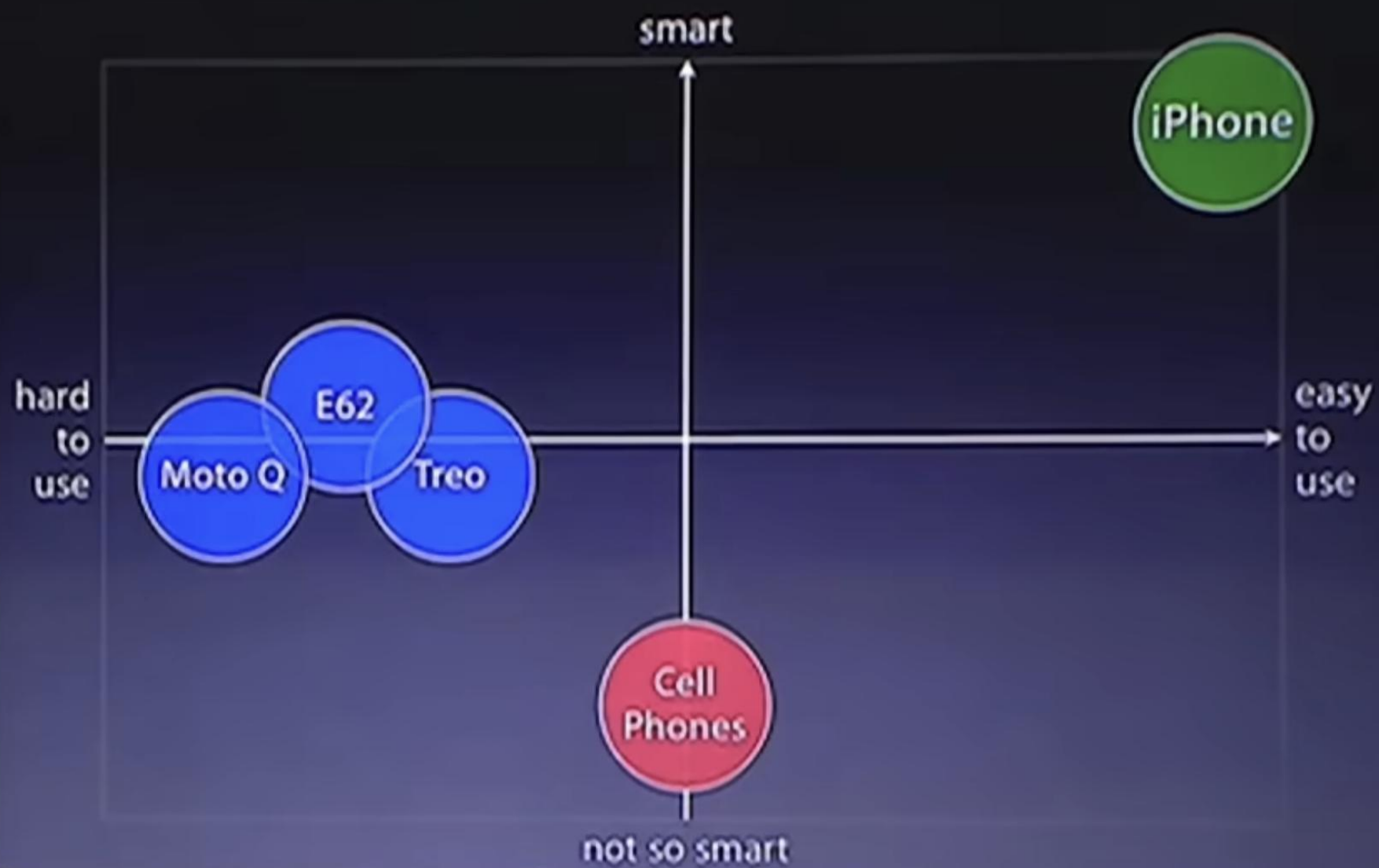
	VLAN List	VLAN Count
Port primary or allowed VLANs	1-1000	1000
Access port voice VLANs	-	0
Access policy guest VLANs	-	0
Critical VLANs	-	0
Critical Voice VLANs	-	0
Failed VLANs	-	0
SVI L3 Interface VLANs	1, 55, 200-201, 950	5
Management VLANs	1	1
All VLANs in use	1-1000	1000

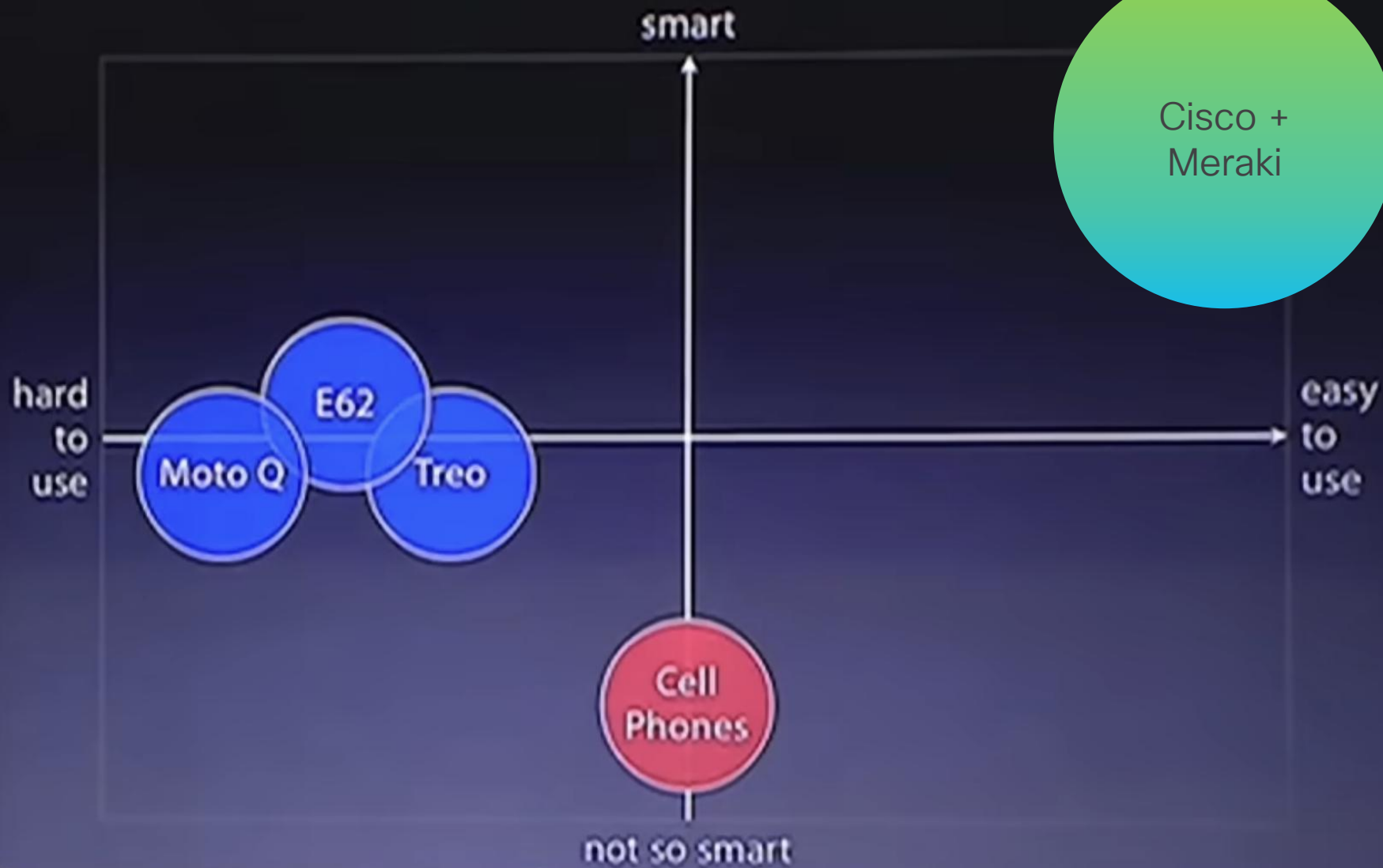
Stacking Status

MAC Address	Product Model	Role
a410.b647.4980	C9300-24P	Active

Roadmap

- Extended device support
 - Routers
 - Industrial
 - Modular Chassis Platforms
- Cloud Fabric
- Access Manager





Complete your session evaluations



Complete a minimum of 4 session surveys and the Overall Event Survey to claim a Cisco Live T-Shirt.



Earn up to 800 points by completing all surveys and climb the Cisco Live Challenge leaderboard.



Level up and earn exclusive prizes!



Complete your surveys in the Cisco Live Events app.

Continue your education



Visit the Cisco Stand for related demos



Book your one-on-one Meet the Expert meeting



Attend the interactive education with Capture the Flag, and Walk-in Labs



Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

Contact me at: Insert preferred comms method

Thank you

CISCO Live !

