



Cloud or on-prem management possibilities

Agenda

- Name Change
- Prime EOS
- Prime migration options
- Cloud Management / Wired n Wireless med Meraki og Catalyst
- Prime to Catalyst Center Migration (BRKOPS-2450)

Simplified branding for the Cisco Catalyst Stack: Cisco is now connecting the power and flexibility of the Catalyst brand across the entire enterprise networking stack with **Catalyst Center** (formerly DNA Center), Catalyst Software and Licensing (formerly DNA Software and Licensing), Catalyst Wireless, Catalyst Switching, Catalyst Routing, and Catalyst SD-WAN (formerly Cisco SD-WAN or Viptela SD-WAN).

Catalyst Center is the new DNA :-)

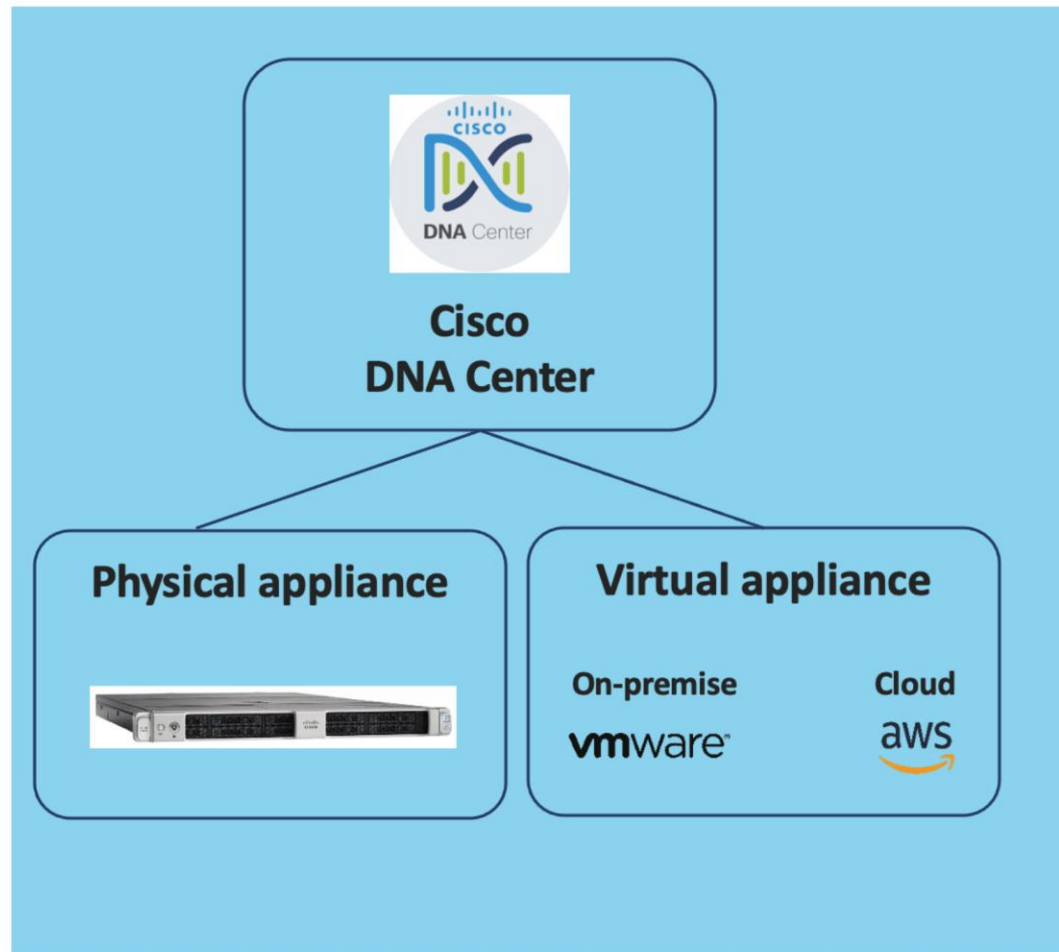
!!! Fysisk DNA-Center UPDATE !!!

Næste generation Catalyst Center “DN3”, Ordreability NU, FCS April 2024!

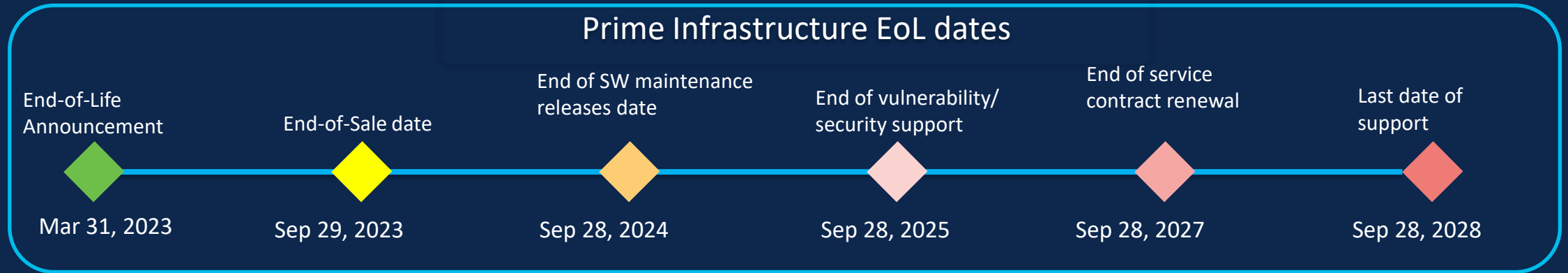
Cisco DNA Center virtual appliance options:

- Amazon Web Services (AWS)
- VMWare ESXi

Full feature, scale and device support parity with Cisco DNA Center physical appliance



Prime Infrastructure EOL Timeline



Have discussions with your customers about
what is best for them at this important crossroads

What is their vision for

1. Network management
2. Hardware refresh
3. Network features complexity

These discussions need
to start today.

Prime Customer Philosophy



*"We have a large investment of Catalyst infrastructure with
No current refresh plans"*

and/or

*"We have **complex networking** needs (e.g., SDA)"*

Lead with



Cisco DNA Center

Appliances

We have refreshed/are refreshing to the latest Catalyst hardware and want to slowly move to cloud.

and/or

We want Catalyst core and Meraki edge devices

Lead with



Meraki

Catalyst in Meraki
dashboard

*"We are planning to refresh our entire Catalyst infrastructure and want a **cloud -first solution**"*

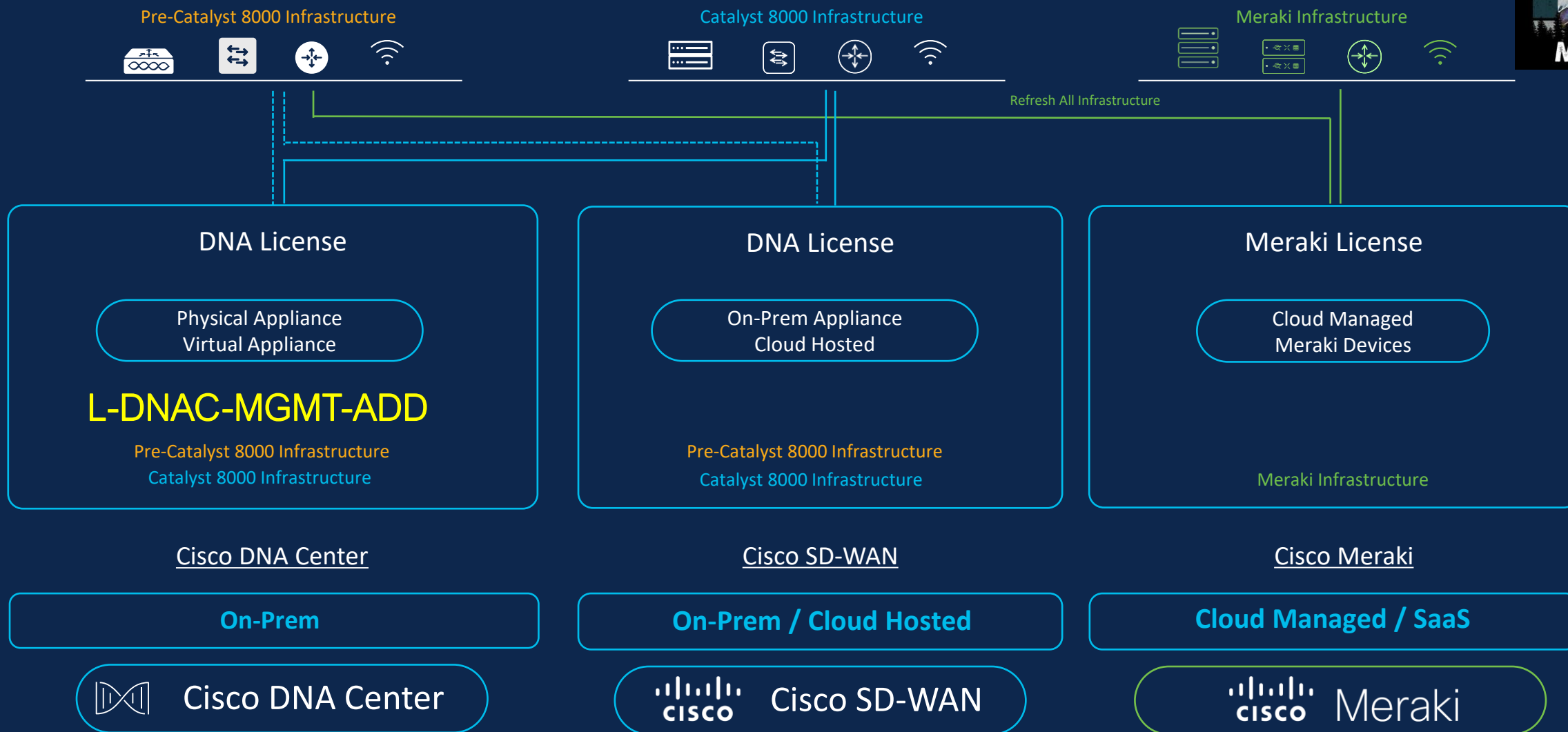
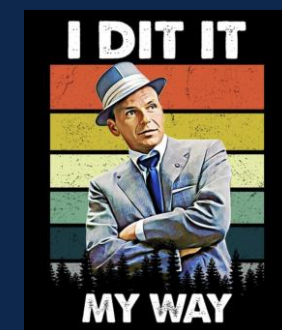
Lead with



Meraki

Cloud-Managed

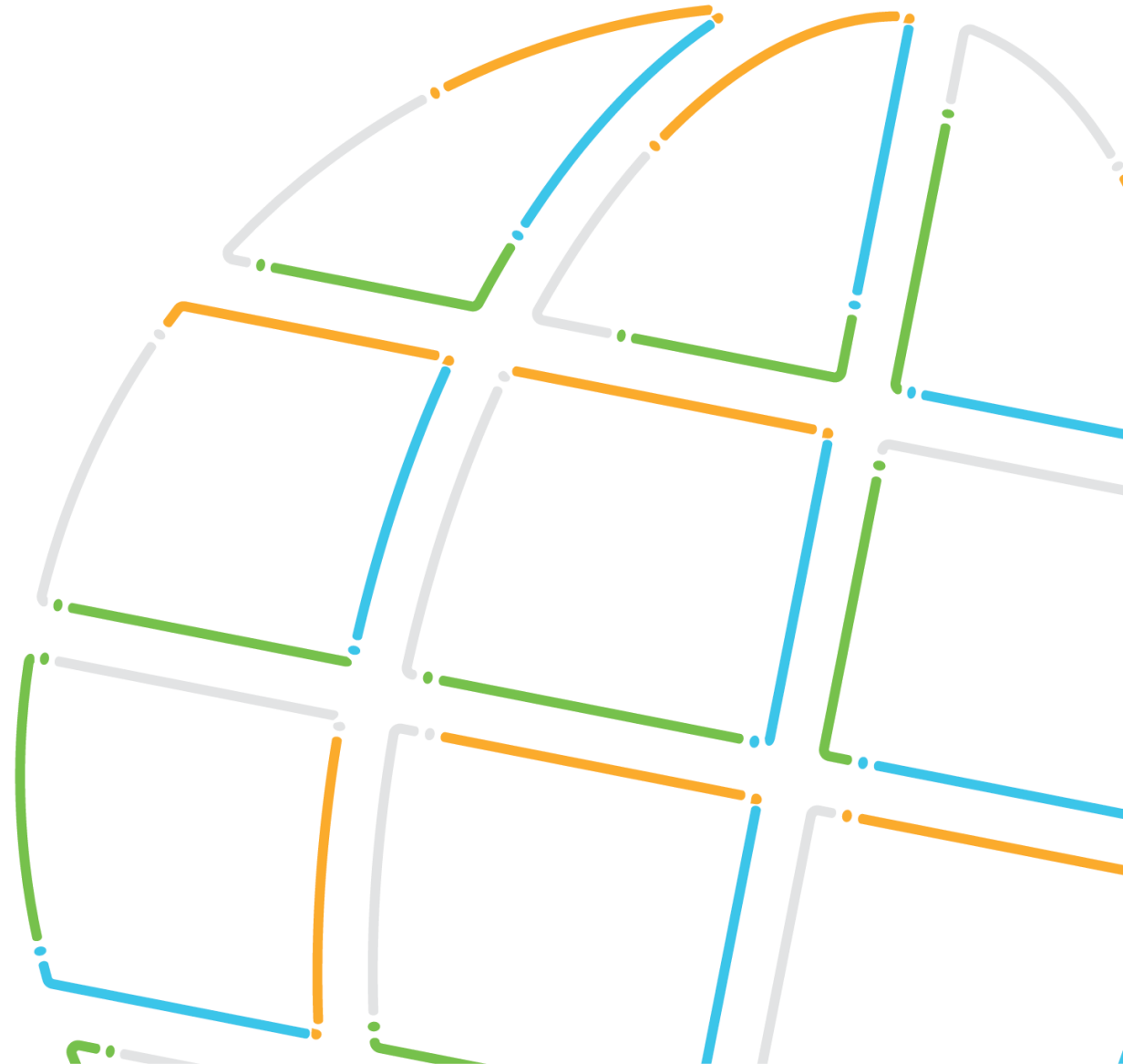
Options: Your IT Operation Model, Your Way





Cisco / Meraki

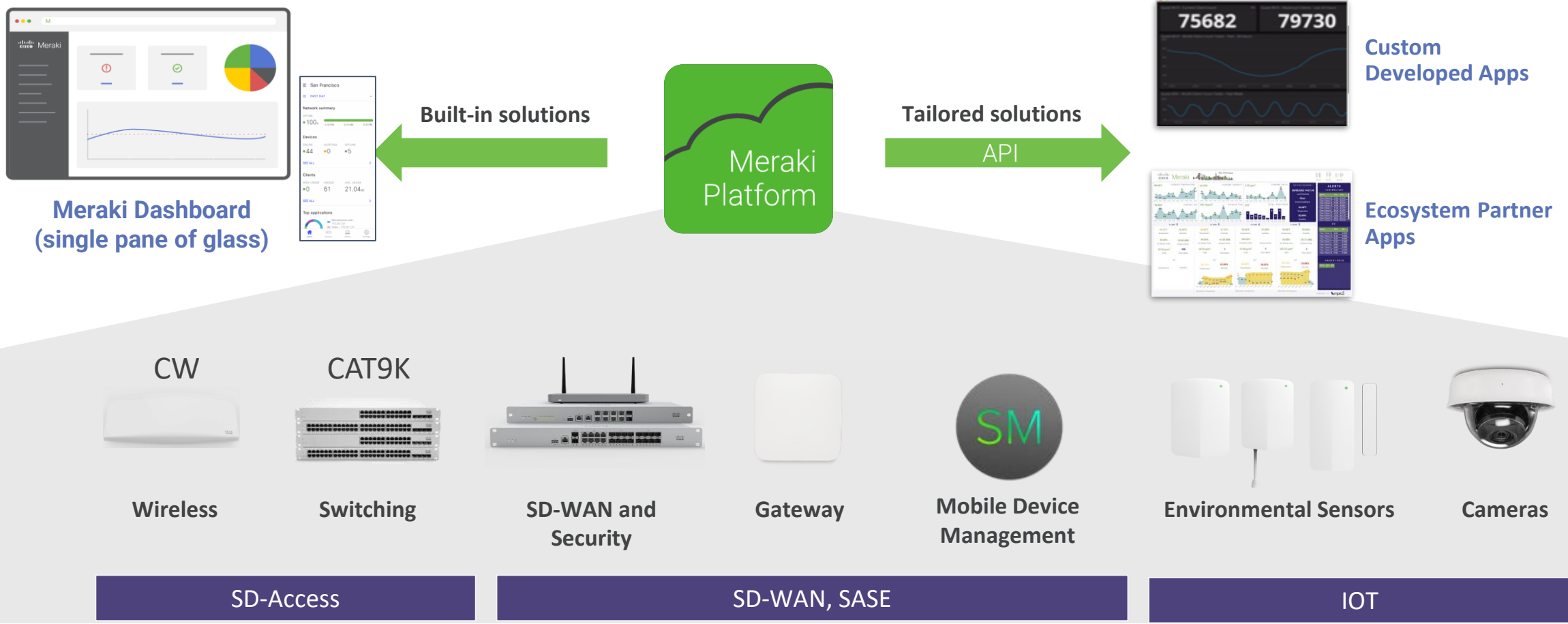
Cloud Management / Wired n Wireless

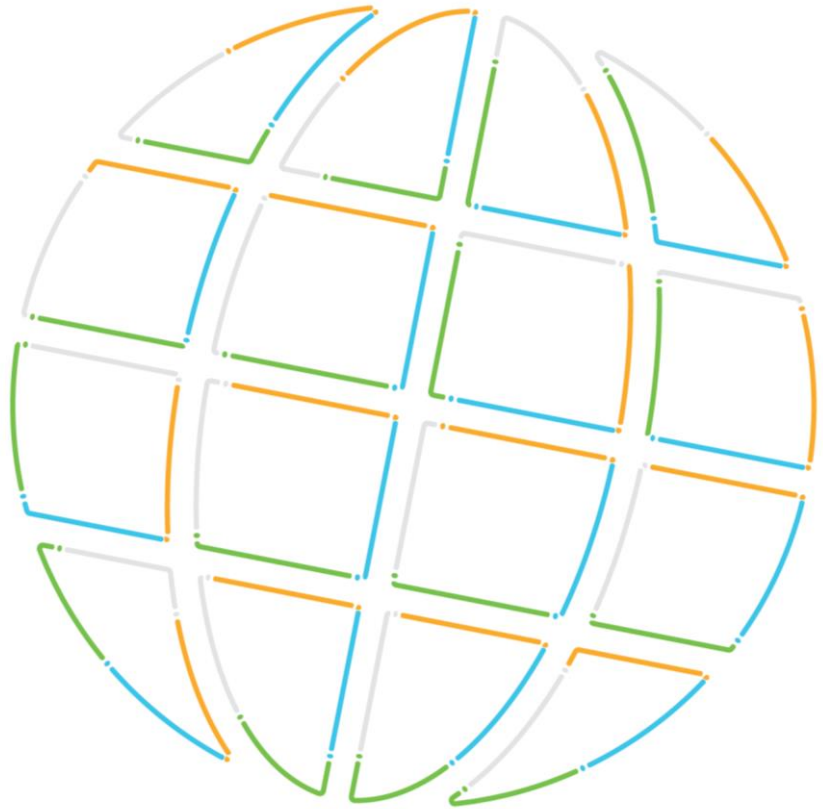


Agenda

- Short Intro of Cloud
- Catalyst Cloud Monitoring/Management Road Map
 - - Switching Monitoring, Managed, Firmware Train
 - - Switching – New Mgig models and Rugged
 - - Onboarding APP via DASHBOARD
 - Wireless update, indoor, outdoor, Directional
- LIVE DEMO
 - CAT9300-M Managed
 - CAT9200L Monitored
 - APP onboarding
 - MS130 Managed
 - CW91XX Series

Cloud Platform & API Solutions





Catalyst Cloud Monitoring & Managed

Cloud Monitoring for Catalyst

On-premise functionality in the cloud | Deployed and managed by you

Unified view of Cisco network infrastructure

Device health and troubleshooting

Network client and traffic information

Models

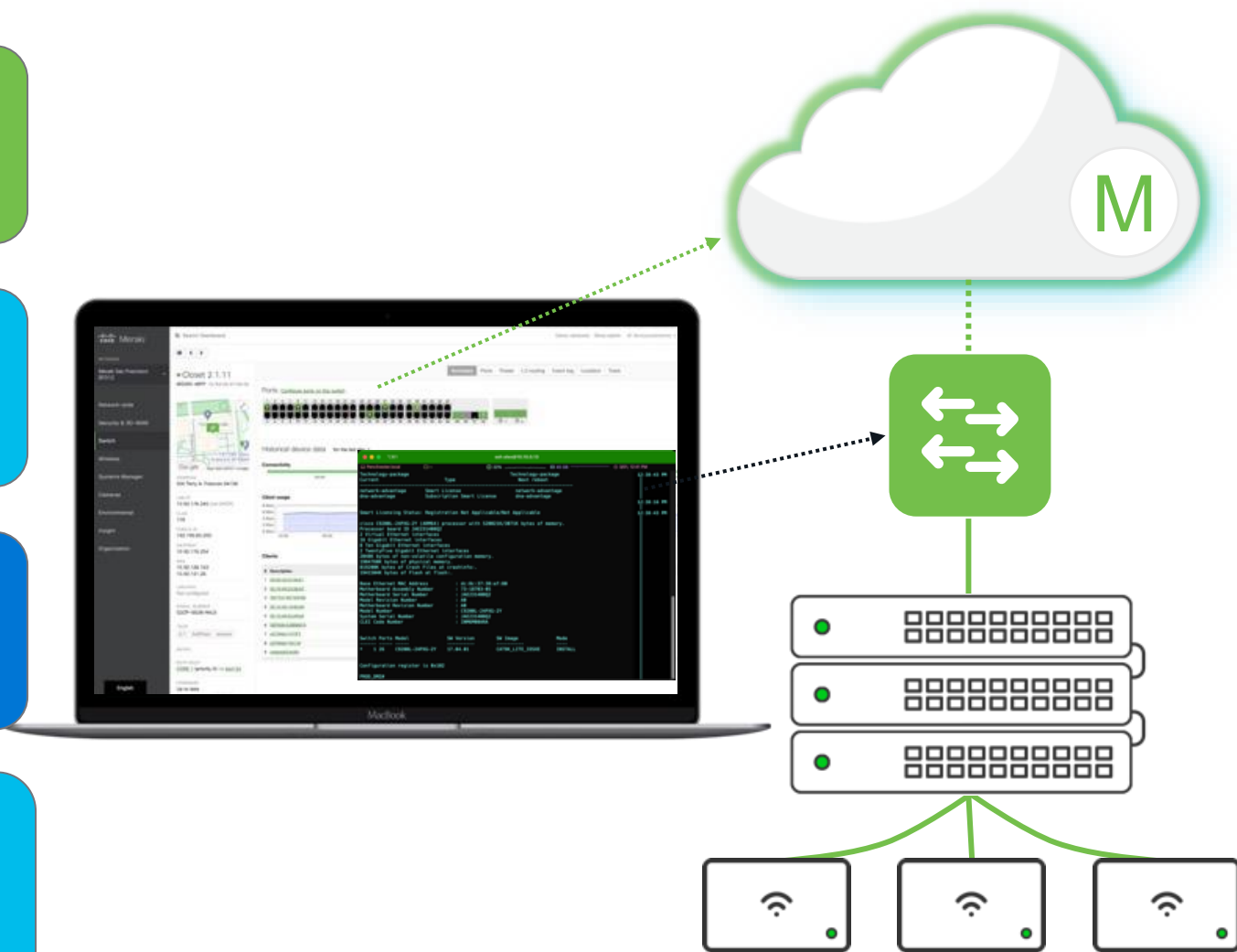
switching (92xx,933xx & 95xx) & Wireless
CW 91xx and 98xx

Firmware

IOS-XE 17.3+
(Switching)
IOS-XE 17.12.X#
(Wireless)

Licensing

DNA Advantage
DNA Essentials*



Cloud Monitoring Roadmap

What's next for cloud monitoring?

Today

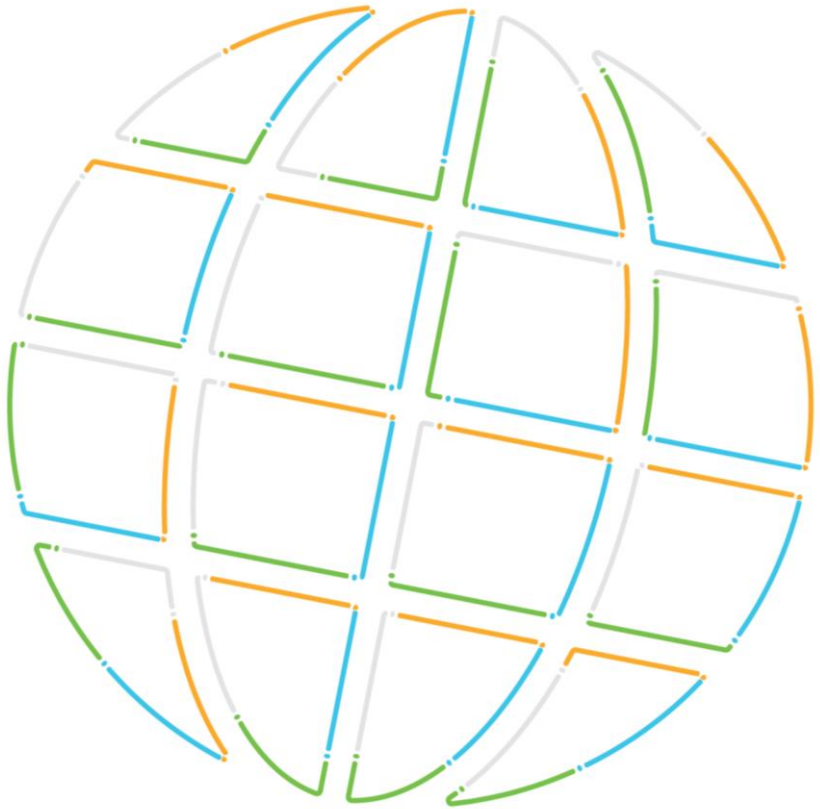
- Onboarding of 9200 / 9300 / 9500
- Catalyst Switching in Meraki Topology
- Client, port, and application visibility
- Live Tools

Next

- MS Parity/Equivalence
 - Alerts & Events
 - L2/L3 Visibility
 - More live tools
- Ongoing C9K switch support
- C9k wireless support

Strategic

- Co-existence with DNAC
- Raw IOS-XE configuration visibility
- Firmware Management
- Support for Chassis switches
- License Management / Enforcement



Switching

Supported Platforms and Software for Monitoring



Models

Catalyst
9200/L
9300/L/X
9500

Firmware

IOS-XE 17.3+

Licensing

DNA Advantage
DNA Essentials

Supported Platforms and Software for Monitoring



Everyone can
onboard their
CAT9K's into Cisco
Meraki Dashboard

Easy and simple
via the REGISTER
COMMAND / CLI

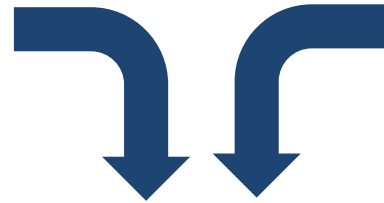
[Cisco Cloud Management
for Catalyst](#)

[Catalyst 9300 migration to
Meraki Cloud Management](#)



Available in DNA Essentials and DNA Advantage

Advantage Licensing
Traffic Analytics



Essentials Licensing
*** No Traffic Analytics***

Read-only configuration

Converged client view

Port bandwidth usage

Troubleshooting tools

Firmware tracking

Unified topology

Supported Platforms and Management & SW support



Models

Catalyst

9300-24T/48T

9300-24P/48P

9300-24U/48U

9300-24UX

9300-48UXM

9300-UN

Firmware

IOS-XE 17.8.1+

Modules

9300-NM-8X

9300-NM-2Q

9300-NM-4X

Independent Software for MS and CS switches

Coming Soon

Release Agility

Organization > Firmware upgrades

What?

Firmware will independently be released for “CS” and “MS” switches, where CS includes MS390 as it is a Catalyst-based platform

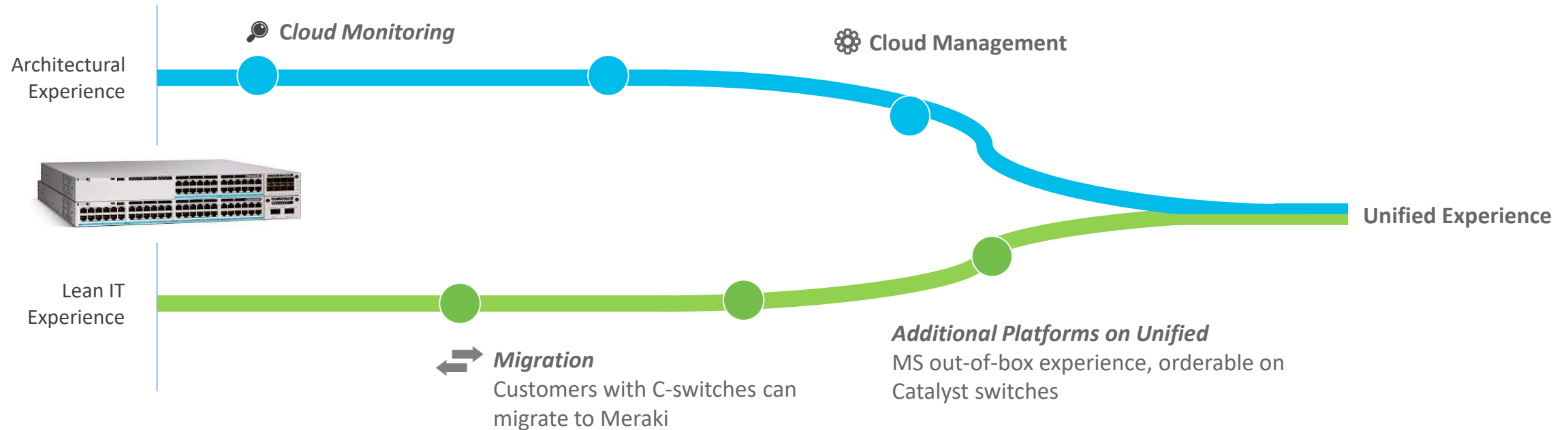


Why?

Ensures **release agility** for both platforms in the portfolio as our Catalyst-based lineup expands

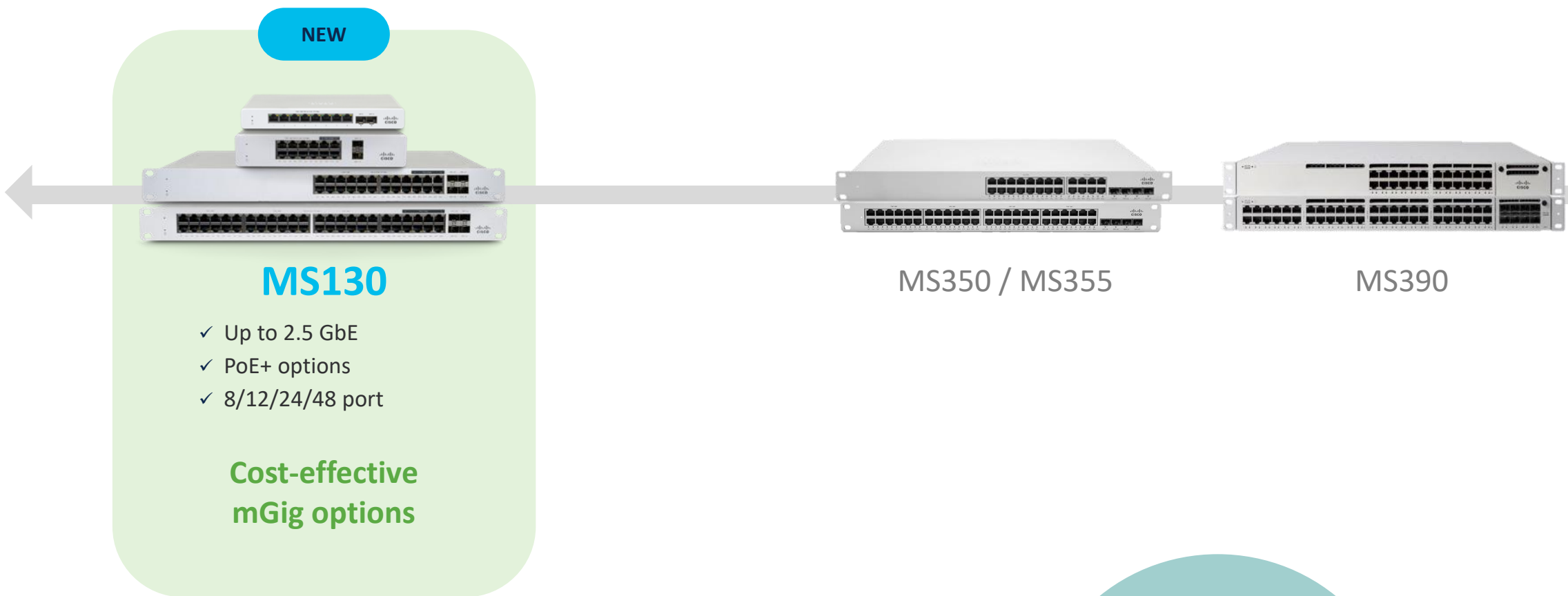
What's next for Catalyst + Meraki?

Our architecture is evolving, and so is the product strategy



Expanding mGig into the layer 2 access portfolio

With MS130, you now have cost-effective mGig options



MS130 series overview

Gigabit SKUs



MS130-8

- 8x 1 GbE
- 2 SFP
- Compact



MS130-8P

- 8x 1 GbE + 2 SFP
- PoE+ (120 W)
- Compact



MS130-24

- 24x 1 GbE
- 4 SFP
- 1RU



MS130-24P

- 24x 1 GbE + 4 SFP
- PoE+ (370 W)
- 1RU



MS130-48

- 48x 1 GbE
- 4 SFP
- 1RU



MS130-48P

- 48x 1 GbE + 4 SFP
- PoE+ (740 W)
- 1RU

Multi-gig SKUs



MS130-8X

- 6x 1 GbE + 2x 2.5 GbE
- PoE+ (120 W)
- 2x SFP+; compact



MS130-12X

- 8x 1 GbE + 4x 2.5 GbE
- PoE+ (240 W)
- 2x SFP+; compact



MS130-24X

- 18x 1 GbE + 6x 2.5 GbE
- PoE+ (370 W)
- 4x SFP+; 1RU



MS130-48X

- 40x 1 GbE + 8x 2.5 GbE
- PoE+ (740 W)
- 4x SFP+; 1RU

Say hello to the first Meraki cloud-managed ruggedized switch



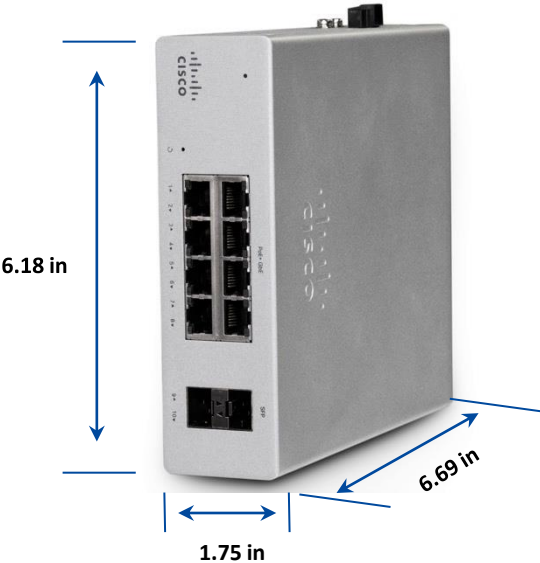
As low as

-40°C

Up to

70°C

MS130R specifications



Dimensions	1.75 in x 6.18 in x 6.69 in (4.4 cm x 15.7 cm x 17 cm)
Interface and uplinks	8x 1 GbE RJ45 and 2x 1 GbE SFP
PoE+ Budget	Up to 240 W
Power Input	54 V, 2.78 A
Power Supply	External AC adapter or DIN rail power supply options
Operating Temperature	As low as -40 °C up to 70 °C (-40 °F - 158 °F)
Weight	2.12 lbs (0.96 kg)
Supported Cisco ruggedized SFPs	<ul style="list-style-type: none">• GLC-SX-MM-RGD• GLC-LX-SM-RGD• GLC-ZX-SM-RGD• GLC-T-RGD

	Installation environments			
	Fan/blower equipped enclosure	Vented enclosure	Sealed enclosure	Desktop
Ventilation	200 LFM	40 LFM	0 LFM	40 LFM
Operating Temperature limits	-40 °F to 158 °F -40 °C to 70 °C	-40 °F to 149 °F -40 °C to 65 °C	-40 °F to 140 °F -40 °C to 60 °C	Vertical -40 °C to 60 °C Horizontal -40 °C to 55 °C

Flexible deployment options

Mounting options



DIN rail



Wall mount



Rack mount

Mounting brackets included in the box

Power supply options



Meraki AC adapter
MA-PWR-300W-INDADP

Also compatible with Cisco's IE DIN rail power supplies



PWR-IE240W-PCAC-L



PWR-IE480W-PCAC-L



Catalyst Meraki 9300-M

Catalyst Meraki 9300 Series Overview

Orderable With Meraki Day-0 Experience

Gigabit

Up to 1 GbE



C9300 24/48 T

- 24/48x 1G copper
- Data only
- 40G/10G/1G fiber modular uplink options

C9300 24/48 P

- 24/48x 1G copper
- 30 W PoE+
- 40G/10G/1G fiber modular uplink options



C9300 24/48 U

- 24/48x 1G copper
- 60 W UPoE
- 40G/10G/1G fiber/10G mGig copper modular uplink options

Multigig

Up to 10 GbE (mGig)



C9300 24 UX

- 24x 10G mGig
- 60 W UPoE
- 40G/10G/1G fiber modular uplink option

C9300 48 UXM

- 36x 2.5G mGig and 12x 10G mGig
- 60 W UPoE
- 40G/10G/1G fiber uplink option



C9300 48 UN

- 48x 5G mGig
- 60 W UPoE
- 40G/10G/1G fiber/10G mGig copper modular uplink option

Fiber aggregation

10/1 GbE SFP+ fiber



C9300 24S/48S

- 24/48 port 1G SFP
- 40G/10G/1G fiber modular uplink options



C9300X 12Y

- 10G/1G (SFP28)
- 100G hardware-based IPsec



C9300X 24Y

- 10G/1G (SFP28)
- 100G hardware-based IPsec

Gigabit and multi-gig SKUs target ship date: FY24 Q2

Fiber SKUs migration public preview is available; -M SKUs are coming in 2H CY24.

Catalyst 9300 modular uplinks



4x 10G/1G SFP



8x 1/10G SFP/SFP+



2x 100G/40G SFP/SFP+



2x 40G QSFP

SFP/direct attach cables

SFP-1GB-SX
SFP-1GB-LX10

SFP-10GB-LR
SFP-10GB-ER
SFP-10GB-SR
SFP-10GB-LRM

QSFP-40G-LR
QSFP-40G-SR4
QSFP-40G-CSR4
QSFP-40G-SR-BD

CBL-TA-1M
CBL-TA-3M

All relevant Meraki optics are supported on C9300-M models.



50 cm-1 m-3 m



30 cm-150 cm

StackWise® and StackPower cables

Platinum-rated power supplies



315 W AC



715 W AC/DC



1100 W AC

Modular fan



Positioning MS390 v. Catalyst Meraki-M

Existing MS390 customers



Continue order MS390s

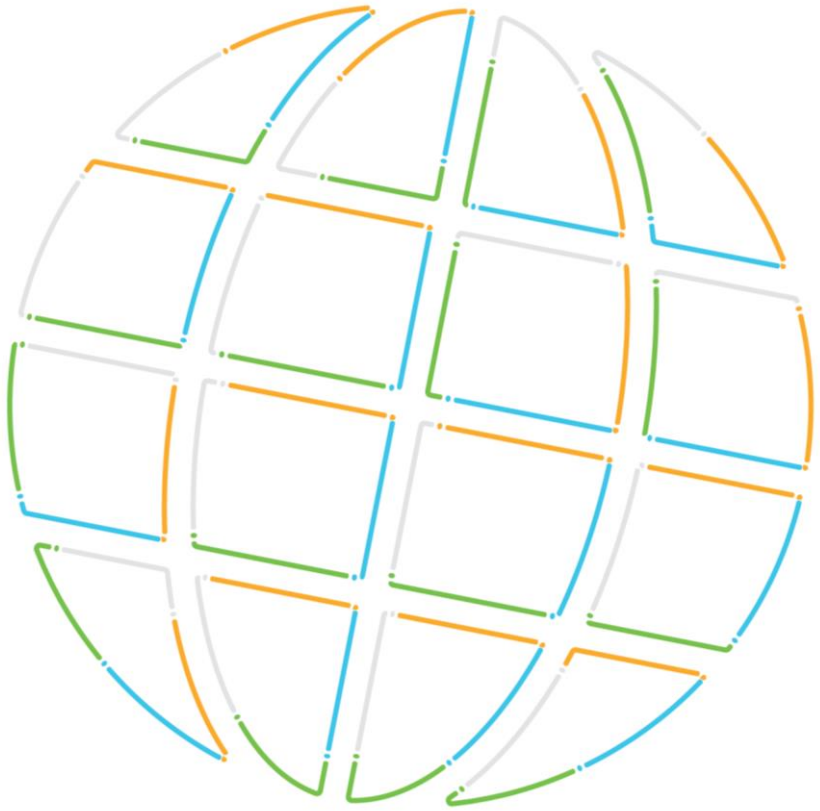
Non-existing MS390 Customers



Start with Catalyst Meraki -M

- MS390 and -M cannot be physically stacked
- No immediate EOS plan. When announce, MS390 and -M will share the same firmware and feature updates.

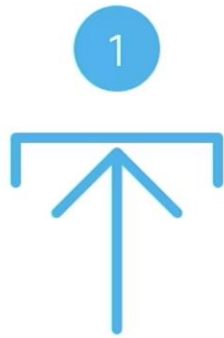
Read FAQs for details



APP onboarding / Catalyst

Supported Platforms and Software for Monitoring

Migration Workflow



SW
Upgrade
IOS-XE
release
(17.8.1+)



Verify
compatibility
and
connectivity



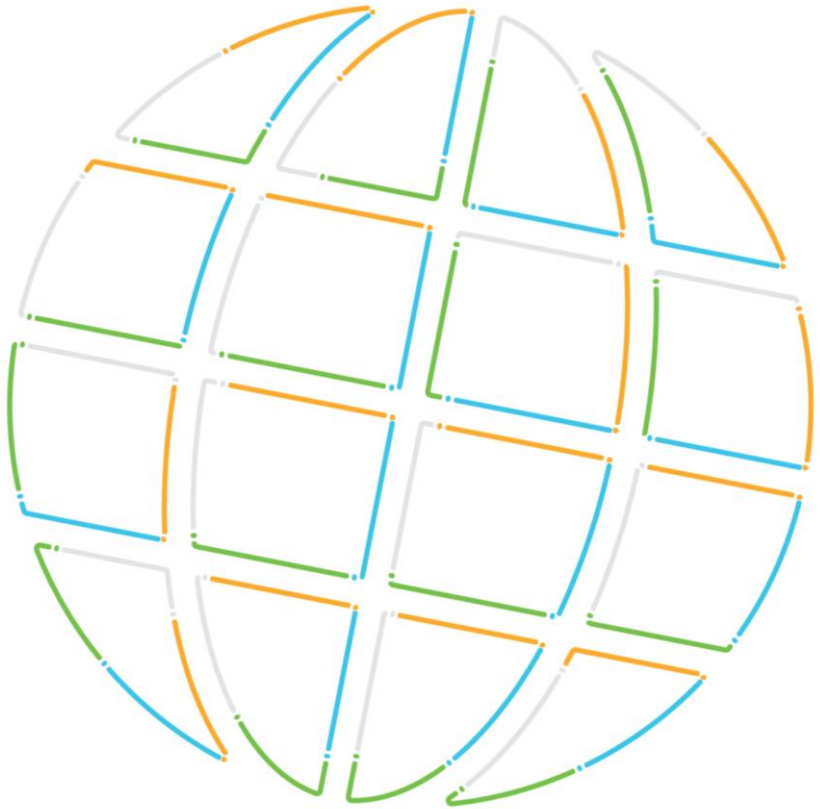
Register
Catalyst with
the Cloud
and
receive/claim
Meraki serial



Start the
Meraki Service



add switch to
network and
configure



Wireless (WLC)

Cloud Monitoring for Wireless – GA Scope

Supported Models

C9100 series APs
CW9100 series APs
2800 series APs
3800 series APs
4800 series APs
9800 series WLCs

Capabilities

WLC status
WLC <-> AP mappings
AP status
Client and traffic visibility
Topology
Subset of live tools
Subset of health features

Architecture

Physical WLCs only
Standalone WLC supported
Active/Standby HA supported



Access Points

One Hardware Product – Two Management Modes- Same Experience

In Meraki Management mode, **SAME**
-out of box experience – HW and SW quality
-dashboard experience -trial -support –sales
comp as all MR APs

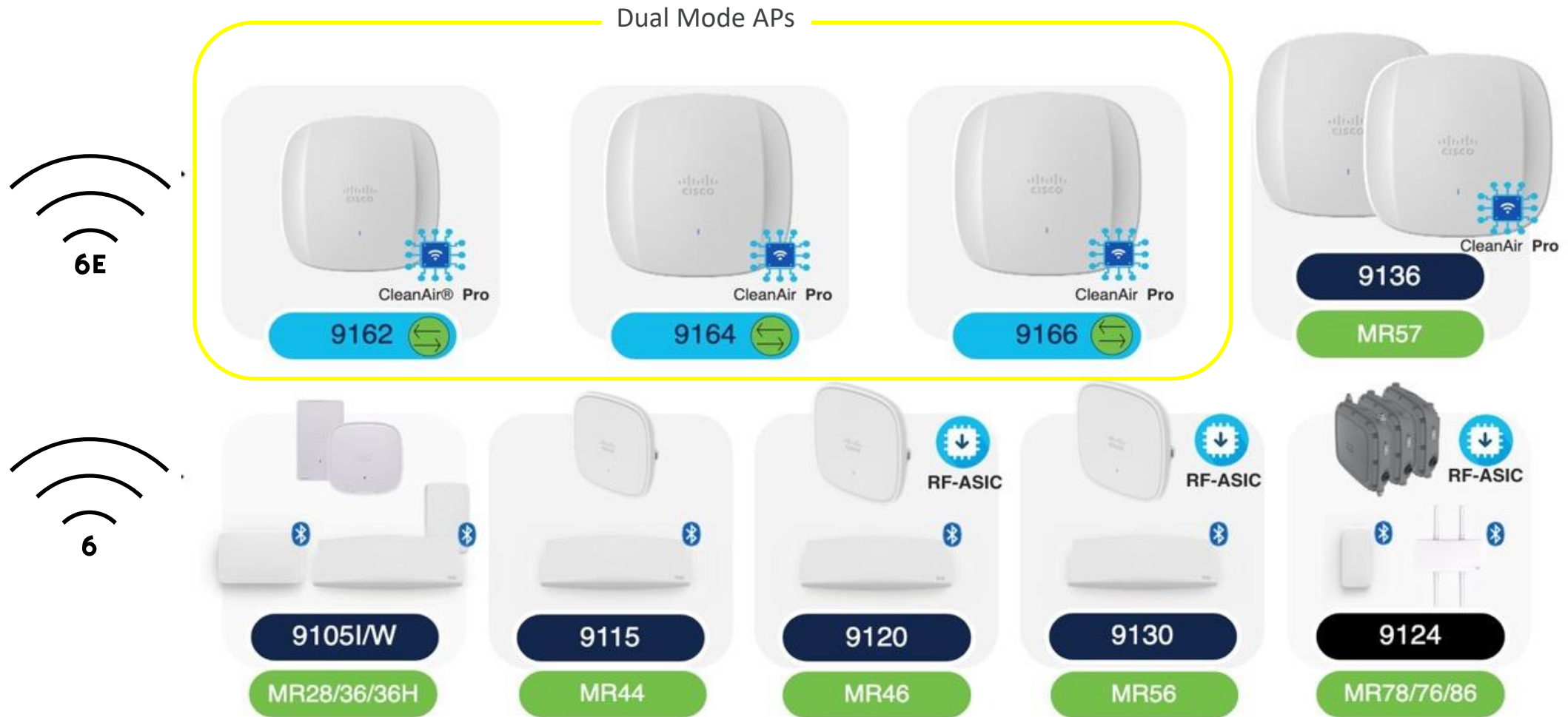


DNA Management Mode
(C9800 + DNA)



Meraki Management Mode
(Meraki Dashboard)

Dual Mode 6E APs



Management mode can be changed



Cisco® Catalyst® 9166D1-x

Directional, Tri-Radio with 12 Spatial Streams!



Orderability in FY '24 Q1



Penta-Radio Architecture

1. 2.4 GHz Client Radio: 4x4:4SS
2. 5 GHz Client Radio: 4x4:4SS
3. 6 GHz Client Radio 4x4:4SS (XOR to 5GHz)
4. Dedicated tri-band auxiliary radio
5. 2.4 GHz IoT Radio



Directional antenna architecture

- 2.4+5 GHz: 6 dBi gain (70x70 deg), 6 GHz: 8 dBi (60x60)*
- Same X,Y as CW9166I – and only 0.1cm taller!
- Wide support for pan/tilt combinations



Internet of Things Capabilities

- Built-In Environmental Sensors
- Application Hosting Technology
- USB port with 4.5 W power output



5 Multigigabit (mGig) PoE Port

- Optional DC Power

Subject to change

*2/5/6 mode

† SW support post-FCS

Global Sales Enablement Team

CW9163E - OUTDOOR

Cisco Wireless CW9163E Access Point

Wi-Fi 6E for outdoor deployments



Cisco® Wireless CW9163E
Outdoor Wi-Fi 6E, Tri-Radio with 6 Spatial Streams



802.3at power to operate in normal mode.



Penta-Radio Architecture

1. 2.4 GHz Client Radio: 2x2:2SS
2. 5 GHz Client Radio: 2x2:2SS
3. 6 GHz Client Radio 2x2:2SS
4. Dedicated tri-band auxiliary radio
5. 2.4 GHz IoT Radio



External Antenna Options

- 2.4GHz + 5GHz + 6GHz Omni Directional Dipole (CW-ANT-O1-NS-00)
- 2.4GHz + 5GHz + 6GHz Patch Antenna (CW-ANT-D1-NS-00, late availability)
- GPS Antenna (CW-ANT-GPS2-S-00)
- 6GHz antenna port is locked to the following antenna PIDs



Standard Power AFC †

- Up to 36dBm EIRP
- Automatic Frequency Coordination (AFC)

† SW support post-FCS

6GHz Standard Power with AFC

2.5Gbps Ethernet Uplink

N-Type Antenna Connectors



The bridge to possible

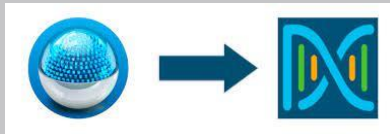
Prime Infrastructure Migration to Catalyst-Center BRKOPS-2540

Cisco DNA-Center Enhancements

INCREASED
SCALE



FEATURE
PARITY



VIRTUAL DNA-
CENTER
IN BOTH AWS
AND ESXI



LEGACY AND
3rd PARTY
(MIB-II)
DEVICE
SUPPORT IN
DNA-CENTER

Start Your Prime to Catalyst Migration

Moving from Prime to Cisco Catalyst Center is easier than ever

Prepare

- Run **PDART** tool on Prime for Catalyst Center readiness:

Migrate

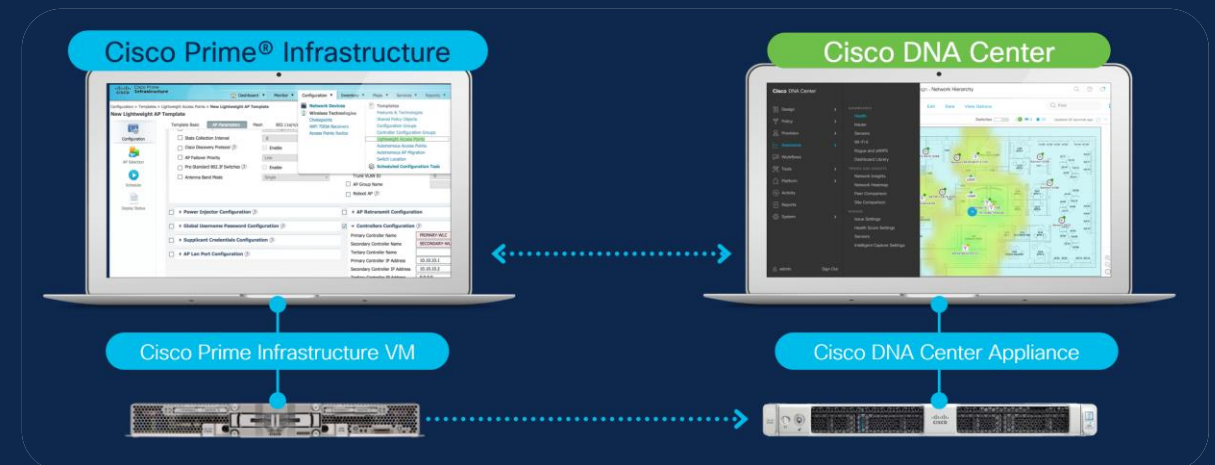
- Automated migrate Prime data, configs, and maps to Catalyst Center **PDMT**

Support

- Cisco Partner
- CS/CX



PDART Tool:



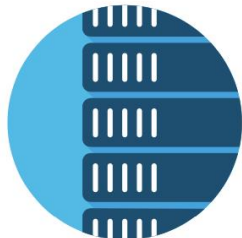
PDART Tool



Cisco DNA Center Ready

Current Cisco Prime Infrastructure Version : 3.9.0

Recommended Cisco DNA Center Version : 2.1.2.6

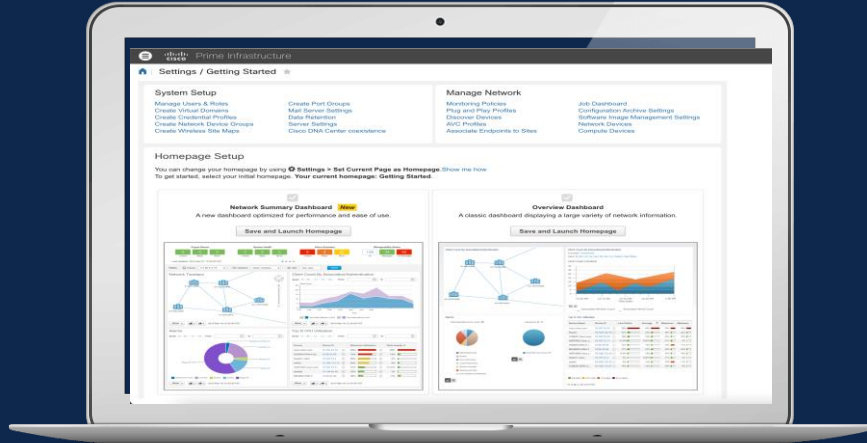


Devices			
518 Total	517 Supported	0 Requires SW Upgrade	1 Unsupported
Use Cases			
48 Used / In Use	47 Supported	1 Unsupported	0 Roadmap
Reports			
14 Used / In Use	12 Supported	1 Unsupported	1 Roadmap
Scale			
Professional Appliance in Use		DN2-HW-APL Recommended Appliance	
Platform			
arook-pi38 Hostname		6 Total Checks Run	

cisco.com/go/primetodnac

© 2019 Cisco and/or its affiliates. All rights reserved. Cisco

Prime Data Migration Tool



Cisco Prime Infrastructure



Maps
Topology
Devices
ISE
CMX



Cisco Catalyst Center

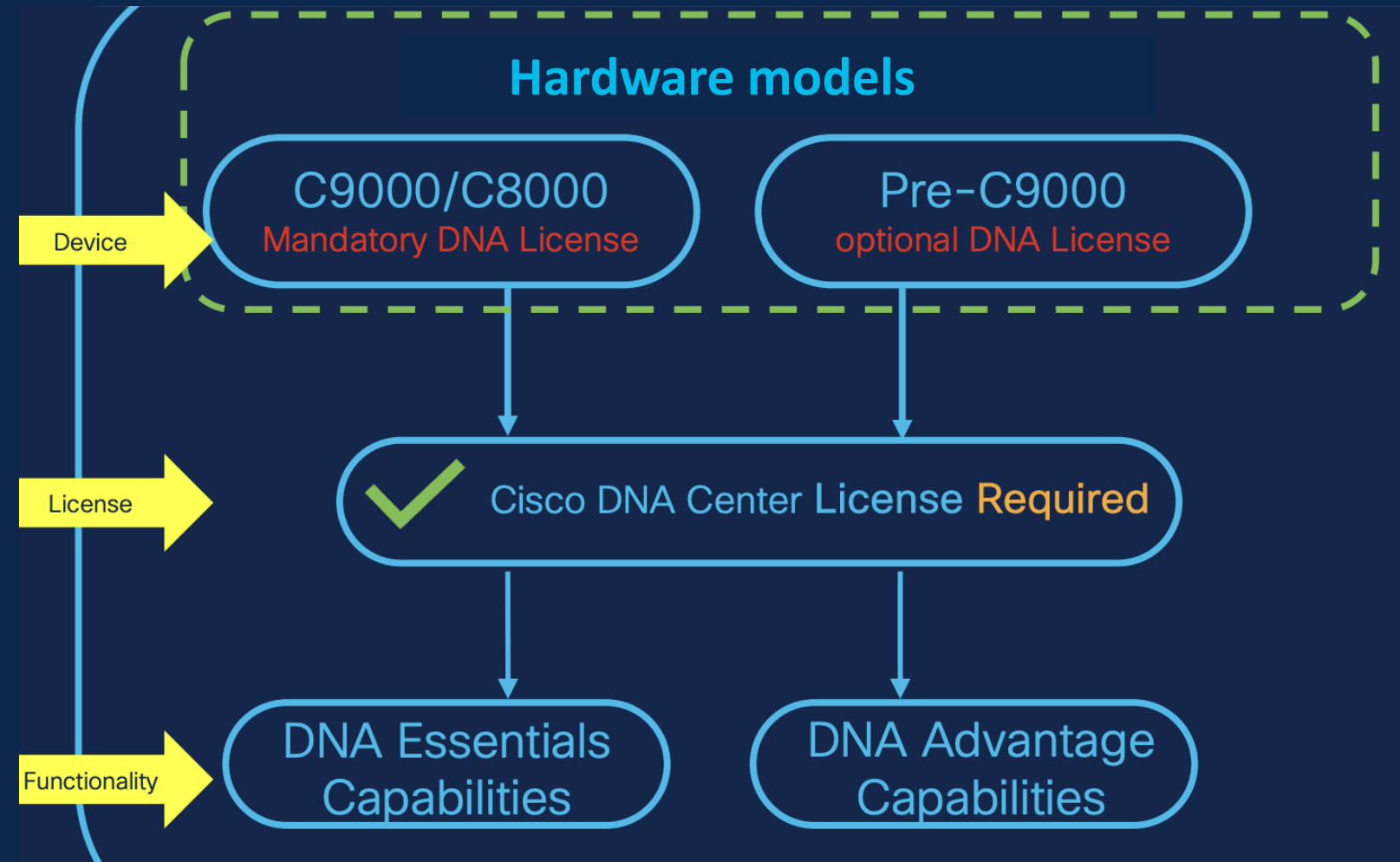


Physical and virtual infrastructure

Og nu til noget rigtigt sjovt



Prime to Catalyst Center licensing



Example devices

Router	Switch	Wireless
ASR 1000	Cat 2960	Aironet 1500
ISR 1000	Cat 3560	Aironet 1600
ISR 4000	Cat 3650	Aironet 1700
C800	Cat 3850	Aironet 1800
C900	Cat 4500	Aironet 2700
Cat 8000	Cat 6500	Aironet 2800
VG 450	Cat 6800	Aironet 3700
ESR 6300	Cat 9200	Aironet 3800
IR 800	Cat 9300	Aironet 4800
IR 1100	Cat 9400	Cat 9100
IR 1800	Cat 9500	WLC 3504
IR 8340	Cat 9600	WLC 5520
	Nexus 7000	WLC 8540
	Nexus 9000	Cat 9800
	IE 2000	IW 3702
	IE 3000	IW 6300
	IE 4000	IW 9167
	Rockwell Stratix	WP-WIFI6

Cisco DNA Center Legacy Device Compatibility Matrix

Cisco DNA Center Legacy Device Compatibility Matrix									
<p>Note: The devices for which Recommended and Compatible Releases are not shown are EOL devices. SWIM images might not be listed in CCO, hence SWIM is not applicable for these device series.</p> <p>Download Excel Format</p>									
Device Series	Device Model	Recommended Release	Compatible Release	Min. Cisco DNA Center Release	Inventory	Topology	SWIM	Config Change Audit (CCA)	Template Provisioning
Cisco 2010 Connected Grid Router	CISCO CGR 2010/K9 CISCO CGR 2010/K9 China	IOS-15.9.3M4	IOS-15.1.4M	2.3.2.0	L	L	L	L	NA
Cisco 2900 Series Integrated Services Routers G2	CISCO2911/K9	IOS-15.6.2T3	IOS-15.0.1M9	2.3.2.0	L	L	L	L	NA
Cisco 2921 Integrated Services Router G2	CISCO2921/K9	IOS-15.6.2T3	IOS-15.0.1M9	2.3.2.0	L	L	L	L	NA
Cisco 2951 Integrated Services Router G2	CISCO2951/K9	IOS-15.6.2T3	IOS-15.0.1M9	2.3.2.0	L	L	L	L	NA
Cisco 3750 Stackable Switches	C3750	-	-	2.3.2.0	L	L	NA	L	L
Cisco 3825 Integrated Services Router	CISCO3825 C3825-35UC/K9 C3825-BIAB-24/K9 C3825-BIAB-24K9-RF	-	-	2.3.2.0	L	L	NA	L	NA

L - Device with limited support. For details, see the "Manage Inventory" section of the *Cisco DNA Center User Guide*.
NA - Device and Application functionality combination is not applicable for a given device.
N - Device is not supported. **Y** - Device is supported.

Hvem kan hjælpe med “The Actual Migration”



Customer Success

- Getting started help
- Explain PDART and PDMT
- Customer “does it themselves”



Cisco CX Program

- Develop a complete lifecycle service starting from migration to adoption, knowledge transfer and documentation



Partner Programs

- Consultancy services



Product
Enhancements

Trainings &
Documentation

Migration Escalations/Support

Tool development & Support

Specifications, Features, and Scale, ESXI/AWS

	Specifications	Scale
Cisco Catalyst Center/Virtual Appliance (VA) on AWS or ESXI	<ul style="list-style-type: none">• Type: OVA or AMI• CPU: 32vCPU• Mem: 256GB• Storage: 4TB (EBS: GP3 SSD)• Storage Bandwidth: 180Mbps (Bi-directional)• IOPS: 2000-2500• AWS Instance Type: r5a.8xlarge	<ul style="list-style-type: none">• 25K End-points• 1K Devices• 4K APs• 1500 sites

CCW for ordering Solution Support for virtual Catalyst Center : **DN-SW-APL**
Support cost is around 6K \$ per year listprice.

Scale parity with current DN2-HW-APL(44 core appliance)

QUIZ

