



L'iNNOvation Full Stack Catalyst

Community Live Webinar

Jérôme DURAND, Technical Solutions Architect
Enterprise Networking France

20 septembre 2022

Présentation



Des nouveaux sujets tous les mois

La Communauté francophone Cisco grandit

Grâce à la participation de tous nos collaborateurs, notre communauté grandit pour vous offrir des nouveaux webinaires sur différentes technologies.

Inscrivez-vous et participez !

[Prochains événements](#)

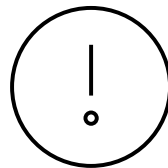
[Événements précédents](#)

[Les dernières \(R\)évolutions du Wi-Fi](#)

le mardi 27 septembre 2022

[Automatisez Votre Réseau avec Cisco DNA Center](#)

le mardi 11 octobre 2022



Connectez, Engagez, Collaborez !

Solutions

Acceptez les solutions qui sont correctes et complimentez ceux qui vous ont aidé ! Aidez autres utilisateurs à trouver les réponses correctes dans la fenêtre de recherche.

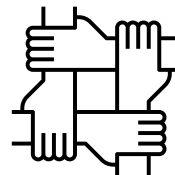
Accepter comme solution

Compliments

Mettez en évidence les autres membres. Les votes utiles motivent les membres enthousiastes en leur offrant un signe de reconnaissance !



0 Compliments

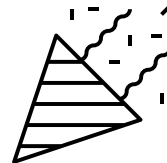


Spotlight Awards

De nouveaux lauréats tous les mois !

Démarquez-vous par vos efforts et votre engagement à améliorer la communauté et à aider les autres membres. Les [Spotlight Awards](#) sont distribués chaque mois pour mettre en valeur les membres les plus remarquables.

Maintenant vous pouvez aussi désigner un candidat ! [Cliquez ici](#)



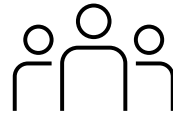
Jérôme Durand

Présentateur

Jérôme Durand a rejoint Gip Renater en 2002. Il a commencé par travailler sur des projets de R&D, mais est rapidement devenu responsable d'exploitation en 2006. En 2009, il prend la responsabilité de l'équipe services. Jérôme a rejoint Cisco en 2011 en tant qu'expert des technologies de routage et de commutation. Actuellement, il est très impliqué dans la programmation et l'automatisation des réseaux, notamment les solutions SD-WAN et SD-Access. Il est également l'auteur de la RFC 7454 - BGP Operations and Security.

Téléchargez la présentation !

<https://bit.ly/WEB2sld-sep22>



Agenda



- Introduction au Catalyst Full Stack
- Nouveautés Catalyst 9000X
- Les nouveaux points d'accès Catalyst Wi-Fi 6E
- Management hybride

- Démonstration de Cisco DNA Center
- Portrait rapide des autres logiciels du full stack Catalyst
- Architectures sur les réseaux d'entreprise

Challenges principaux des réseaux traditionnels



Complexes à administrer

- Beaucoup de type d'utilisateurs, compliqué à configurer
- Plusieurs étapes et intégrations complexes



Résolution d'incident lente

- Politique différencier filaire et Wi-Fi
- Disponibilité des utilisateurs pour investiguer

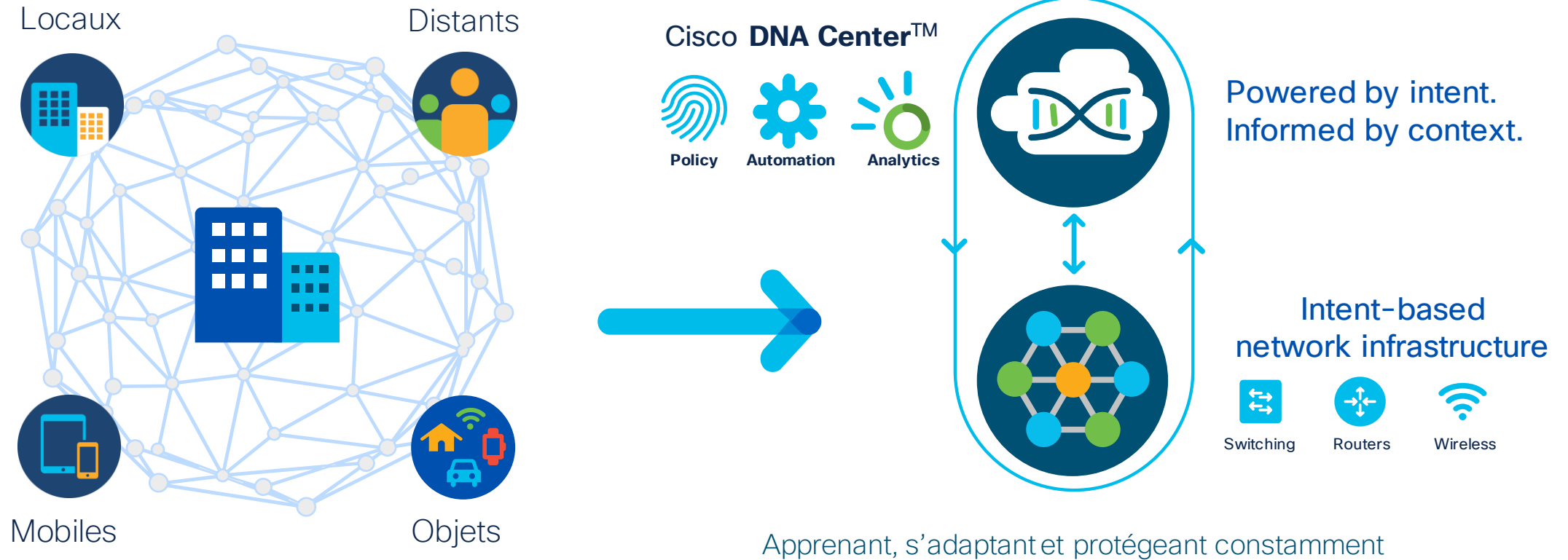


Difficulté pour segmenter

- Toujours plus de terminaux et d'utilisateurs différents
- Toujours plus de VLAN et de sous-réseaux

Les réseaux d'hier ne peuvent pas adresser les nouveaux besoins

Un environnement moderne nécessite un nouveau réseau : Intent-Based Networking (IBN) : Quoi → Comment ?

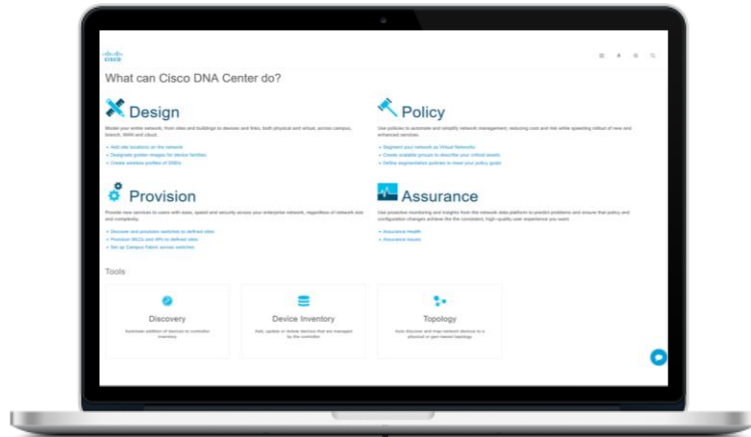


Cisco DNA – Digital Network Architecture :
L'architecture Réseau Digitale de Cisco

Cisco DNA Center

Centre de Commande et de Contrôle pour l'intent-based networking

Cisco DNA Center



Cisco DNA Center Appliance



Physical and virtual infrastructure



Automatisation

ZTP, automatiser le provisioning et les mises à jour des équipements. Gestion du cycle de vie complet du réseau.

AI/ML



Analytics and Assurance

Améliorer la performance du Réseau et passer moins de temps sur le Troubleshooting avec l'Intelligence Artificielle et le Machine Learning



Security and policy

Gestion de la segmentation basée sur des groupes indépendants du réseau. Profiling des équipements et détection des menaces

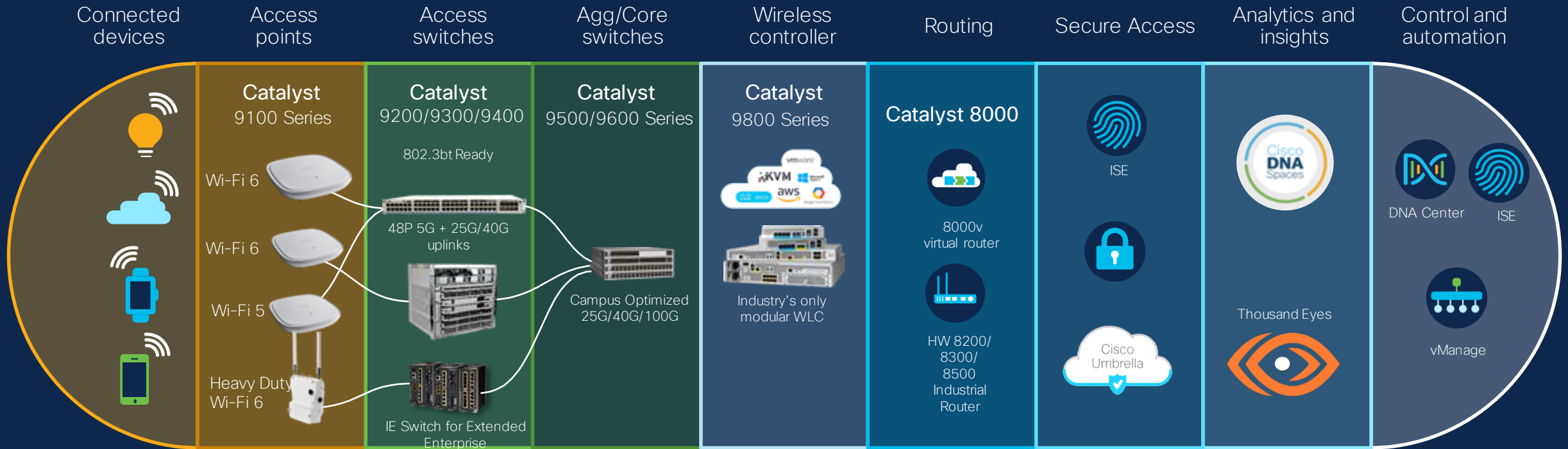
Depuis 2017, Cisco DNA Center manage dans le monde...

6.6M
Network
Devices

36M
Clients



Catalyst Full Stack



Connector | Securiser | Automatiser

Industry Leadership



Cisco IOS-XE
Common operating system



UPOE



Custom ASICs



Container APP Hosting

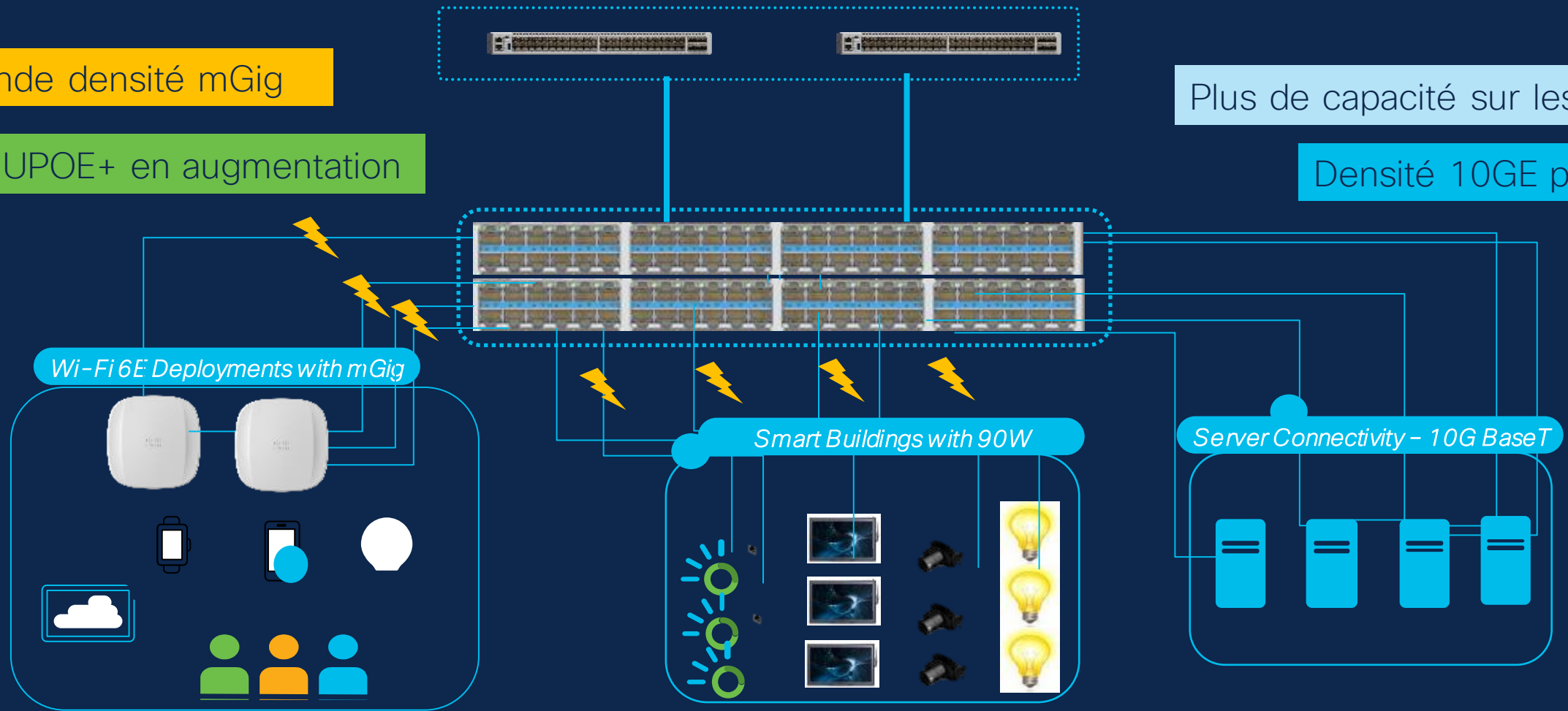
Confirmation des tendances sur les réseaux d'accès

Plus grande densité mGig

Besoins UPOE+ en augmentation

Plus de capacité sur les uplinks

Densité 10GE plus forte



New Access requirements for Future Campus

Dernières innovations pour le travail hybride

NEW

Cisco Wi-Fi 6E



Catalyst 9136



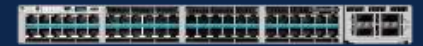
Catalyst Wireless 916X

NEW

Cisco Catalyst 9000X switches



Catalyst 9200CX
compact



Catalyst 9300X



Catalyst
9400X



Catalyst
9500X/9600X
with Silicon One



Expériences
inégalées



Bâtiment intelligent
et durable



Sécurise l'IoT et
permet de résister
au facteur d'échelle

← Pour les métiers et l'agilité des équipes IT →

Quoi de neuf côté Enterprise Switching ?

Catalyst 9000 innovations

30 years of technological leadership

Cisco Launches Networking Platform That Will 'Redefine The Network For The Next 30 Years,' Says CEO Robbins

'Today we are bringing a subscription methodology to our core networking portfolio,' said Cisco CEO Chuck Robbins during a media and analyst event in San Francisco Tuesday.

By [Mark Haranas](#)

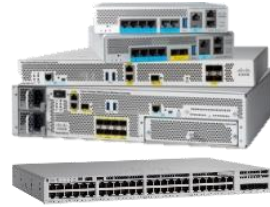
June 20, 2017, 03:29 PM EDT



First Catalyst:
Catalyst® 5000
launched



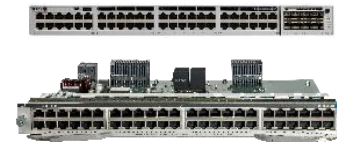
Catalyst 9000
family launched



Catalyst 9200 and
9800 Series launched



Catalyst 9600 Series
launched



Catalyst 90W PoE/UPOE+
line introduced



Catalyst 9300X fiber and
microswitches launched



Catalyst 9000X
/ 9200CX
models launch

1993

2017

2018

2019

2020

2021

2022

Innovations pionnières

Software-Defined Access

100 Gigabit Ethernet

90W Cisco UPOE®+

Smart buildings

Line-rate IPsec

Programmability

MACsec 256

BGP EVPN

SD-AVC

100G uplinks in
access,
400G in core

StackWise® Virtual

Encrypted Traffic Analytics (ETA)

SDM templates

Cisco ThousandEyes
serviceassurance

WAN MACsec

Hot patching

Assurance

PTP/AVB

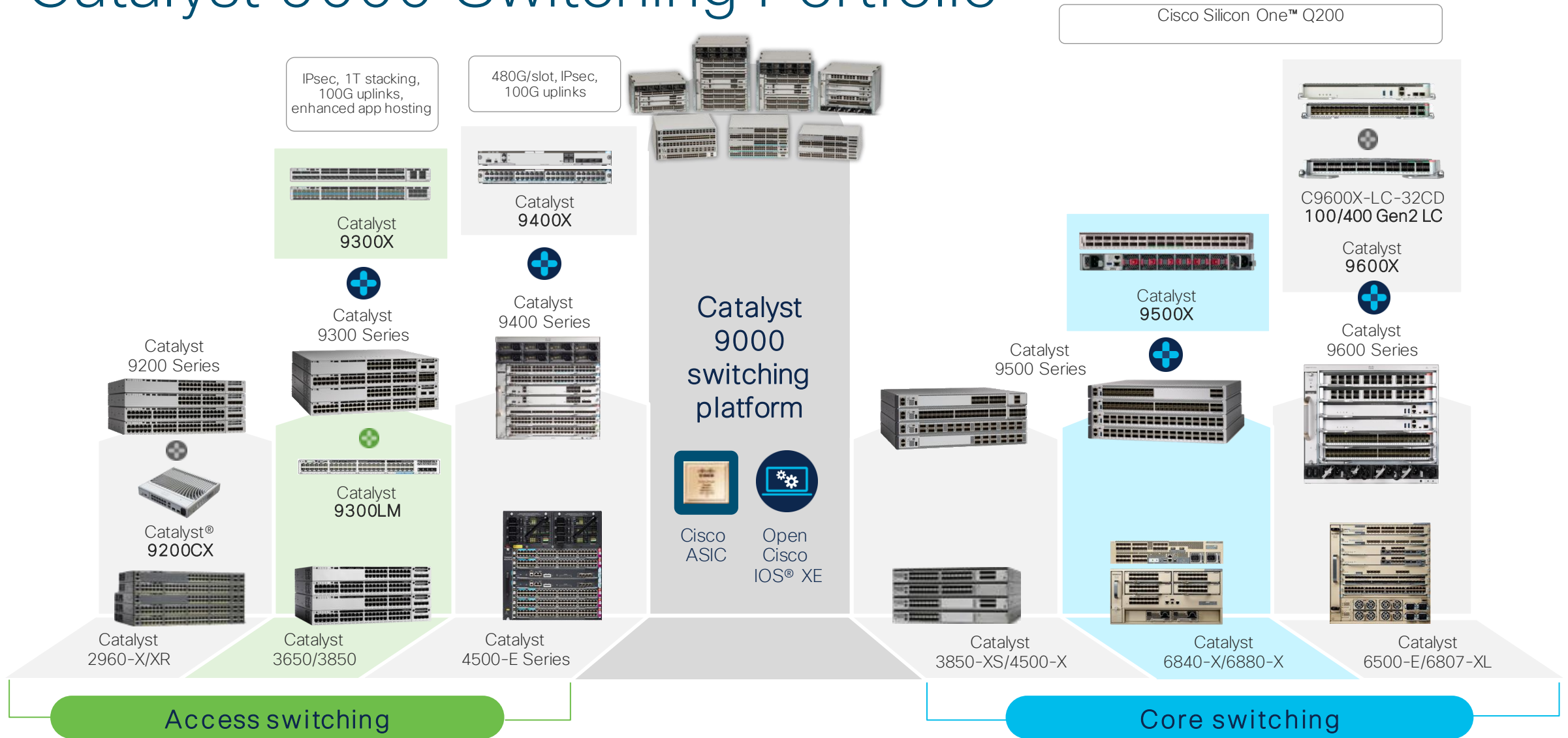
ISSU/ GIR

App hosting

xFSU lossless upgrades

ASAv

Catalyst 9000 Switching Portfolio





48x mGig (10G)

48x 90W UPOE+

1 Tbps Stacking

IPsec Encryption

100G Uplinks

Enhanced App Hosting

9300X

Catalyst 9400X

Modular Access delivering ever-increasing value

384 Ports of 10G SFP+ or mGig

Enhanced Scale & Performance

100G Uplinks

336 Ports of 90W

Maximum Investment Protection



New Supervisors
Sup2 and Sup2 XL

New Line Cards
48 Port 10G SFP+
48 Port Full mGig (10G)

Unmatched Flexibility

Maximum Investment Protection

100G Leadership in Access

Cisco Silicon One™



Switching Silicon

- **High Throughput**
extremely fast hardware-based L2-L4 forwarding and services (measured in Terabits per second)
- **Optimized Scale**
optimized for Campus LAN environments with moderate IP & MAC scale (10s-100s of thousands)
- **Low Latency**
extremely low hardware-based system latency (measured in Nanoseconds & Microseconds)
- **Streamlined Buffering**
shallow buffering systems to reduce latency, with very high throughput



Routing Silicon

- **Flexible Features**
complex, stateful L3-L7 forwarding and services (measured in Gigabits per second)
- **Massive Scale**
optimized for WAN/SP environments with very high IP scale (100s of thousands - millions)
- **Mixed Interfaces**
support for Ethernet, Serial, Cellular and other types and speeds in a single system
- **Deeper Buffering**
deep buffers to accommodate different speeds, bursts and different flow patterns

Cisco Silicon One Bringing Switching and Routing convergence

Extending Cisco Catalyst 9500 & 9600 Series

Powered by Cisco Silicon One™ Q200 ASIC

NEW



C9500 & C9600-SUP1 (w/ UADP 3.0)

Optimized for Features

- ✓ **Speed**
 - 1/10 & 25G SFP
 - 40 & 100G QSFP
- ✓ **Scale**
 - Upto 128K MACs
 - Upto 256K Routes
 - 108MB Buffers (3x 36MB)
- ✓ **Services**
 - L2/L3 Routing, MPLS
 - LAN MACsec, Netflow, NAT
 - Custom ASIC Templates
 - Campus Fabric (SDA & EVPN)

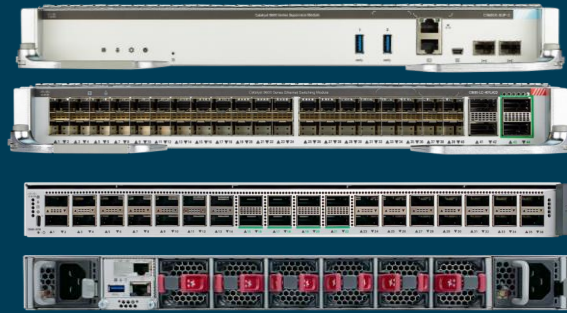
Double Existing Throughput



WAN MACsec,
1588v2 PTP



C9600X-SUP-2
C9600-LC-40YL4CD



10^x

Routing &
MPLS Scale

C9500X-28C8D



80MB Low-Latency +
8GB High-BW Buffers



50GE, 400GE,
Coherent DWDM



C9500X & C9600X-SUP2 (w/ S1 Q200)

Optimized for Scale

- ✓ **Speed**
 - 10/25G & 50G** SFP
 - 40/100G & 200**/400G QSFP
- ✓ **Scale**
 - Upto 256K MACs
 - Upto 2M Routes
 - 80MB + 8GB Buffers
- ✓ **Services**
 - L2/L3 Routing, MPLS/TE
 - LAN & WAN-MACSec*, Netflow, NAT**
 - Custom ASIC Templates
 - Campus Fabric (SDA & EVPN*)

Maximum Investment Protection

400G Leadership in Campus

Unmatched Flexibility

Catalyst 9500 Series

Extending the Catalyst 9500 High-Performance Fixed Core

Non-XL Scale

Catalyst 9500 High Performance (UADP 3.0)



C9500-32C / C9500-32QC



C9500-48Y4C / C9500-24Y4C

Total Capacity

3.2 Tbps

32 x 100G or
48 x 25G + 4 x 100G

Core
+
Edge

XL Scale



Catalyst 9500X
(S1 Q200)



C9500X-28C8D

Total Capacity

6.0 Tbps

36 x 100G or
28 x 100G + 8 x 400G

2x

Catalyst 9600 Series

Extending Modular Core with a Performance-Optimized Supervisor 2

UADP
3.0



Supervisor 1

Total Capacity

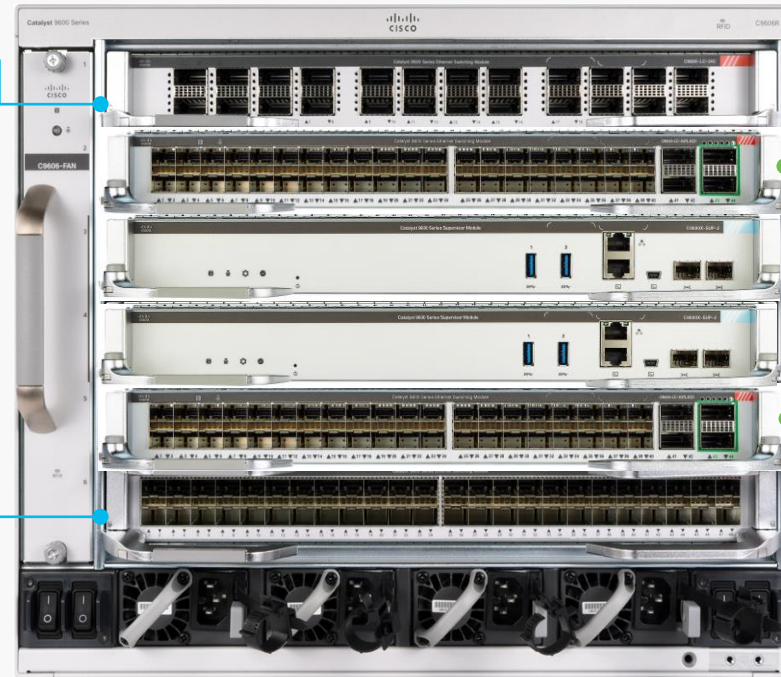
4.8 Tbps

Slot B/W

1.2 Tbps



Gen1
1.2T /slot



Gen2
3.2T /slot

Gen2
3.2T /slot

Gen1
1.2T /slot

400G



40x 1/10/25/50G + 2x 200G + 2x 400G **NEW**

SiliconOne
Q200



NEW

Supervisor 2

Total Capacity

12.8 Tbps

Slot B/W

3.2 Tbps

3x

Catalyst 9300LM- Shallow Depth



Catalyst C9300L



Catalyst C9300LM



Catalyst C3650-mini

Dimension(H X W x D)

SKU	AC PSU	DC PSU
Data Models	17.50" x 1.73" x 12.39"	17.50" x 1.73" x 11.86"
UPOE/mGig Models	17.50" x 1.73" x 13.17"	17.50" x 1.73" x 13.03"

Migration Platform for C3650-mini


Cisco Catalyst 9200CX Series


Next generation of compact access switches for intent-based networking





Noiseless
Fanless


Flexible Deployment Option

 Architecture options
Fabric or Traditional 2-Tier

 Flexible powering
Traditional Outlet, UPOE+

 Deployment flexibility
Any space, mount or enclosure

 Fiber to the edge
Shorter copper runs

 Small branches
Zero touch provisioning

9200 (Fixed Uplinks and Fanless)

Data

*Power via UPOE/UPOE+ Uplink!



C9200CX-12T-2X2G
12x 1G
Ports

802.3bt PD Port

3 x 1G Copper and 2 x 1/10G SFP Uplinks

POE+



C9200CX-12P-2X2G
12x 1G
Ports



C9200CX-8P-2X2G
8x 1G Ports

2 x 1G Copper and 2 x 1/10G SFP Uplinks

External PS on Data SKU
Fixed Internal PS on PoE+ SKUs

Cisco Catalyst 9200 Series Highlights

UADP 2.0 Mini

Cisco IOS XE Lite Software

SD-Access

MACsec-256 link encryption

Trustworthy solutions

Perpetual/Fast PoE

Programmability

Cold patching

Full Flexible NetFlow
streaming telemetry

* Class 6 802.3bt (60W) minimum needed to power

All Uplink Ports can be simultaneously used. Providing maximum bandwidth when needed.

Polling Question 1

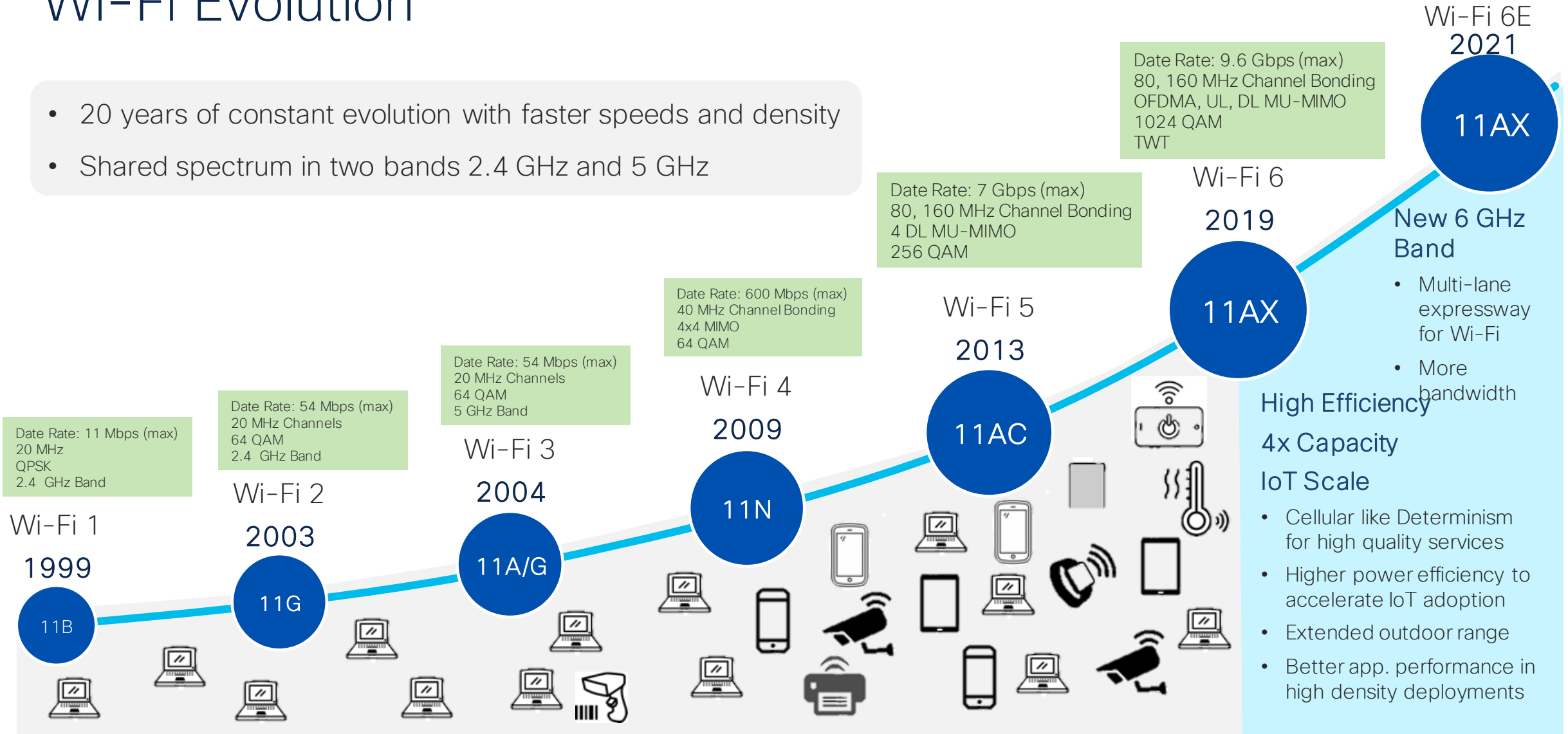
Quelles interfaces sont maintenant disponibles sur les Catalyst 9500X et 9600X ?

- 1) 400 GE
- 2) mGig
- 3) UPOE

Quoi de neuf côté Enterprise Wireless ?

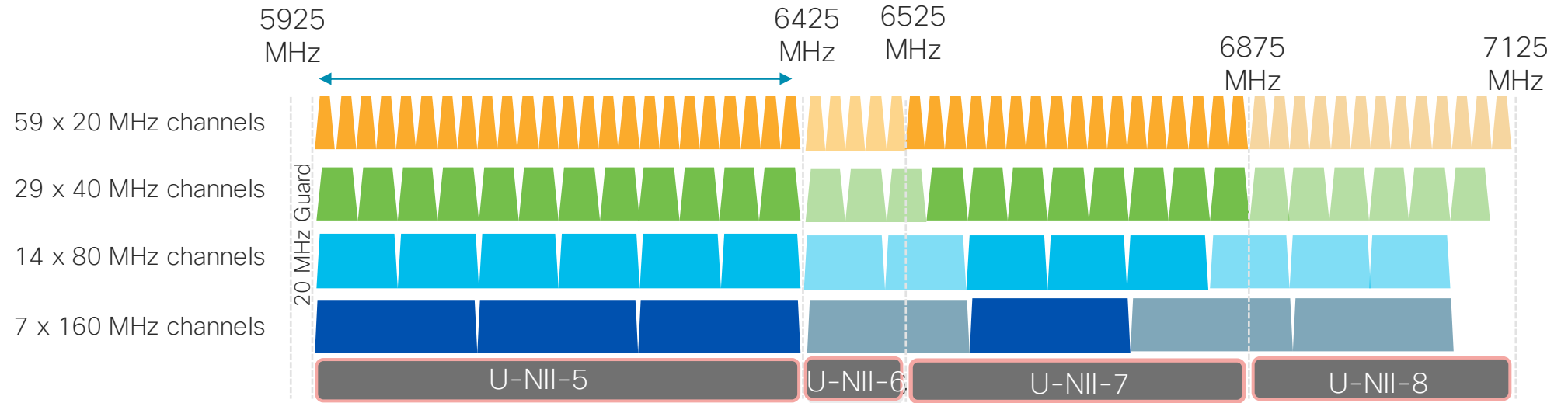
Wi-Fi Evolution

- 20 years of constant evolution with faster speeds and density
- Shared spectrum in two bands 2.4 GHz and 5 GHz

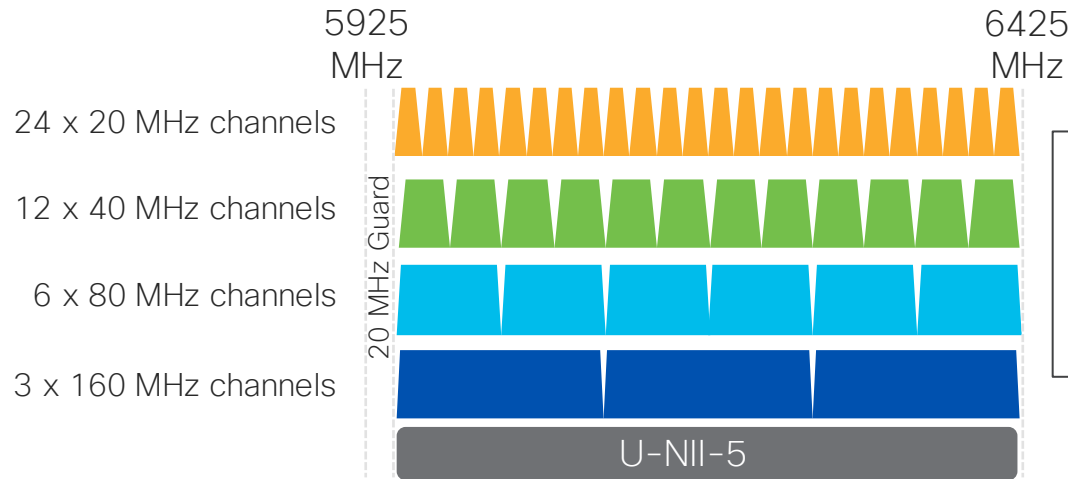


The new 6 GHz band

United States 
1200 MHz



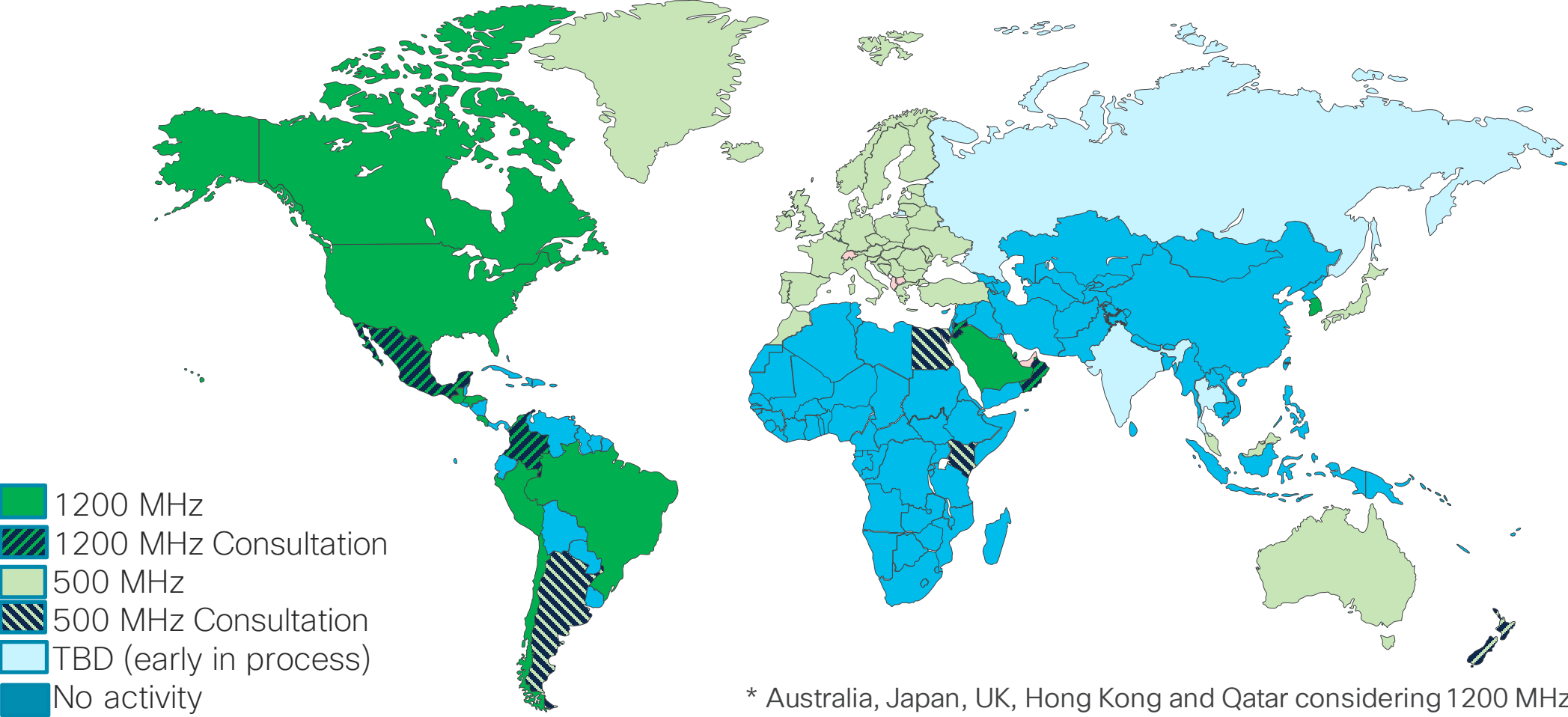
Europe/CEPT 
500 MHz



5955 – Central Frequency of the first 20 MHz channel
 → Starting at 5925 MHz +
 20 MHz of guard band +
 10 MHz to get to the center of the first 20 MHz channel

Global availability of 6 GHz band for Wi-Fi

(<https://www.wi-fi.org/countries-enabling-wi-fi-6e>)

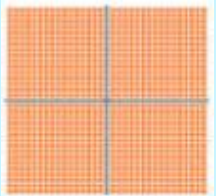


Wi-Fi 6E

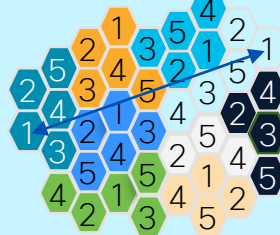
Wi-Fi 6 and 6GHz are friends

802.11ax

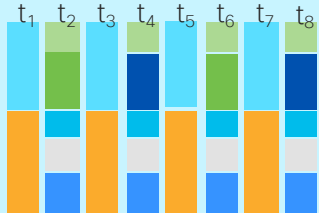
1024 QAM



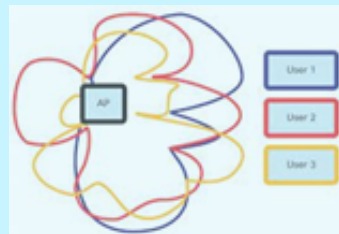
BSS Coloring



OFDMA



DL, UL MU-MIMO



TWT



- Additional Spectrum
 - 1200MHz (5.925 GHz to 7.125 GHz) in US
 - 500 MHz (5.925 GHz to 6.425 GHz) in EU
- Wider Channels
- Clean RF
- No Slow Devices
- Security Upgrade
- 6 GHz WLAN Discovery
- Air Time Efficiency

Cisco Catalyst Wireless 6E Access Points

Ideal for Small to Medium-sized deployments

Best In Class, Flexibility

Mission Critical, Performance



Catalyst 9162

- 2x2 + 2x2 + 2x2
- 2.5 Gbps mGig
- Power Options: PoE, DC Power
- IoT ready + Bluetooth 5.x
- iCAP for Management Frames
- USB - 4.5 W

★ Available with IOS-XE 17.9.2/17.10.1



Catalyst 9164

- 2x2, 4x4, 4x4
- 2.5 Gbps mGig
- Power Options: PoE, DC Power
- IoT Ready + Bluetooth 5.x
- iCAP for Management Frames
- USB - 4.5 W



Catalyst 9166

- 4x4 + 4x4 + 4x4 (XOR 5/6)
- 5 Gbps mGig
- Power Options: PoE, DC Power
- IoT ready + Bluetooth 5.x
- Environmental Sensor
- Full Packet Capture (iCAP)
- Zero-Wait DFS*
- USB - 4.5W



Catalyst 9136

- 4x4, 8x8, 4x4 (or) 4x4, 4x4+4x4, 4x4
- Dual 5 Gbps mGig, active fail over
- PoE Redundancy
- IoT ready
- Bluetooth 5.x
- Environmental Sensor
- Full Packet Capture (iCAP)
- Zero-Wait DFS*
- USB - 9W

*Available in Future

Full radio capability (6 GHz @ LPI) on single 30W PoE+

Dedicated Radio for CleanAir Pro

Same Bracket, Industrial Design

AP Power Optimization

USB



Plus d'informations ? Rendez-vous la semaine prochaine !

CL - Les dernières (R)évolutions du Wi-Fi

Publié le 20-08-2022 01:27 AM par [Modérateur Cisco](#)  | Mis à jour le 11-09-2022 11:41 PM

Mardi 27 Septembre 2022 à 15h00 (heure de Paris) / 9h00 (heure de Montréal)

Évènement Community Live

Les dernières (R)évolutions du Wi-Fi

Dans ce webinar, nous découvrirons et discuterons des dernières nouveautés de Catalyst Wireless. Cela comprendra le Wi-Fi 6E, la convergence des architectures on-premise et cloud, les options de déploiement, les services IoT et les métiers, les roadmap de logiciels, et bien plus encore ! Rejoignez-nous pour une bonne rentrée avec les innovations Cisco sur le marché du Wi-Fi.

Agenda

- Wi-Fi 6 et 6E : Où en sommes-nous ?
- Les solutions Cisco Catalyst Wireless
- Les services métiers outre les standards 802.11
- Le suivi de qualité d'un réseau Wi-Fi

[S'inscrire à la séance](#)

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webinars sur notre blog

<http://reseauxblog.cisco.fr>



Polling Question 2

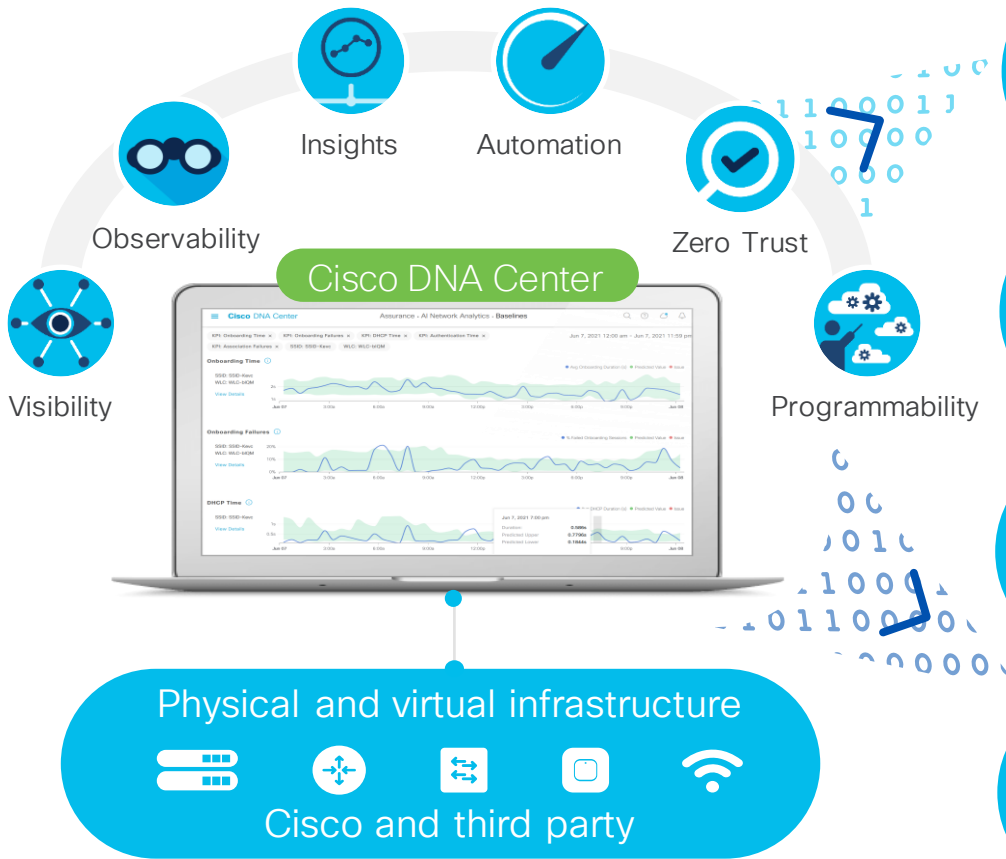
Quels points d'accès Wi-Fi 6E disposent de capteurs environnementaux ?





- 1) Catalyst 9105 et 9164
- 2) Catalyst 9136 et 9166
- 3) Catalyst 9500X et 9600X

Quoi de neuf côté Cisco DNA Center ?

Cisco DNA Center

Provides that digital agility to drive network insights, automation, and security



-  **AI Ops**
AI-driven visibility, observability, insights, and troubleshooting to ensure the health of your *users*, applications, and infrastructure
-  **Net Ops**
Automation to simplify the creation and maintenance of your networks with flexibility to move from manual to AI-assisted to *selectively autonomous* network management
-  **Sec Ops**
AI-driven security to classify endpoints and enforce security policies for a complete *zero trust* workplace solution.
-  **Dev Ops**
Mature APIs, SDKs, and closed-loop integrations to simplify and streamline *ecosystem integration*.

What's new in Cisco DNA Center, Release 2.3.3.x

- Enhanced Learn Device Configuration workflow (Wireless)
- Enhanced Software Update workflow
- Compliance - CLI Template Compliance and Reports
- Cisco DNA Center Insights
- Intel Connectivity Analytics
- Talos Intelligence Integration

DNA Center 2.3.3.0 “Guardian”

Key Use Cases

Hybrid Work

- AI-Enhanced RRM
- DNA Center Insights
- EoX Scan

Increasing demand for high bandwidth, low latency applications while widening the Security attack surface

Hybrid Cloud

- Talos Integration
- ERSPAN Support
- Compliance

More applications moving from the data center to the cloud and the edge. Better insight into these applications is essential

Scalability through Automation

- New Application and Usage Dashboard
- AP Performance Advisory
- Reboot AP Support

Addressing the explosion of devices including massive IoT upsurge, businesses are taking a Wireless-first business centricity approach

CLI Template Compliance

- ❖ Out-of-the-box audits for CLI Templates
- ❖ Audit if devices are in sync with the configuration provisioned using CLI templates
- ❖ Verify if configuration provisioned using CLI Templates are intact in the network

Compliance Summary

No events detected to trigger compliance check [Run Compliance Check](#)

- Startup vs Running Configuration**
Compliance last run on: Apr 7th, 2022, 01:38:38 AM
7 days since out of sync
Lines added: 1
Lines removed: 1
Lines modified: 0
- Network Profiles**
Non-Compliant since Apr 6th, 2022, 08:27:02 PM
Compliance last run on: Apr 7th, 2022, 01:38:38 AM
1 CLI Template: 1
Changes
- Software Image**
Non-Compliant since Apr 11th, 2022, 06:28:10 PM
Compliance last run on: Apr 11th, 2022, 06:28:10 PM
17.03.04c Golden Image Version
Running Version: 17.1.1s
- Critical Security Advisories**
Non-Compliant since Mar 30th, 2022, 05:30:19 AM
Compliance last run on: Apr 13th, 2022, 05:30:28 AM
2

Compliance Summary / Network Profiles

CLI Template (1)

CLI Deviations As of: Apr 13, 2022 9:59 PM

Search Table

Template

- Demo-S1

1 Records Show Records: 10 1 - 1

Realize Template: Demo-S1

1	banner motd !Demo-Server!
2	1 !
3	logging host 10.104.49.191
4	2 !

The highlighted text in red are the missing CLIs.

Compliance Report

- ❖ Ability to report on network compliance violations
- ❖ Supported for all types of compliance – SWIM, Startup vs Running, Security Advisories, Network Profiles
- ❖ On-demand and scheduled reports
- ❖ Email and webhook notification

The screenshot shows the Cisco DNA Center interface. At the top, there are three tabs: 'Generated Reports', 'Report Templates' (which is selected), and 'Usage Insights'. On the left, there is a navigation menu with categories like 'All', 'Access Point', 'Client', 'Compliance' (highlighted), 'Configuration Archive', 'End Of Life', 'Executive Summary', 'Inventory', 'Licensing', 'Network Devices', 'Rogue and a', 'SWIM', 'Security Adv', and 'Telemetry'. The main content area displays a preview for the 'Compliance' report template, titled 'Network Device Compliance'. Below the title, it lists the data included: 'Device Name, Device Family, Device Type, IP Address, Compliance Status, Software Image Status, Startup Vs Running Configuration Status, Critical'. There are three buttons for file format: 'CSV', 'PDF', and 'JSON'. A 'Generate' button is at the bottom of the preview.

Setup Report Scope

Name the report and select the scope to include in report.

Report Name *

Compliance Report - Network Device Compliance - Apr 11

Scope (For an optimized user experience, please use the filter options below)

Compliance Status

Compliance Category

Device Family

Device Type

Select File Type

Select the file type you want to generate

- CSV
- PDF
- JSON

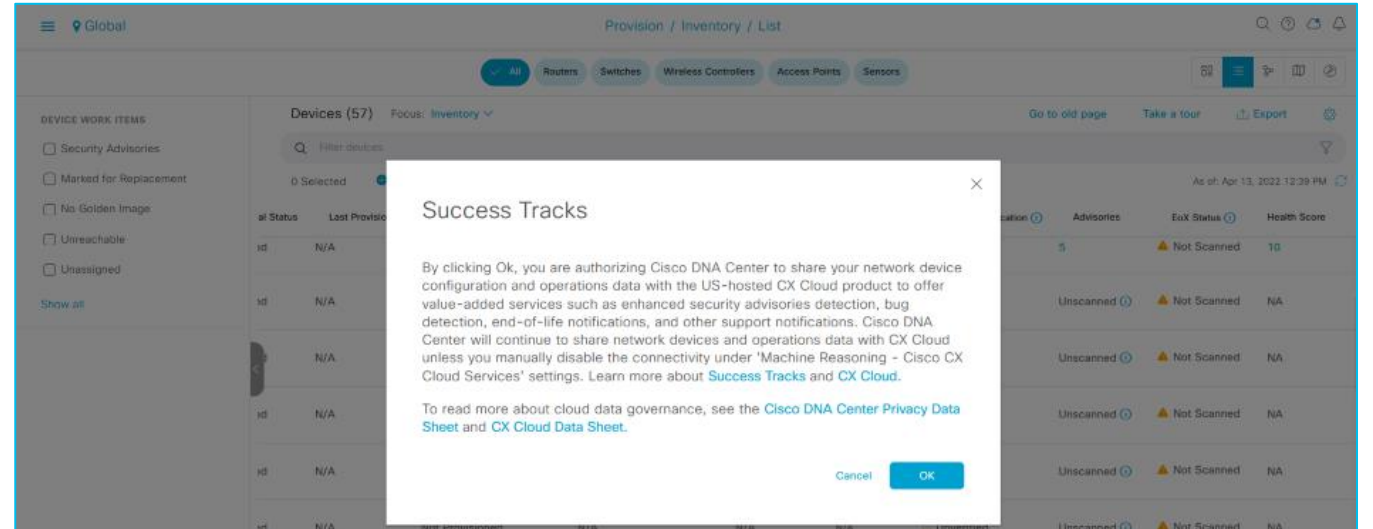
Fields

Compliance (10/10)

- SI.No
- Device Name
- Device Family
- Device Type
- IP Address
- Compliance Status
- Software Image
- Startup Vs Running Configuration
- Critical Security Advisories
- Network Profiles

EoX Scan

- ❖ EULA needs to be accepted
- ❖ No CX License is required
- ❖ Scan runs once in a week
- ❖ EoX scan based on Hardware, Software and modules
- ❖ Not supported for Unified AP's, AirOS Controller, Wireless Sensor and Meraki devices



Status	Last Provisioned	Application Telemetry	Replacement Serial Number	Replace Status	Compliance	Integrity Verification	Advisories	EoX Status	Health Score
Provisioned	N/A	Not Provisioned	N/A	N/A	N/A	Not available	53	2 alerts	10
Provisioned	19 days ago	Not Provisioned	N/A	N/A	Compliant	Not available	0	2 alerts	1
Provisioned	6 days ago	Not Provisioned	N/A	N/A	N/A	Not available	Unscanned	2 alerts	10
Provisioned	N/A	Not Provisioned	N/A	N/A	Compliant	Not available	5	1 alert	10
Provisioned	N/A	Not Provisioned	N/A	N/A	N/A	Unverified	Unscanned	Not Scanned	NA

Support AP configuration for 6GHz radio

- ❖ Allows configuration of radio parameters like power and channel assignment, etc. on 6GHz capable access points Eg: 9136AXI

The image displays two screenshots from the Cisco DNA Center interface, illustrating the configuration process for 6 GHz radio parameters on access points.

Left Screenshot: Selection Screen

How do you want to configure APs?

Choose how you want to configure the AP and Radio parameters.

Two main configuration options are presented:

- Configure AP And Radio Parameters** (Selected): Choose which steps to configure relevant parameters on the selected APs.
- Schedule Recurring Events For AP And Radio Parameters**: You can configure the Admin and LED status of the AP and the Radio Admin status as recurring events.

Select the steps you want to configure:

- Modify AP Name
- Configure AP Parameters
- Configure 5 GHz Radio Parameters
- Configure 2.4 GHz Radio Parameters
- Configure 6 GHz Radio Parameters** (highlighted with a red box)
- Configure Dual-Band (XOR) Radio Parameters

Right Screenshot: Configuration Page

Configure 6 GHz Radio Parameters

Select parameters that you want to configure for 6 GHz Radio. It is supported only on 9136I series Access Points.

Applicable APs: 0

Warning: You cannot configure 6 GHz Radio parameters as selected Access Points do not support these parameters.

Configuration options (all disabled):

- Admin Status:** Enable / Disable
- Radio Role Assignment:** Auto / Client-Serving / Monitor
- Power Assignment:** Global / Custom (with a dropdown for "Select Custom Power")
- Channel Assignment:** Global / Custom
- Azimuth:** Enter Azimuth (in Degrees) (Valid range: 0-360)
- Elevation:** Enter Elevation (in Degrees) (Valid range: 0-90) with Up / Down buttons

Port Groups

- ❖ Support to configure port groups based on TAG's
- ❖ Port Groups can also be created using specific rules

Cisco DNA Center

All Devices / C9300-Access

C9300-Access Run Commands View 360

Reachable Managed IP Address: 172.100.1.23 Device Model: Cisco Catalyst 9300 Switch Role: ACCESS Uptime: 114 days 12 hrs 7 mins Site: Global/Bangalore/BGL11

DETAILS

Interfaces

Ethernet Ports

Native VLANs

Hardware & Software

Configuration

Power

Fans

SFP Modules

User Defined Fields

Config Drift

SECURITY

Advisories

COMPLIANCE

Summary

Ports (67)

Search Table

1 Selected Tag

Tags	Port Name	Operational Status	Admin Status	Type	Native VLAN	Voice VLAN	MAC Address	PoE	Speed (Mbps)
<input type="checkbox"/>	GigabitEthernet0/0	●	●	Physical	-	-	14:bd:9e:6f:90:80	Disabled	100
<input type="checkbox"/>	Bluetooth0/4	●	●	Physical	-	-	14:bd:9e:6f:90:80	Disabled	100
<input checked="" type="checkbox"/>	GigabitEthernet1/0/1	●	●	Physical	default (1)	-	14:bd:9e:6f:90:81	Disabled	1000
<input type="checkbox"/>	AppGigabitEthernet1/0/1	●	●	Physical	default (1)	-	14:bd:9e:6f:90:c1	Disabled	1000
<input type="checkbox"/>	GigabitEthernet1/0/2	●	●	Physical	default (1)	-	14:bd:9e:6f:90:82	Disabled	1000
<input type="checkbox"/>	GigabitEthernet1/0/3	●	●	Physical	default (1)	-	14:bd:9e:6f:90:83	Disabled	1000

Show Records: 50 1 - 50

Global Provision / Inventory

To provision subscriptions on devices that have not been discovered with NETCONF, rediscover them

Global/Bangalore/BGL11 x

Devices (6) Focus: Provision

Filter devices

1 Selected Add Device Tag Actions

Device Name

AP5CE1.762B.CF74

C3850-Distribution.tmelab.com

C9300-Access

Umbrella_WLC

vWLC_BFL.tmelab.com

WLC.tmelab.com

Summary

Sites (4)

Device Series (25)

Image Version (21)

Create New Tag

Tag Name * Description (Optional)

Tag Rules (Optional)

Device Port

DEVICE SCOPE

Location Select a site Global/Bangalore/BGL11 x

PORT TAG RULES

Admin Status Contains Admin Status Please enter value

Port Name

Speed

Operational Status

Description

Create New Tag / Matching Ports

Matching Ports

Search Table

All Manual Dynamic

Device Name	IP Address	Port Name	Operational Status	Admin Status	Speed (Mbps)	Description
C9300-Access	172.100.1.23	GigabitEthernet1/0/1	●	●	1000	

Blue Beacon support for C9K devices

- ❖ Support to enable/disable Blue Beacon on switches
- ❖ Supported platforms Cat 9k, Cat6k, Cat4k, Cat3k, Cat2k

The screenshot shows the Cisco Provisioning/Inventory interface. A warning message at the top states: "To provision subscriptions on devices that have not been discovered with NETCONF, rediscover the devices with NETCONF, and update the Telemetry Settings with the Force Configuration Push option." Below this, there are tabs for "All", "Routers", "Switches", "Wireless Controllers", "Access Points", and "Sensors". The "Wireless Controllers" tab is active. The interface shows a list of 6 devices, with "C9300-Access" selected. A context menu is open over the selected device, and the "Manage System Beacon" option is highlighted. The table below shows the details of the selected device.

Device Name	Site	Reachability	Provisioning Status
AP5CE1.7628.CF74	1/Floor 1	Reachable	Not Provisioned
C3850-Distribution.tmelab.com	alore/BGL11	Reachable	Failed See Details
C9300-Access	alore/BGL11	Reachable	Failed See Details
Umbrella_WLC	alore/BGL11	Reachable	Failed See Details
vWLC_BFL.tmelab.com	alore/BGL11	Reachable	Failed See Details
WLC.tmelab.com	alore/BGL11	Reachable	Success See Details Out of Sync

The "Manage System Beacon" dialog box is shown. It contains the following information:

System beacon settings can be updated for the selected device(s).

Note: If selected device has system beacon currently enabled, which will be overwritten by settings selected below.

Selected Devices (1)

Device Name	Site	System Beacon Status
C9300-Access	Global/Bangalore/BGL11	Disabled

System Beacon State: Disable Enable

Intel Analytics Overview

Background:

- Intel Wi-Fi chipsets make up 90% of enterprise laptops.
- Intel Analytics enables these clients to provide enhanced visibility for faster troubleshooting.

Key Benefits:



Provides Intel client model, driver version, coverage hole reporting, roaming, power type, etc.



No need for client-side agent to provide data.



Future integration with Cisco DNA Center's client 360.

Day Zero Classification

Dell Inc.

Software Version

99.00.63.01

Device Vendor

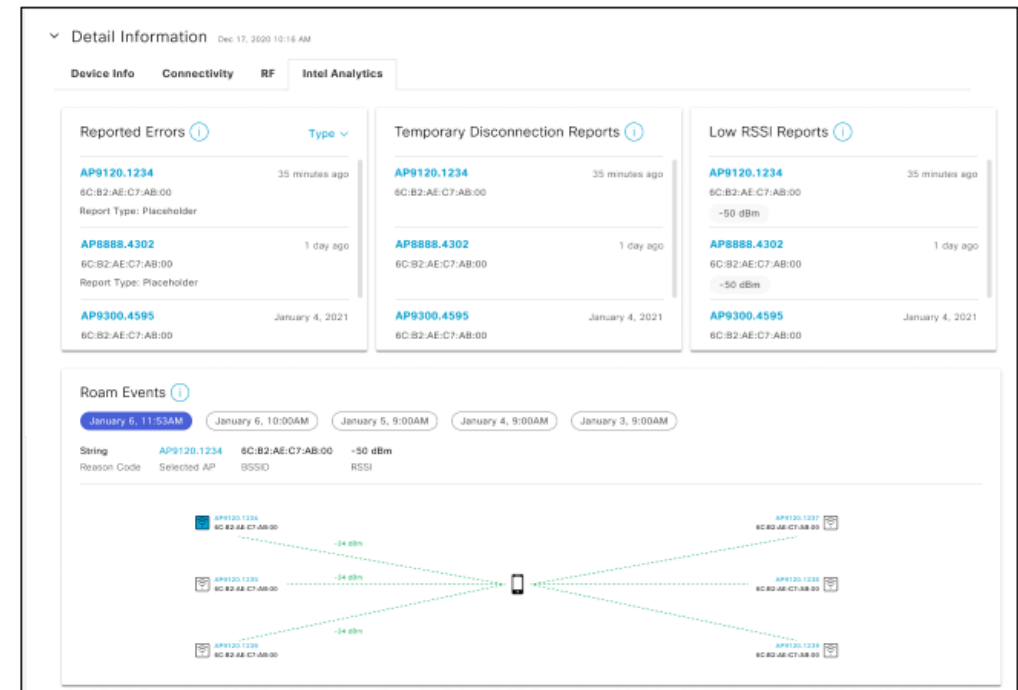
Intel

Power Type

AC Powered

Hardware Model

AX200 160MHz

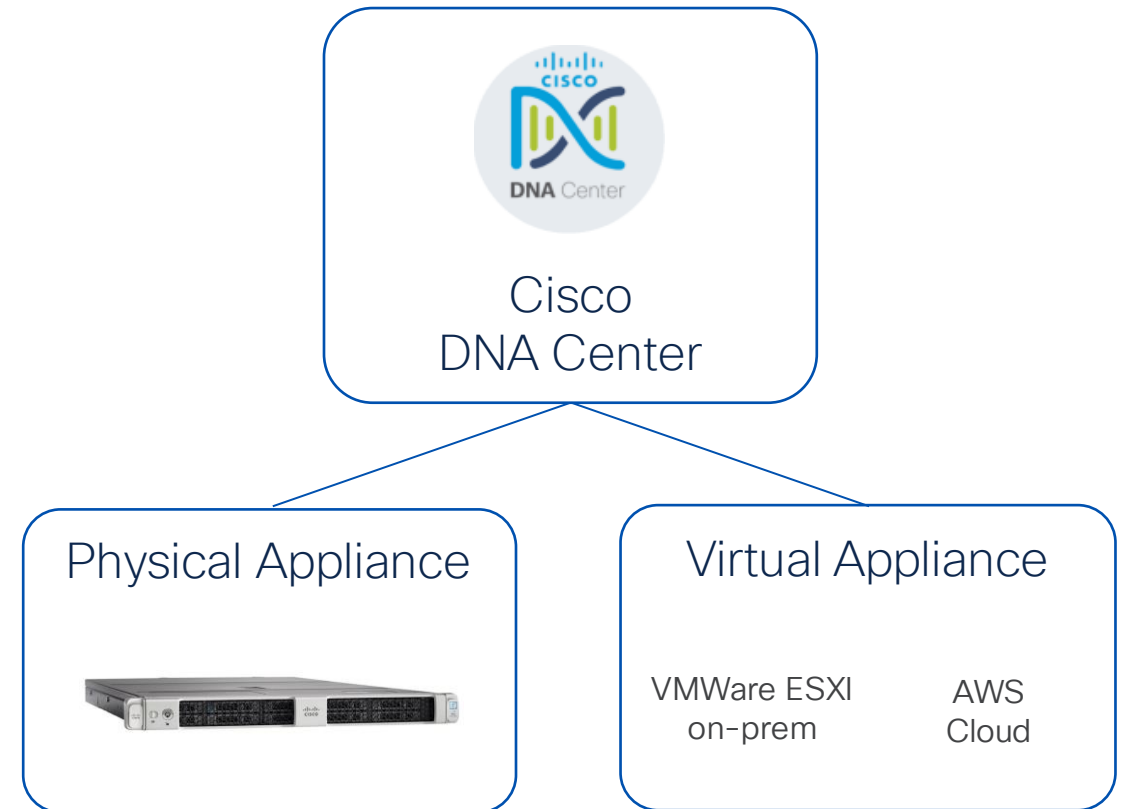


Cisco DNAC Virtual Appliance

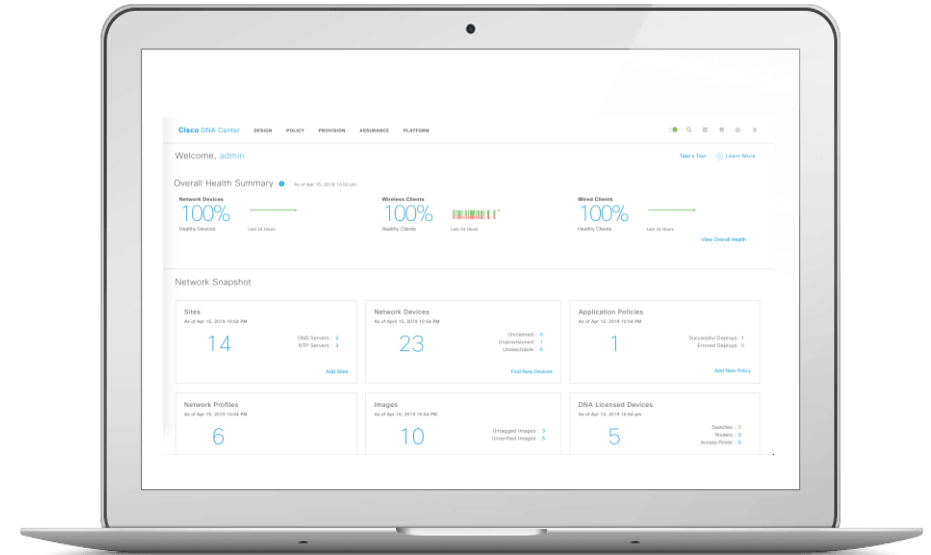
Cisco DNA Center Virtual Appliance soon available on:

- Amazon Web Services
- VMWare ESXi

Full feature, scale and device support parity with Cisco DNA Center Physical Appliance (44c)



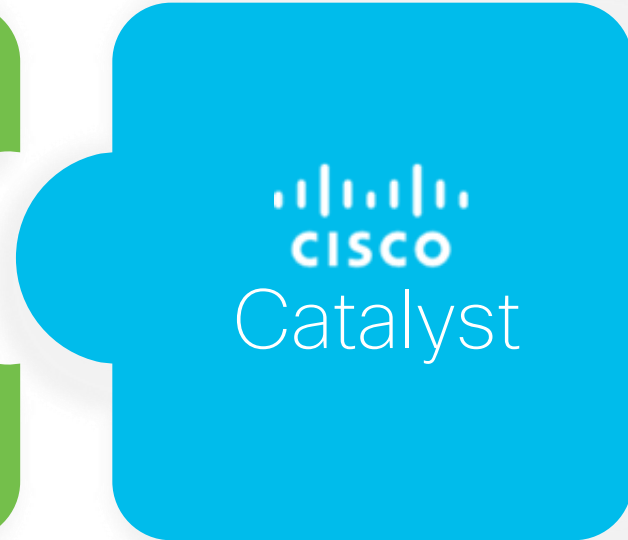
Démo



Flexibilité de management

Better together

#1 in cloud-managed networks



#1 in networking

 Cloud platform

 Ecosystem

 Wireless

 Switches

Your IT operation model, your way

Flexibility, choice and simplicity

Meraki Dashboard Monitoring for Catalyst Deployments



Choice of Management Platform for Full Network Operations



Common Catalyst Hardware for Access



One Product – Two Management Modes



Cisco DNA Management Mode
C9800 & DNAC Stack



Meraki Management Mode
MR Dashboard Stack



Introducing Cisco Catalyst 9166/64/62 Wi-Fi 6E Access Points

Common Platforms will have CW PIDs



Catalyst 9162



Catalyst 9164



Catalyst 9166

- All APs are indoor and internal antenna only.
- No external antenna and outdoor versions available.
- Environmental sensors will be supported only on Cisco DNA Management Mode.

★ Available now September 2022!

Simplicity | Ease of use | Best in class Hardware

One Catalyst – Two personas



DNA Persona
C9800 & DNAC Stack



Meraki Persona
MR Dashboard Stack




Catalyst Wireless 916x



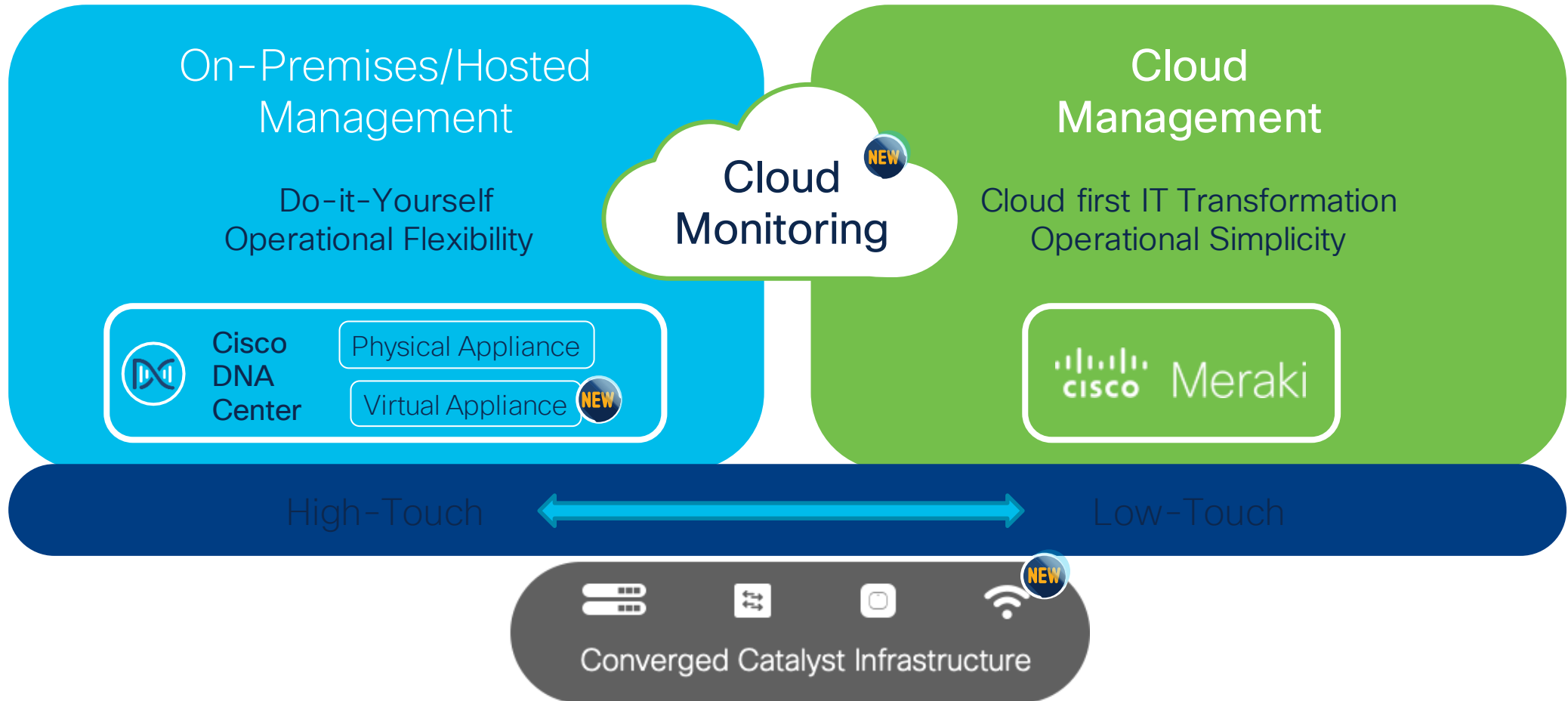
Cloud management for Catalyst

Initial Platforms

Cloud Monitoring	Comprehensive network visibility ; device, client and traffic monitoring and insights , issue diagnosis and troubleshooting.	Catalyst 9200 Catalyst 9300 Catalyst 9500
Cloud Management	Extended network, device, client and traffic visibility, monitoring and insights . Added capabilities include automation, zero-trust security and programmability through APIs and ecosystem integration.	Catalyst 9300 Catalyst 9166/64/62 Wi-Fi 6E 

Your IT operation model, your way

Flexibility, choice and simplicity

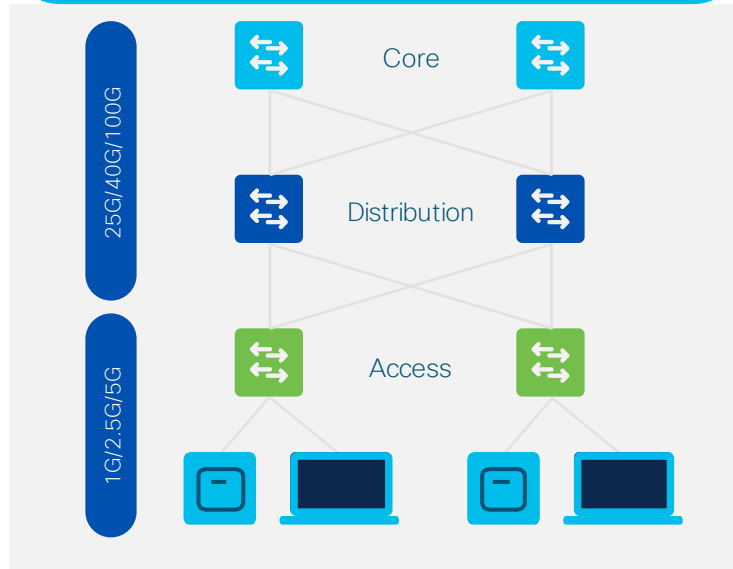


Architectures Campus

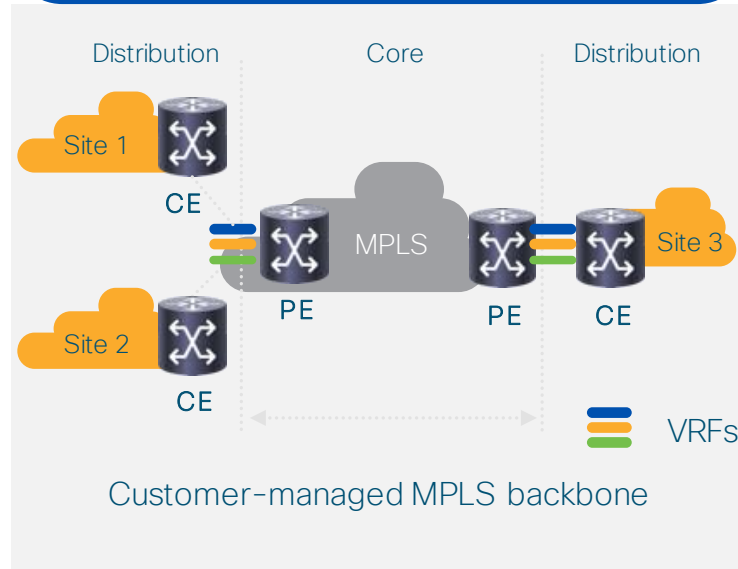


Commutateur Cisco Catalyst 9000 – le couteau suisse

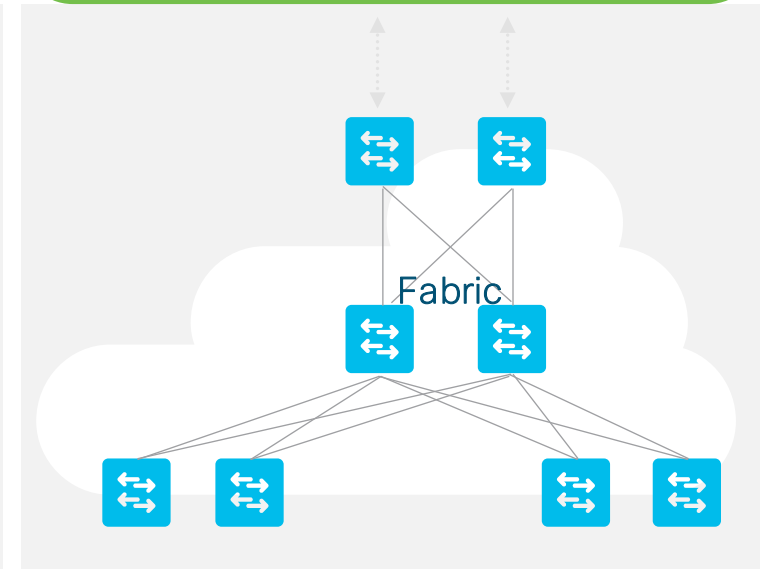
Accès traditionnel



Layer 3 Core + MPLS PE



Fabrics: SDA + EVPN-VXLAN



Solutions “clé en main”

- SD-Access
- Cisco DNA Assurance
- Cisco DNA Service for Bonjour
- Cisco DNA Application Visibility Service
- Encrypted Traffic Analytics
- Meraki dashboard



Solutions “maison”

- EVPN-VXLAN
- MPLS/VPLS
- Traditional 2/3-tier topologies
- Application Hosting
- Programmability – YANG models with Netconf, Restconf, GNMI APIs

Une plateforme pour tous les designs – De l’Ethernet 10MBit/s au 400GE !

Toujours plus proche des métiers...



Expand your Network's Reach with DNA-Center (IT and OT)

Manage the entire network...



with Cisco DNA Center

Enterprise HQ and Branch



Catalyst Aggregation



Catalyst Access



Catalyst IE3x00 Rugged Switches



Cisco Catalyst IE3400 Heavy Duty

OT (Anywhere Else)



Leverage your relationship with IT



Expand IBN Strategy Everywhere !



Same IOS XE (Catalyst)



Same DNA Licensing Net new incremental \$

IoT Switching Portfolio

DIN Rail



Rackmount



IP67



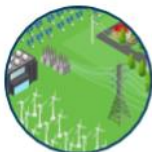
Embedded



Bring secure connectivity to your industrial use cases:



Manufacturing



Utilities



Transportation



Parking Lots



Mining



Oil & Gas



Ports



Warehouses



Defense

Unleashing enterprise features at the industrial edge

Cisco Catalyst IE9300 Rugged Series Switch

More performance

Up to 128 Gbps switching capacity, 8 QoS queues per port with 6MB packet buffers, 5K TCAM entries, native PTP timestamping



8x the density

First industrial switch to support backplane stacking with up to 8 switches acting as one for simplified management



Software Defined Access

First industrial switch to support SD-Access fabric edge, endpoint analytics, group-based policy analytics



Industry-leading OT security

Cyber Vision visibility & security posture for industrial endpoints, Group based policy, MACsec, 802.1x



Granular Visibility

First industrial switch to support application visibility w/ NBAR2



Built for Operations

Ruggedized, PTP, PRP, HSR, MRP, DLR, industrial protocols, and compliance with regulatory standards



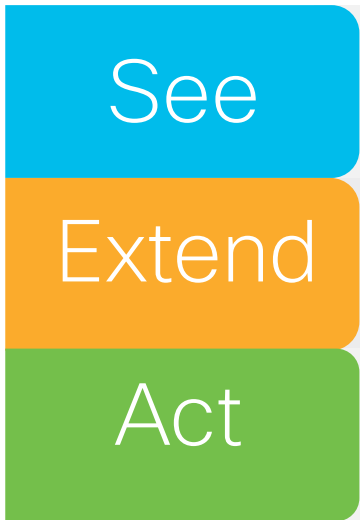
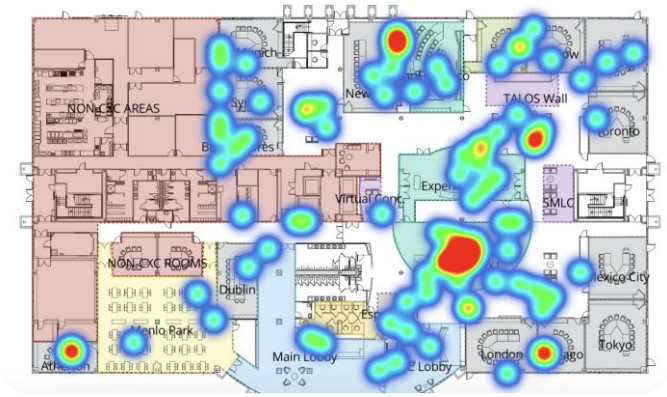
Cisco Catalyst IE9300 Rugged Series Switch

Powered by
UADP ASIC

Enterprise scale, visibility, security, but made for the industrial network

Digitizing Physical Spaces: People & Things

Vertical Custom Business Application



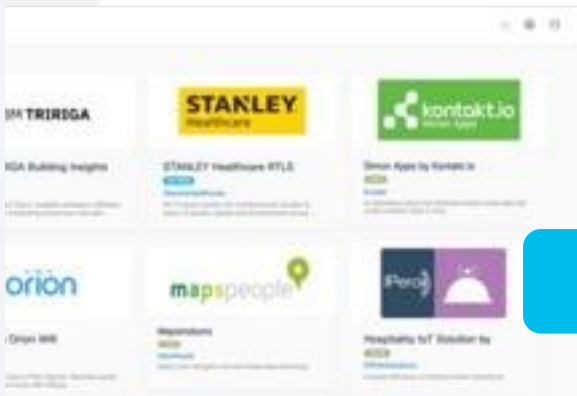
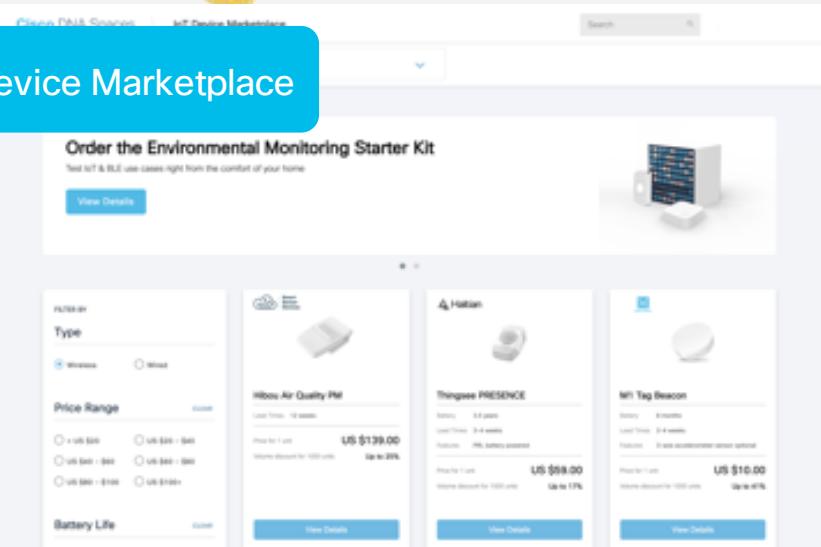
See
how people and things behave on site

Extend
business outcomes with partner apps

Act
on insights through digitization toolkits and DNA Spaces apps

DNA Spaces See + Extend licenses included in DNA Advantage Licenses !!!

IoT Device Marketplace



Partner App Center

Smart Workspaces for Hybrid Work and Sustainability

CISCO DNA Spaces

LIVE
06:23 PM

0

Bedfont Lakes CXC - BDLK09

Ground Floor



Occupancy

LOW

Data Source: DNA Spaces + Cisco Wireless

Indoor Air Quality

VERY GOOD

Data Source: Webex

Temperature

71.6 °F

Humidity

46%

13

Meeting Rooms on this floor

10

Available

1

Occupied

2

No Data

Data Source: Webex

This Map is interactive



Pan, Zoom In & Out On The Map



Tap On Places To See More



On this floor

Rest Rooms

Stairs

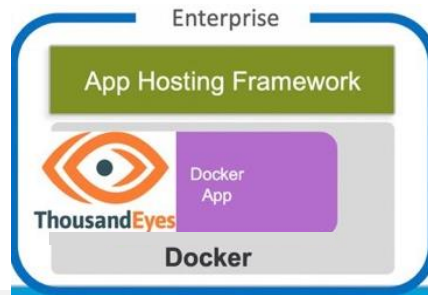
Elevators



ThousandEyes now included with Cisco DNA licenses

New and existing Catalyst 9000 switches now include ThousandEyes service assurance

App hosting: no extra hardware



- Run ThousandEyes agent natively on flash of 9300/9400 switches

DNA subscription benefits



DNA Essentials

DNA Advantage 

DNA Premier 

- Includes ThousandEyes Units for one test* at 5-minutes frequency for a month

Data Visualization



- License to ThousandEyes SaaS-based management platform
- Access to Dashboards, alerts and reporting tools



Campus connectivity



Modern WAN



Application experience

*Choose from a menu of several networking, web and voice tests
Browser-based tests need the use of SSD and consume more ThousandEyes units

Polling Question 3

Quelle solution permet d'améliorer l'expérience des employés sur leur lieu de travail ?

- 1) Cisco Works
- 2) Cisco Building
- 3) Cisco Smart Workplaces

Clôture

Avez-vous encore des questions ?

Nos experts vous répondent

Si vous avez posé une question sur le panneau de Q&R (Q&A en anglais) ou que vous revenez sur la communauté dans les jours qui suivent notre webinaire, nos experts peuvent encore vous aider !

Participez dans le forum de Ask Me Anything (AMA) avant le 30 septembre 2022

<https://bit.ly/AMA2-sep22>



Nos réseaux sociaux



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[@cisco_support](#)

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[CiscoSupportCommunity](#)





Faites valoir votre opinion
en répondant à notre enquête !

Cliquez sur le lien

<https://bit.ly/WEBenq-sep22>



The bridge to possible