

# Нова модель ліцензування та огляд оновлень лінійки Cisco Meraki

15 листопада 2023

Сергій Попов

[sergpopo@cisco.com](mailto:sergpopo@cisco.com)



# Останні оновлення

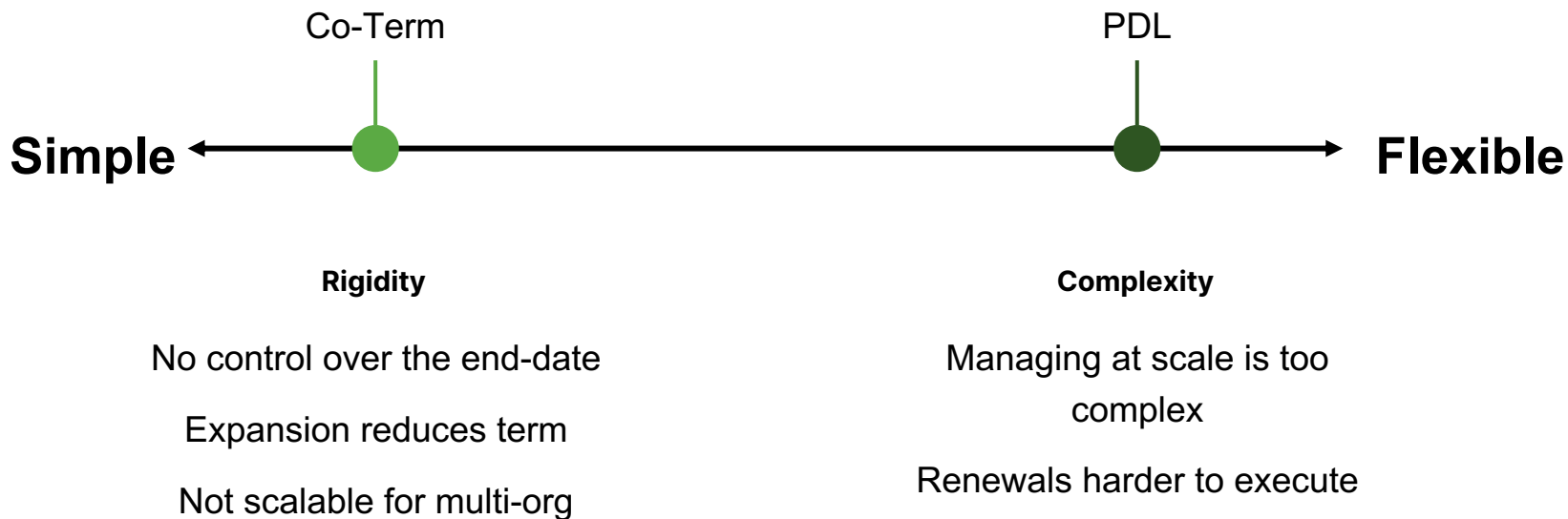
- Oct 10: C9300-M, M130R orderable
- Oct 10: Z4C
- Oct 10: AP Neighbors
- Sep 13: Ansible
- Sep 13: MT15
- Sep 13: MT Sensor-only Admin
- Sep 13: Trusted Access for Windows, Android
- Sep 12: Apple OS Update Command Options
- Sep 11: Catalyst Meraki 9300s
- Sep 11: more cloud-managed C9300s
- Sep 1: Miercom report
- Sep 1: Mobile App: Magnetized; Switch Ports
- Aug 18: Secure Connect section and slides
- Aug 14: **Subscription Licensing**
- Aug 14: MS130/R
- Aug 14: SD-WAN+ per Network

# Agenda

1. Нова модель ліцензування
2. Оновлення лінійки комутаторів
3. Нові можливості МХ та нові пристрої
4. Оновлення Wi-Fi лінійки
5. Оновлення МG лінійки
6. Оновлення МТ лінійки

# Meraki Subscription Licensing

# Існуючі моделі ліцензування



Представляем...

# Meraki Subscription Licensing

← Subscriptions & License Info

## Corporate Subscription Active Modify

Licenses

Total 1,399	In Use 1,191 85.2%	Available 208 14.8%
----------------	--------------------------	---------------------------

Security & SD-WAN **Switching** Wireless Camera Environmental

### MS200 Large

Includes: MS210-48, MS225-48, MS250-48

115 / 120 in use 5 available

### MS300 Large

Includes: MS350-48, MS355-48, MS390-48

109 / 230 in use 121 available

### MS300 Medium

Includes: MS350-24, MS355-24, MS390-24

50 / 100 in use 50 available

Last login [about 2 hours ago](#) from your current IP address

Current session started [about 2 hours ago](#)

Data for this organization is hosted in [North America](#) Give your feedback

© 2022 Cisco Systems, Inc. [Privacy](#) - [Terms](#)

### Details

Subscription ID SUB-1234567890

Activation Date Jun 30, 2021

End Date Jun 30, 2028

Notes This subscription covers all US based corporate offices

### Networks

There are 3 networks bound to this subscription.

- [New York HQ](#) (34% / 473 Licenses)
- [Philadelphia Office](#) (29% / 408 Licenses)
- [Atlanta Office](#) (22% / 310 Licenses)

### Recent Changes

**Environmental licenses added** Mar 4, 2022  
1,000 MT-Sensor licenses were added to the subscription  
Added by: Joe Smith

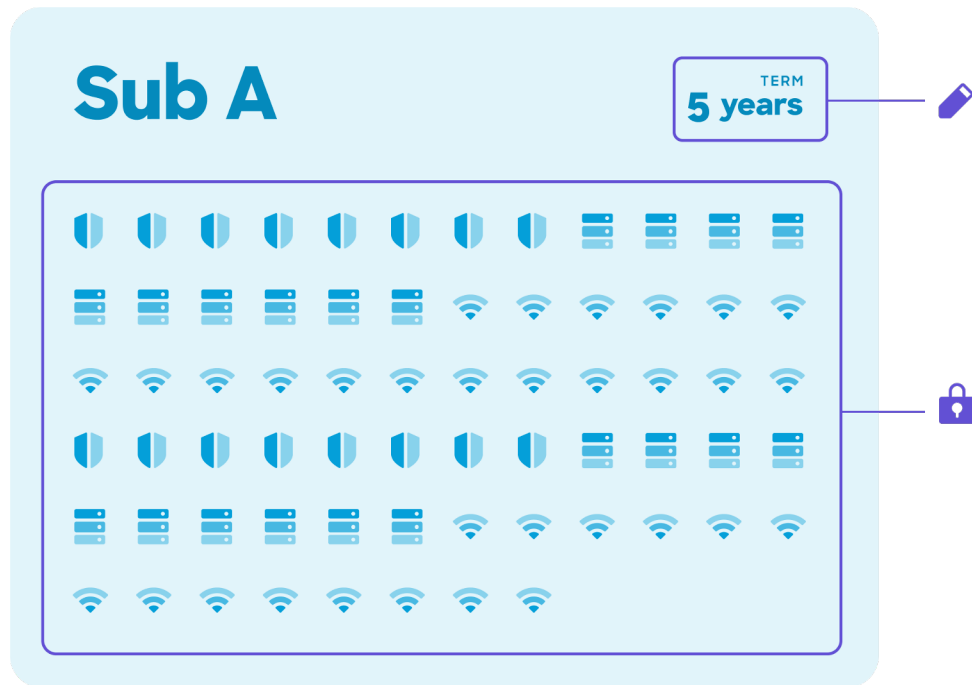
**Security licenses added** Mar 1, 2022  
25 MX-Large Premiere licenses were added to the subscription  
Added by: Joe Smith

**Cloud Archive licenses added** Jan 30, 2022  
20 90-day Cloud Archive licenses were added to the subscription  
Added by: Joe Smith

[View Change History](#)

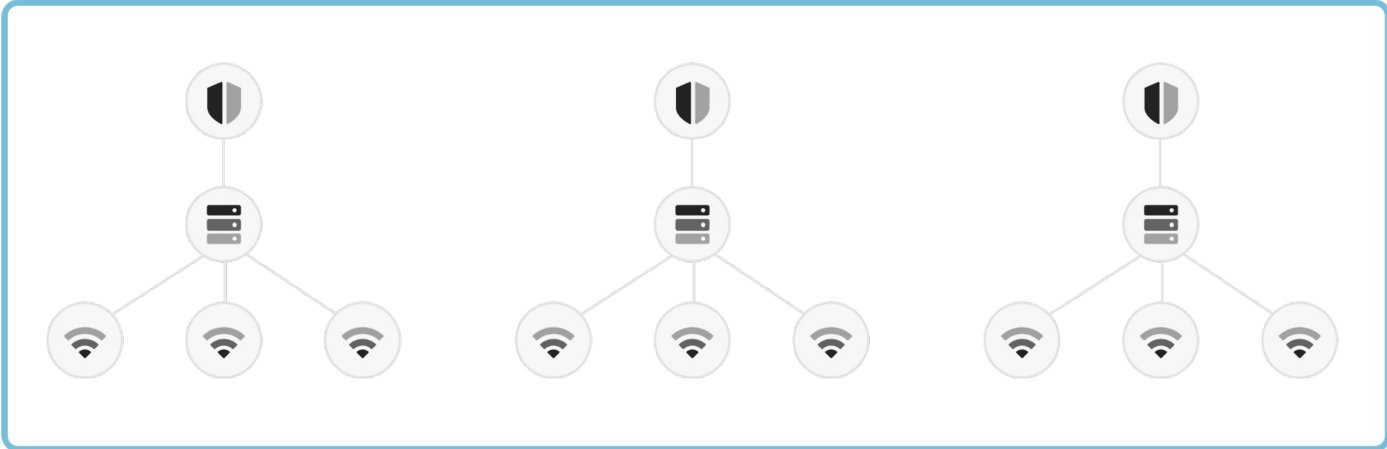
# Що таке Meraki Subscription?

- Підписка – це група ліцензій які пов'язані з тим самим терміном дії
- Ліцензії можуть бути додані або оновлені за потреби, зберігаючи незмінну кінцеву дату
- Кінцеву дату можна змінити, не впливаючи на ліцензії



# Ближче до потреб замовника

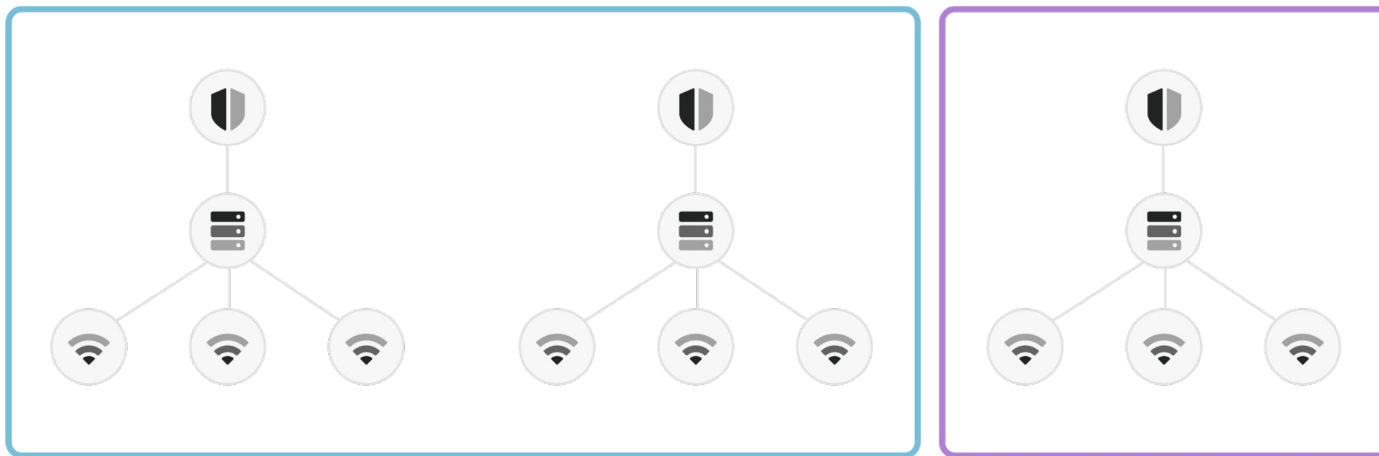
Підписка прив'язується до мережі в Meraki  
Dashboard



Sub A  
5 years

# Підтримка кількох підписок в одній організації

Створіть одну або декілька підписок, залежно від потреб бізнесу



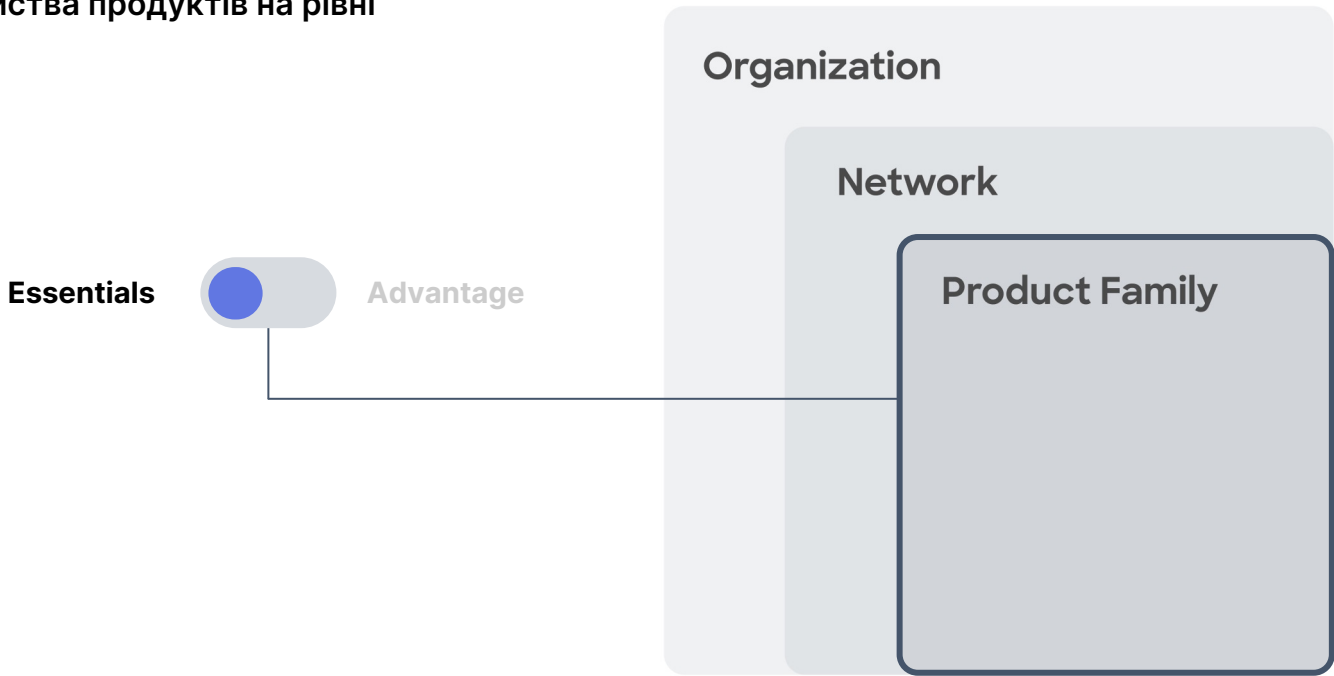
**Sub A**  
5 years

**Sub B**  
3 years



# Увімкнення кількох рівнів функцій в одній організації

Призначайте рівні функцій (Feature tier) для кожного сімейства продуктів на рівні мережі.



# Спрощені MX SKUs

Ліцензування MX, яке можна перенести між більшою кількістю артикулів HW

**Z**

Z3  
Z3C  
Z4

**MX-S**

MX67  
MX67C  
MX67W  
MX68  
MX68W  
MX68CW  
vMX-S

**MX-M**

MX75  
MX85  
vMX-M

**MX-L**

MX95  
MX100  
MX105  
vMX-L

**MX-XL**

MX250  
MX450

# Спрощені MS SKUs

MS ліцензування менш залежне від HW

	MS100	MS200	MS300	MS400
Large	MS120-48 MS125-48 MS130-48	MS210-48 MS225-48 MS250-48	MS350-48 MS355-48 MS390-48 C9300-48	MS410-32 MS425-32 MS450-12
Medium	MS120-24 MS125-24 MS130-24	MS210-24 MS225-24 MS250-24	MS350-24 MS355-24 MS390-24 C9300-24	MS410-16 MS425-16
Small	MS120-8 MS130-8 MS130-12			

# Заявка на отримання підписки здійснюється **лише один раз** протягом терміну дії підписки

Клієнтам **НЕ** потрібно вимагати ліцензійний ключ, щоб поновити або додати до існуючої підписки.

We found your license subscription

Please confirm the details below.

Subscription ID	SUB-1234567890
Activation Date	Nov 1, 2022
End Date	Nov 2, 2025

Subscription Name

Notes

[Cancel](#) [Claim this subscription](#)

# Справедлива та інтуїтивно зрозуміла логіка відключення

Термін дії підписки клієнта  
закінчується

Це вплине **лише на мережі,**  
прив'язані до підписки

Клієнт додає більше  
пристроїв, ніж має ліцензій

Це вплине лише на **зайві**  
**пристрої**

Клієнт встановлює рівень  
функцій, на які він не має  
ліцензії

**Даунгрейд** мереж, які не  
відповідають вимогам

30 Day Free Trial

Порушення умов підписки **обмежить керування пристроями,** а не виведе  
мережу з ладу

# Зниження бар'єрів для входу

<b>Варіанти періодичної оплати</b>	Щомісячна, щоквартальна, річна або передплата
<b>Гнучкі терміни</b>	Будь-який щомісячний приріст від 12 до 120 місяців Дата завершення (необов'язково)
<b>Гнучка дата початку</b>	Дату початку підписки можна запросити впродовж 90 днів з моменту замовлення
<b>Інклюзивне ліцензування</b>	Ліцензії на всі продукти Meraki можуть бути включені в одну підписку До однієї підписки можуть бути включені різні рівні ліцензії

# Порівняння



## Co-Termination



## PDL



## Subscription

How Many Expiration dates?

1

1 or Many

1 or Many

When do Licenses begin to burn?

Order Generated

When Activated or 90 days

When Activated or 90 days

Where is Licensing enforced?

Org-wide

Per-Device

Network-wide

What if a licenses expire and exceeds grace Period?

Org Shutdown

Device Shutdown

Subscription Shutdown

SKUs?

Complex

Complex

Simplify

Payments?

Upfront

Upfront

Customer decides

Ease for Grow adaptability?

No

Yes

Yes

Ease for Management?

Yes

No

Yes



**September 2023**

**Winter 23/24**

**2024**

**2025**

### **Subscriptions launch**

- For new & renewing EU/US customers

### **What's Launching**

- New subscription orderability
- Dashboard subscription experience
- Simplified SKUs
- Ability to cancel inline with Meraki's return policy

### **What's Launching**

- Ability to grow size of subscription and add upgrades (ex: advanced tier features)

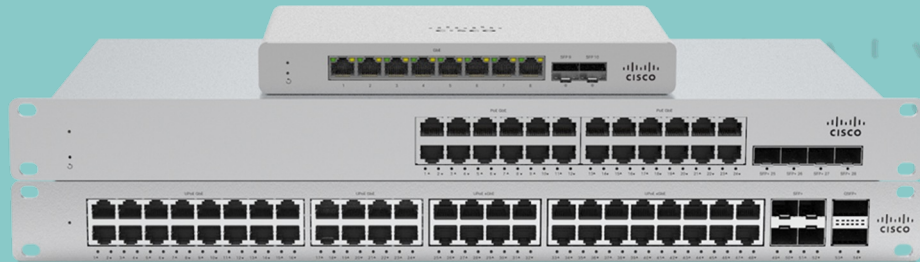
### **What's Launching**

- Ability to migrate from Co-Term Licensing to a Subscription model mid-term
- Renewals & Extensions



# MS

## Switching



# Модель для будь-яких потреб

RUGGEDIZED

BRANCH AND SMALL/MEDIUM CAMPUS

LARGE CAMPUS



NEW

## MS130R

- 8x 1GbE SFP
- 30 W PoE
- Ideal for hot/cold/tight spaces

Orderability/ship date: FY24Q2

## Gigabit access

Up to 1 GbE



### MS120/125

- MS120: 8/24/48
- MS125: 24/48
- 4x 1 GbE SFP
- PoE/PoE+



NEW

### MS130

- 8/24/48 port options
- PoE/PoE+
- Compact or 1RU



### MS210/225

- 24/48 ports options
- 4x 1 GbE SFP; SFP+
- PoE/PoE+
- 80G physical stacking



### MS250

- Layer 3 support
- 4x 10 GbE SFP+
- PoE/PoE+
- 80G physical stacking



NEW

### C9300-T/P/U-M<sup>1</sup>

- 24/48 ports; 40G QSFP+ and 10 GbE SFP+ modular uplink
- Data, 30 W PoE, or 60 W UPoE
- 480G physical stacking; StackPower

## Multigig access

Up to 10 GbE (mGig)



NEW

### MS130X

- 8/12/24/48 port; PoE+
- 2.5 GbE + 10 GbE SFP+
- Compact or 1RU



### MS350

- 10 GbE SFP+
- 160G physical stacking



### MS355

- 40 GbE QSFP+
- 400G physical stacking



### MS390

- Modular uplink (10/40 GbE); UPoE support
- 480G physical stacking; StackPower
- Modular 80 plus platinum PSU



NEW

### C9300-UX/UXM/UN-M<sup>1</sup>

- 24/48 ports; 40G QSFP+ and 10 GbE SFP+ modular uplink options
- 60 W UPoE support
- 480G physical stacking; StackPower
- Modular 80 plus platinum PSU

## Fiber aggregation

10 GbE SFP+ fiber



### MS410/425

- Up to 40 GbE QSFP+
- 160G physical stacking
- Redundant PSU



### MS450

- 100G QSFP28
- Front port 160G physical stacking
- Redundant PSU option



NEW

### C9300-S-M;C9300X-Y-M<sup>2</sup>

- 12/24/48 ports; 40G QSFP+ and 10 GbE SFP+ modular uplink options
- 60 W UPoE support
- 480G physical stacking; StackPower
- Modular 80 plus platinum PSU

1. C9300 – M-gigabit and multigig SKUs target ship date: FY24 Q2

2. C9300 fiber SKUs migration public preview is available now and –M SKUs are coming in 2H CY24

# Catalyst Meraki 9300 switching portfolio

Unlocking operational efficiency from **day 0** starts here.

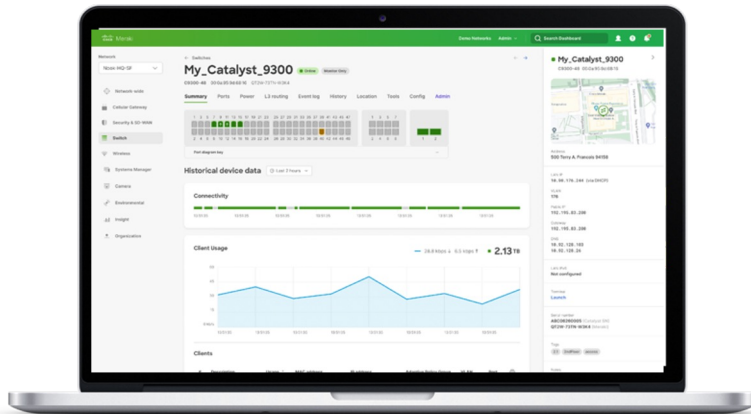


SIMPLE | SCALABLE | FLEXIBLE | SECURE

# Коли зустрічаються простота і функціональність

*Ще ніколи не було так просто впроваджувати та керувати комутаторами Catalyst*

Розкрийте операційну ефективність з 0-го дня



## Simply powerful Catalyst Meraki 9300

- 9x C9300-M SKUs; target ship date: FY24 Q2
- C9300-M fiber SKUs; target ship date: 2HFY24
- Migration is in public preview

### Простота

- Керуйте тисячами портів з одного інтерфейса
- Моніторинг стану в режимі реального часу та керовані рішення
- Готове керування та аналітика на інтуїтивно зрозумілій інформаційній панелі

### Гнучкість

- Віддалене планування оновлення прошивки
- Програмовані інтеграції з API та екосистемами Meraki
- Відстежуйте та керуйте всіма ліцензіями Meraki з одного інтерфейсу користувача

### Масштабованість

- Централізований моніторинг та контроль мережі
- Керуйте всіма лініями продуктів Meraki в одному місці, від безпеки до IoT
- True zero-touch provisioning та віддалене керування

### Безпека

- Безпека на основі адаптивних політик
- Аналітика трафіку в реальному часі з видимістю рівня 7, розширеною телеметрією та моделюванням кінцевих точок
- Безшовна інтеграція TrustSec

# 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 UPoE+
- 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 FY24.

## Catalyst 9300 modular uplinks



## 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



## StackWise® and StackPower cables

## Platinum-rated power supplies

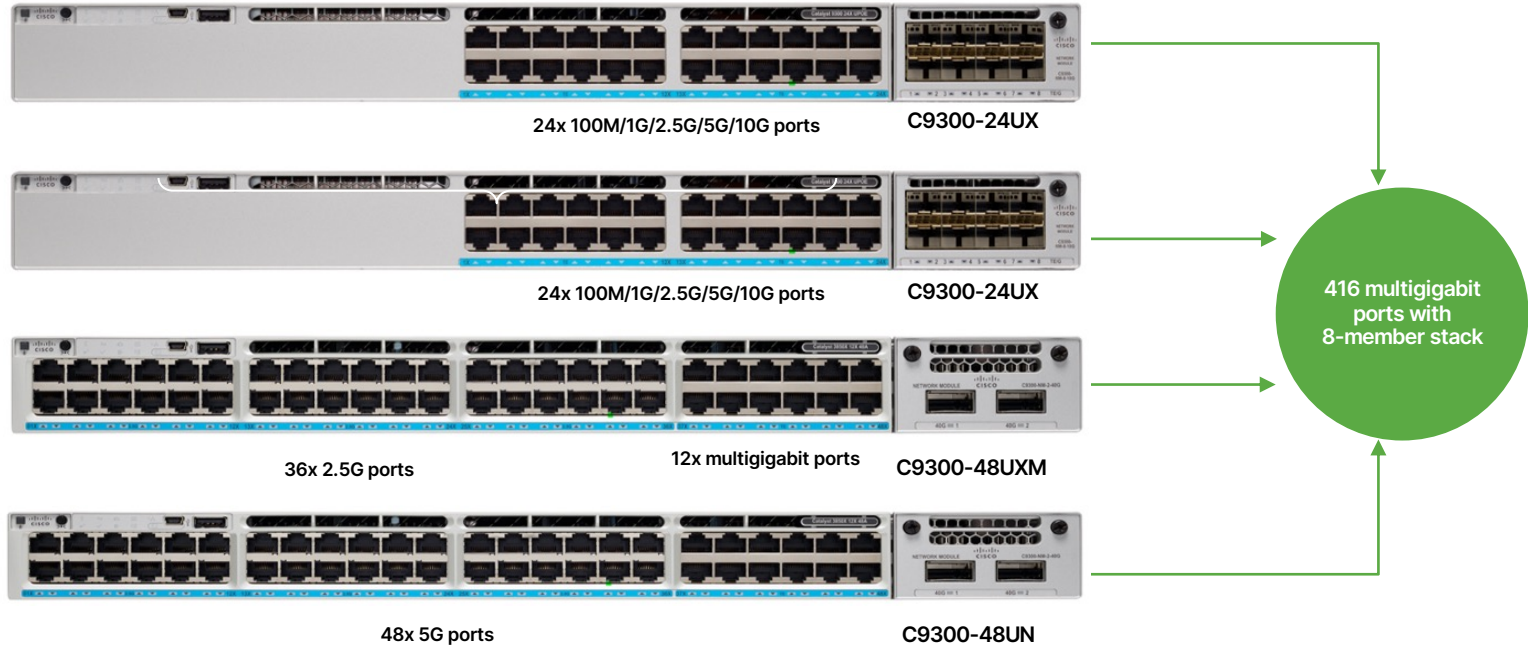


## Modular fan



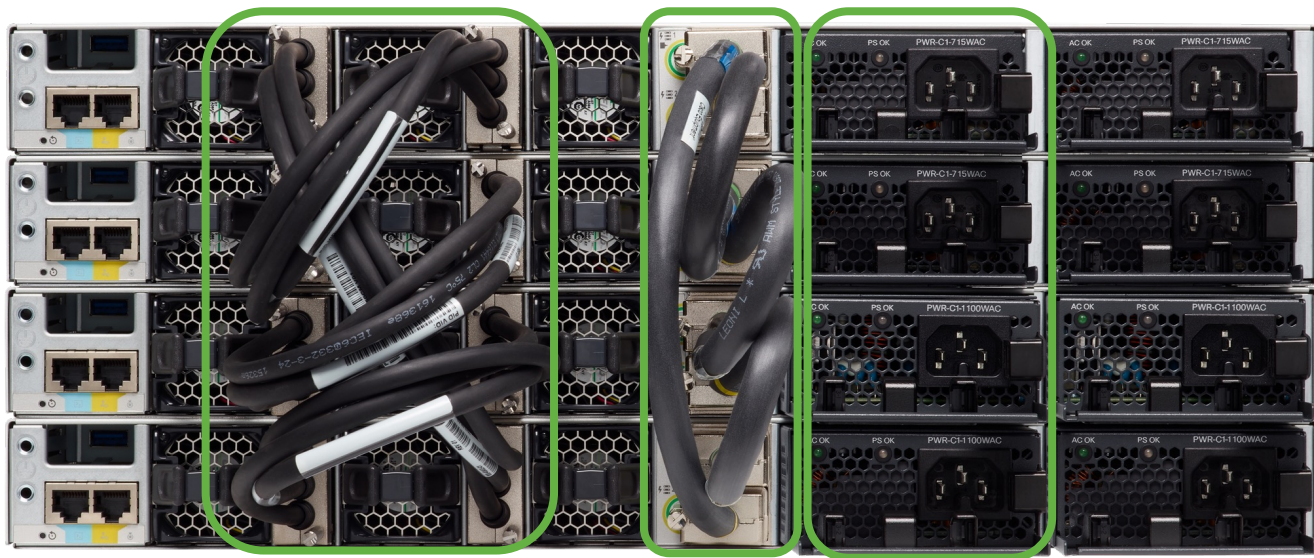
All relevant Meraki optics are supported on C9300-M models.

# Catalyst Meraki 9300 multigigabit Series with UPOE



Highest 2.5G and multigigabit density in the industry

# Catalyst StackPower with Cloud Visibility and Alerting



**IMPROVED**

Physical stacking

**NEW**

StackPower

Modular power supply

Please note: Catalyst Meraki 9300 does not physically stack with MS390.

# Auto Stacking

Switching > Stacks

Opt in via Early Access

Before

## Detected potential stacks

### Stack Members

[Prod - The Walrus](#) [Prod - Tweedledum](#) [Prod - Tweedledee](#)

[Prod - Mad Hatter](#) [Prod - March Hare](#)

### Actions

Provision this stack

Provision this stack



After

**NEW!** dashboard will auto-provision detected switch stacks without requiring user intervention

This enhancement will save time and money by removing a seemingly redundant step.

## Switch stacks overview

### Configured stacks

Search switch stacks... 1 switch stack

Stack Name	Stack Members
Stack - 1	<a href="#">MS210-SW3</a> <a href="#">MS210-SW1</a> <a href="#">MS210-SW2</a>

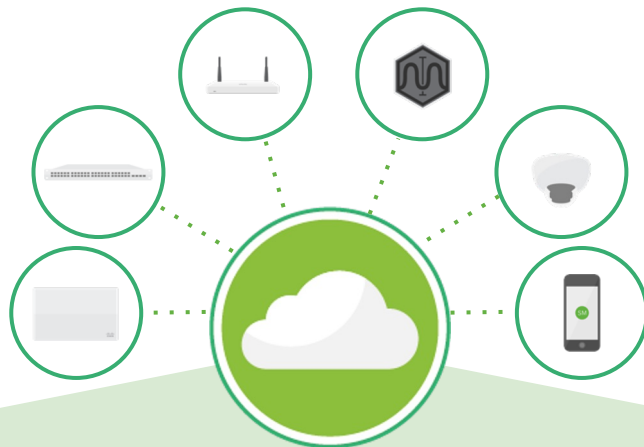
### Detected stacks that failed auto provisioning

Auto-provisioning of the stacks listed and encountered a problem. Please re-attempt provisioning manually

No potential stacks detected

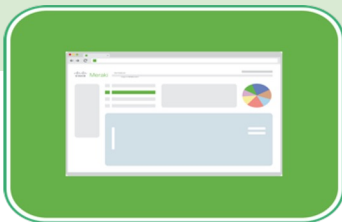


# Ваш Catalyst тепер можна програмувати через хмару



WWW

OUT-OF-THE-BOX  
MANAGEMENT AND  
ANALYTICS



{APIs}

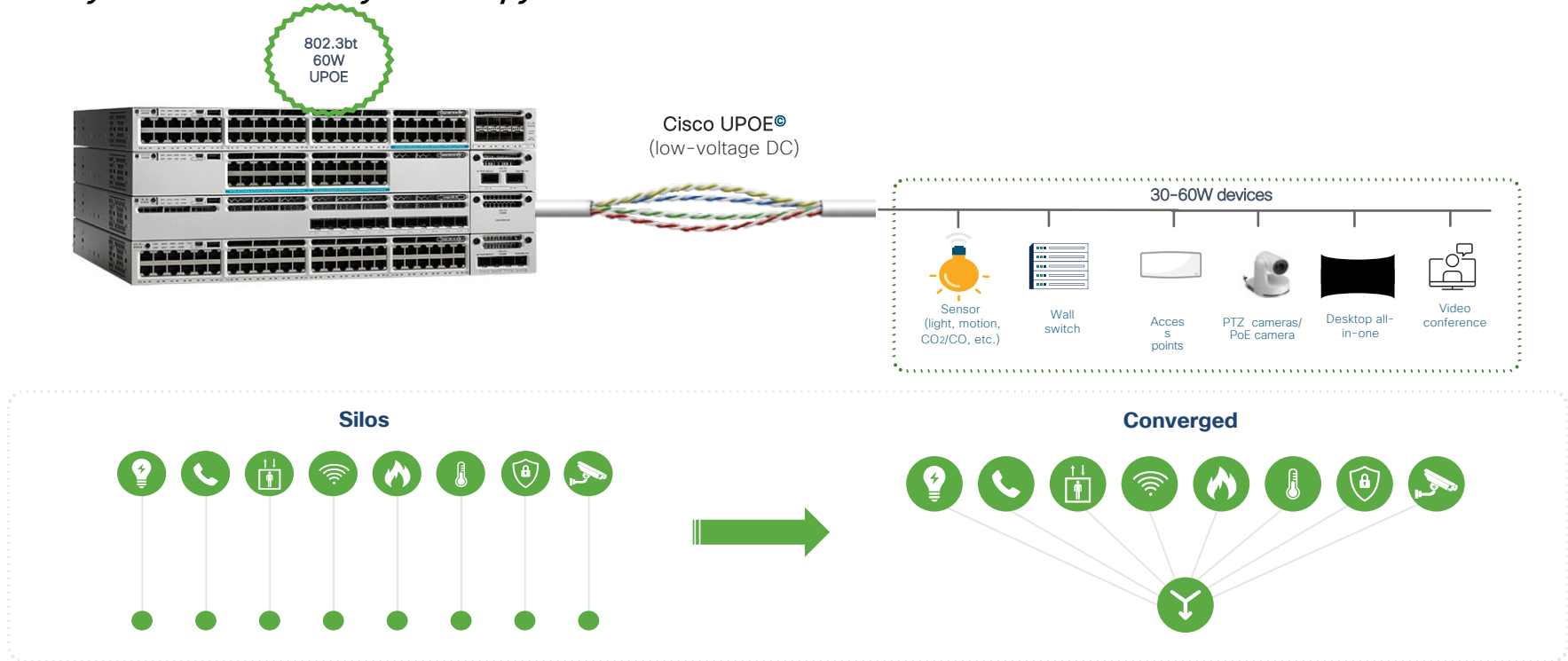
INTEGRATIONS AND SOLUTIONS  
POWERED BY MERAKI



API-first approach for all features

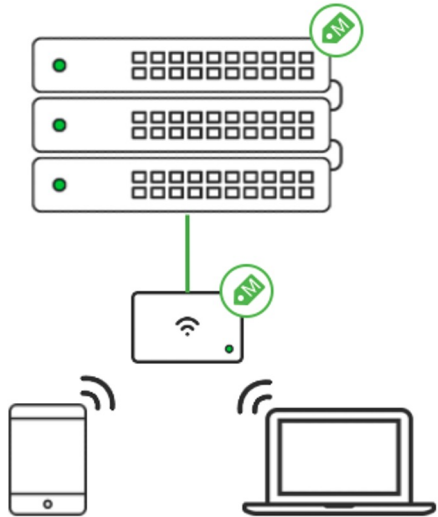
# Power Smart Spaces with 60W UPOE

*Централізоване управління електроенергією та мережею забезпечує нижчу вартість, більшу гнучкість та інтелектуальне керування.*



# Легкість сегментації з Meraki Switching

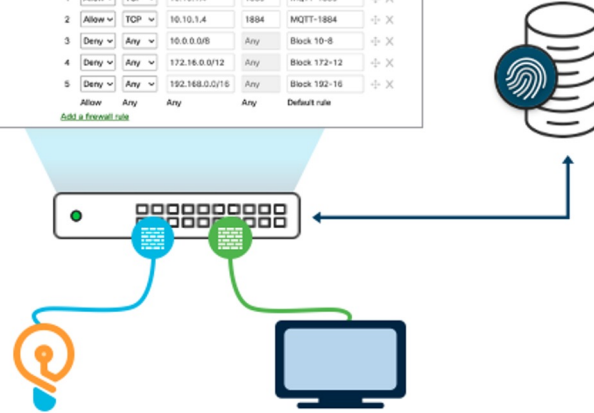
## Adaptive Policy



## Group Policy ACLs

The screenshot shows the Meraki Group Policy ACL configuration interface. The configuration includes Name (IoT\_Restricted), Schedule (Scheduling disabled), Bandwidth (Use network default), Hostname visibility (Use network default), and Firewall and traffic shaping (Custom network firewall & shaping rules). A table lists five firewall rules with columns for #, Policy, Protocol, Destination, Port, Comment, and Actions.

#	Policy	Protocol	Destination	Port	Comment	Actions
1	Allow	TCP	10.10.1.4	1883	MQTT-1883	↕ ✕
2	Allow	TCP	10.10.1.4	1884	MQTT-1884	↕ ✕
3	Deny	Any	10.0.0.0/8	Any	Block 10-0	↕ ✕
4	Deny	Any	172.16.0.0/12	Any	Block 172-12	↕ ✕
5	Deny	Any	192.168.0.0/16	Any	Block 192-16	↕ ✕
	Atter	Any	Any	Any	Default rule	



Please note: Adaptive Policy feature is available with Advanced licenses.

# Cat 9300 Міграція

*Catalyst 9300 switches can now migrate to Meraki management mode.*

## **Eligible models**

- C9300-24P/T/U/UX
- C9300-48P/T/U/UN/UXM

## **Newly added fiber switch models & modules**

- C9300 24S/48S, C9300X 12Y/24Y
- Network modules: C9300-NM-2Y, C9300X-NM-2C, C9300X-NM-8Y (please note: the C9300X-NM network modules are compatible only with the C9300X switches)
- Other C9300 compatible network modules: C9300-NM-2Q, C9300-NM-8X, C3850-NM-2-40G, C3850-NM-4-10G, C3850-NM-8-10G

## **Highlights**

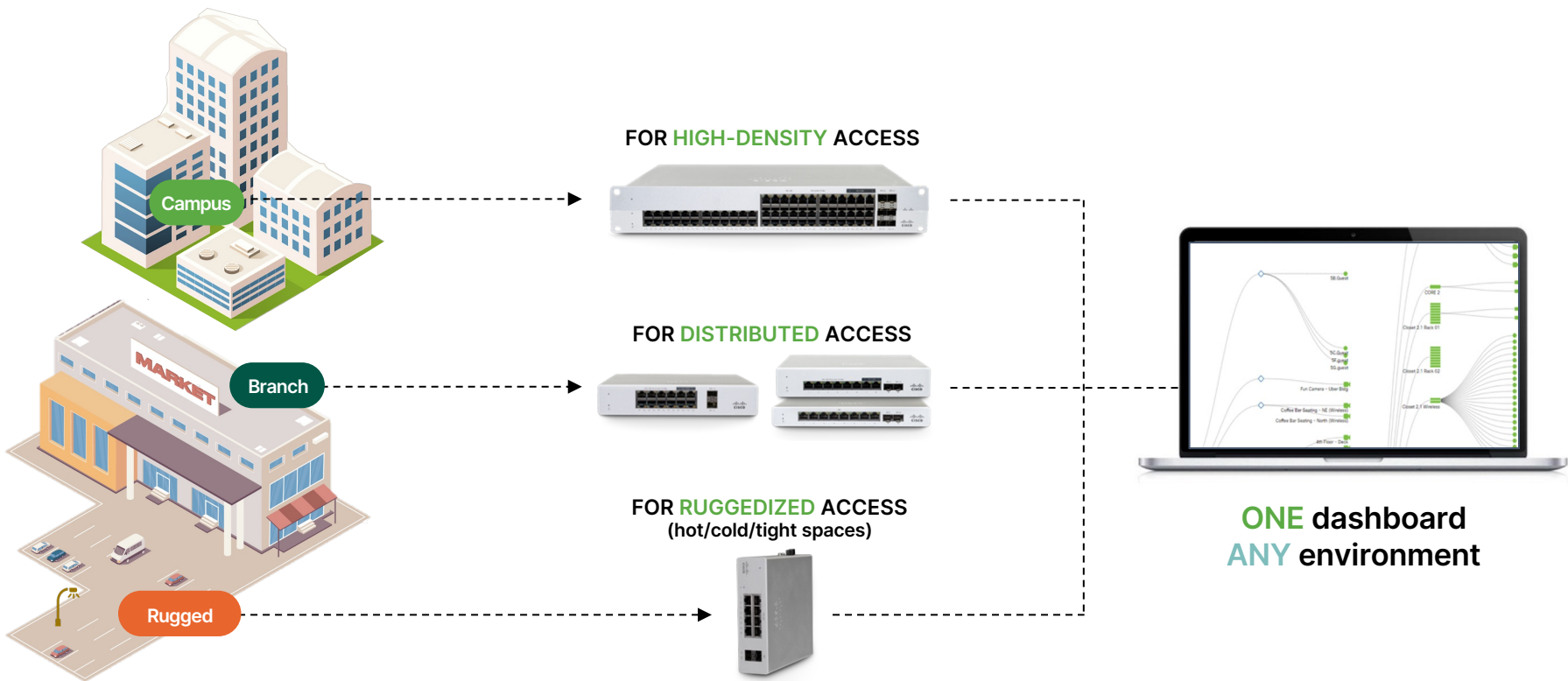
- Streamline remote network management, such as provisioning, port configuration, and security policy, all without added complexity.
- See the [Quick Migration Guide](#) (PDF) for more information.

*\* Please note that C9300-NM-2Y and C9300X-NM-8Y support up to 10G in Meraki cloud-managed mode.*



# Нові доповнення: Портфолію Meraki MS access

# Більше можливостей з MS130 і MS130R



NEW

MS130 orderability/ship date:  
September 19, 2023

# Представляємо MS130

Розширюйте можливості з комутаторами доступу Meraki нового покоління



8 and 8P

1 GbE



8x and 12x

mGig + 10G uplinks



24/24P and 48/48P

1 GbE



24x and 48x

mGig + 10G uplinks

Versatile and compact desktop switches

Powerful and full-size rack-mount switches



Boost throughput with cost-effective **mGig** options



Connect all your devices with **PoE/PoE+** options



Manage it all in one **unified dashboard**

# 12-port option: a new addition to the family

MS130-8X



Not enough?  
8 ports  
(6x 1 GbE + 2x 2.5 GbE)

NEW

MS130-12X



Just right!  
12 ports  
(8x 1 GbE + 4x 2.5 GbE)

MS130-24X



More than enough?  
24 ports  
(18x 1 GbE + 6x 2.5 GbE)



# MS130 Series Overview

## Gigabit SKUs (up to 1 GbE)



### 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



### M130-24P

- 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

## Multigig SKUs (up to 2.5 GbE)



### 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



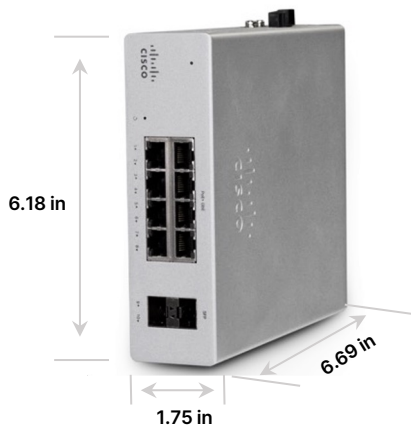
### MS130-48X

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

**Future release:** MS130 mGig (-X) models and MS130R are hardware-ready for the Adaptive Policy feature with a future firmware upgrade and advanced license.

# Розширюйте мережу за допомогою MS130R

Perfect for connecting outdoor access points, cameras, and other IoT devices in hot/cold/tight environments.



## Extend connectivity and power to wherever you need it

Power more use cases with 30 W PoE+, IP30 protection, and support from  $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .



## Flexible mounting and power options

Mount via DIN rail, rack, or wall mount with multiple external power supply options.



## One dashboard, any environment

Bring the powerful Meraki cloud-native platform to challenging environments.

Ideal for:



Drive-through  
menu boards



Parking  
lots



Outdoor access  
points and cameras



Hospitality and  
entertainment



Outdoor  
kiosks



Non-temperature-  
controlled spaces



Pop-up  
locations



Toll  
booths

# Гнучкі можливості розгортання

## Mounting options



DIN rail



Wall mount



Rack mount

Mounting brackets are included in the box

## Power supply options



Meraki AC adapter

Also compatible with Cisco's IE DIN rail power supplies



PWR-IE240W-PCAC-L



PWR-IE480W-PCAC-L

# MX

## Security & SD-WAN



# MX18.2 Beta Firmware

## Performance

vMX-XL in AWS (Private BETA)

Performance Boost (MX75/250/450)

## Multi-WAN uplinks

Multi-WAN (2 Active +1 Backup)

## Real-time intelligent steering

SD-Internet powered by NBAR

## Easy and Simply Multi-Cloud Deployments

Cloud Onramp (AWS)



## Security

Firewall Logging Live Tool

Adaptive Policy (Assignment)

Trusted Traffic Exclusions

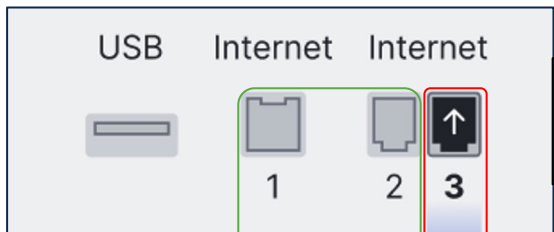
Advanced Security vMX (Private BETA)

# Multi-WAN (2 Active +1 Backup)

Private BETA Only  
GA will be announced soon

PLATFORM  
COMPATIBILITY

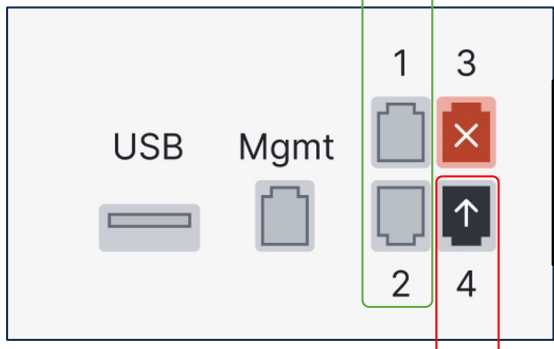
MX75



- Ports 1 & 2 are the designated WAN ports
- Port 3 on the MX75 is the Backup link

2 Active WAN uplinks 1 Backup WAN uplink

MX85,  
MX95,  
MX10  
5



- Ports 1 & 2 are the designated WAN ports
- Port 4 on the MX85/95/105 is the Backup link
- Port 3 on the MX85/95/105 is disabled

1 Backup WAN uplink  
(port 4 is PoE capable to power MG)

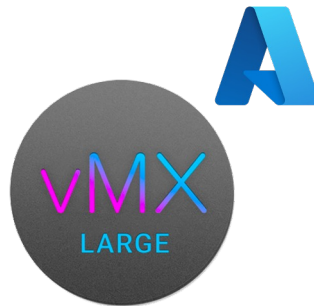
WARM SPARE	
<input type="button" value="Configure warm spare"/>	
WAN 1	
71.196.53.205	Failed
WAN 2	
73.124.49.69	Failed
WAN 3	
75.114.201.156	Active

# vMX-L in Azure



## PROBLEM

More and more customers moving workloads to the cloud, requiring higher throughputs and greater scale.



## SOLUTION

vMX-L support on Azure for higher performance and scalability. vMX-L supported across all Azure regions with support of upto 1-Gbps VPN throughput.



## COMPATIBILITY

**Platform:** vMX-L

**Licensing:** ENT

# vMX-XL in AWS



## PROBLEM

More and more customers moving workloads to the cloud, requiring higher throughputs and greater scale.



## SOLUTION

- Highly scalable vMX with upto 10 Gbps VPN throughput from a single instance.
- Highly cost effective by using optimized compute instances with upto 8 cores.

**Private BETA Only**  
**GA will be announced soon**



## COMPATIBILITY

**Platform: vMX-XL**

**Licensing: ENT**



# Cloud OnRamp (AWS)



## PROBLEM

Customers are moving to one or more clouds, but managing multiple environments is complex, requiring:

- Nuanced processes
- Differing user experiences
- Varying configurations

The screenshot shows the 'Deployments' section for 'Cloud accounts' in the Meraki dashboard. It displays a table with 3 virtual appliances. The table has columns for Status, Instance name, Provider, vMX type, Instance type, Instance ID, and Region. There are also buttons for 'Edit' and '+ Add deployment'.

Status	Instance name	Provider	vMX type	Instance type	Instance ID	Region	
<input type="checkbox"/>	vMX AWS US East (N. Virginia) Primary	AWS	vMX-L	c5.large		US East (N. Virg	
<input type="checkbox"/>	vMX AWS US East (N. Virginia) Secondary	AWS	vMX-S	c5.small		US East (N. Virg	

## SOLUTION

Deploy and manage your vMX via the Meraki dashboard.

- Unified and automated cloud management
- Expand network connectivity
- Consistent user experience



## COMPATIBILITY

Platform: vMX-S/M/L

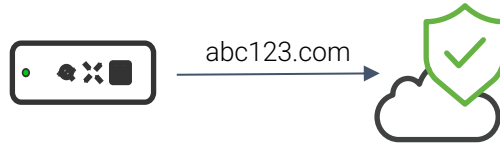
Licensing: ENT

# IPv6 Enhancements



## PROBLEM

More and more customers are requesting for IPv6 support due to the limited number of IPv4 addresses.



## SOLUTION

Addition of key features every release including:

- RDNSS Support - MX provides IPv6 DNS servers to clients without the need for an intermediary
- Anyconnect support for IPv6 including split tunnel



## COMPATIBILITY

**Platform:** Z3, Z3C, Z4, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450, vMX-S/M/L

**Licensing:** ENT, ADV, SDW+

# Auto VPN Enhancements



## PROBLEM

Upstream NAT devices may encounter problems maintaining flows resulting in dropping frames. Meraki knows there is unidirectional traffic and the tunnel is down but does nothing to remediate.

## SOLUTION

The MX will automatically select new ports and try and punch a new hole to **self heal the connection**.

## COMPATIBILITY

**Platform:** Z3, Z3C, Z4, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450, vMX-S/M/L

**Licensing:** ENT, ADV, SDW+

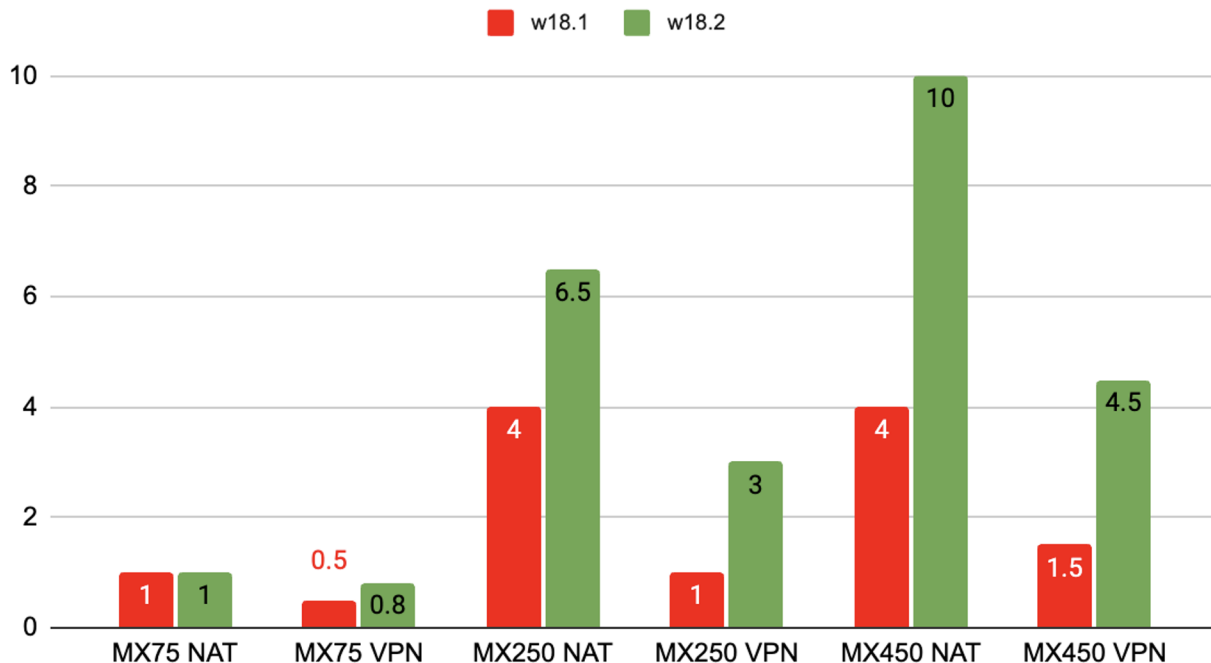
# Performance Boost



**Up to 3x\***

Performance  
Enhancement for  
MX75, MX250 and  
MX450

*Performance Optimized Firmware Throughput*



# Firewall Logging Live Tool



Firewall Log

Client: Client filter (fuzzy) IP Address: Source or Destination (conn: Port) 15600 Allowed  Blocked  Start

Firewall log (78 entries)

Filter by: Firewall name

Verdict	Time	Source IP	Source Port	Destination IP	Destination Port	Protocol	Client	Rule/Policy
✗	May 16 15:51:55	192.168.0.4	48886	239.255.255.250	15600	UDP		4
✗	May 16 15:51:58	192.168.0.4	54278	192.168.0.255	15600	UDP		4
✗	May 16 15:52:01	192.168.0.4	48698	239.255.255.250	15600	UDP		4
✗	May 16 15:52:04	192.168.0.4	59016	192.168.0.255	15600	UDP		4
✗	May 16 15:52:07	192.168.0.4	35771	239.255.255.250	15600	UDP		4
✗	May 16 15:52:10	192.168.0.4	47751	192.168.0.255	15600	UDP		4
✗	May 16 15:52:13	192.168.0.4	50685	239.255.255.250	15600	UDP		4
✗	May 16 15:52:16	192.168.0.4	55501	192.168.0.255	15600	UDP		4
✗	May 16 15:52:19	192.168.0.4	58796	239.255.255.250	15600	UDP		4
✗	May 16 15:52:22	192.168.0.4	33963	192.168.0.255	15600	UDP		4

10 results per page



## PROBLEM

Limited visibility and monitoring options into real-time FW decision-making make it harder for network admin to test policy configurations or FW rulesets, as well as troubleshoot active issues in the network.

## SOLUTION

The live firewall log will allow network administrators to troubleshoot or test their firewall policies, rulesets and FW decision-making in real-time. Users will be able to monitor traffic events for L3/L7 FW, cellular failover, site-to-site VPN and group policies.

## COMPATIBILITY

**Platform:** Z3, Z3C, Z4, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450, vMX-S/M/L

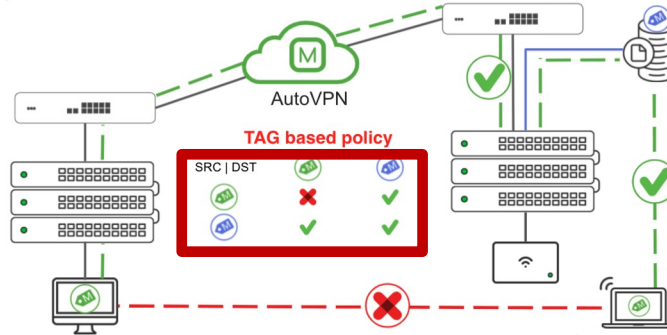
**Licensing:** ENT, ADV, SDW+

# Adaptive Policy

Supported = SGT preservation, propagation, and assignment

Not supported = SGT enforcement (future firmware)

ID	Policy	Protocol	Source ID	Src port	Destination ID	Dst port	Comment	Logging	Hits	Action
1	ADNS	TCP	192.168.200.191-192.168.200.191	Any	192.168.200.192-192.168.200.192	443	DMZ - HTTPS	Disabled	0	✓ X
2	ADNS	TCP	192.168.200.191-192.168.200.191	Any	192.168.200.192-192.168.200.192	80	DMZ - HTTP	Disabled	0	✓ X
3	ADNS	TCP	192.168.200.0/24	Any	192.168.0.0/24	Any	DMZ - IP-DMZ	Disabled	0	✓ X
4	ADNS	TCP	192.168.200.0/24	Any	Any	Any	DMZ - IP-ALLOW	Disabled	1	✓ X
5	ADNS	TCP	Any	Any	192.168.200.100/32	443	ADNS	Disabled	0	✓ X
6	ADNS	TCP	Any	Any	Any	Any	Default Allow	Disabled	8033	✓ X
7	ADNS	TCP	192.168.0.0/18	Any	172.16.16.0/24	Any	PLC Network Delay	Disabled	0	✓ X
8	ADNS	TCP	172.16.76.0/23	Any	Any	443,80	Guest Traffic	Disabled	2891	✓ X
9	ADNS	TCP	172.16.76.0/23	Any	192.168.0/18	Any	Only Guest user Mail	Disabled	200	✓ X
10	ADNS	TCP	192.168.0/18	Any	172.16.76.0/23	Any	Only Guest user Mail	Disabled	0	✓ X
11	ADNS	TCP	192.168.0/18	Any	172.16.76.0/23	Any	Only Guest CSRP	Disabled	0	✓ X
12	ADNS	TCP	172.16.76.0/24	Any	192.168.0/18	Any	Only Guest CSRP	Disabled	0	✓ X
13	ADNS	TCP	172.16.76.0/24	Any	192.168.0/18	Any	Only Guest CSRP	Disabled	0	✓ X
14	ADNS	TCP	Any	Any	Any	Any	Default Deny	Disabled	8204	✓ X
	Allow	Any	Any	Any	Any	Any	Default rule	Disabled	1837	✓ X



## PROBLEM

Traditional segmentation is based on subnets, VLANs and ACL rules. The rule sets are limited to the network which it resides in and does not travel globally with the packet.

## SOLUTION

Cisco's solution to this challenging problem is Cisco TrustSec (CTS). Each group is assigned to a Security Group Tag (SGT) and all user traffic associated with the group inherits the tag and its associated enforcement policy.

## COMPATIBILITY

Platform: Z3, Z3C, Z4, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450

Licensing: SDW+

# Trusted Traffic Exclusions

## Intrusion detection and prevention

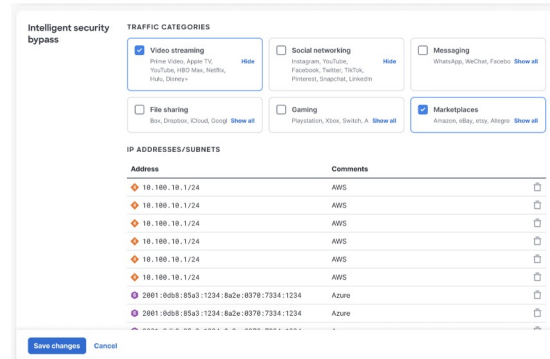
Mode  Prevention 

Ruleset  Security 

Allow list rules  There are no IDS rules on the Allow list.  
[Add an IDS rule to Allow list](#)

## PROBLEM

Not all traffic needs to be inspected by IPS. In some cases vulnerability scanners are required to bypass inspection to test end-clients/servers. In other cases, traffic is from a trusted source and does not require inspection.



## SOLUTION

Trusted Traffic Exclusions will allow administrators to identify subnet, IP, and/or predefined trusted traffic categories to be excluded from inspection. The trusted traffic will be exempt from inspection and a higher throughput can be achieved.



## COMPATIBILITY

**Platform:** MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450

**Licensing:** ADV, SDW+

# Talos Content Filtering in GP

Powered by  
**TALOS**



Blocked categories ⓘ  
See the [full category list](#).

Append

Blocked content categories ⓘ

Gambling x

Blocked categories ⓘ  
See the [full category list](#).

Append

Blocked content categories ⓘ

Gambling x

Blocked threat categories

Malware Sites x

Spyware and Adware x

## PROBLEM

Customers may require granular control for features like Content Filtering.

## SOLUTION

Group Policies allow you to create custom policies for specific users/groups. The Group Policy UI has been updated to show the **Content Categories and Threat Categories** which are now curated by Cisco Talos Intelligence

## COMPATIBILITY

**Platform:** Z4, MX64, MX64W, MX65, MX65W, MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX84, MX85, MX95, MX100, MX105, MX250, MX450

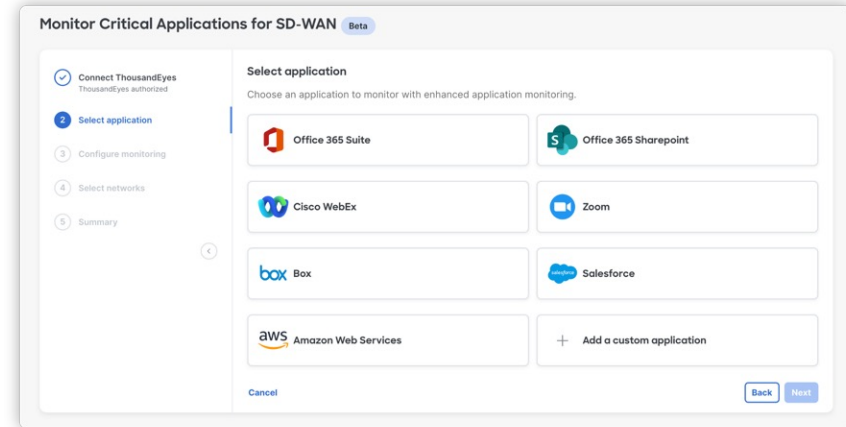
**Licensing:** ADV, SDW+, ADV Teleworker for Z4



# ThousandEyes on MX now Public Beta

ThousandEyes (TE) Enterprise Agent natively supported on Meraki MX devices enables an advanced understanding of vital external applications and services from your SD-WAN sites.

- **Simplified Deployment:** Rapidly rollout TE vantage points across sites via a guided wizard within the Meraki dashboard.
- **Increased Efficiency:** Set up TE monitoring of key apps and services in the Meraki dashboard.
- **Enhanced Visibility:** Gain crucial insights into the performance of your apps and services over the Internet and cloud networks.
- **Optimized Performance:** Proactively identify and troubleshoot network issues.
  
- **Hardware Supported:** MX67/C/W MX68/C/CW, MX75, MX85, MX95, MX105, MX250, MX450
  - vMX and Z devices are not supported at this time
- **Meraki License Required:** Secure SD-WAN Plus license



# SD-Internet powered by NBAR

**Custom expressions**

Protocol  
TCP

**Source**

CIDR Any Port Any

**Destination**

CIDR Any Port Any

**Policy**

Preferred uplink  
WAN 2

Fail over if:  
Uplink Down

Add expression Cancel

**<18.2**

Limited to IPs and Ports



**1500 Apps**

supported with NBAR

**18.2+**

Leveraging NBAR for Steering traffic to SaaS or public cloud-based applications over the best performing WAN connection at the time the traffic is forwarded



**COMPATIBILITY**

Platform: MX67, MX67W, MX67C, MX68, MX68W, MX68CW, MX75, MX85, MX95, MX105, MX250, MX450

Licensing: SDW+

# End of Sale Platforms



MX64 (W)



MX67 (W)



MX65 (W)



MX68 (W/CW)



MX84



MX75/85



MX100



MX95/105

Максимальна поточна збірка для платформ  
EoS = MX18.1

EoS пристрої залишаться функціональними  
та сумісними з 18.2+ платформами

# Z4 Teleworker Gateway



- Wi-Fi 6
- 500Mbps firewall throughput
- x1 WAN port
- x4 LAN ports (x1 PoE)
- Integrated Cat 12 LTE modem\*

\*Integrated cellular Z4C targeted CYQ4

## LICENSING FEATURE HIGHLIGHTS

	<b>Secure teleworker</b> Workers that require public internet usage	<b>Enterprise</b> Workers routed to fully backhauled environment
3-click secure Auto VPN	✓	●
L7 stateful firewall	✓	●
Cisco AMP with ThreatGrid	✓	✗
Content filtering	✓	✗
Internet Outages from ThousandEyes	✓	✗
Smart L7 local internet breakout	✓	✗
Teleworker analytics	✓	✗

# Meraki Z4C

Supporting a secure, scalable, long-term remote work strategy



Click [Here](#) to Learn More about the Z4C



## What's the Same?

- The Z4C has feature parity with the Z4



## What's New?

- Cat 12 Modem, larger form factor, external antennas



## Licensing Tiers

- Z-Enterprise or Secure Teleworker: [Here](#)



## Who Benefits From Cellular?

- Teleworkers who are critical to business operations
- Teleworkers in areas with a poor wired connection
- Teleworkers who are in customer-facing roles

# MR

## Wireless



# CW9163E Outdoor Wi-Fi 6E AP

2.4GHz + 5GHz + 6GHz 2x2:2, dedicated tri-band scanning radio, 2.4GHz IoT radio

Built-in GPS for AFC to enable 6GHz standard power outdoor operation\*

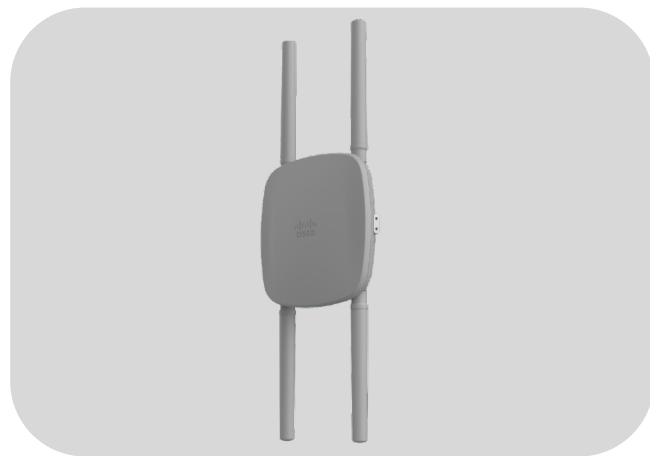
\*Pending FCC approval

2.5Gbps Multigigabit Ethernet, 802.3at power for full functionality

Omni directional 4/8/8 dBi dipole antennas (CW-ANT-O1-NS-00)  
Directional 8/9/9 dBi patch antenna (CW-ANT-D1-NS-00, available Q3FY24)  
Optional Active GPS/GNSS antennas (CW-ANT-GPS2-S-00)

Compatible with existing mounts for MR76/MR86 (MA-MNT-MR-16) and Cisco mount AIR-MNT-VERT1

Orderability: November 15  
-MR Shipping: November 15  
-X Shipping: Early December



Target Customers: MR76 and MR86 customers who want Wi-Fi 6E

# Catalyst 9166D1 Access Point

PIDs: CW9166D1-{MR,A,B,E,F,Q,ROW,Z}



## Hardware highlights

- Penta-radio architecture
- 5 mGig PoE port (optional DC power)
- IoT capable (app hosting, USB port)

## Feature highlights

- First integrated directional antenna in a Wi-Fi 6E certified AP
- Manage with Catalyst 9800 WLC+ Catalyst Center or Meraki Dashboard
- Globally available for use with 6GHz spectrum (for regions where 6GHz is not yet available, defaults to dual 5GHz client radios)

## Optional Accessories

- CW-MNT-ART2-00 | Articulating arm



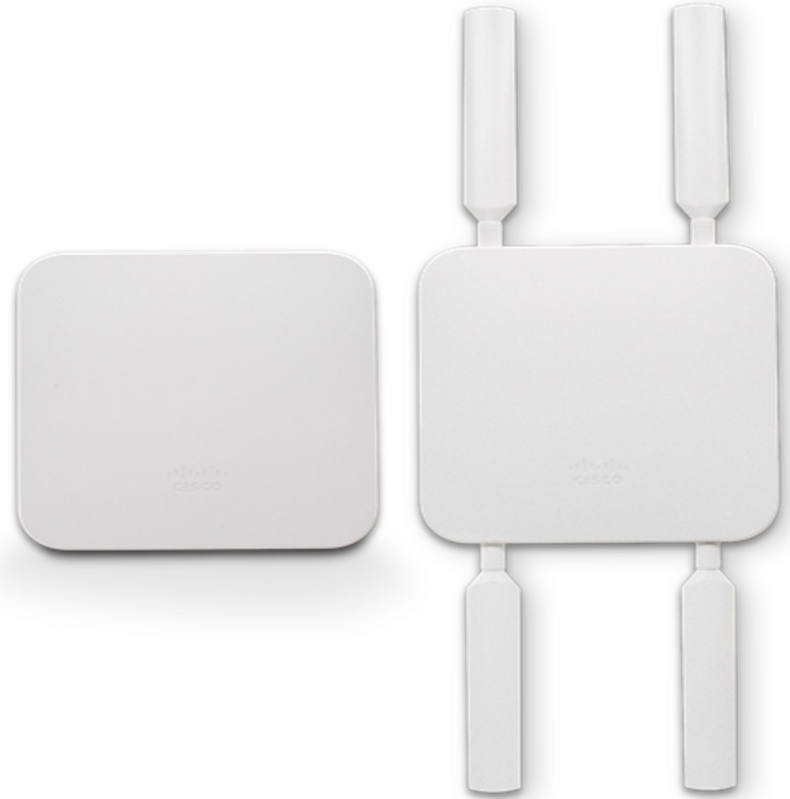
# MG

Cellular Gateway



# MG51 & MG51E Cellular Gateways

- 5G always-on connected experiences anywhere
- Primary connectivity
- Category 20
- 2 Gbps / 300 Mbps (down/up)
- Dual SIM
- IP67-rated: mountable anywhere indoor or outdoor
- Cellular is not just a backup option anymore, it can connect your entire branch











# MT

## IoT Sensors



# Датчики для будь-якого приміщення

INFRASTRUCTURE MONITORING			POWER	INDOOR AIR QUALITY		COLD STORAGE	AUTOMATION
<b>MT10</b> Temperature and humidity	<b>MT12</b> Water leaks	<b>MT20</b> Door open/close	<b>MT40</b> Smart power controller	<b>MT14</b> Indoor air quality	<b>MT15</b> Indoor air quality + CO2	<b>MT11</b> Temperature probe	<b>MT30</b> Automation button
							

# MT15 для CO2 і не тільки

MT15 сигналізує про стан середовища за допомогою світлодіодного індикатора

- Простий монтаж у будь-якому приміщенні
- Удосконалений датчик якості повітря
- Шість екологічних показників
- Моніторинг вуглекислого газу
- Візуальний індикатор

Вимірює показники якості повітря

- Тверді частинки 2.5
- Загальна летюча органічна сполука
- Вуглекислий газ
- Температура
- Вологість
- Навколишній шум



## LED indicator

### Brightness



### Metric assignment

Select which metric the devices LED light will reflect.

- IAQ  CO<sub>2</sub>  TVOC  PM2.5  Temperature  Humidity  Ambient noise

Excellent Good Fair Poor Inadequate

0-600ppm 600-800ppm 800-1500ppm 1500-1800ppm ≥1800ppm

# MT40 Smart Power Controller

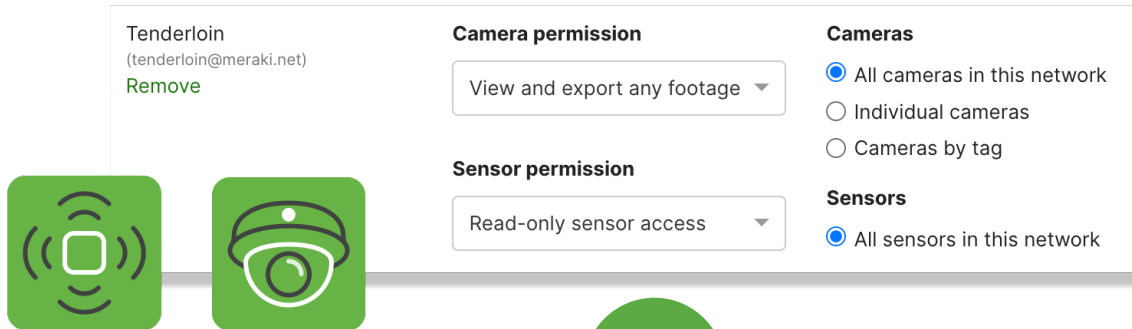
- Вимірювання споживання енергії для аналізу та виявлення аномалій
- Дистанційно вмикайте/вимикайте підключені пристрої для усунення несправностей, зменшення відвідувань об'єктів і ручної праці
- Апаратний перемикач для режиму monitor-only
- Нові команди API



# MT Sensor-Only Admin

## Limit users to just the permissions they need

- IoT admin is limited to only camera and sensor features on both the Meraki dashboard and the Meraki enterprise mobile app
- Once created, IoT admins can be found quickly under Organization > Administrators
- You can add sensor access to existing camera-only admins



The screenshot shows the configuration page for a user named 'Tenderloin' (tenderloin@meraki.net). The user has a 'Remove' link next to their name. The configuration is divided into three sections: 'Camera permission', 'Sensor permission', and 'Cameras/Sensors'. Under 'Camera permission', the dropdown menu is set to 'View and export any footage'. Under 'Sensor permission', the dropdown menu is set to 'Read-only sensor access'. On the right, under 'Cameras', the radio button for 'All cameras in this network' is selected. Under 'Sensors', the radio button for 'All sensors in this network' is selected. Below the configuration box, there are two green square icons: one with a camera lens and another with a sensor symbol.

Tenderloin  
(tenderloin@meraki.net)  
[Remove](#)

**Camera permission**  
View and export any footage ▾

**Sensor permission**  
Read-only sensor access ▾

**Cameras**  
 All cameras in this network  
 Individual cameras  
 Cameras by tag

**Sensors**  
 All sensors in this network

# Thank you

