Designing Smart Spaces with Meraki

Meraki

The Meraki Community

Connect with Meraki aficionados around the world

Training & Certification

Discover free courses and resources to help you further your Meraki knowledge and expertise
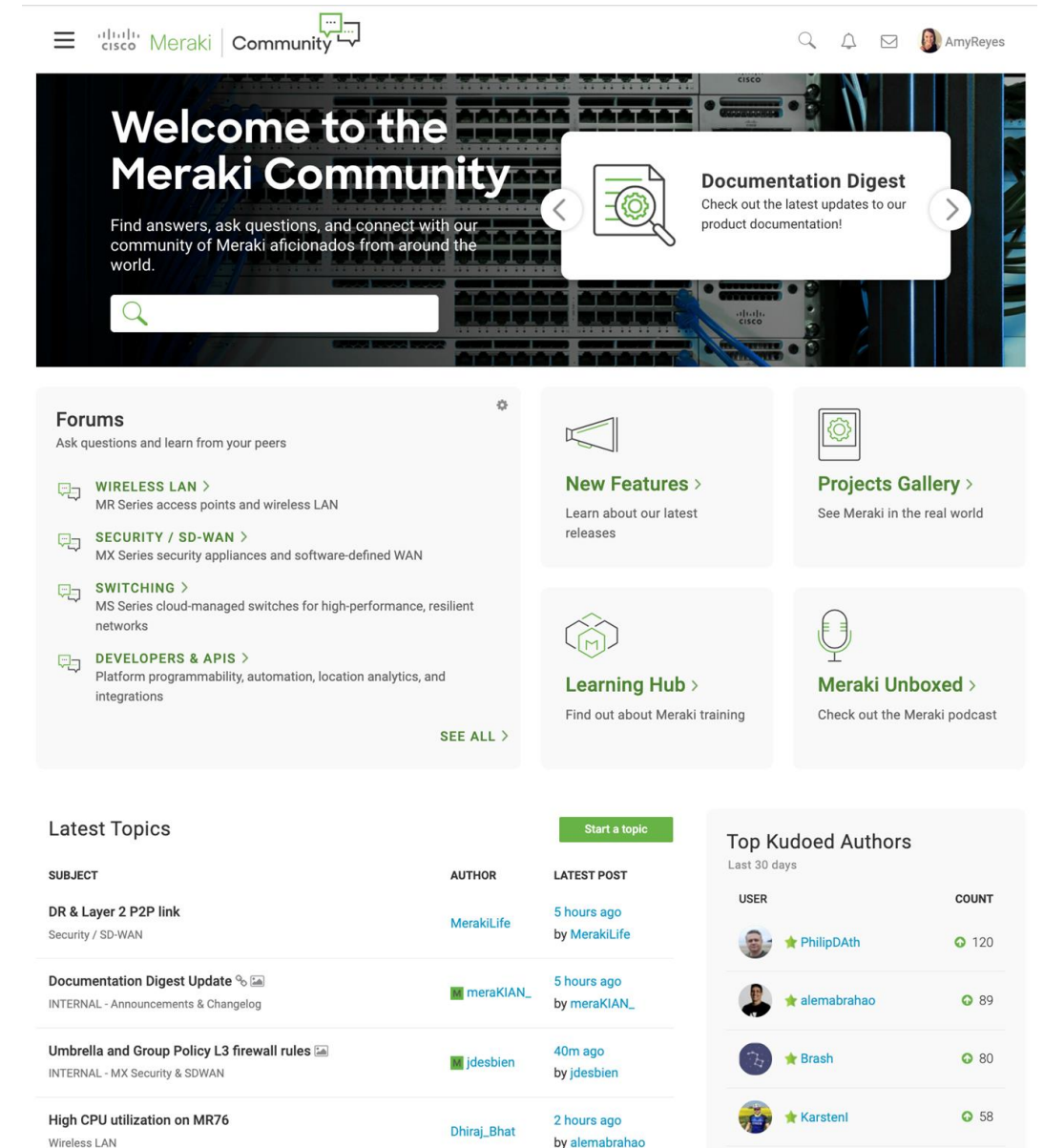
Contests & Challenges

Have fun and win sweet Meraki swag in our monthly contests

Feature Announcements

Get the latest product news and feature updates

Technical Forums

Ask questions and engage in discussions with other experts

Meraki

Agenda

- Understanding Smart Space opportunities

- Understanding Cisco Meraki's cloud-first platform

- Examining the Meraki Marketplace

- Designing Smart Spaces

- Initiating a Smart Space project

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Understanding Smart Space opportunities

People's expectations have changed, and so should we.

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Changing **expectations**
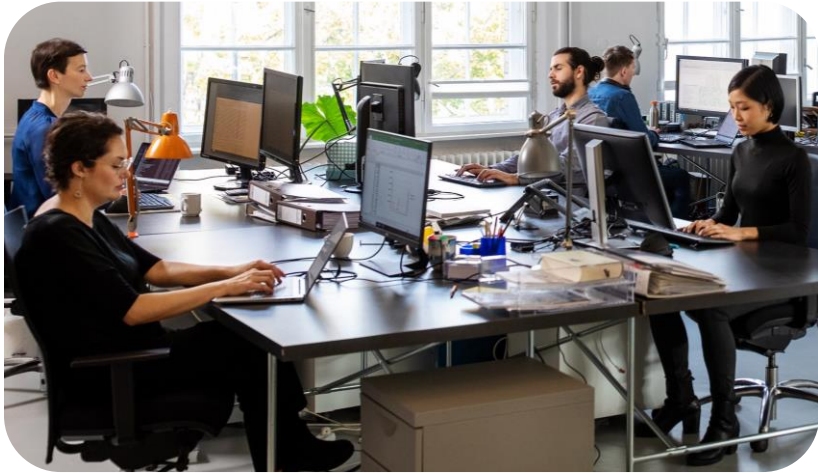
OFFICE SPACES

EMPLOYEES

68%

do not feel completely safe
going back into workspaces

[Honeywell, 2021]

COMMERCIAL & PUBLIC SPACES

CUSTOMERS & END USERS

80%

consider the experience as
important as the products

[Salesforce Research]

RESTRICTED SPACES

IT LEADERS

50%

prioritize employee and
customer experience

[Rackspace Technology]

cisco **Meraki**

What do you value the most in Smart Spaces?

Select your answer.

Meraki

Smart workspaces

Bringing the network and experiences together

CISCO SPACES

Cisco and Meraki infrastructure

Meraki MV cameras

Meraki MR access points

Catalyst switching and access points

Meraki MT sensors

Welcome To Building SFO12
LOW

Webex endpoints

Third party sensors

Rich maps

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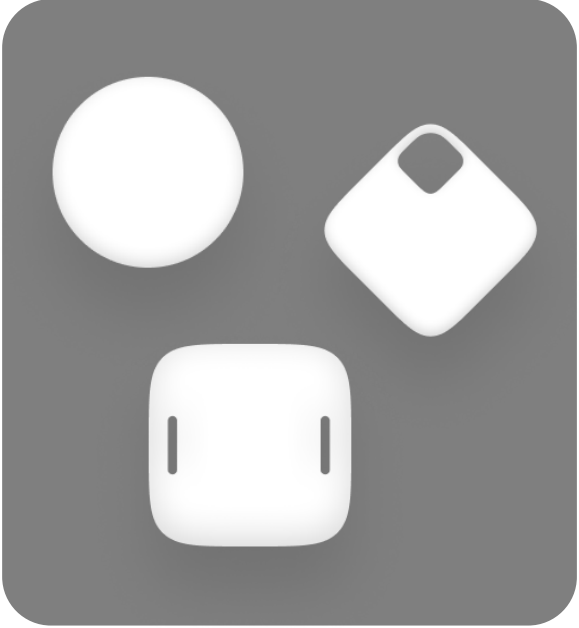
Understanding Meraki's cloud-first platform

Meraki

Powered by the Meraki platform

The largest cloud platform in networking built for scale and intelligence

730K+
Customers

99.99%
Cloud SLA

4+
MILLION
Customer networks

12+
MILLION
Meraki devices online

190+
Active countries

8+
BILLION
Monthly external API calls

340+
MILLION
Daily end-user devices

3.4+
MILLION
Active API users

Born in the cloud, growing daily, and **trusted everywhere**

A foundation for IT and IoT

Built-in solutions

Meraki Dashboard

Meraki Platform

Tailored solutions (APIs)

Custom Built Apps
meraki.io

Tech Partner Apps
apps.meraki.io

MR
Wireless access points

MS
Ethernet switches

MX
Security & SD-WAN appliances

MG
Cellular gateways

MI
Insight [application & WAN]

SM
Endpoint management

MV
Smart cameras

MT
Meraki sensors

Cisco Meraki
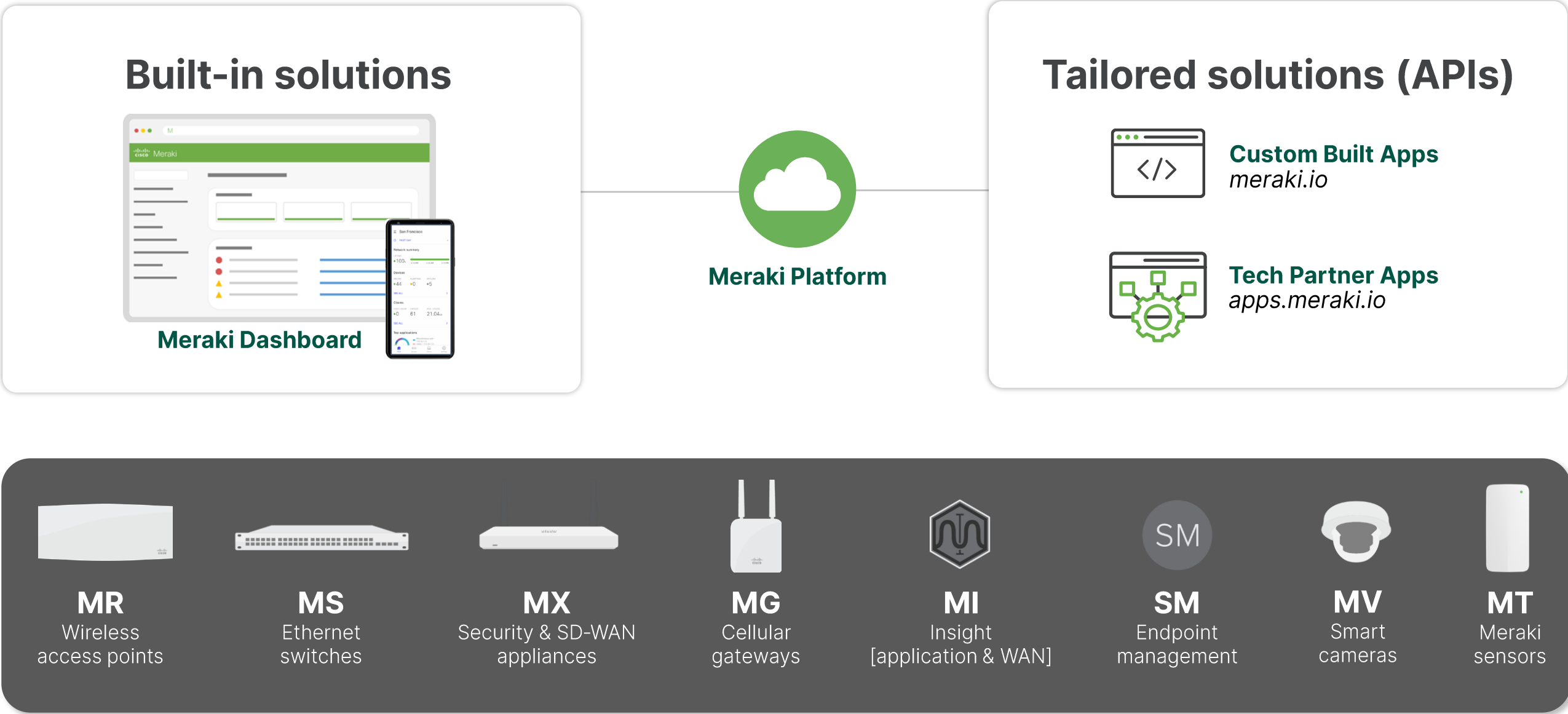
The foundation for any Smart Space

MR, MV, and MT are your **smart space toolbox**

MT SENSORS
Key environmental insights

MR ACCESS POINTS
Precise location analytics

MV SMART CAMERAS
Security & analytics

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MV cameras

A smarter way to build safe environments

Meraki MV **smart** cameras
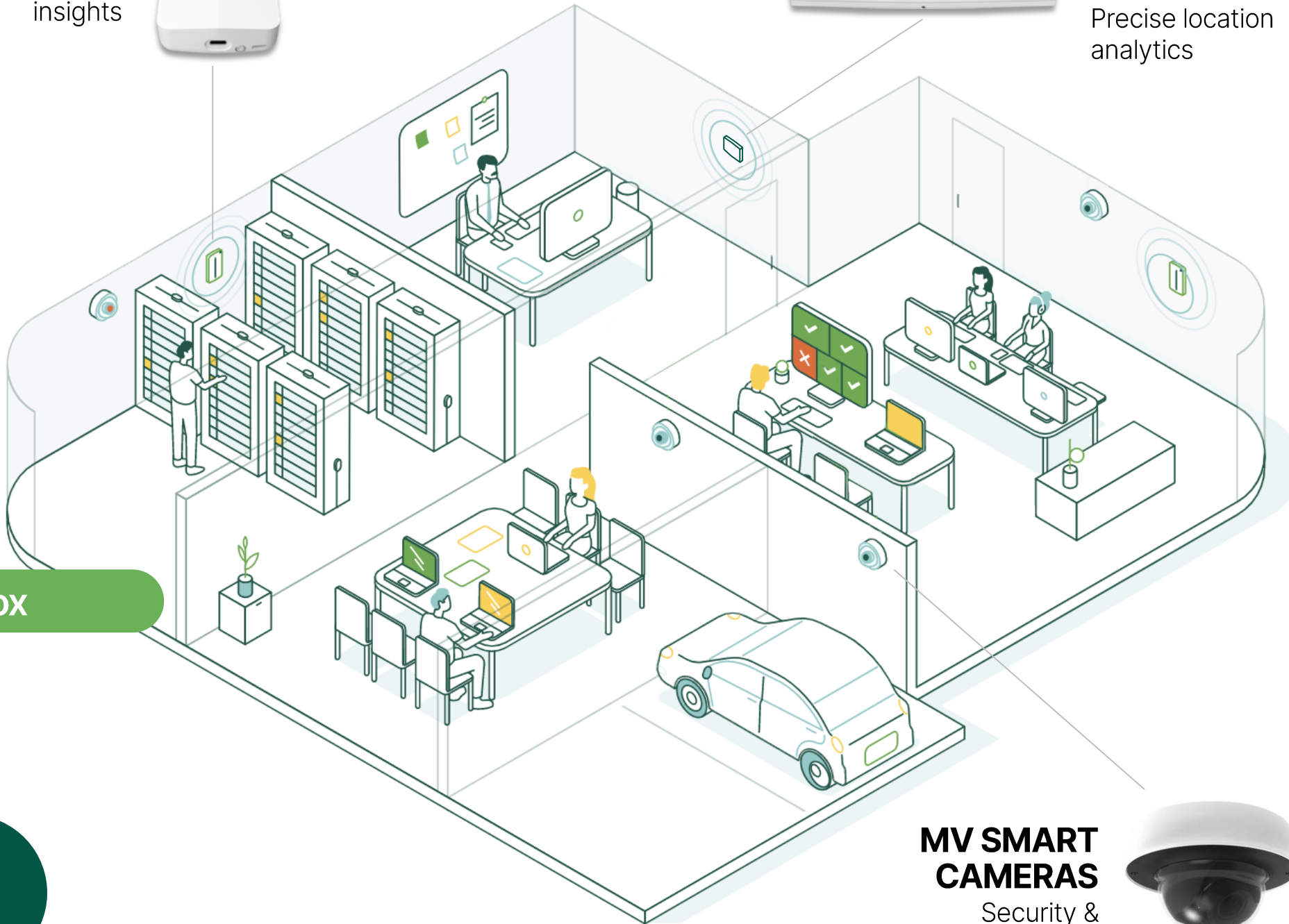Cloud-managed physical security designed to give you more

Scalable

- On-camera storage and processing
- Cloud management
- No NVR, VMS, or plug-ins

Secure

- Hardware security
- Video encryption
- Automatic updates
- Secure user accounts

Agile access

- Local and remote viewing
- Browser-based dashboard
- Mobile app

Smart

- Motion analytics
- People, vehicle, siren, and alarm detection
- Audio analytics

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MV camera **indoor** portfolio

FLEXIBLE, LOW-COST

MINI INDOOR DOME

360° FISHEYE

VARIFOCAL INDOOR DOME

MV2

Wide FoV
1080P video
No on-camera storage

MV12 series

Wide or narrow FoV
1080P video
128-256GB storage

MV32

360° fisheye
8.4MP sensor
256GB storage

MV22 series

Varifocal lens
Wide to narrow FoV
Up to 4MP video
256-512GB storage

CISCO Meraki

MV camera outdoor portfolio

| VARIFOCAL, OUTDOOR DOME | MORE DETAIL, LONGER STORAGE | LONG-RANGE, HIGH-DETAIL | HIGH RESOLUTION, FLEXIBLE STORAGE | PANORAMIC AREA CAPTURE |

MV72

36-112º FoV
1080P video
256GB storage

MV72X

36-112º FoV
4MP video
512GB storage

MV52

12-37º FoV
4K video
1TB storage

MV63 series

Fixed lens (102º FoV)
Up to 4K video
256GB-1TB storage

MV93 series

360º fisheye
Up to 12.4MP sensor
256GB-1TB storage

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MT sensors

Monitoring environmental quality with IoT
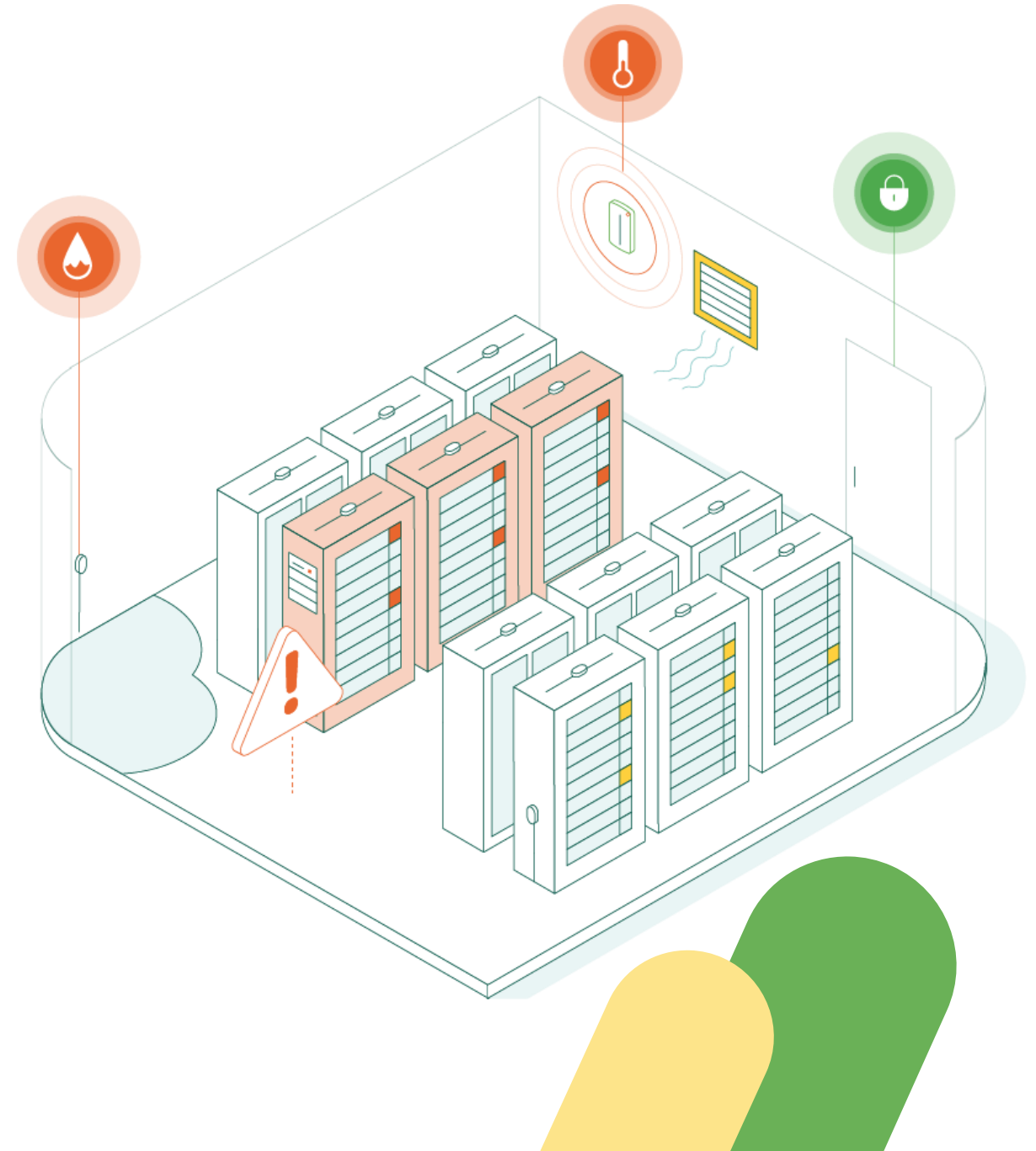
Business resiliency starts with MT

Real-time monitoring and alerts prevent disruptions

Maximize equipment uptime

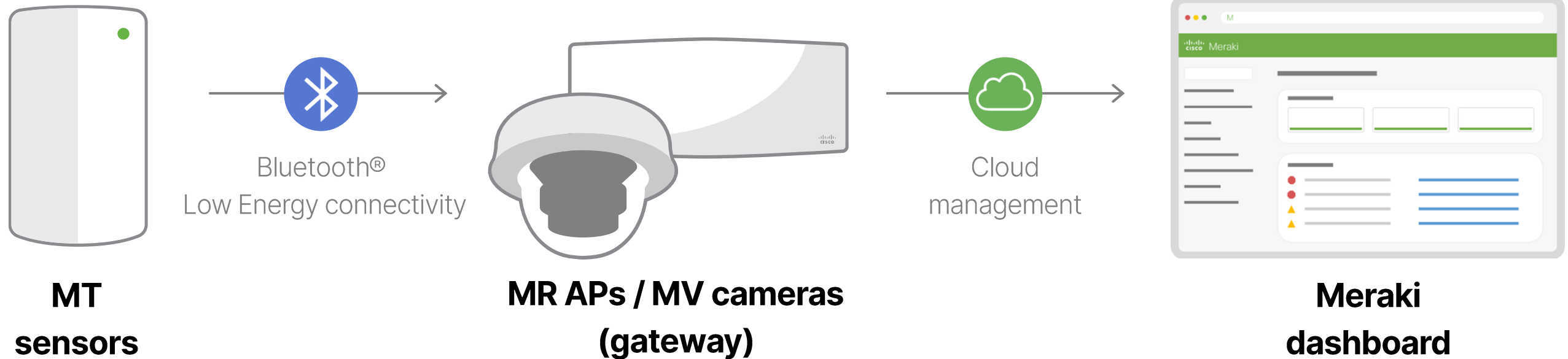**Prevent hardware damage**

Prevent unauthorized access

Reduce energy consumption

Focus on your business, not installation

Rapid deployments powered by the cloud-first Meraki platform

MT sensors

Bluetooth®
Low Energy connectivity

MR APs / MV cameras (gateway)

Cloud management

Meraki dashboard

cisco Meraki

Sensors for every business need

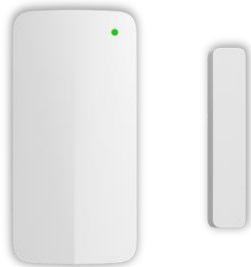COLD STORAGE

SAFE ENVIRONMENTS

AUTOMATION

MT10
Temperature and humidity

MT12
Water leak

MT20
Door access (intrusion)

MT11
Temperature probe

MT14
Indoor air quality

MT30
Smart automation button

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Examining the Meraki Marketplace

API integration and benefits
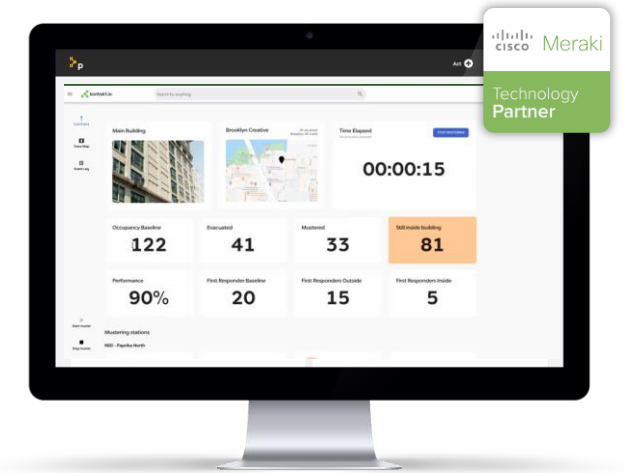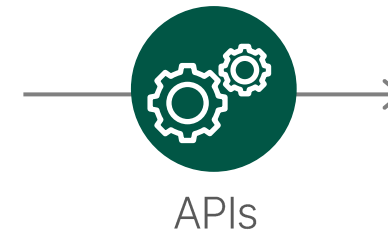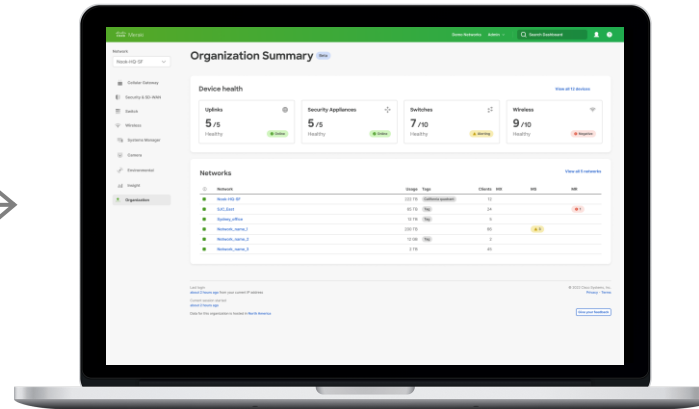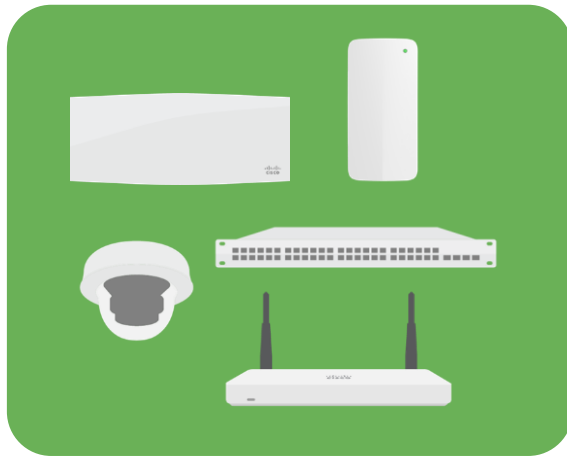
Easy to use

- Fast to deploy
- No coding experience required

Cross functional

- Additional insight from already available data
- Stickier solution

Leveraged at any time

- Add more value to a new project
- Improve an already deployed infrastructure

APIs

Meraki

Two teams: one strategy

Meraki Developer Hub

Meraki Marketplace

APIs   APIs

BUILD
create.meraki.io/build

BUY
apps.meraki.io
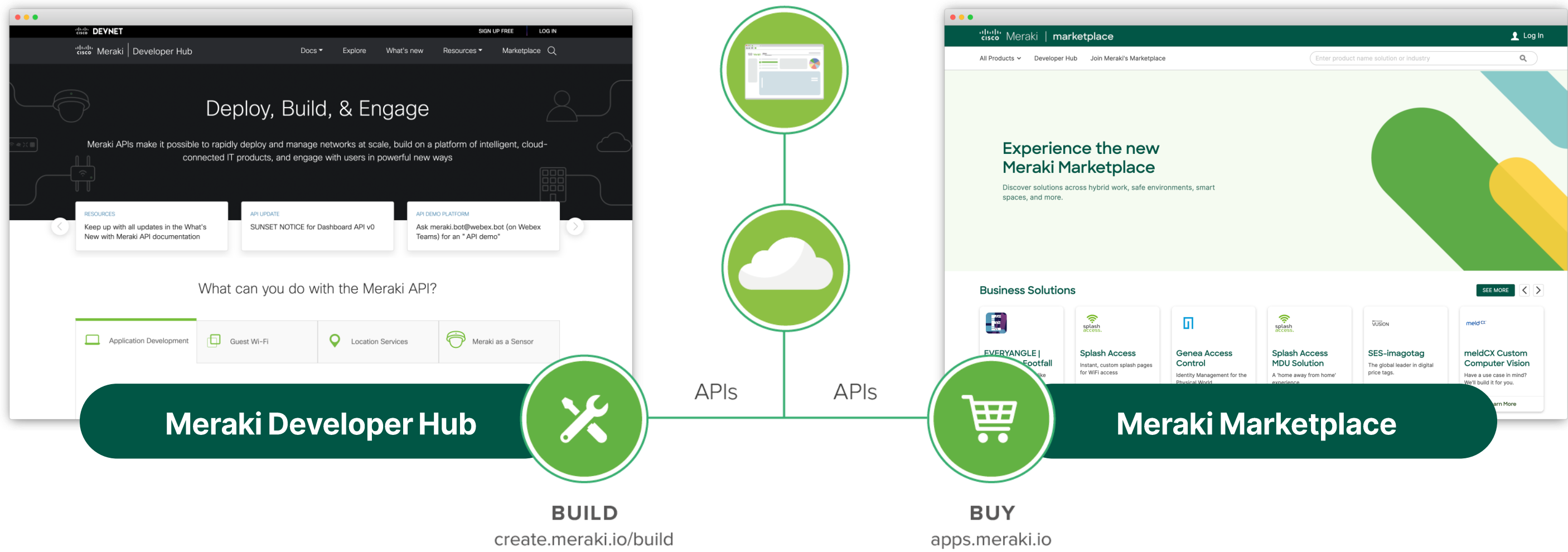
Meraki

What is in the **Meraki Marketplace?**
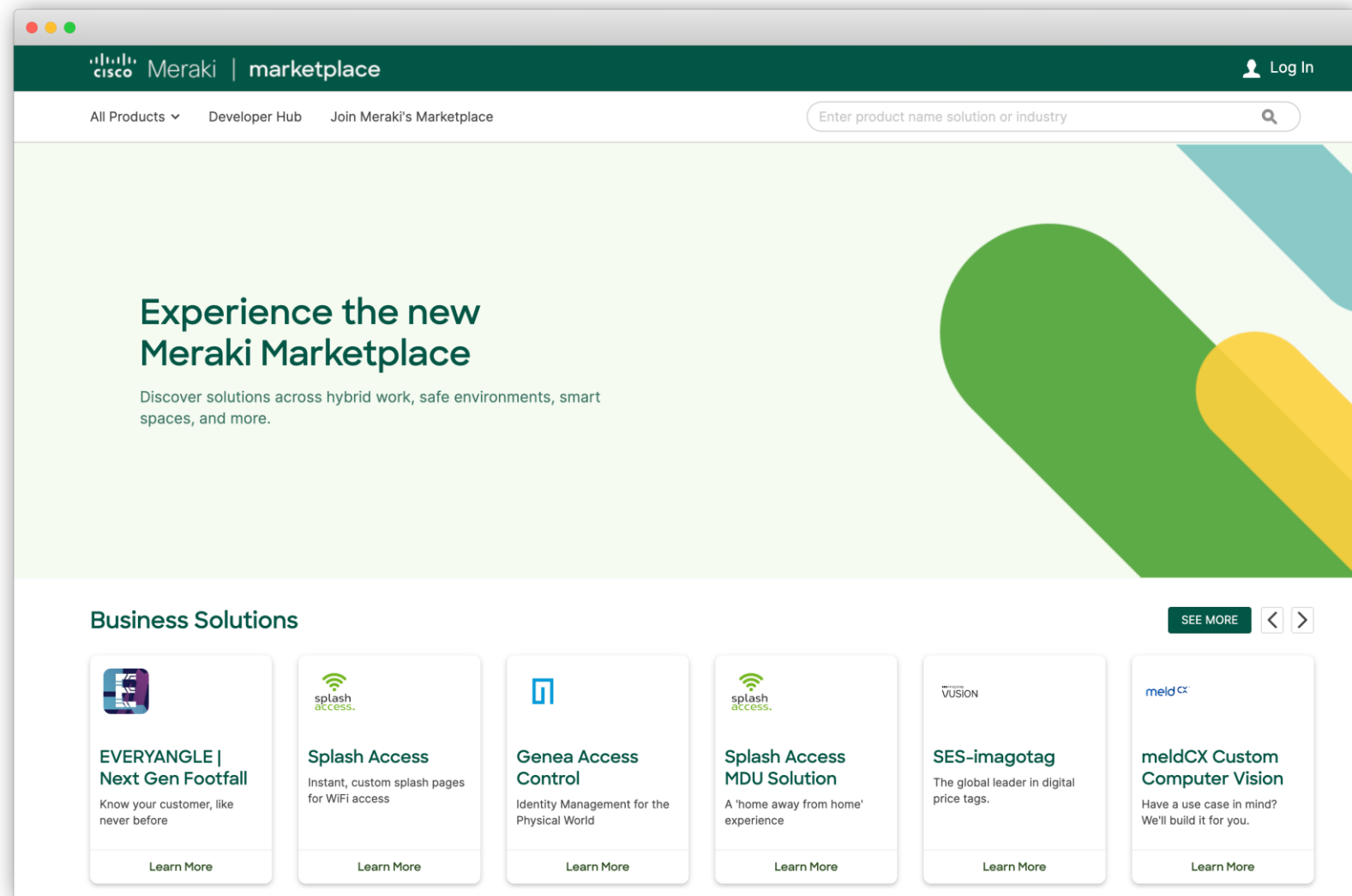
An exclusive **catalog of ecosystem partners** that showcases **applications developed on top of the Meraki platform**

Types of solutions

Smart occupancy

Marketing & trends

Investment protection

Security & safety

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Which type of solution interests you the most?

Select your answer.

Meraki

Any space, different needs, many solutions

Safe occupancy

Space utilization

Obstruction detection

Zone engagement

Remote control

Contact tracing

IoT sensors

Footfall analytics

Power consumption

Hot desking

Custom CV

Wayfinding

Air quality control

Asset tracking

Access control

People tracing

Loss prevention

Conversion rate

Remote monitoring

License plate recog.

Customer experience

Augmented security

Building system man.

Digital signage

CISCO Meraki

and **more!**

Designing Smart Spaces

Office spaces

- **Monitoring**, **assessing**, and **responding** to physical conditions

- **Gaining insights from data** that's currently nonexistent or hard to find

- **Optimize workspaces** by maximizing resource usage
  - Ensure safety and security
  - Personalize communications and engagements

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Commercial and public spaces

CHALLENGES

- **Accessing insightful customer data** in physical and network security layers operating independently

- **Establishing secure** and **reliable** network performance

OPPORTUNITIES

- Implement a unified solution to **increase and improve experiences**
  - Proactively manage environmental changes
  - Ensure safety and security

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Restricted spaces

CHALLENGES

- **Reacting** when environmental conditions impact or threaten equipment performance

- **Eliminating downtime** and business disruption

OPPORTUNITIES

- **Proactively manage environmental changes** with automations
  - Reduce energy consumption
  - Protect critical IT infrastructure
  - Provide real-time visibility and alerts
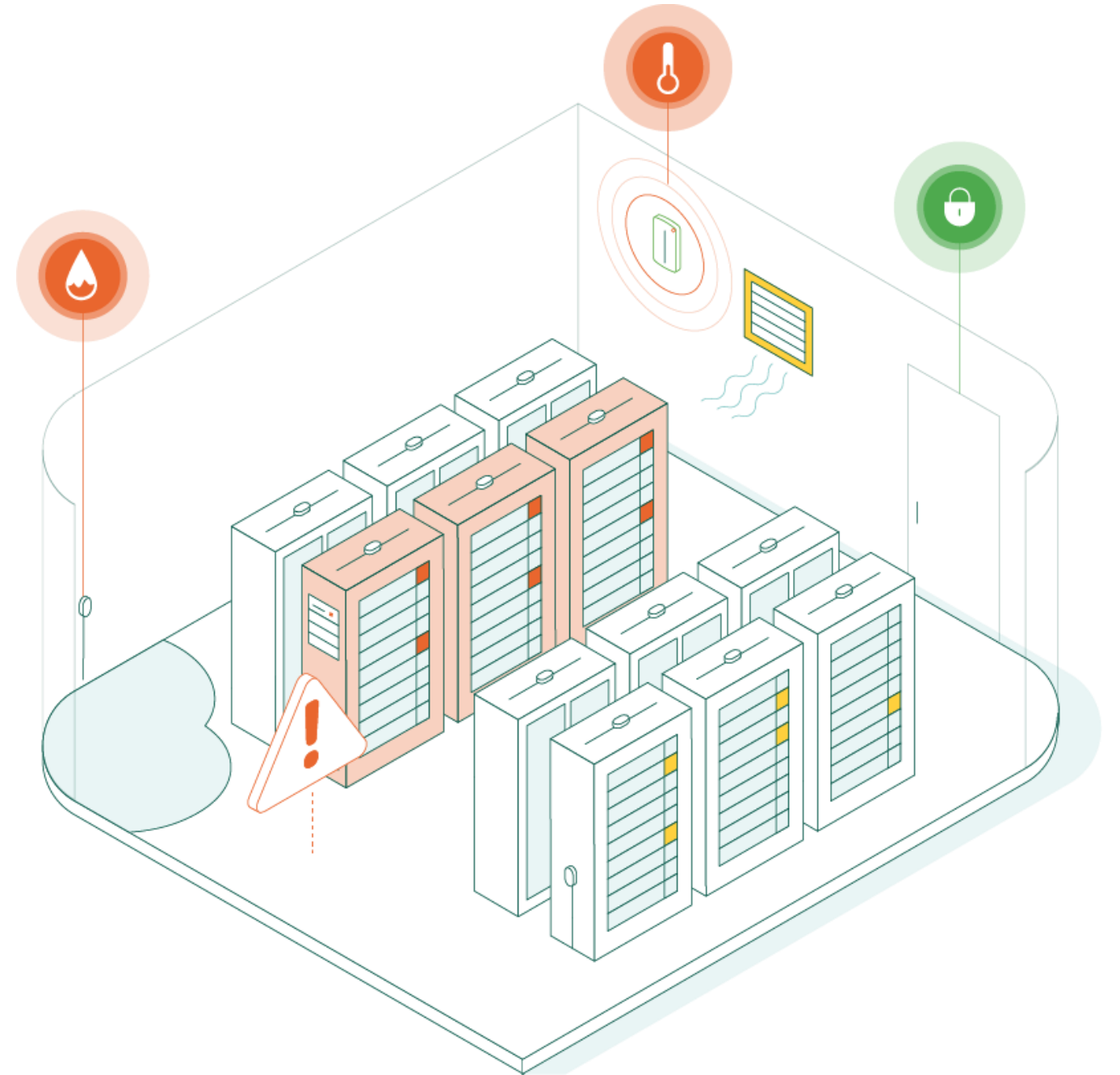
In which space would you like to focus first and make it smarter?

Select your answer.

Let's design together.

Smart Spaces Design Worksheet

A one-page quick reference guide to walk you through the key design areas of building a Cisco Meraki Smart Space solution:

1. Design qualification
2. Hardware selection
3. Technology partner selection

Download the PDF file at

https://cs.co/smart-spaces-worksheet

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Smart Spaces Design Worksheet

Design Qualification

What are the challenges?

What types of technology solutions are needed?
- ☐ Safe Environments
- ☐ Smart Occupancy
- ☐ Marketing & Trends
- ☐ Investment Protection
- ☐ Access & Security

Which space type/persona does this opportunity most closely match?
- ☐ Office Space
- ☐ Commercial & Public Space
- ☐ Restricted

Does the area/environment have existing wireless network coverage? If so, which vendor's access points?
- ☐ No
- ☐ Yes
- ☐ Cisco (Aironet, Catalyst)
- ☐ Meraki (MR)
- ☐ Other Vendor

Hardware Selection

	CAMERAS			Review full portfolio & datasheets
INDOOR	☐ **MV2** compact form factor — flexible mounting, 1080p, low cost, Cloud Archive storage	☐ **MV12 series** mini dome — narrow or wide (73°-114°) FoV, 1080p, up to 256GB storage	☐ **MV22 series** varifocal dome — 3x optical zoom, up to 4MP sensor, up to 1TB storage	☐ **MV32** compact fisheye — 360° immersive digital PTZ, 8.4MP sensor, 256GB storage
OUTDOOR	☐ **MV52** long-range bullet — 4K recording, 1TB onboard storage, IK10+/IP67 rated	☐ **MV63 series** mini dome — 102° FoV, up to 4MP sensor, up to 1TB onboard storage, IK10+/IP67 rated	☐ **MV72 series** varifocal dome — 3x optical zoom, up to 4MP sensor, up to 512GB onboard storage, IK10+/IP67 rated	☐ **MV93 series** compact fisheye — 360° immersive, up to 12.4MP sensor, up to 1TB storage, IK10+/IP67 rated

		SENSORS		Review full portfolio & datasheets	
☐ **MT10** temperature and humidity — temperature range: 0°-55°C humidity range: 0%-95% RH	☐ **MT11** temperature probe — temperature range: -40°C to 55°C multiple probe options	☐ **MT12** water leak detection — multiple leak detection options, IPX5 rated	☐ **MT14** air quality monitoring — monitor PM2.5, TVOC, temperature (0°-55°C), humidity (0%-95% RH), noise (20-120 dBA)	☐ **MT20** open/close detection — magnetic field sensor, flexible mounting options	☐ **MT30** smart automation — flexible mounting options, IP55 rated

Technology Partner Selection

	SOLUTIONS		Browse all Meraki Marketplace categories	
Analytics	**Hybrid Work**	**Safe Environments**	**Smart Spaces**	
☐ Custom CV	☐ Flex Office	☐ Contactless Engagement	☐ Access Control	☐ Loss Prevention
☐ Footfall Analytics	☐ Hot-desking	☐ Contact Tracing	☐ Asset Tracking	☐ Smart Workplace Solutions
☐ License Plate Reader	☐ Next-Gen Campus	☐ Safe Occupancy	☐ Building Management System	☐ Wayfinding & Mapping
☐ Video Analytics		☐ Security Monitoring	☐ Digital Signage	

Which Meraki ecosystem technology partner(s) would be a good fit?

Scenario

SITUATION:

- This company is in the middle of adopting hybrid work for their workplace strategy—during the rollout, they need to know that each office workspace is being used efficiently

- Their main priorities are comfort and productivity for employees that work in the building

- They would also like to address complaints about their wireless coverage and inadequate speeds
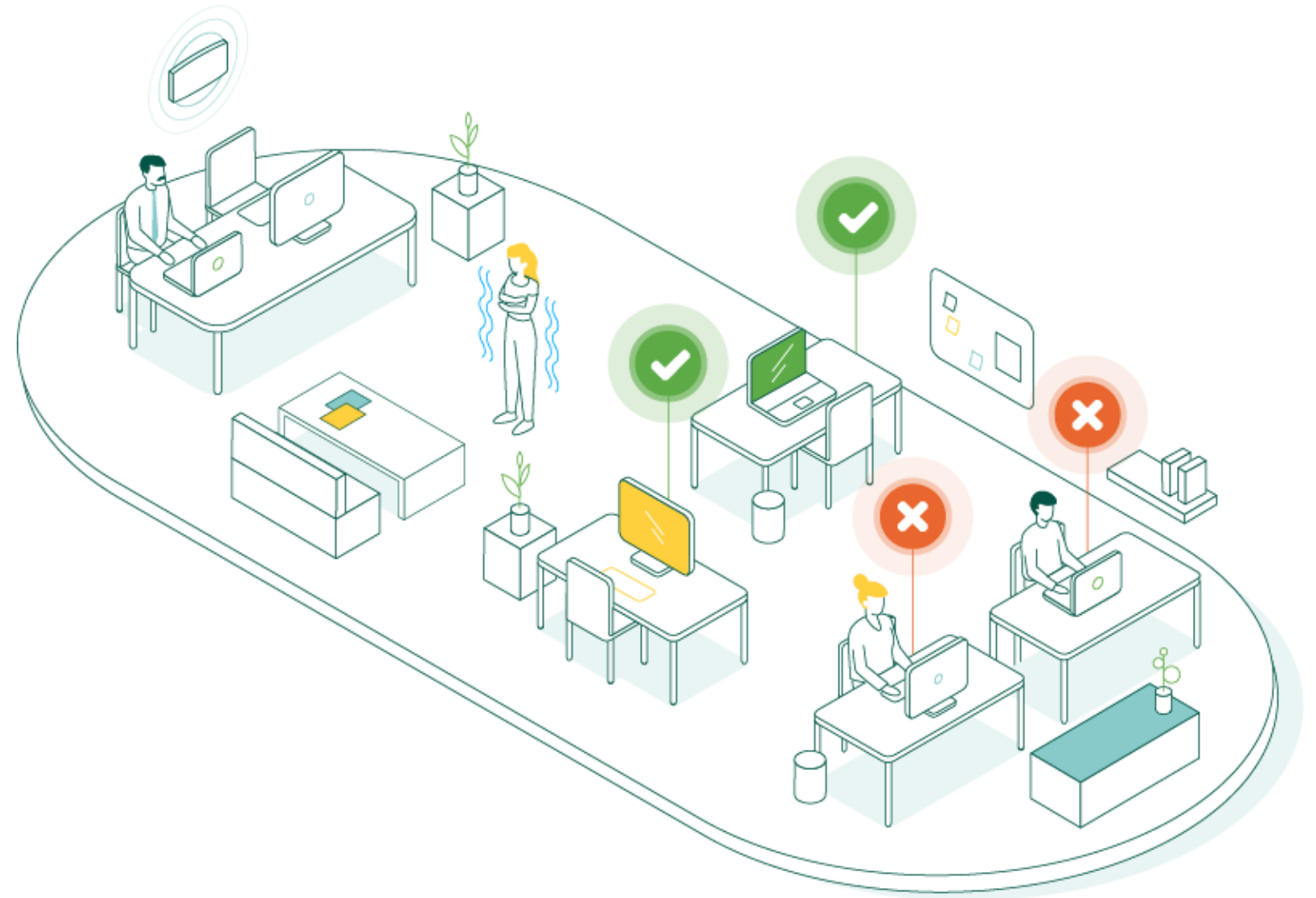
Scenario

CHALLENGES:

Efficient workspace use

Employee productivity

Comfort

Wireless coverage

RECOMMENDED DESIGN:

- Meraki MR Wi-Fi 6 access points

- MV12 series or MV22 series indoor dome cameras (also MV32 compact fisheye)

- MT14 air quality sensors or MT10 temperature/humidity sensors

- Technology partner solutions: flex office, hot-desking
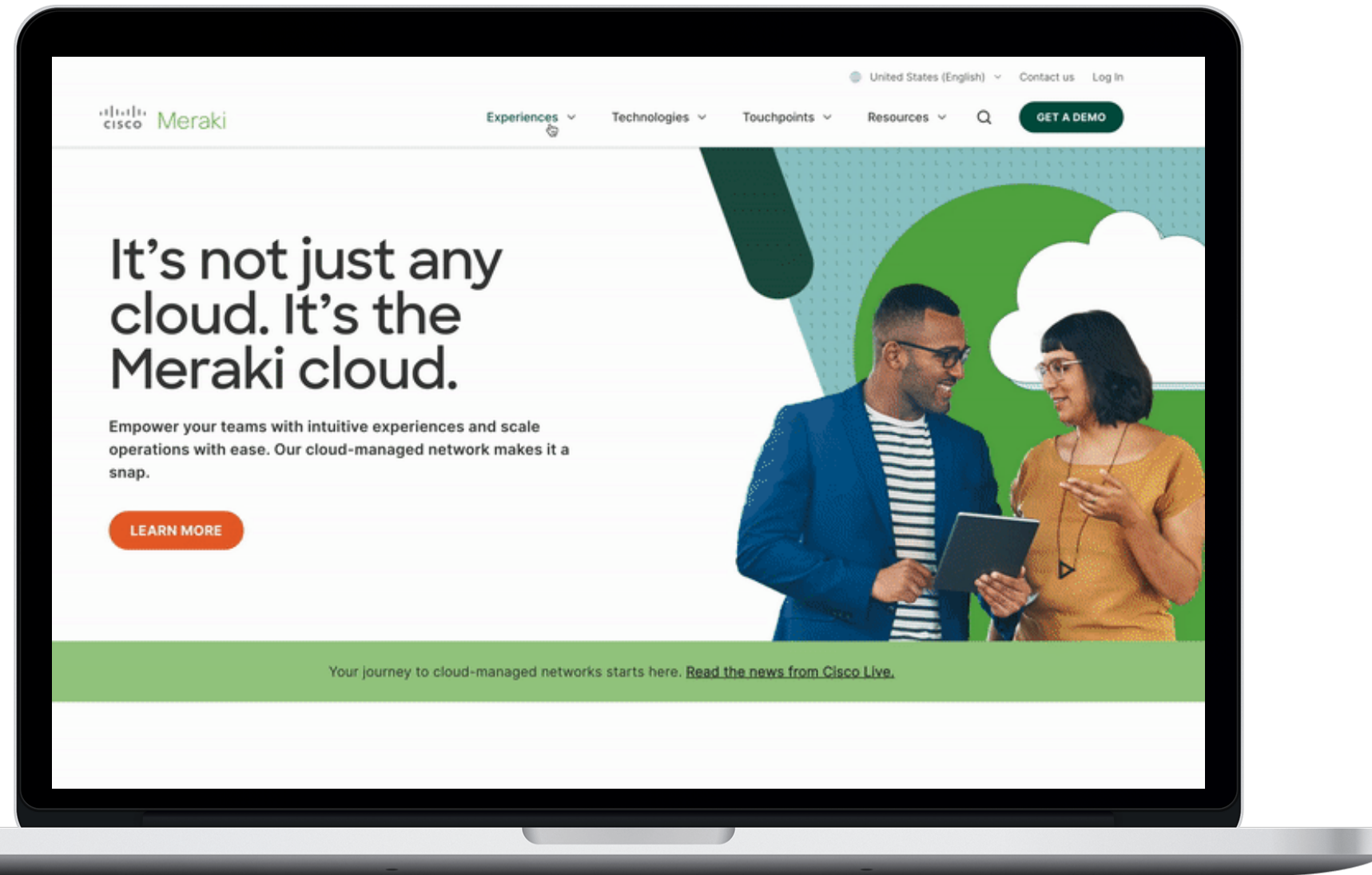
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Initiating a Smart Space project

Meraki

Meraki.com

Experiences > Learn More

What's here...

'Microsites' that cover different experiences with supporting customer-facing whitepapers, reports, case studies, infographics, and product overviews

Highlights

- Smart spaces microsite

- Safe workspace microsite

- Physical security microsite

Meraki

Marketplace Announcements (Community)

Community > Marketplace Announcements
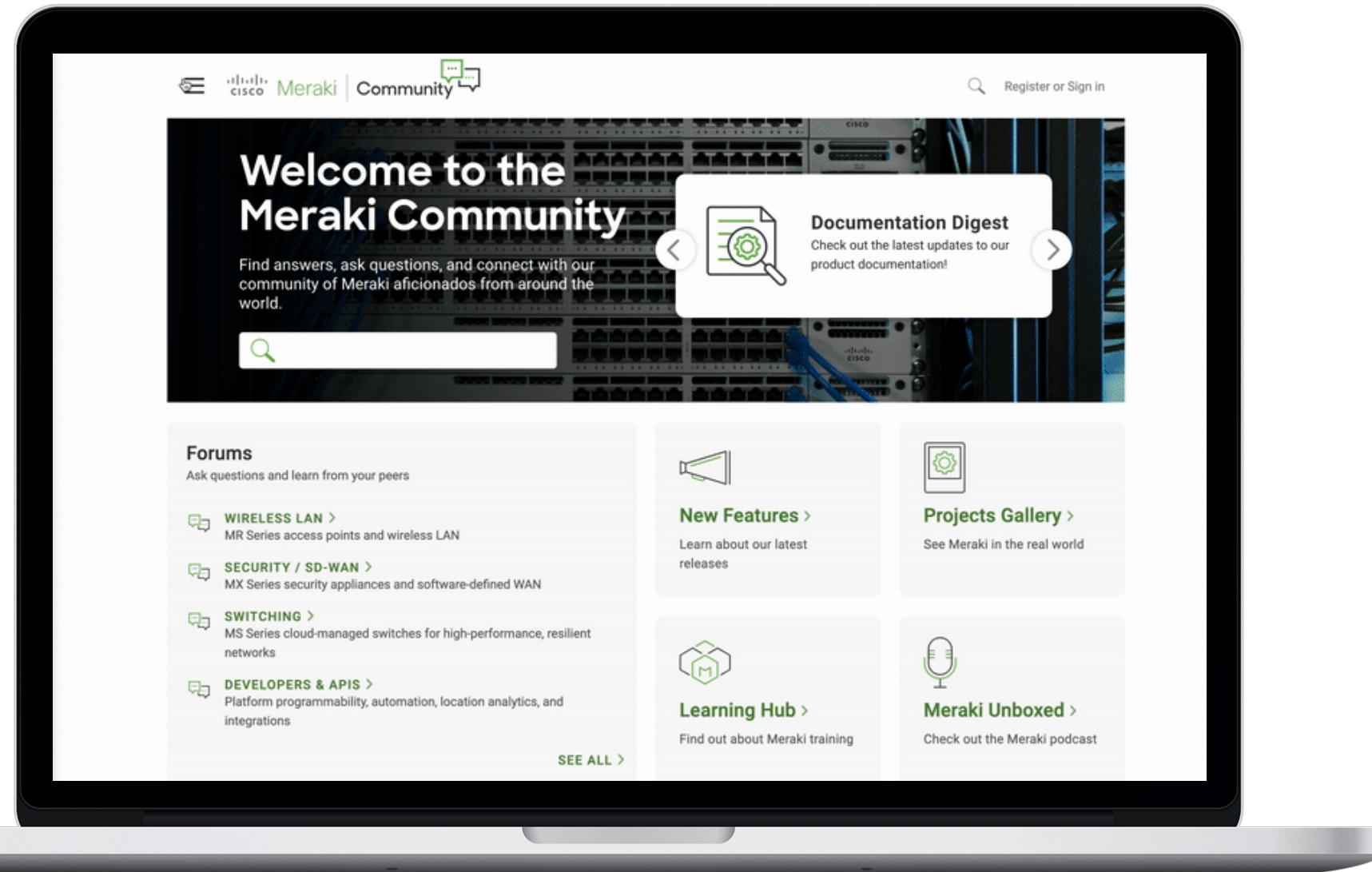
What's here...

Page within the Meraki Community frequently updated by the Meraki team to spotlight the newest additions to the Meraki Marketplace

Highlights

- Register for Meraki events: upcoming virtual webinars, in-person events, and even competitions

- Blog posts & monthly app round up: highlights and write-ups posted for quick reference and easy reading

Meraki

Meraki webinars
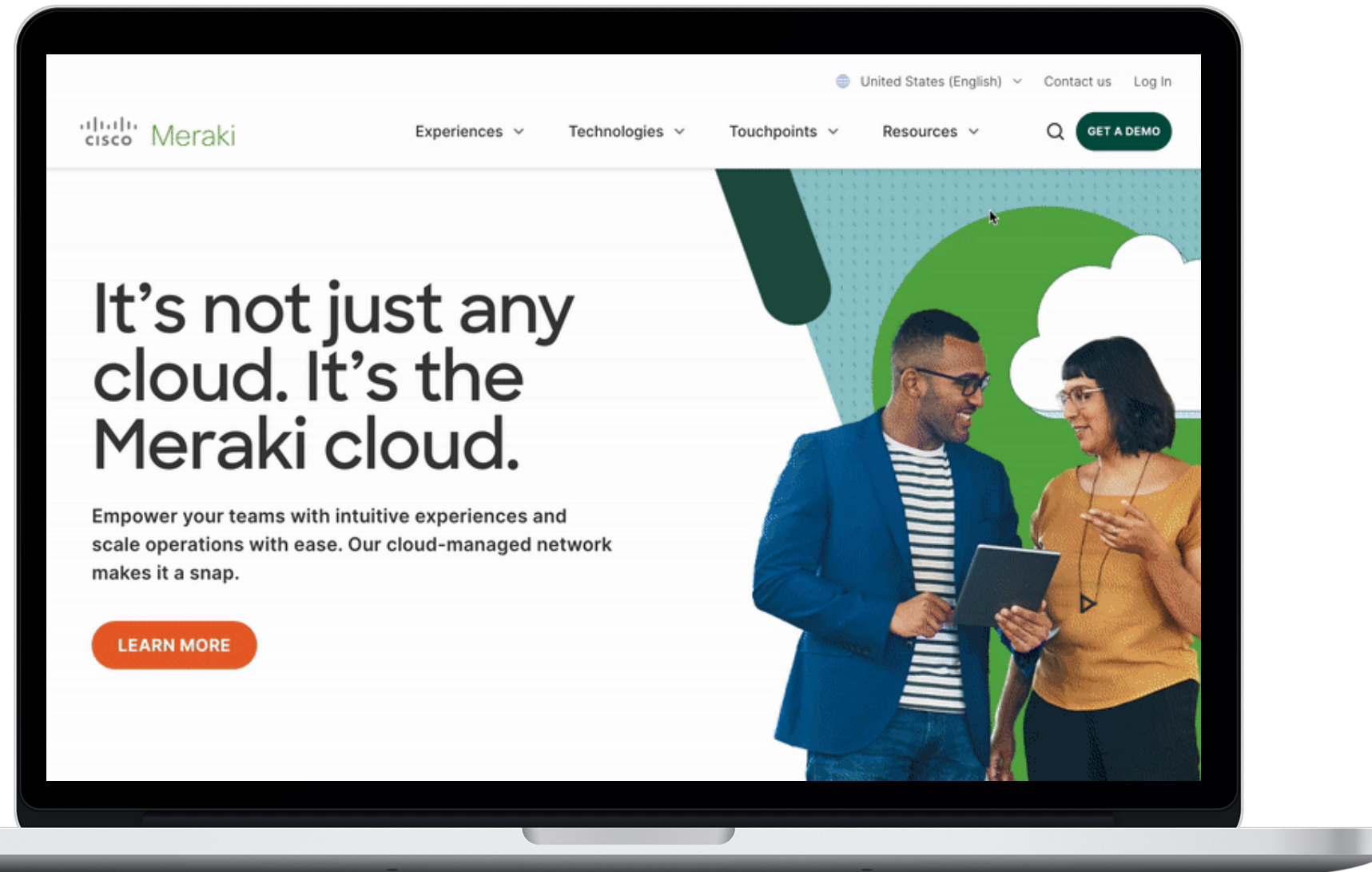
Resources > Webinars > Smart Spaces

What's here...

Live webinar sessions and recordings of past events on-demand (many conducted in other languages)

Highlights

Select the "**Solution**" drop-down filter and check the box for the following:

✓ Hybrid Workforce

✓ Safe Environments

✓ Smart Spaces

Meraki free trials

Customers can **test Cisco Meraki products fit for their needs** at no charge.
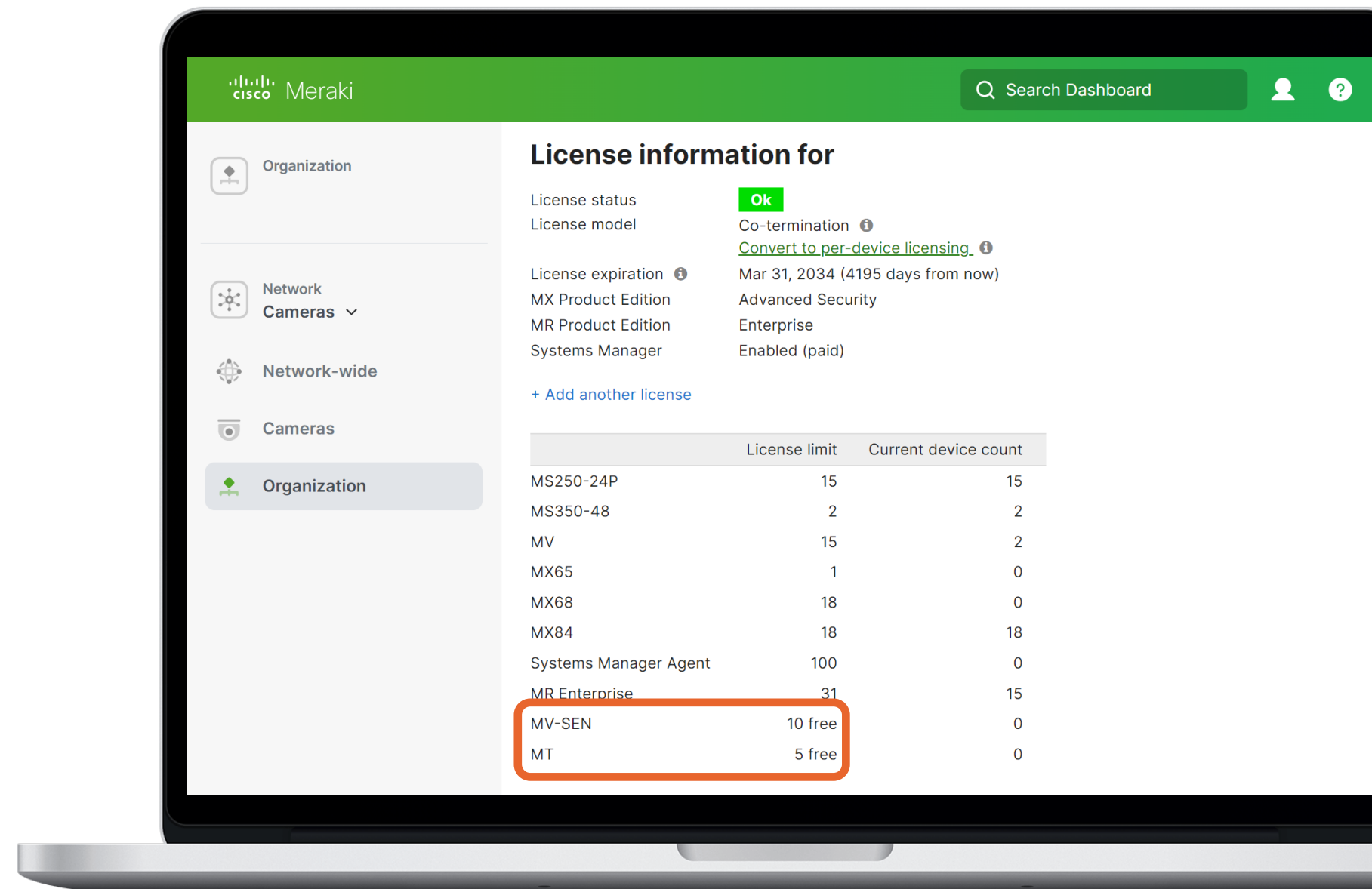
Did you know...

that you may already have unused MV Sense and MT licenses in your organization today?

Meraki

10 free MV Sense licenses
(any organization with 2nd generation cameras)

5 free MT licenses
(all organizations)

License information for

License status	**Ok**	
License model	Co-termination	
	Convert to per-device licensing	
License expiration	Mar 31, 2034 (4195 days from now)	
MX Product Edition	Advanced Security	
MR Product Edition	Enterprise	
Systems Manager	Enabled (paid)	

+ Add another license

	License limit	Current device count
MS250-24P	15	15
MS350-48	2	2
MV	15	2
MX65	1	0
MX68	18	0
MX84	18	18
Systems Manager Agent	100	0
MR Enterprise	31	15
MV-SEN	10 free	0
MT	5 free	0

Organization > License Info

Meraki

Thanks for designing with us today.

Join our
Slido Quiz!

Passcode: **merakismart2023**

Want to know more about other free
Meraki Trainings?

Reach out to us at:

certifications@meraki.com

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