Beyond the network – Meraki MC & MV

cisco Meraki

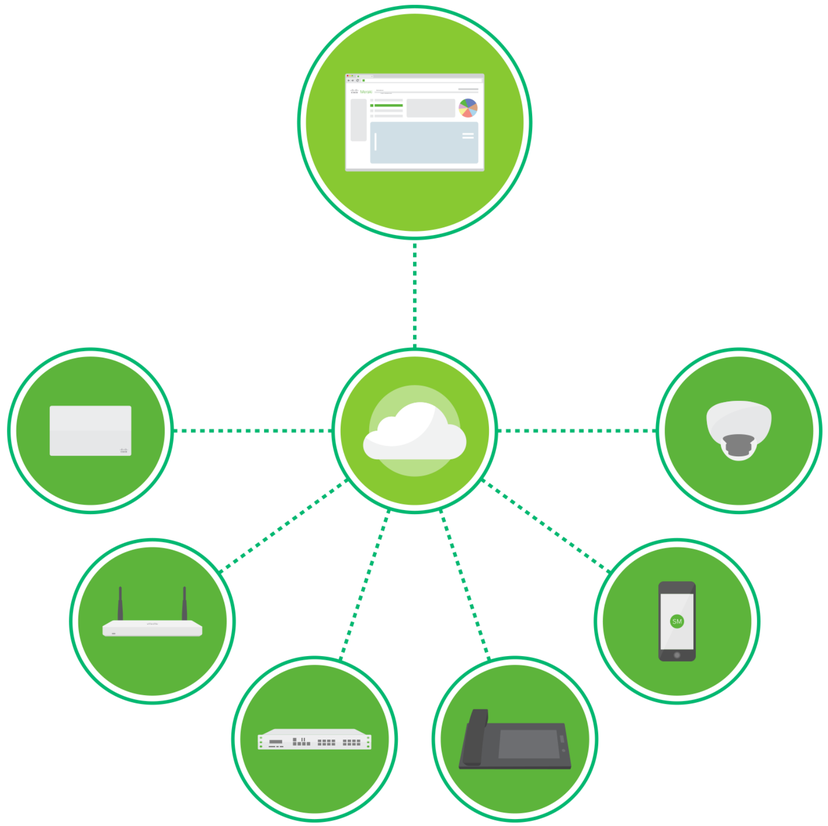
October 26, 2016

Welcome to the 3rd session of the ***Meraki Cloud Networking*** webinar series!

- Use the Q and A panel to ask questions.
- Use the Chat panel to communicate with attendees and panelists.
- A link to a recording of the session will be sent to all registered attendees.
- Please take the feedback survey at the end of the webinar.

About Meraki

Simplifying IT with Cloud Management



A complete cloud managed IT solution

Wireless, switching, security, communications, EMM, and security cameras

Integrated hardware, software, and cloud services

Leader in cloud-managed networking

Among Cisco's fastest growing portfolios

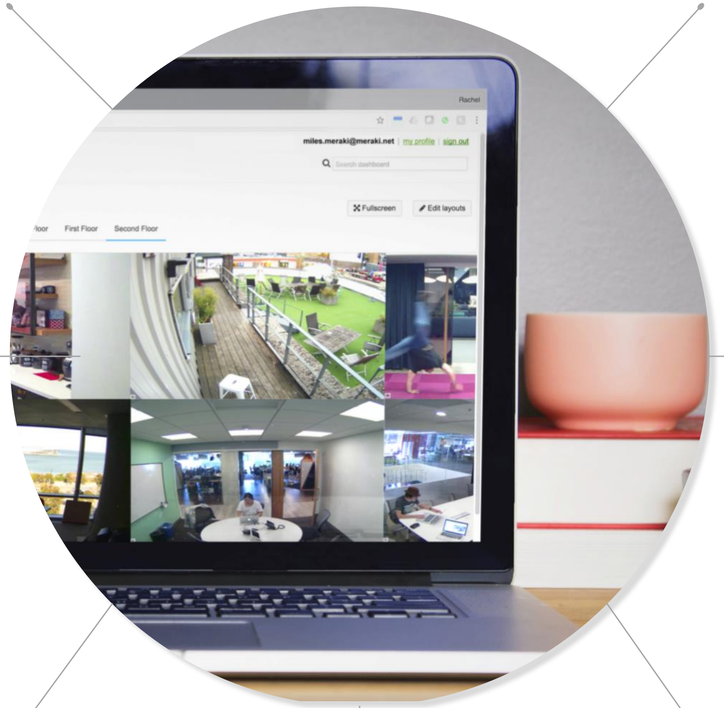
Over 150,000 unique customers

Over 2 million Meraki network devices online

Dashboard, Getting the Basics Right

2 Factor Authentication

Offline Device Alerting



Local Time Zones

Connectivity History

Automatic Firmware Upgrades

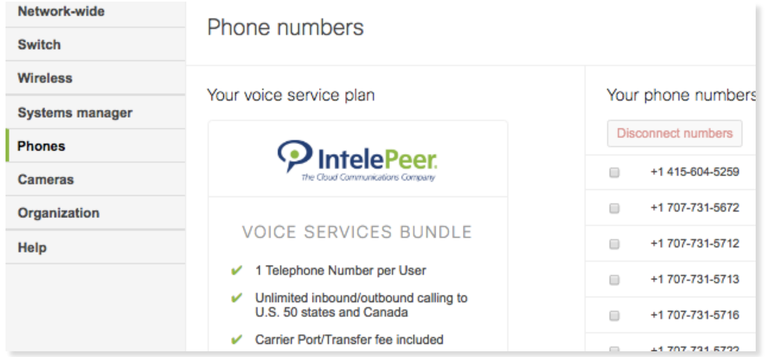
Network Insights

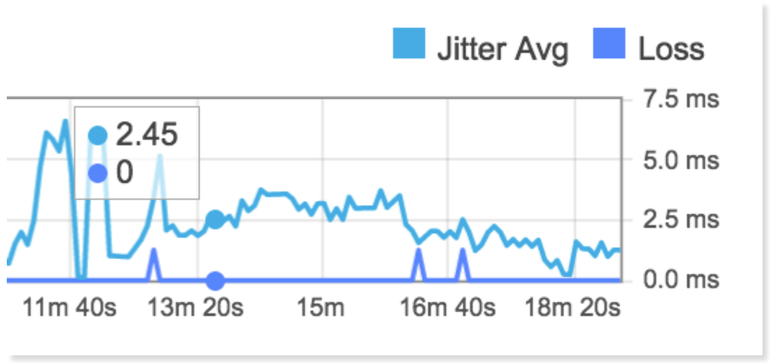
Dashboard: Better by Design

Cloud Managed Communications

US only, more countries soon

Everything you need for a MC74 environment





SIP service

Order phone numbers in minutes, right through Dashboard

Make calls seconds after ordering

MC phone and license

No other on-premises hardware required

PoE for easy cable management

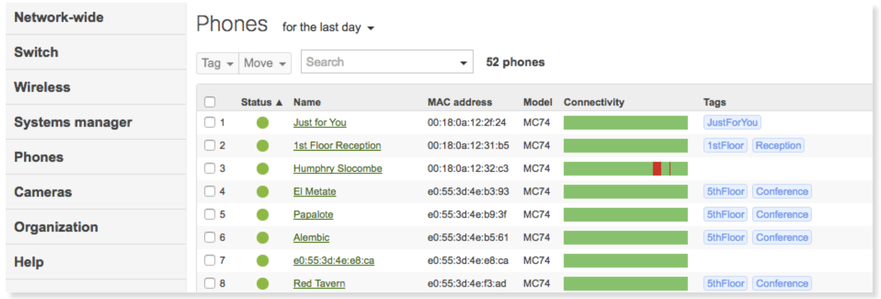
Power adapter available

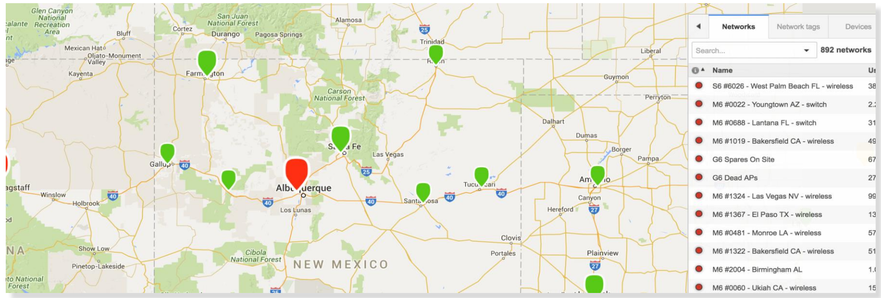
Internet Connectivity

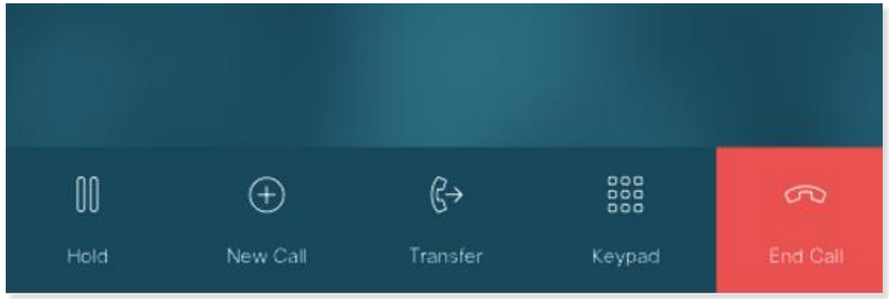
Connectivity required to make calls

Advanced visibility into voice quality for proactive optimization

Why customers choose the Cisco Meraki MC74







Intuitive centralized management

- No training, no complex command line
- Seamlessly control devices across sites
- Packet capture, Live Tools, and diagnostics

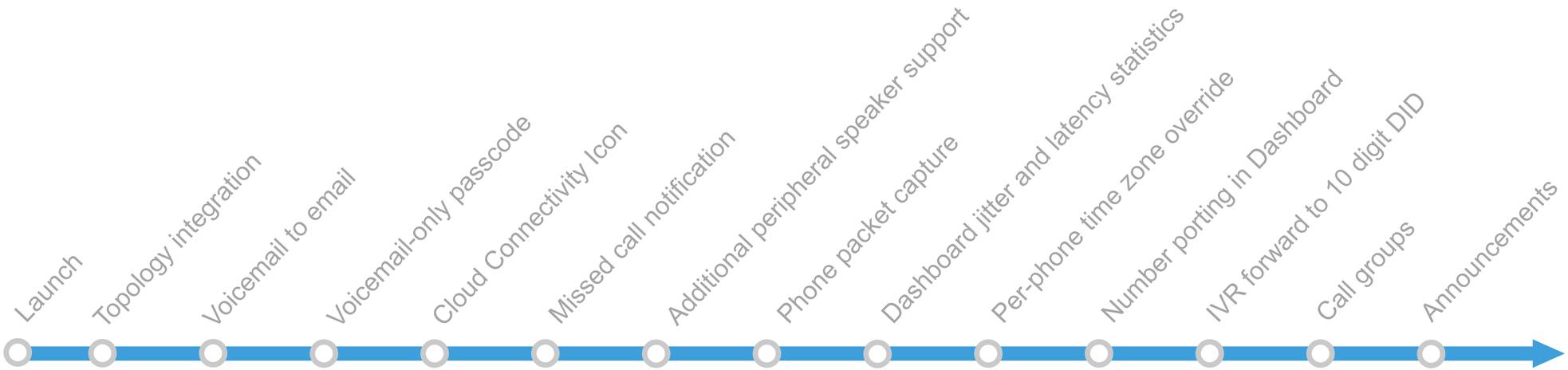
Designed for distributed organizations

- Single pane of glass visibility into all devices
- Zero-touch site provisioning
- Seamless updates from the cloud

No training required

- Visual cues for intuitive usage
- No user manuals or training sessions needed

Ongoing feature updates delivered from the cloud

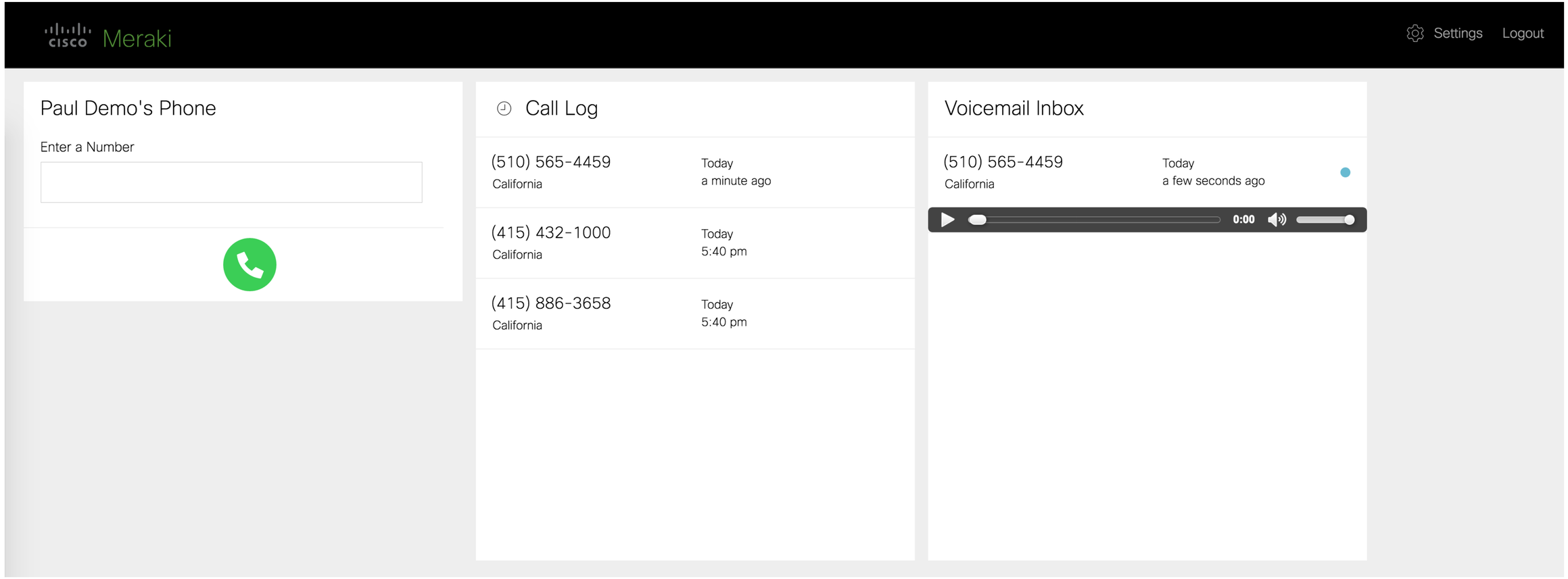


SaaS feature delivery, frequent updates

Feature velocity future-proofs hardware investment

Simple End User Portal

Conveniently access your phone, call logs and voicemail from anywhere



Demo

Quality of Service

Meraki (and other) switches use Quality of Service to ensure latency sensitive applications like voice get the priority they need on the network.

Getting this right will help ensure a good experience for users.

DSCP to Class-of-Service mapping

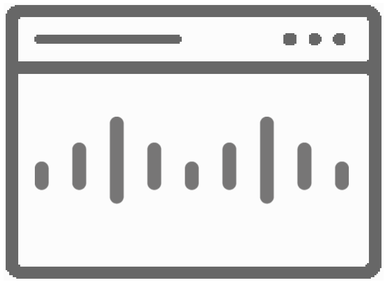
DSCP value	CoS value	Title
0	0	Default
24	2	Enterprise Application
46	3	EF voice

Add another DSCP to CoS mapping

	VLAN	Protocol	Source port	Destination port	DSCP Edit DSCP to CoS map	
1	104	Any			Trust incoming DSCP	
2	Any	TCP	9060	9061	Set DSCP to...	24 → class 2 (Enterprise

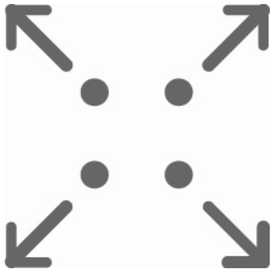
Add a QoS rule for this network

Secure communication



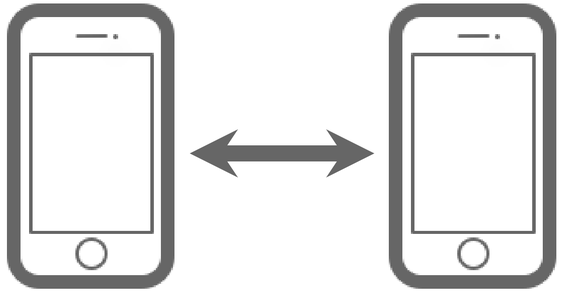
Cloud Management

Handles the device management and control from the Meraki cloud.



Encrypted Signaling (SIP)

A signaling protocol for creating, modifying, and terminating sessions.



Encrypted Voice (RTP)

Provides a secure and reliable transport mechanism for real-time traffic such as voice.

Some MC use cases

Retail

Quick and easy deployment

Management anywhere

Sleek design adds to customer brand

Commercial Offices

Scale easily as you grow

Reduce OpEx

Advanced features deployed in seconds

Teleworkers

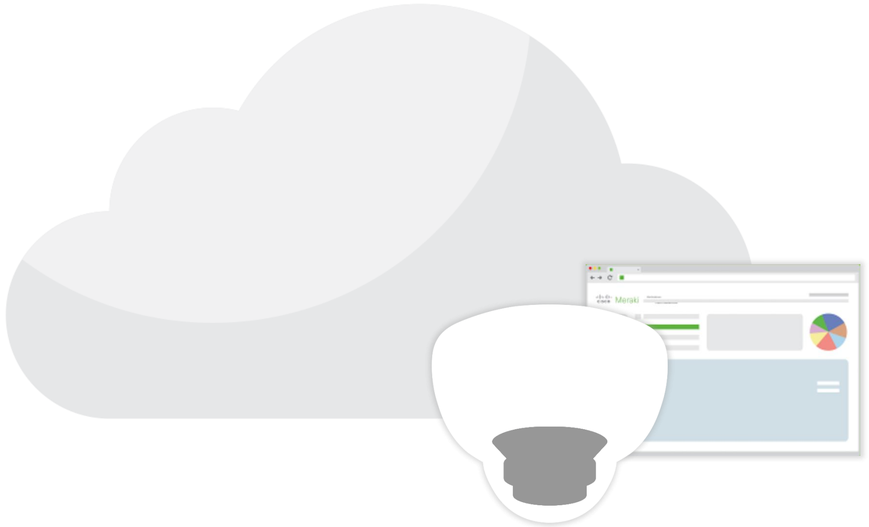
Remove VPN/complex design

Works with Internet connection

Streamline employee onboarding

Introducing MV Security Cameras

The MV Product Philosophy



Apply our expertise in cloud, distributed computational systems, and UX design to video surveillance.

Focus on solving problems, not building features.

Meraki MV Security Cameras

The newest Meraki product family

MV21 Indoor Camera

MV71 Outdoor Camera

The only security camera from a cloud leader

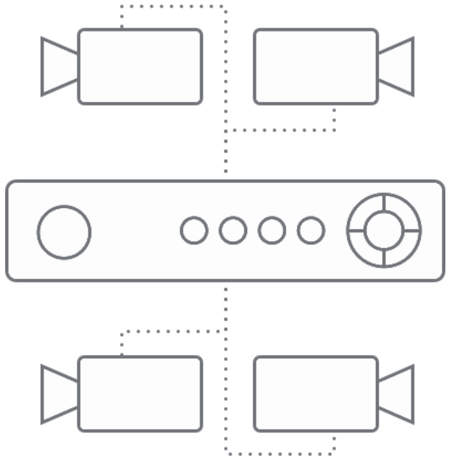
Simplified design for streamlined deployment

Managed through the Meraki dashboard

Up to 20 days of 24/7 continuous recording

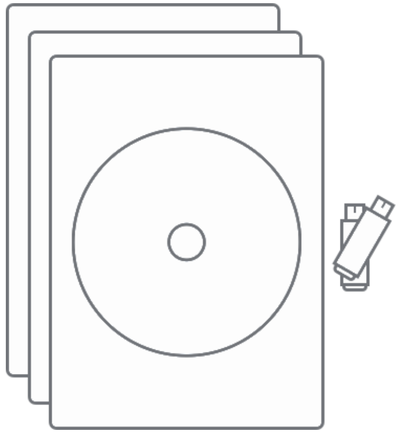
Current Video Surveillance Solutions

WITH MV, SAY GOODBYE TO



Additional on-premise hardware
Ex. Network Video Recorder (NVR)

Standalone software packages
Ex. Video Management Software (VMS)



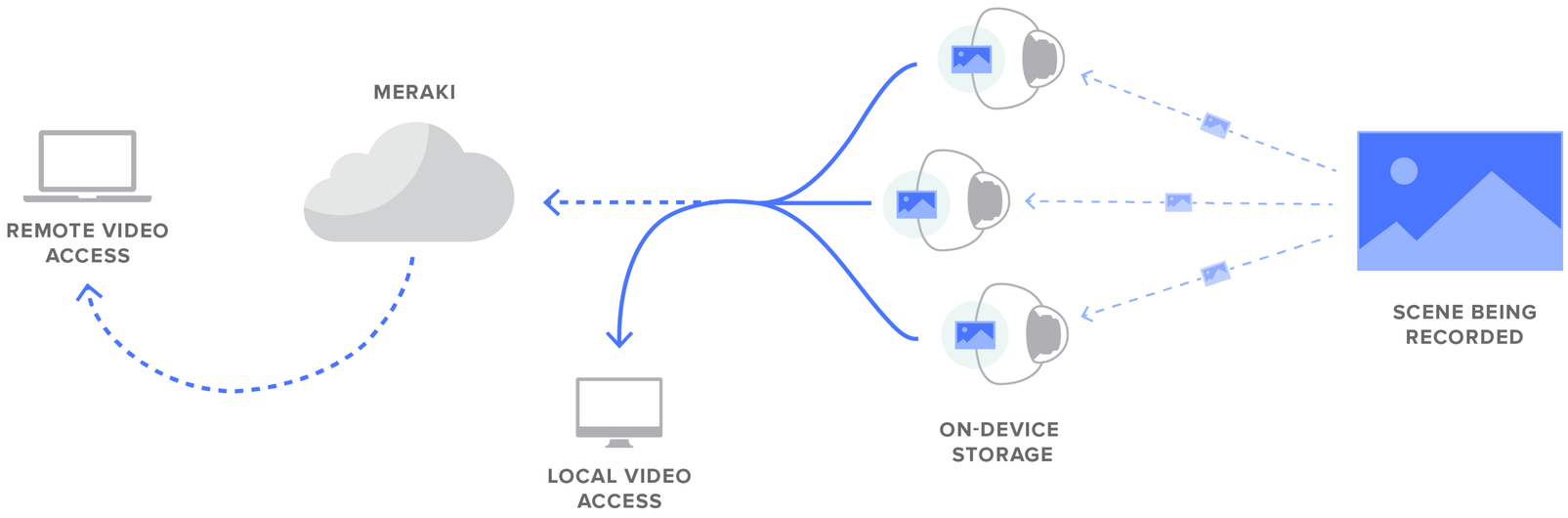
DVDs, thumb drives, VHS, and other outdated sharing options

Cutting Edge Architecture

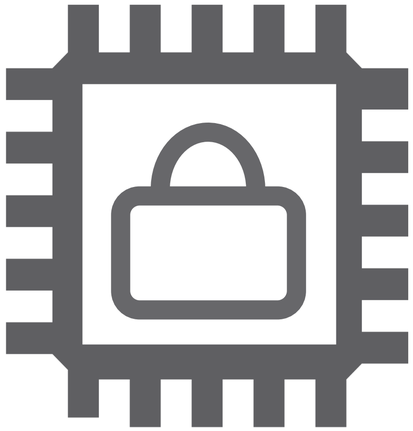
Less than 50kbps upstream bandwidth per camera

Configuration, thumbnails, and metadata stored in the cloud

Video is analyzed in camera, motion indexed in the cloud

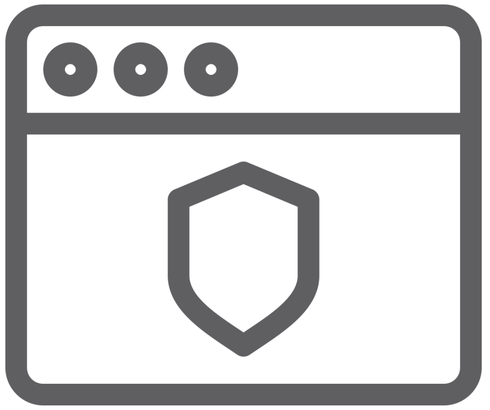


Encryption by Default



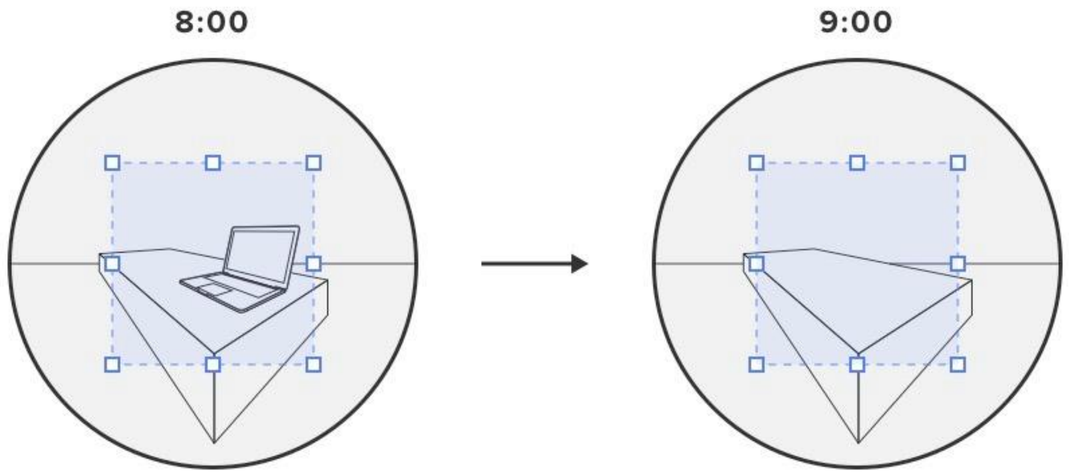
Video At Rest

Video During Transport



Management Data

Powerful, Intuitive Features



Video wall

Resize, reorder, and monitor video streams on the fly

Drag-and-drop functionality

Motion search

Automatically isolate key motion events and find out who stole that laptop

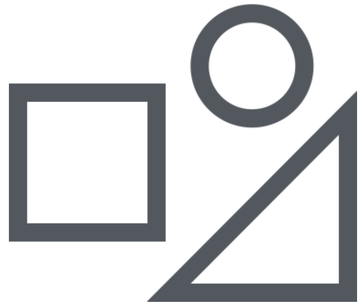
Easily export important video segments

Granular access controls

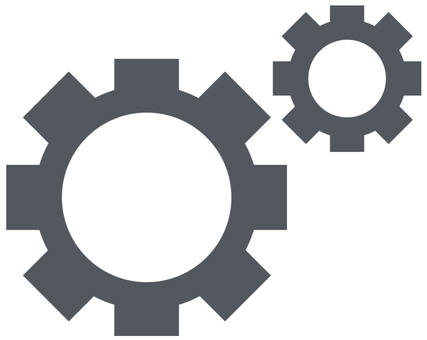
Choose who can view, export, and change the layout of your videos

Demo

MV Development Principles



Cost reduction through architectural **simplification**



Operational simplification through **automation**

Business value through **intelligence**

All-Inclusive, Simple Licensing Model

1:1 license to hardware model

Two models, but only one license SKU

3 year warranty on both models

Software updates for new features and bug fixes

24/7 end user support

The Meraki Full Stack

MR
Access Points

MX
Security Appliances

MS
Ethernet
Switches

SM

Systems Manager
EMM

MC
Communications

MV
Security Cameras

A complete cloud managed IT portfolio

Single pane of glass management

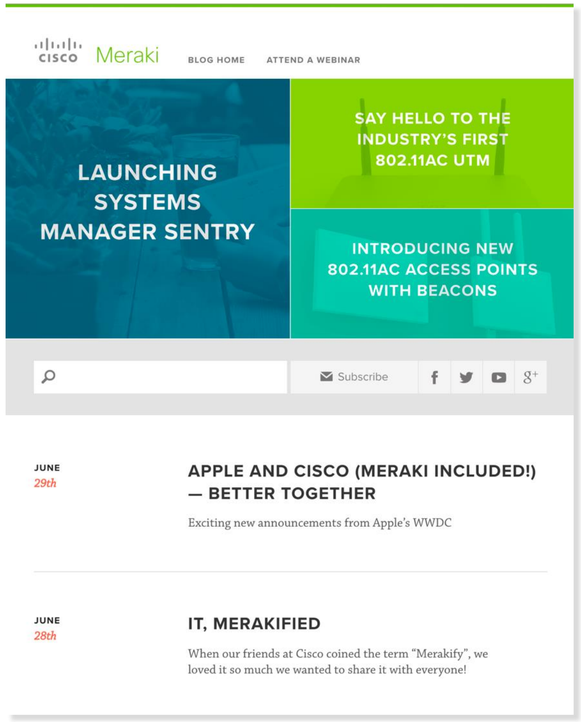
Questions?

Risk-free evaluation

meraki.cisco.com/eval

Check out our website & blog

meraki.cisco.com/blog



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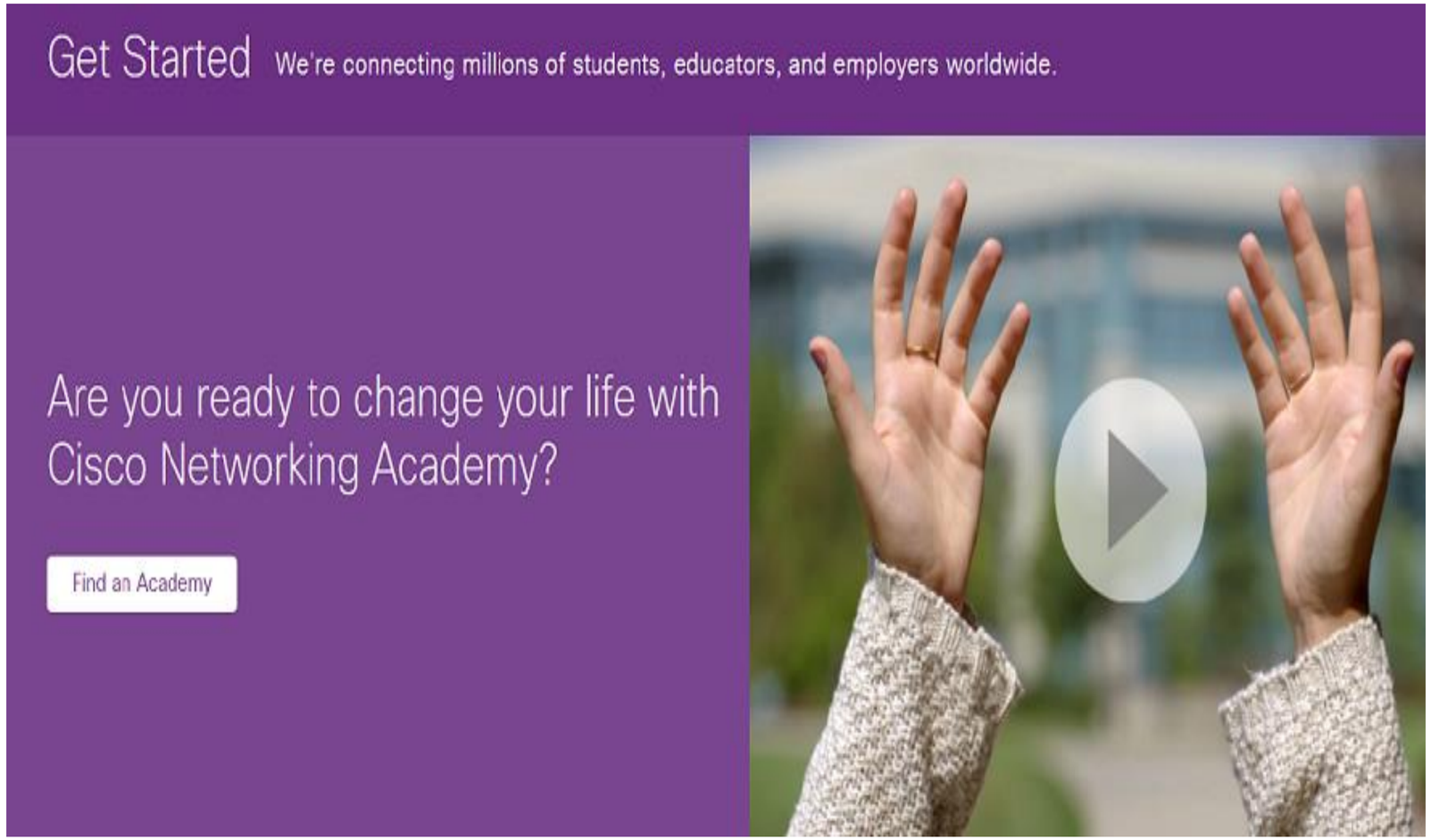
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