

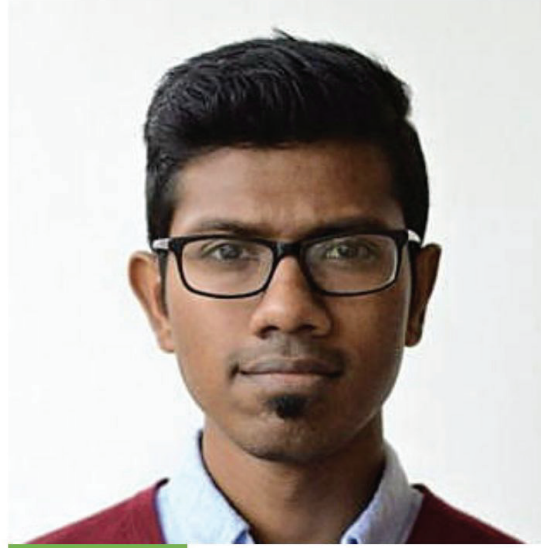


Remote Learning with Cisco Meraki

Meet the presentators



DAVID VAN SCHRAVENDIJK
PRODUCT MARKETING MANAGER



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PRODUCT MARKETING SPECIALIST



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PRODUCT SALES SPECIALIST

What are we going to talk about today?

- Introduction
- About Cisco Meraki
- Challenges in Remote Education
- Meraki Solutions
- Q&A

Poll #1

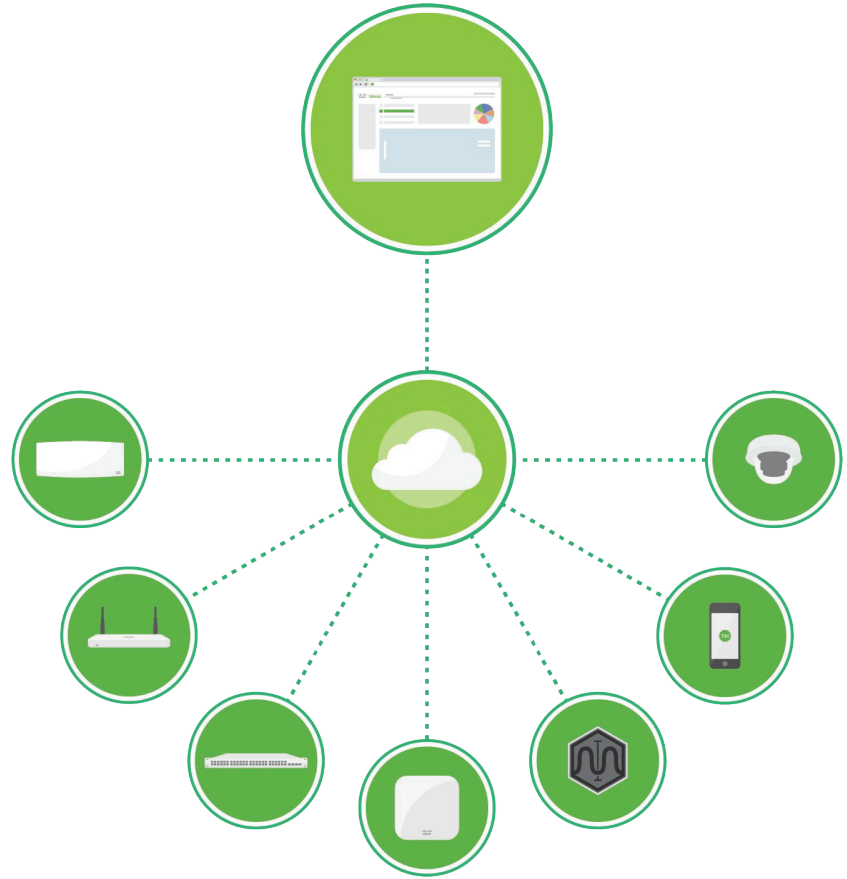
What is your main priority for higher education this year?

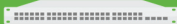
About Cisco Meraki

We create technology that simply works.

Among Cisco's fastest growing portfolios

A complete cloud-managed IT solution with
integrated hardware, software, and cloud
services





SM



A Solution for Every Use Case: Purpose-Built for Remote



10+ years experience
scaling cloud infrastructure



Served **500,000+**
customers globally



Proven in **20,000+**
location deployments

Trusted by Thousands of Institutions



**OAKLAND UNIFIED
SCHOOL DISTRICT**
Community Schools, Thriving Students



Key Challenges for Remote Learning

01

Underutilized network infrastructure

While most schools have a robust uplink to the internet, they are unable to leverage it during a crisis

02

Managing school devices

Managing and optimizing study-devices off-networks is a challenge to many IT teams

03

Students without Wi-Fi at Home

Students who do not have internet connectivity at home have no means to access class resources

Key Challenges for Remote Learning

04

Remote troubleshooting & optimization

With everyone working from home, remote troubleshooting and optimization ability is crucial

05

Critical access for students & faculty

IT teams need to re-configure access to students & faculty at scale so that they have resources they need

06

Keeping school-issued devices secure

Study-devices and students accessing resources on un-secure home-networks can become a problem

Poll #2

What is your most important key challenge in Remote Learning?

How can Meraki help?

Meraki for Education



Robust Wireless: High performing wireless without the high maintenance, designed for high-density and range in open spaces



Safety and Security: Keep students and teachers safe with device, network, and physical security



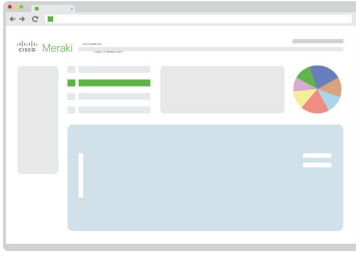
Application visibility and control: Identify which apps students are using, and then prioritize education apps while limiting recreational apps



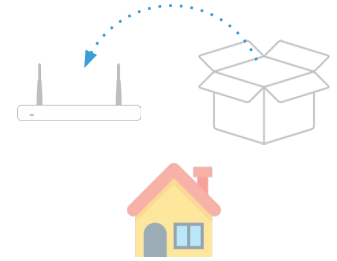
Remote Troubleshooting: Identify and resolve issues faster with no on-site maintenance and robust remote troubleshooting tools

Meraki Natively Built for Remote Learning

True Zero Touch Remote Provisioning



One-time remote,
web-based configuration
Configuration templates
simplify large multi-site
deployments



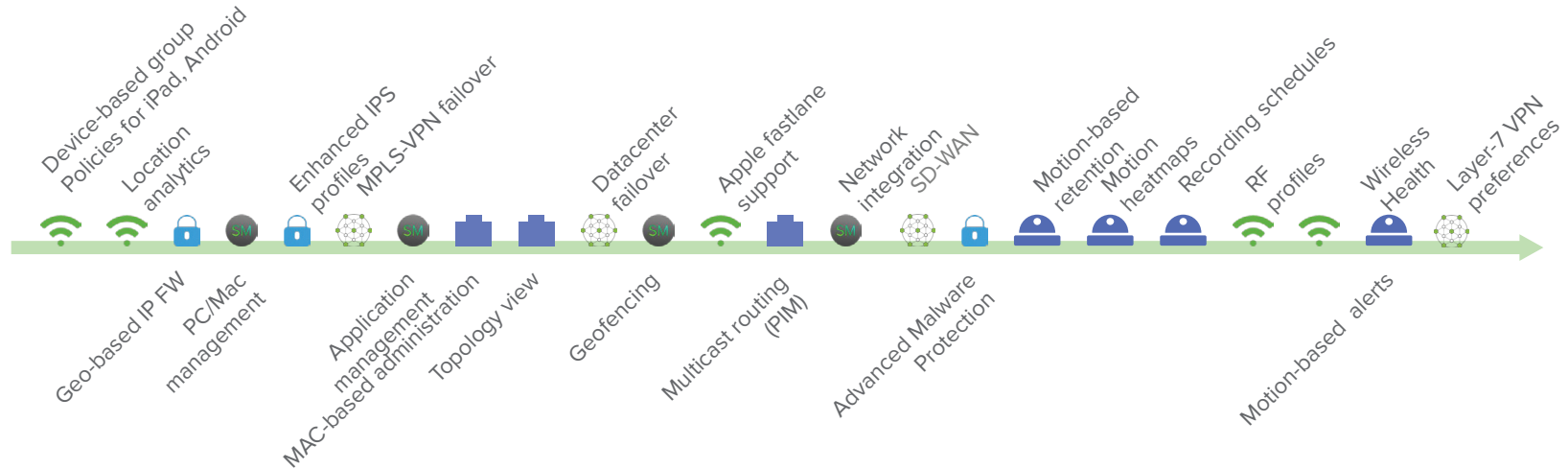
Non-IT staff can unbox and
plug in Meraki devices at
remote locations

Zero pre-staging
Zero onsite configuration
Zero training required

Remote Visibility & Troubleshooting



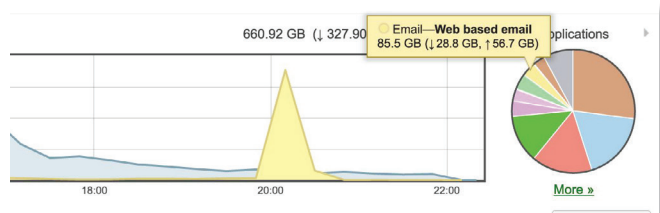
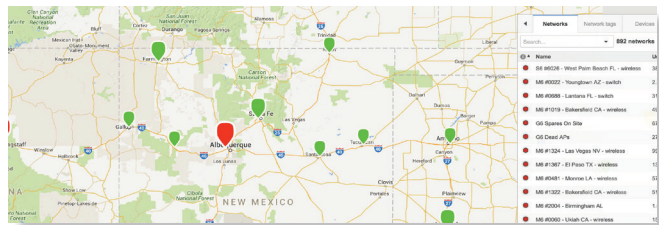
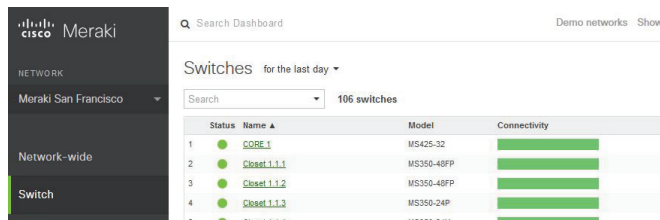
Zero Touch Updates



Over-the-web feature and security updates

Zero touch required by onsite teleworkers

Maintaining a remote network



Intuitive, centralized management

- All Meraki devices are configured through a **single-pane-of-glass**
- No training or complex command line
- **Visualize and manage** all devices and configurations on the Meraki dashboard

Easiest to deploy, manage, and configure

- **Zero-touch provisioning** for multi-site deployment
- Customizable Meraki APIs for automated site setups
- Seamless **firmware updates** from the cloud

Industry-leading visibility

- User, application, and device analytics
- **Network-wide monitoring and alerts** to reduce response times
- Remote packet capture and other diagnostics tools

Remote infrastructure for the virtual classroom



Meraki Wireless

- Teleworker SSID
- Enterprise security
- Wireless Health
- Automatic RF optimization
- Client and application visibility and control



Meraki SD-WAN

- 3-click VPN
- Built-in security
- Up to ×2 WAN ports
- 3G/4G/LTE failover
- Automatic WAN failover
- Additional Ethernet ports with PoE/PoE+ options



Meraki Insight

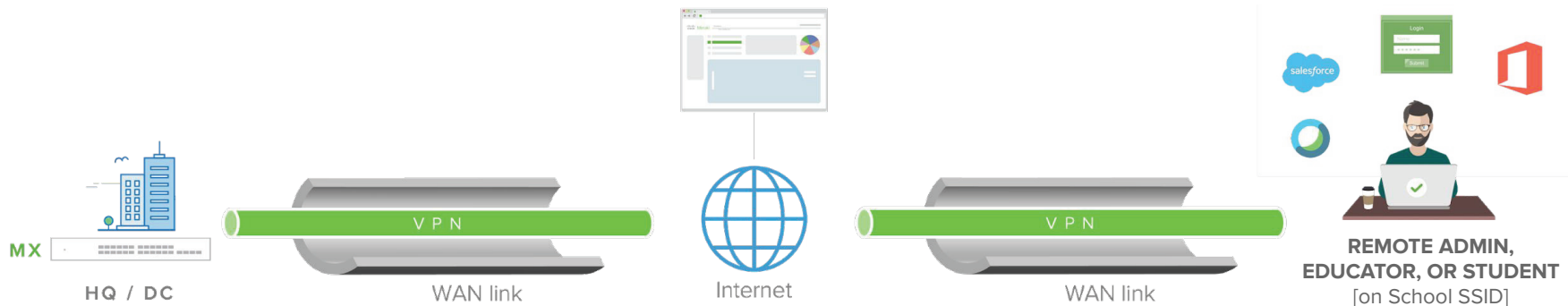
- WAN monitoring
- Web Application monitoring



Meraki EMM

- Seamless client VPN
- Zero hardware required at remote student or educator sites
- Enterprise asset management also included

Secure Connectivity to students and admins in a few clicks



1. **Security & SD-WAN Router:** Auto VPN
2. **Wireless:** Encrypted SSID tunnel
3. **Endpoint Manager:** Client VPN

Poll #3

How often do you hear about VPN issues lately?

Models & Licensing

MX/Z Models to Consider for Remote Learning



Z3



Z3C



MX64W



MX67W



MX68W



MX68CW

	Z3	Z3C	MX64W	MX67W	MX68W	MX68CW
Auto VPN	✓	✓	✓	✓	✓	✓
Corp Wi-Fi	✓	✓	✓	✓	✓	✓
WAN Ports	x1	x1	x2	x2	x2	x2
PoE Ports	1	1	N/A	N/A	x2 PoE+	x2 PoE+
Meraki Insight	✓	✓	✓	✓	✓	✓
Advanced security	N/A	N/A	✓	✓	✓	✓
Cellular failover	N/A	✓	N/A	N/A	N/A	✓
SD-WAN	N/A	N/A	✓	✓	✓	✓

Full portfolio and datasheets: [meraki.cisco.com
/products/appliances#models](https://meraki.cisco.com/products/appliances#models)

MR Models to Consider for Remote Workers



MR33



MR36



MR42

	MR33	MR36	MR42
VPN to concentrator	✓	✓	✓
Corp Wi-Fi	✓	✓	✓
Data rate	1.3 Gbps	1.7 Gbps	1.9 Gbps
Wireless health	✓	✓	✓
DNS security	✓	✓	✓
Wi-Fi 6	N/A	✓	N/A

Full portfolio and datasheets: [meraki.cisco.com
/products/wireless#models](https://meraki.cisco.com/products/wireless#models)

Licensing - SD-WAN



Enterprise

Full SD-WAN feature set and functionality

Site-to-site IPsec Auto VPN
Link bonding and failover
L7 application firewall and traffic shaping
Application control
Client VPN
Stateful firewall



Advanced Security

All enterprise features plus:

Cisco Advanced Malware Protection
Snort IPS / IDS
Content filtering
Geo-IP based firewall rules



Meraki Insight

Web app, WAN, VoIP health

XS	→	Z3x
S	→	MX6x
M	→	MX84 MX100
L	→	MX250
XL	→	MX450

Licensing - Wireless



Enterprise

Full wireless feature set and
functionality

Auto RF
Secure Wi-Fi
L3/L7 firewall
Application control & visibility
Teleworker VPN
Wireless Health



Advanced

All enterprise features plus:

Integrated Umbrella DNS Security
Adaptive Policy

Licensing - Endpoint Management



Systems Manager

Centralized management and corporate –wide
visibility and control

24/7 Enterprise phone and email support

Transferability of licenses between devices
and device types

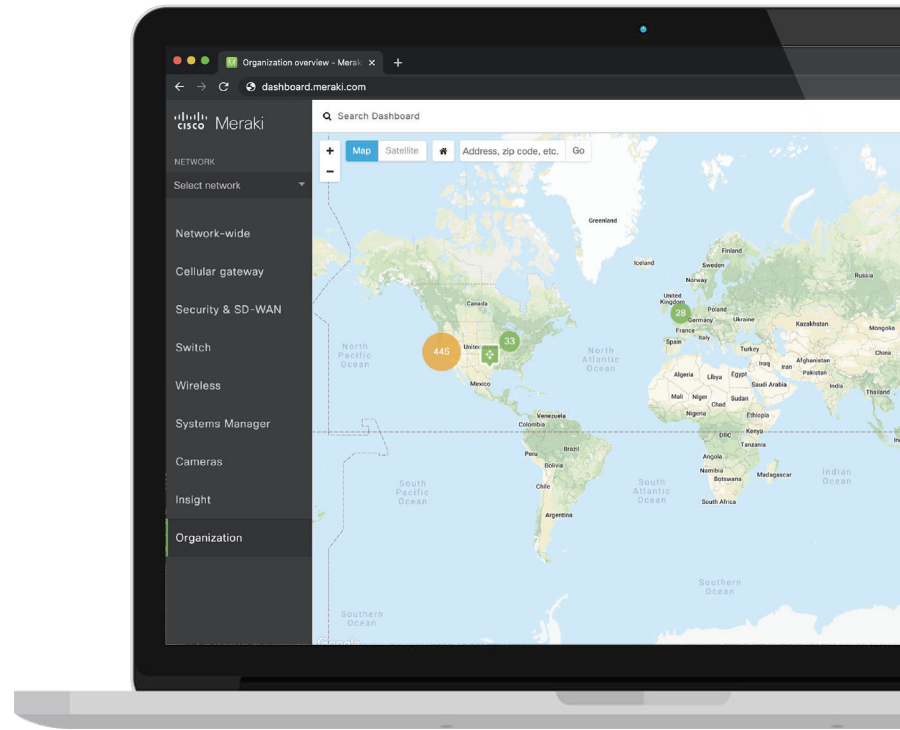
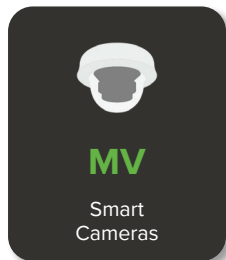
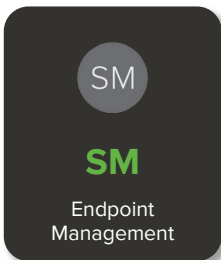
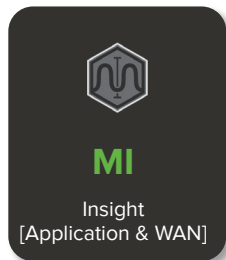
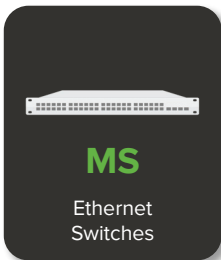
Infinitely scalable device count

Complete feature set with ongoing updates

One dashboard

A Complete Remote Management Platform

Cloud-Managed IT from a Single Pane of Glass



Remote Learning Use Cases

Parking Lot Wi-Fi



- Deploying outdoor access points with long range antenna
- Students can do school work from their cars
- Configure dynamic RF profiles
- Systems Manager to monitor devices
- Smart cameras for physical safety and security

Remote Learning at Home



- Use Z3C to provide in-home connectivity
- Secure access to resources through VPN tunneling
- Secure students with robust security policies
- Systems Manager to monitor devices



Contact an Account Manager for more information.
1.800.800.0019 ■ www.connection.com/Meraki-EDU

Thank you!