



Cisco Meraki Overview



Cisco Meraki: 100% cloud-managed networking

Cisco Meraki: a complete cloud-managed networking solution

- Wireless, switching, security, and MDM, centrally managed over the web
- Built from the ground up for cloud management
- Integrated hardware, software, and cloud services

Leader in cloud-managed networking

- Tens of thousands of customers across all industries, over 100% annual growth
- Operating in the cloud since 2006

Recognized for innovation

- Gartner Magic Quadrant, InfoWorld Technology of the Year, CRN Coolest Technologies

Trusted by thousands of customers worldwide:



Why cloud managed networking?

The cloud increases IT efficiency



Manageability



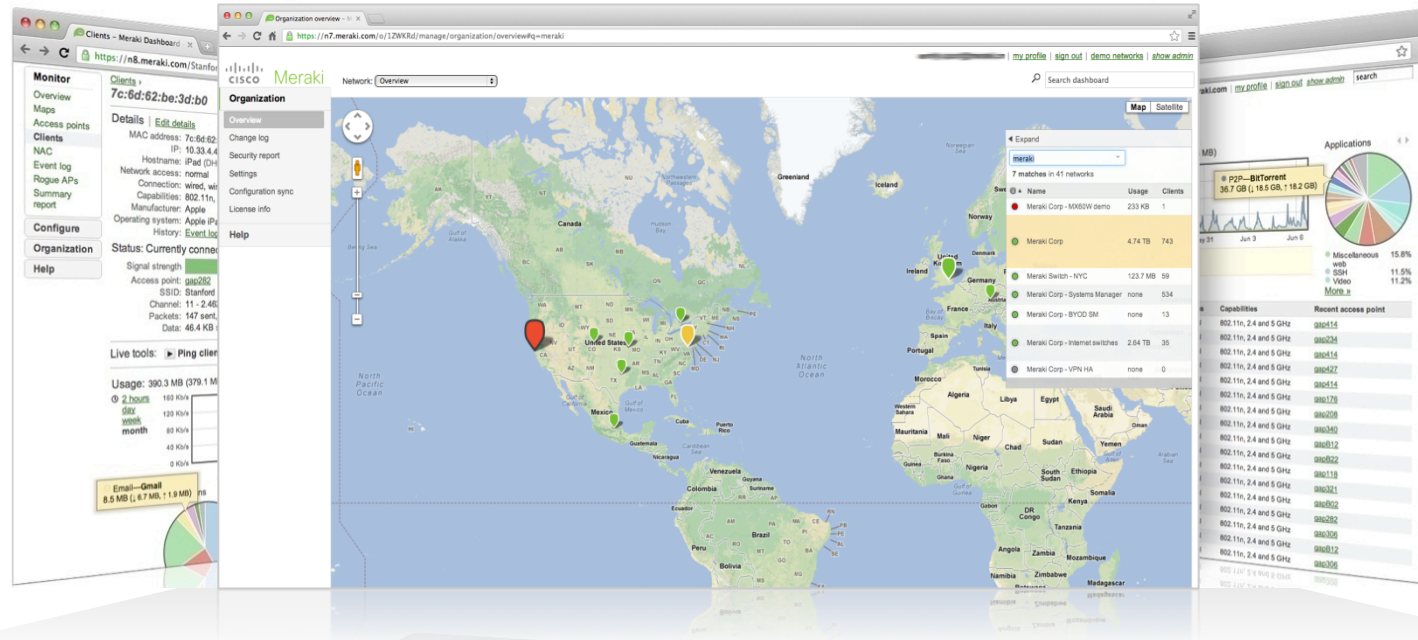
Scalability



Cost Savings

- Turnkey installation and management
- Integrated, always up to date features
- Scales from small branches to large networks
- Reduces operational costs

Bringing the cloud to enterprise networks



Cisco Meraki MR
Wireless LAN



Cisco Meraki MX
Security
Appliances



Cisco Meraki MS
Ethernet
Switches



Cisco Meraki SM
Mobile Device
Management

An integrated solution for new IT challenges



1 billion iOS & Android devices



Integrated mobile device management



HD video and rich media



Layer 7 application shaping



New business opportunities



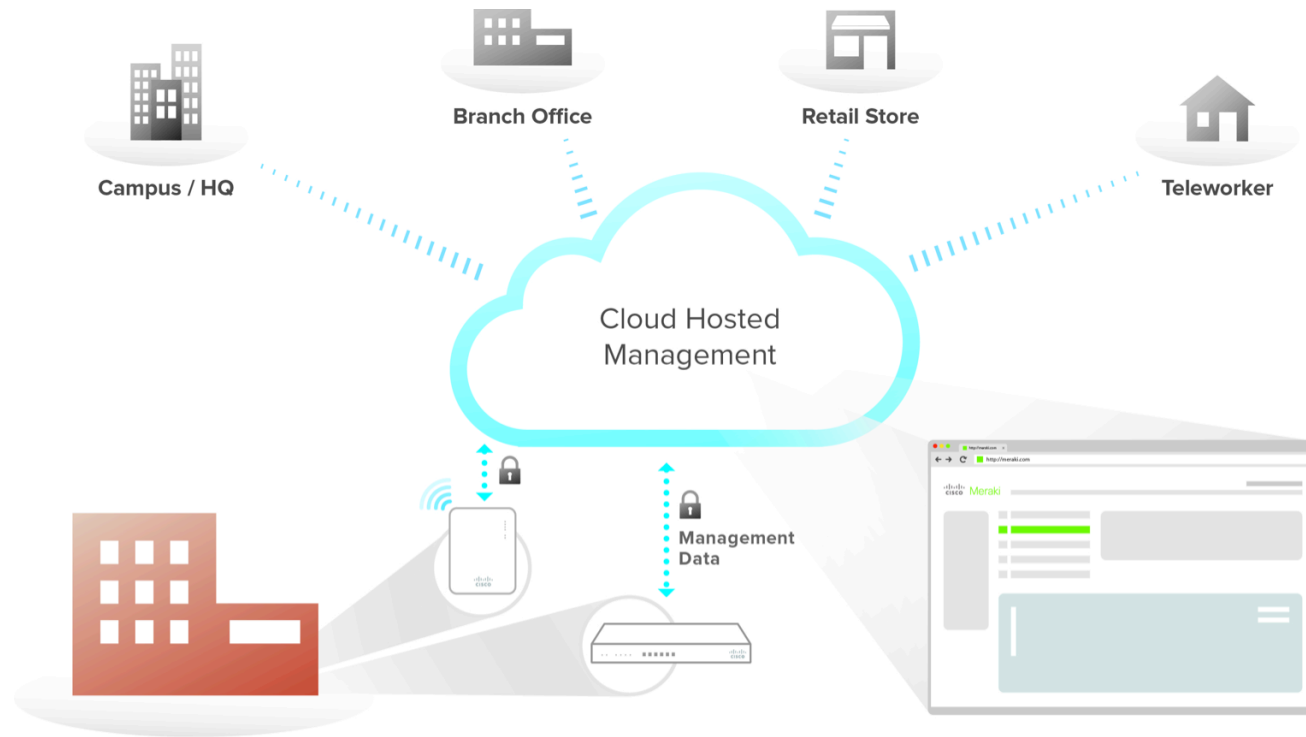
Analytics and user engagement

A complete solution out of the-box:
No extra hardware, software, or complexity

Cloud architecture

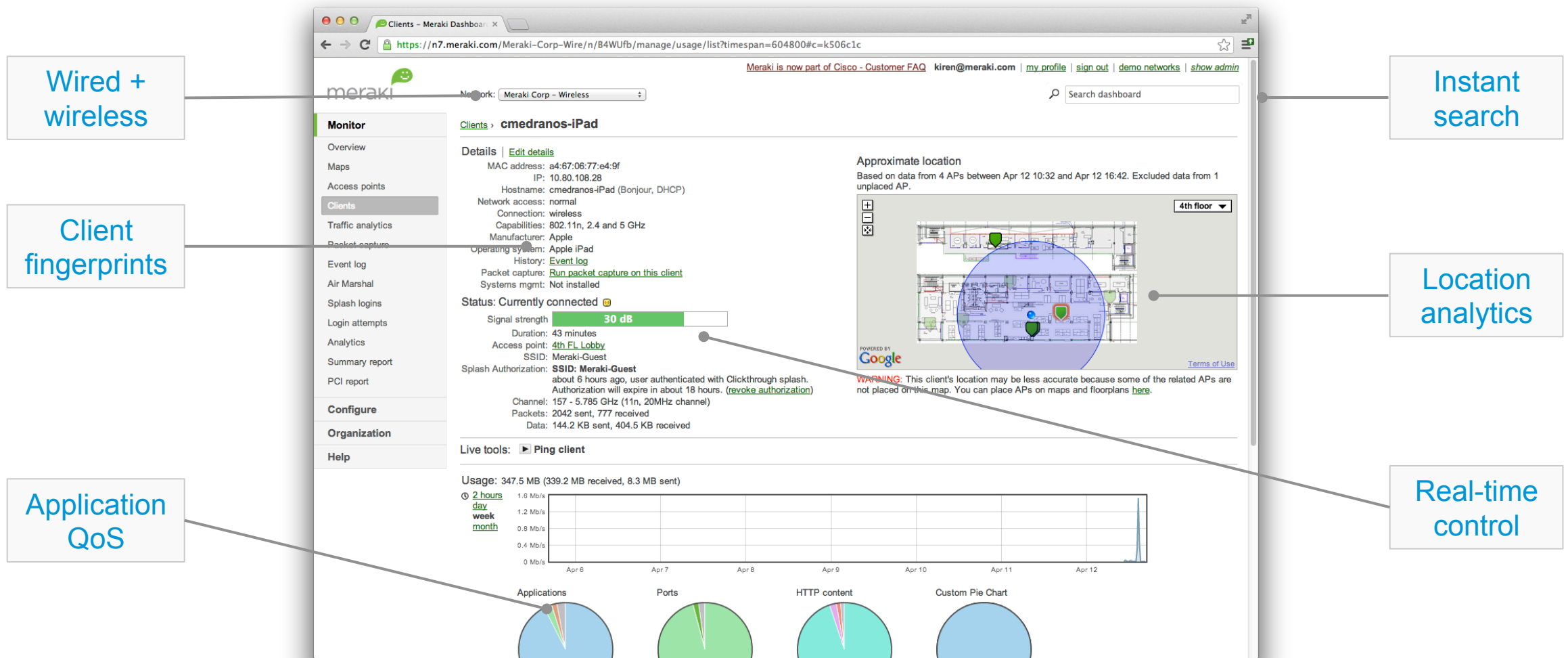


Secure, scalable architecture



- **Secure out-of-band management:** No user traffic flows through the cloud
- **Reliable:** Network stays up if connection to cloud is lost
- **Scalable:** Supporting customers with thousands of sites, millions of clients
- **Future-proof:** New features delivered seamlessly from the cloud

Intuitive web-based dashboard



SaaS feature delivery, quarterly updates

Search: [Advanced search »](#) [Help](#)

951 client devices Select: **All**, None [Columns...](#) [Download as XML](#)

	Status	Description	Manufacturer	Open
<input type="checkbox"/>	1	Gregg	Intel	Win
<input type="checkbox"/>	2	Jenny-PC	Intel	Win
<input type="checkbox"/>	3	GOD	AzureWave	Other
<input type="checkbox"/>	4	MacBook Pro (001F5BE7BF38)	Apple	Mac
<input type="checkbox"/>	6	kstephens_Mac	Apple	Mac
<input type="checkbox"/>	7	Costa-Rosemarys MacBook Pro	Apple	Mac

User/device fingerprinting

LDAP membership Blocked web content Actions

Students

Teachers

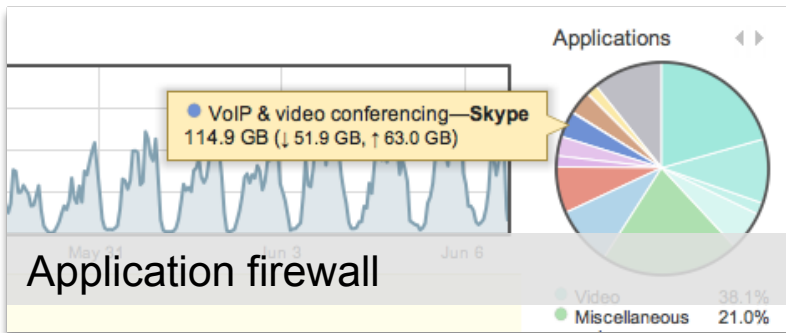
Content filtering

Client details [Edit details](#) [Refresh details](#)

System name: Meraki Marketing iPad
Operating system: iOS 5.0.1
System model: iPad
BIOS: 9A405
Serial: V5048RTXZ38
Warranty: Apple
Capacity: 16GB
Free space:
Tags: marketing ios ipad

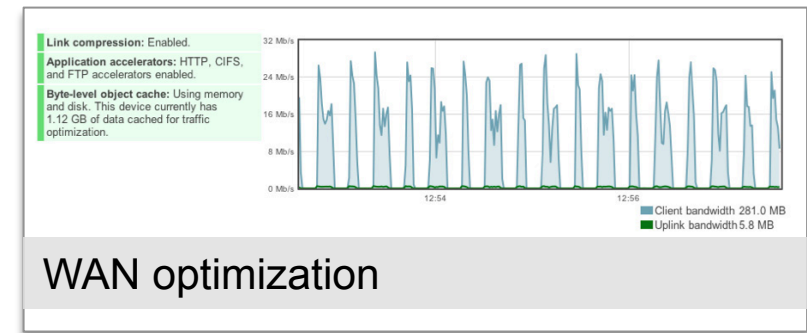
Recent locations

Mobile application deployment



Date	Scan result	AV	Running	Client IP
May 15 17:34	Passed	Norton Internet Security	Yes	10.254.92.19
May 30 18:24	Passed	Norton Internet Security	Yes	10.254.92.19
May 27 09:07	Passed	McAfee VirusScan	Yes	10.74.112.40
May 27 09:07	Passed	McAfee VirusScan	Yes	10.74.112.40
May 27 09:07	Passed	McAfee VirusScan	Yes	10.74.112.40
May 16 09:03	Passed	McAfee VirusScan	Yes	10.247.49.95
May 16 09:03	Passed	McAfee VirusScan	Yes	10.247.49.95
May 12 10:58	Passed	Microsoft Security Essentials - 2.1.6805.0	Yes	10.123.104.174

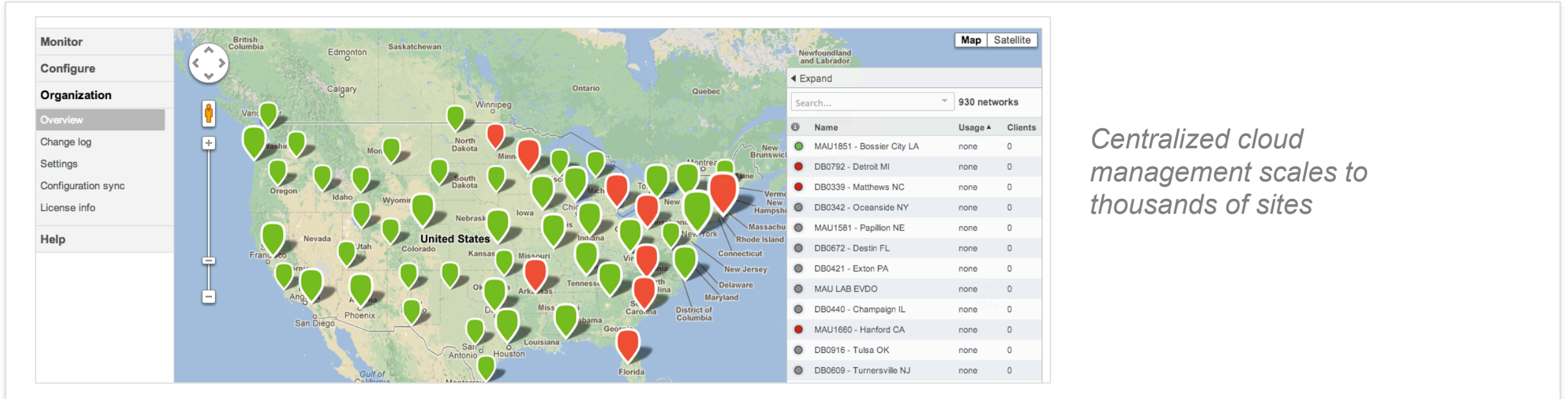
Network access control



Solution highlights



Distributed networks



Centralized cloud management scales to thousands of sites

Multi-site visibility and control

Map-based dashboard; configuration sync; remote diagnostics; automatic monitoring and alerts

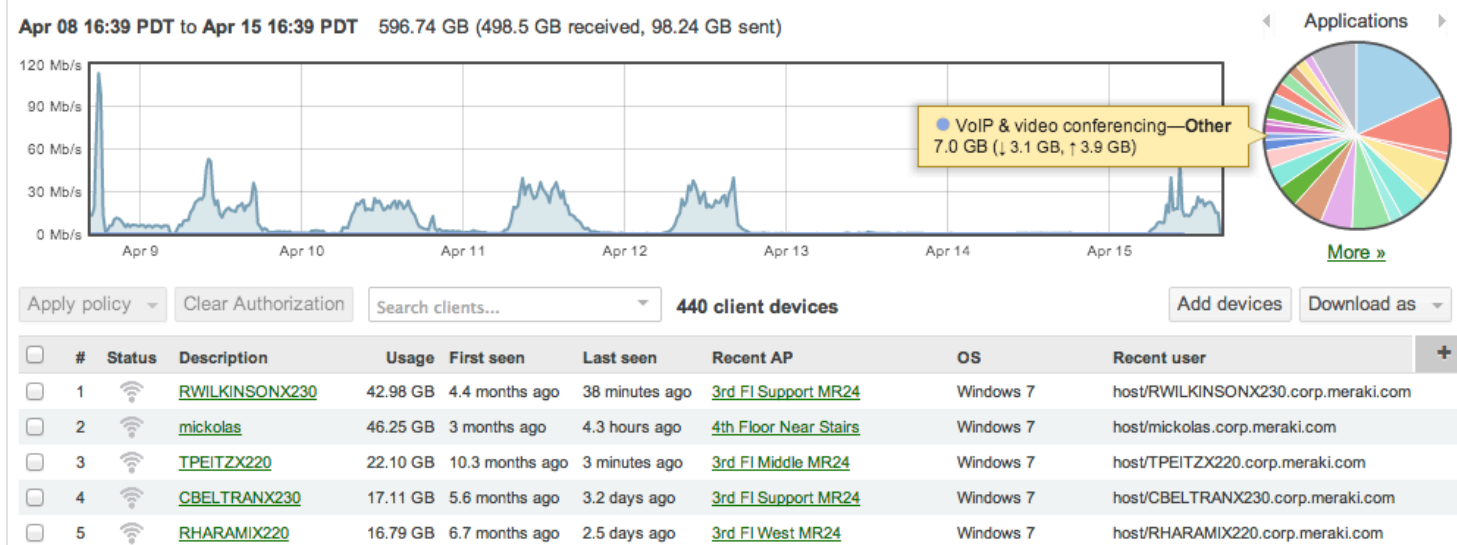
Zero-touch provisioning

Devices automatically provision from the cloud, no staging required; self-configuring site-to-site VPN

Traffic acceleration

WAN optimization and web caching accelerates and de-duplicates network traffic; application-aware QoS prioritizes productivity apps

High capacity edge networks



RF optimization and application-aware QoS for high-throughput, high-density WLAN

Layer 7 application traffic shaping

Throttle, block, or prioritize application traffic with DPI-based fingerprinting; set user and group-based shaping rules

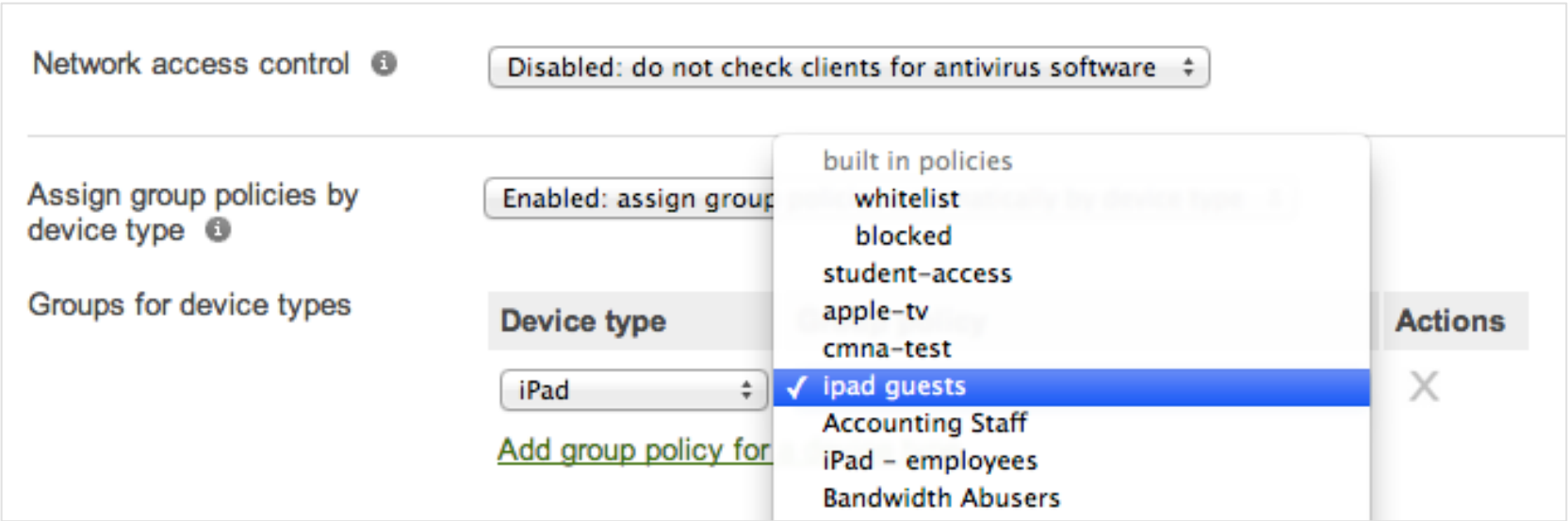
Cloud-base RF optimization

Dynamically avoid interference, optimizing channel selection and power levels

Density-optimized WLAN

RF platform tuned for airtime fairness and performance in dense performance-critical environments

Bring your own device (BYOD)



The screenshot shows a network management interface with the following elements:

- Network access control**: A dropdown menu is open, showing options: "Disabled: do not check clients for antivirus software", "Enabled: assign group policies by device type", "built in policies", "whitelist", "blocked", "student-access", "apple-tv", "cmna-test", "✓ ipad guests" (highlighted), "Accounting Staff", "iPad - employees", and "Bandwidth Abusers".
- Assign group policies by device type**: A section with a dropdown menu set to "iPad" and a link "Add group policy for".
- Groups for device types**: A section with a dropdown menu set to "iPad".
- Actions**: A button with a close icon (X).

Out-of-the-box security, management, and capacity for BYOD-ready deployments

Device-aware security

Device-aware firewall and access control; Antivirus scan; LAN isolation; Bonjour Gateway; Content and security filtering

Integrated MDM

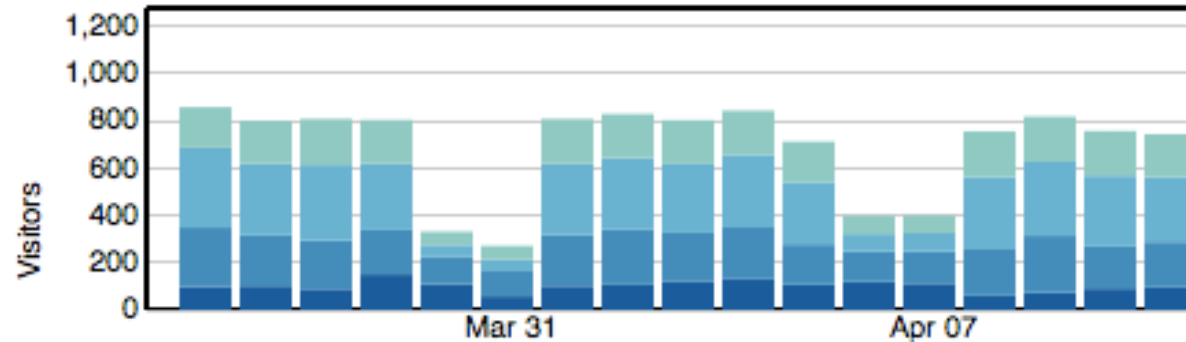
Enforce encryption, passcodes, and device restrictions; Deploy enterprise applications; Remotely lock or wipe devices

Simplified onboarding

Flexible authentication with AD integration, SMS authentication, hosted splash pages, and automatic MDM enrollment

User analytics and engagement

	Today
Repeat rate	75.06%
Repeat visitors	596
New visitors	198



Built-in location analytics dashboard

Optimize marketing and business operations

Analyze capture rate, dwell time, and new / repeat visitors to measure advertising, promotions, site utilization, etc.

Built-in analytics

Integrated into WLAN, no extra sensors, appliances, or software

Extensible API

Integrate location data with CRM, loyalty programs, and custom applications for targeted real-time offers

Flexible authentication and access control

- ☐ Click-through
Users must view and acknowledge your splash page before being allowed on the network
- ☒ Sign-on with Facebook Wi-Fi
Require users to check in to your Facebook Page before gaining access to your network ⓘ
Configure Facebook settings [here](#).
- ☐ Sign-on with SMS Authentication BETA
Users enter a mobile phone number and receive an authorization code via SMS.

Flexible built-in authentication mechanisms

Flexible authentication

Secure 802.1x and Active Directory authentication; Facebook Authentication for branding and targeted social marketing; SMS self-service authentication, Lobby Ambassador, and hosted sign-on splash pages

Dynamic access control

Assign clients layer 3-7 firewall rules, VLANs, and application-aware quality of service by identity, group, location, or device type

Simplified enterprise security

Air Marshal

Scanning APs ⓘ **4 APs** in dedicated Air Marshal mode.


LAN containment ⓘ

Keyword containment ⓘ
One keyword per line.

Off-channel scans ⓘ

Mandatory scan schedule ☐ S ☒ M ☒ T ☒ W ☒ T ☒ F ☒ S

or .



26 Rogue SSIDs | [439 Other SSIDs](#) | [5 Spoofs](#) | [0 Malicious broadcasts](#) | [212 Packet floods](#)

Containment ⓘ ▲	SSID	Last seen ⓘ	First seen	# APs	Rogue because	Seen by	Broadcast MACs	+
uncontained	63 hidden SSIDs	Apr 16 18:22	Aug 24 05:57	63	Seen on LAN	4th FL Sales1 (74 dB) 21 more »	12:18:0a:31:87:50 62 more »	
uncontained ▼	SG3 FoxFi	Apr 10 00:04	Mar 20 07:09	1	Seen on LAN	4th Floor Near Stairs (34 dB) 1 more »	5c:0a:5b:5f:a4:0f	
uncontained ▼	Daghan Altas's iPhone	Apr 12 08:21	Apr 12 08:21	1	Seen on LAN	Air Marshal - 2nd Floor 1 more »	66:a3:cb:84:ad:bd	
uncontained ▼	Moshi Test	Apr 10 04:00	Mar 20 10:55	1	Seen on LAN	2nd FL Support MDP4 (0 dB)	10:10:0a:37:00:01	

*Enterprise-class security features
for security-conscious
environments*

Air Marshal WIDS/WIPS

Detect wireless attacks; contain rogue APs; cloud-based alerting and diagnostics

User and device aware security

User, device, and group-based firewall rules (layer 3-7) with Active Directory integration

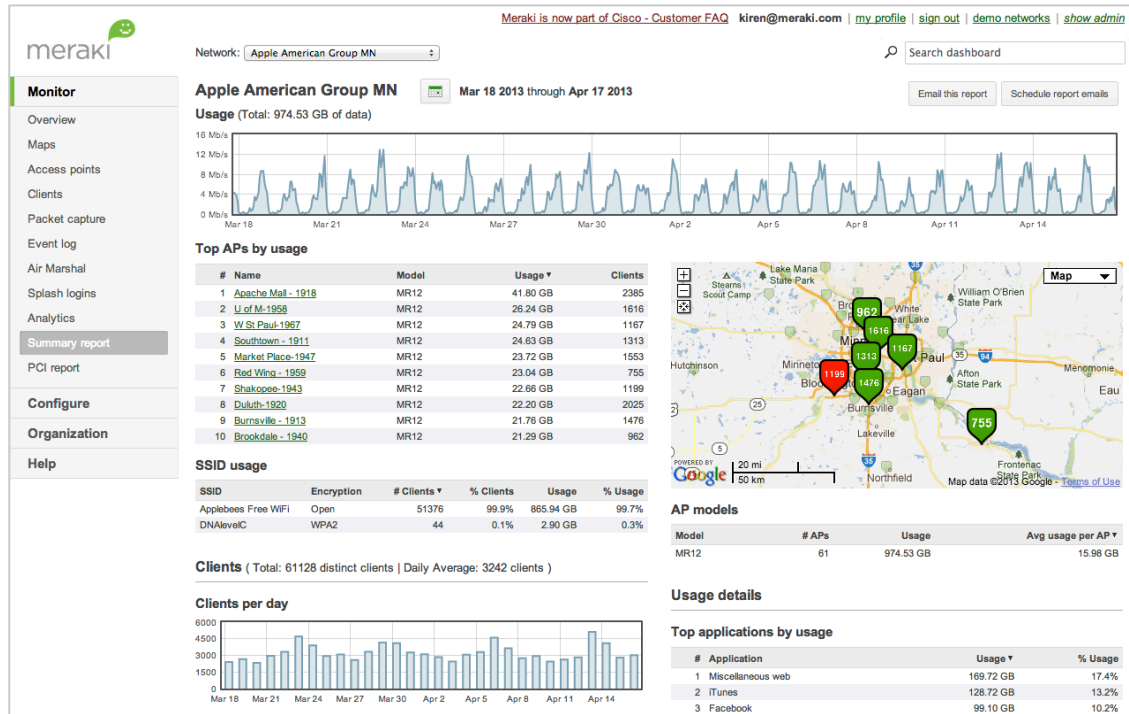
Complete NG firewall and content security

Application firewall; content filtering matching 1B+ URLs; antivirus / antimalware filtering; Google safe-search

Case studies



Case study: Applebee's

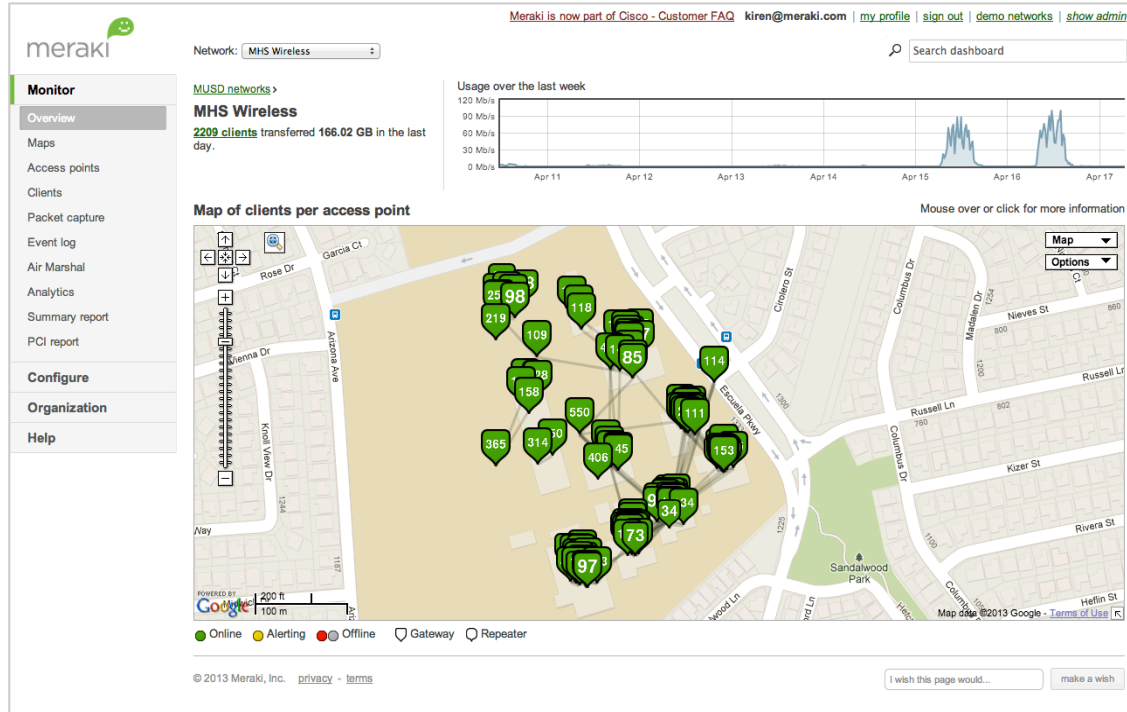


- Wireless LAN spanning over 270 restaurants nationwide
- Customer engagement through guest access, coupons, promotions
- PCI-compliant solution enables mobile POS
- Restaurants centrally managed over the web
- Deployed without pre-staging or on-site IT

“The Meraki Dashboard makes it easy to manage the WiFi across all the restaurants, and we have the visibility we wanted.”

Leslie McMasters, Network Administrator, Apple American Group

Case study: Milpitas Unified School District

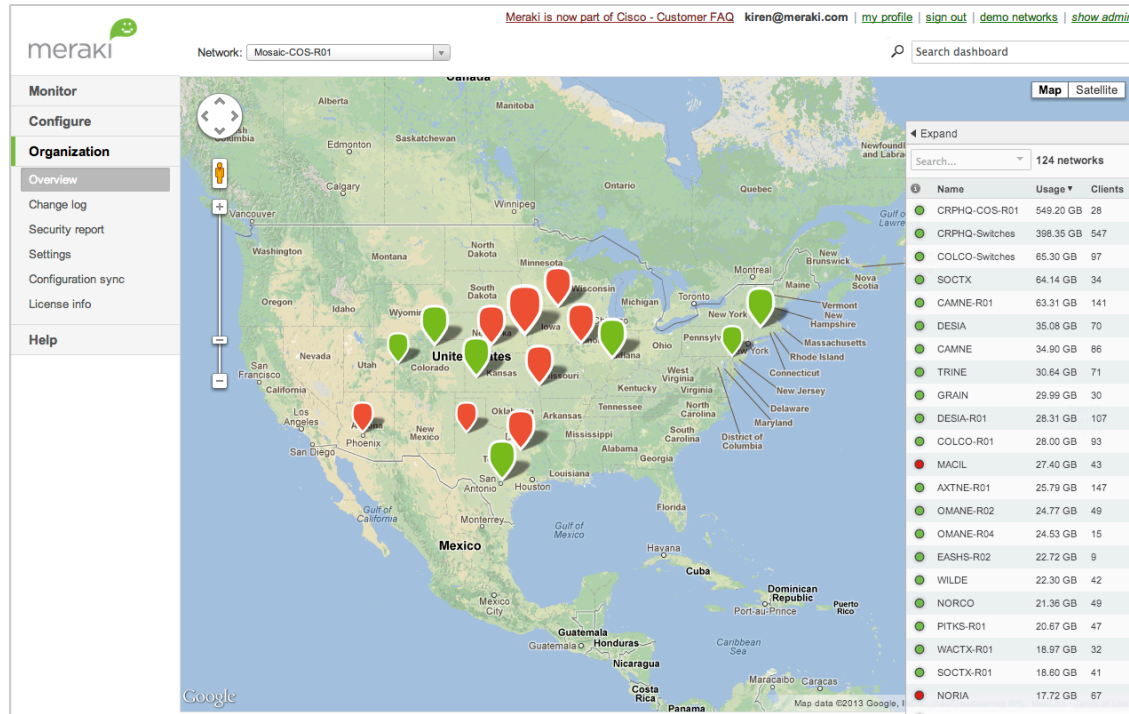


- California school district with 14 schools, 10,000 students
- Deployed cloud-managed firewall, 500 wireless APs (indoor + outdoor), and 100 Ethernet switches
- Enabled 1:1 Google Chromebook deployment and BYOD policy
- Application visibility and control optimizes bandwidth across 10k+ clients

“The Dashboard, the traffic shaping, and the MDM were real advantages. We can see the traffic and devices on the fly.”

Chin Song, Director of Technology, Milpitas Unified School District

Case study: Mosaic



- Healthcare and services provider with 5,000 employees, 40 facilities across 11 states
- Deployed 350 cloud-managed wireless APs, switches, and security appliances
- HIPAA-compliant WiFi for electronic medical records and guest access
- Centrally managed by small IT staff

“The Meraki solution has provided us with a secure, centrally managed distributed network.”

Daniel McDonald, Systems Integration Manager, Mosaic

Product Families



MR wireless access points



Feature highlights

BYOD policies

Application traffic shaping

Guest access

Enterprise security

WIDS / WIPS

Mesh routing

6 models including indoor/outdoor, high performance (802.11ac) and value-priced
Enterprise-class silicon including PoE, voice/video optimization
Lifetime warranty on indoor APs

MX security appliances



Feature highlights

Zero-touch site to site VPN

WAN optimization

NG firewall

Content filtering

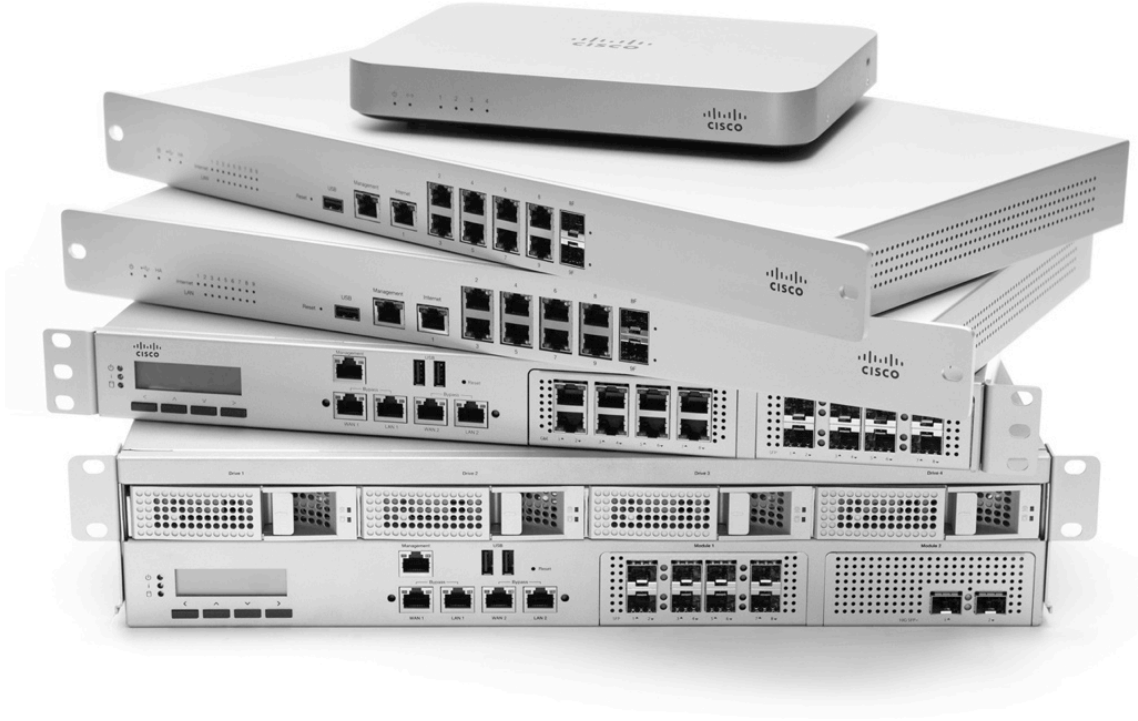
WAN link bonding

Intrusion detection

6 models scaling from small branch to campus / datacenter

Complete networking and security in a single appliance

MX security appliances



Feature highlights

Zero-touch site to site VPN

WAN optimization

NG firewall

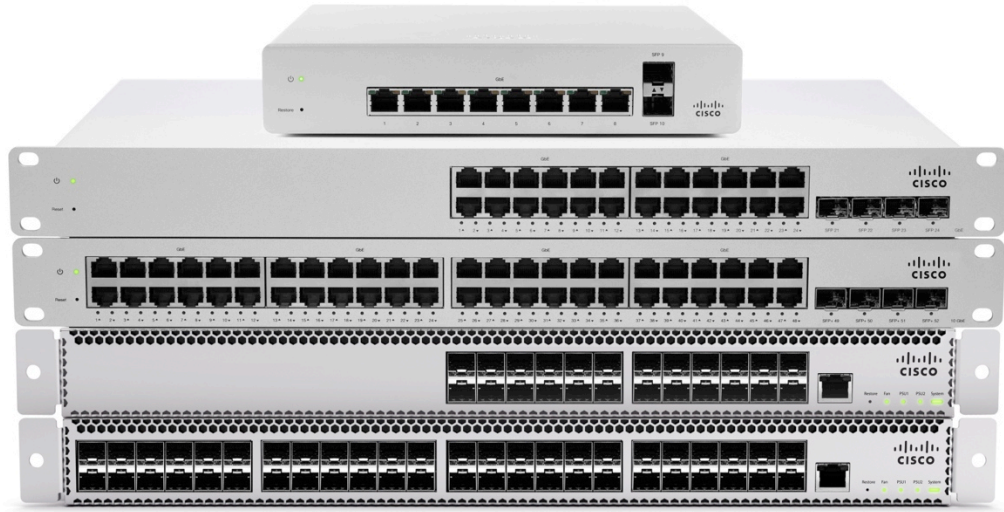
Content filtering

WAN link bonding

Intrusion detection/prevention

6 models scaling from small branch to campus / datacenter
Complete networking and security in a single appliance

MS access & aggregation switches



Feature highlights

Voice and video QoS

Layer 7 app visibility

Virtual stacking

PoE / PoE + on all ports

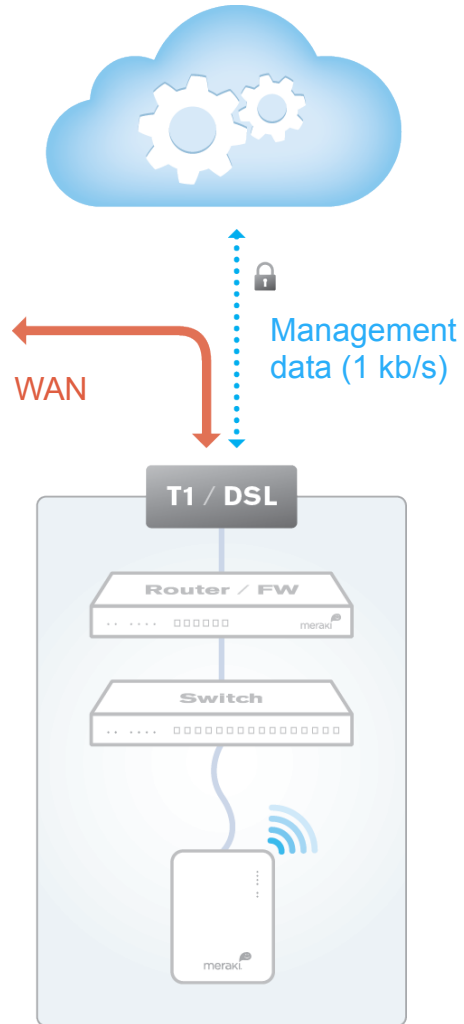
Remote packet capture,
cable testing

Gigabit access switches in 8, 24, and 48 port configurations, PoE available on all ports

10 Gigabit SFP+ aggregation switches in 24 and 48 port configurations

Enterprise-class performance and reliability including non-blocking performance, voice/video QoS, and a lifetime warranty

Out of band cloud management in every product



Scalable

- Unlimited throughput, no bottlenecks
- Add devices or sites in minutes

Reliable

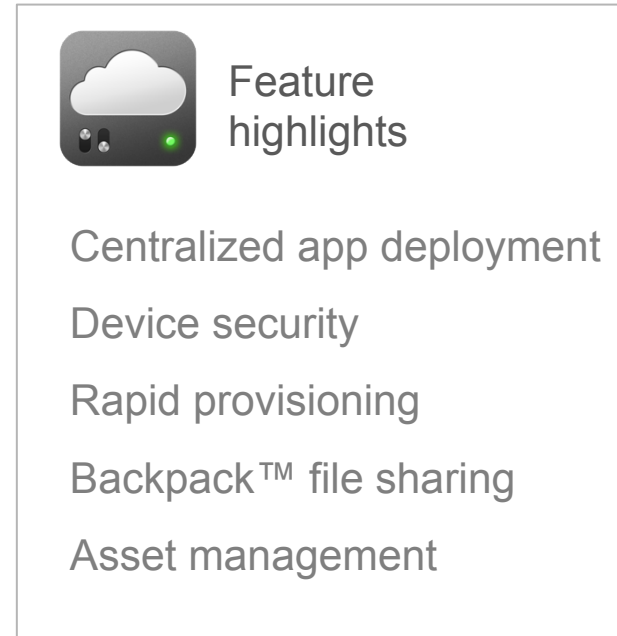
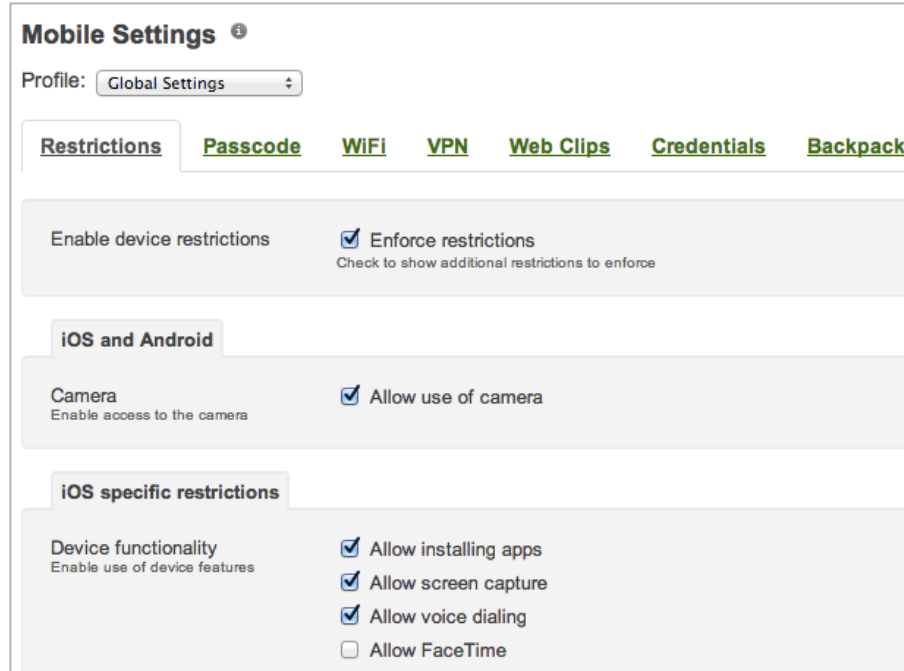
- Highly available cloud with multiple datacenters
- Network functions even if connection to cloud is interrupted
- 99.99% uptime SLA

Secure

- No user traffic passes through cloud
- Fully HIPAA / PCI compliant (level 1 certified)
- 3rd party security audits, daily penetration testing
- Automatic firmware and security updates (user-scheduled)

Reliability and security information at meraki.cisco.com/trust

Systems Manager MDM



Device Management controls iOS, Android, Mac, and Windows devices

Cloud-based: no on-site appliances or software, works with any vendor's network

Free: available at no cost to any organization, sign up at meraki.cisco.com/sm

Try Cisco Meraki for free

- Try Meraki on your network
- Sets up in 15 minutes
- Technical support available at no cost



Free trials available at meraki.cisco.com/eval

Thank you.

