



# Cisco Meraki - Cloud Managed Networking.

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# Overview

- Complete cloud-managed networking solution
  - Wireless, switching, security, MDM
  - Integrated hardware, software, and cloud services
- Leader in cloud-managed networking
  - Among Cisco's fastest-growing portfolios
  - Over 75,000 unique customers
  - Over 1 million Meraki network devices online



The image displays the Meraki cloud-managed networking solution. At the top, a browser window shows the Meraki dashboard interface, featuring a world map with network locations marked by colored pins. The dashboard includes various navigation menus and data panels. Below the dashboard, four categories of hardware and services are shown with corresponding icons: Wireless LAN (two white wireless access points), Enterprise Security (a stack of network switches), Access & Aggregation Switching (a large network switch), and Mobile Device Management (a cloud icon with a smartphone). Each category is labeled with its respective name in blue text.

UNITED COLORS  
OF BENETTON.



Mit Massachusetts  
Institute of  
Technology

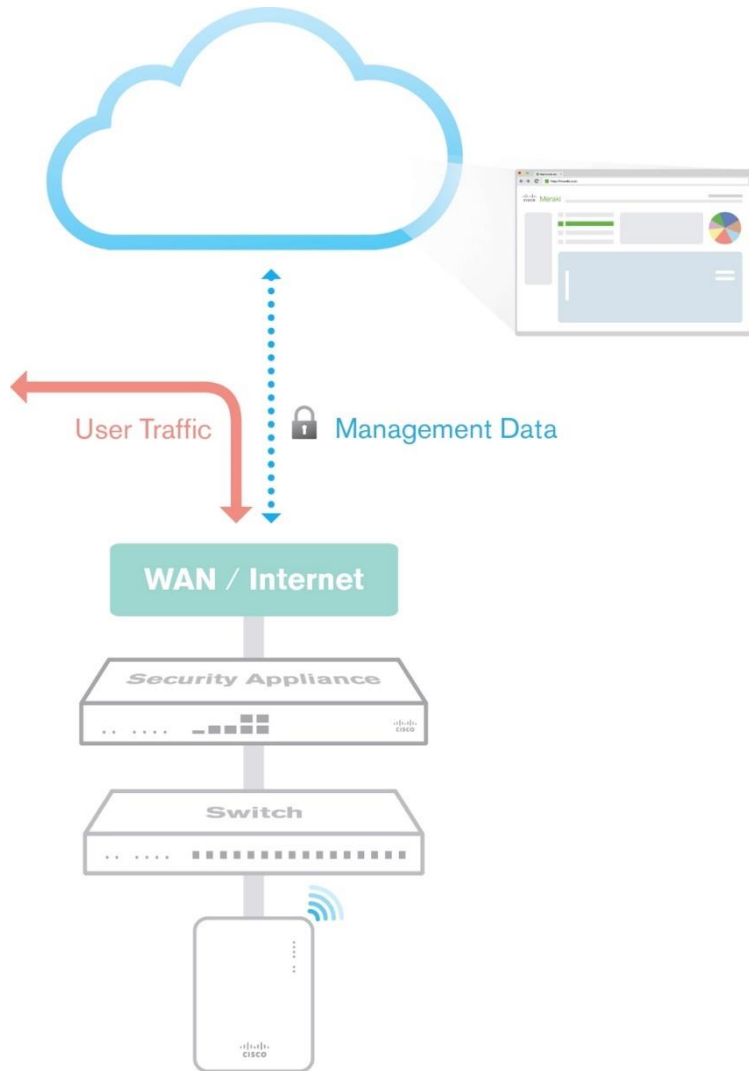


# Benefits of all Cisco Meraki product families



- Multi-site management
- Zero-touch device provisioning
- Seamless firmware upgrades (user-scheduled)
- Summary reports
- PCI compliant
- 99.99% SLA

# Brings the benefits of the cloud to enterprise networks



## Intuitive

- Simple browser based dashboard
- Cloud hosted centralized management platform

## Secure

- No user traffic passes through cloud
- Fully PCI compliant (level 1 certified)
- Automatic firmware and security updates (user-scheduled)

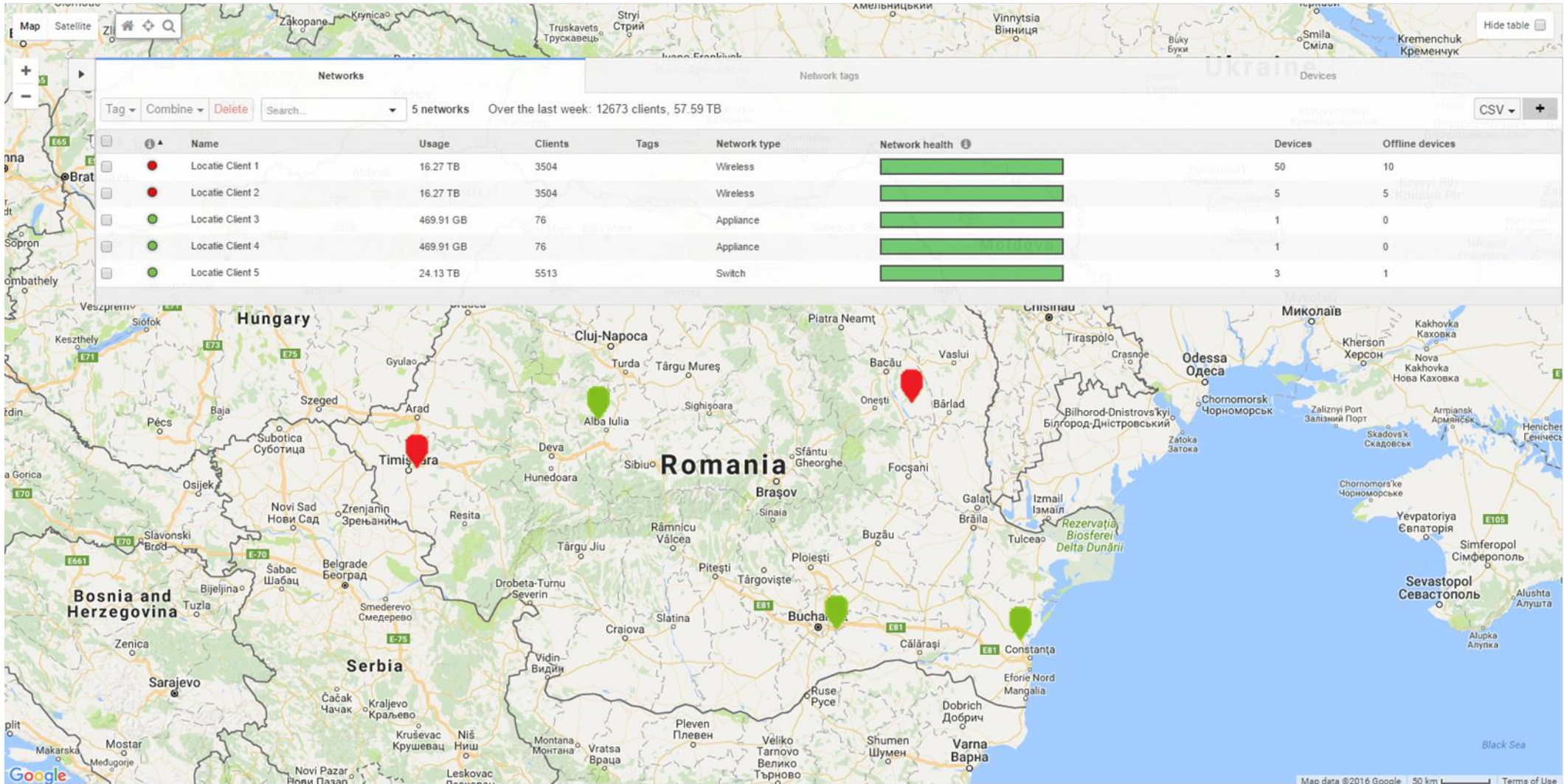
## Scalable

- Manage thousands of devices with no bottlenecks
- Remotely provision sites in minutes

## Reliable

- Highly available cloud with multiple datacenters
- **Network functions even if connection to cloud is interrupted**

[meraki.cisco.com/trust](https://meraki.cisco.com/trust)



# Product Families

# Cisco Meraki Wireless

# MR wireless access points



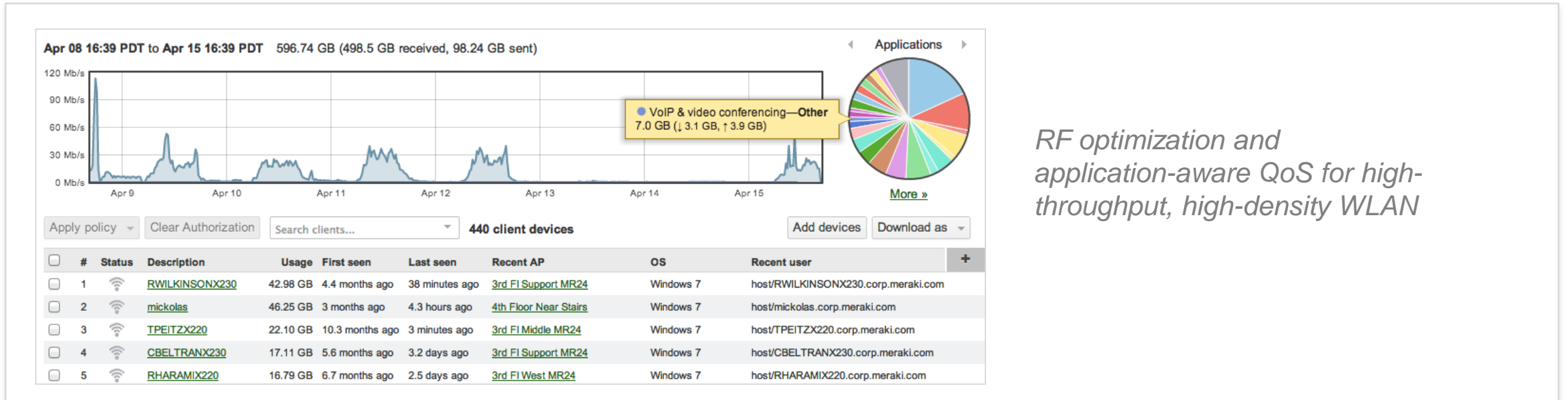
## Feature highlights

- BYOD policies
- Application traffic shaping
- Guest access
- Enterprise security
- WIDS / WIPS
- Mesh routing
- Posture & ISE Integration

Versatile portfolio including indoor/outdoor, high performance (802.11ac) and value-priced

Lifetime warranty on indoor APs

# High capacity



*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

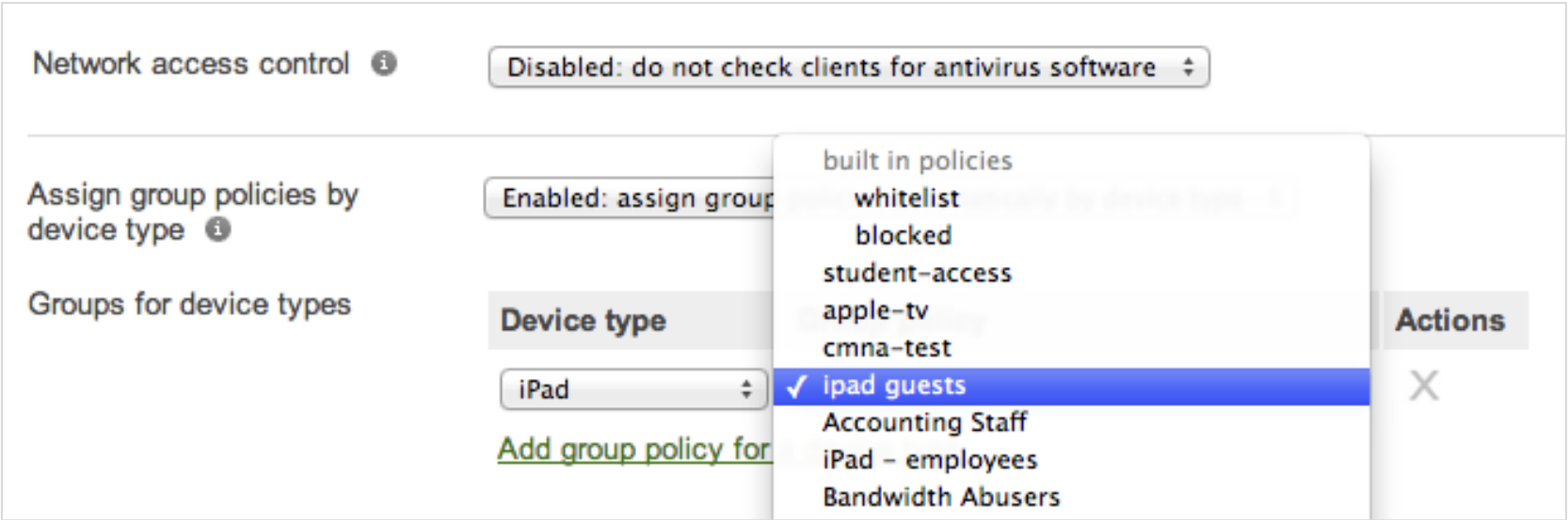
## Cloud-base RF optimization

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**: Disabled: do not check clients for antivirus software
- Assign group policies by device type**: Enabled: assign group
- Groups for device types**: A dropdown menu is open for the **Device type** (currently set to iPad), showing a list of policies: built in policies, whitelist, blocked, student-access, apple-tv, cmna-test, **ipad guests** (selected), Accounting Staff, iPad - employees, and Bandwidth Abusers.
- Actions**: A button with an 'X' icon.

*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

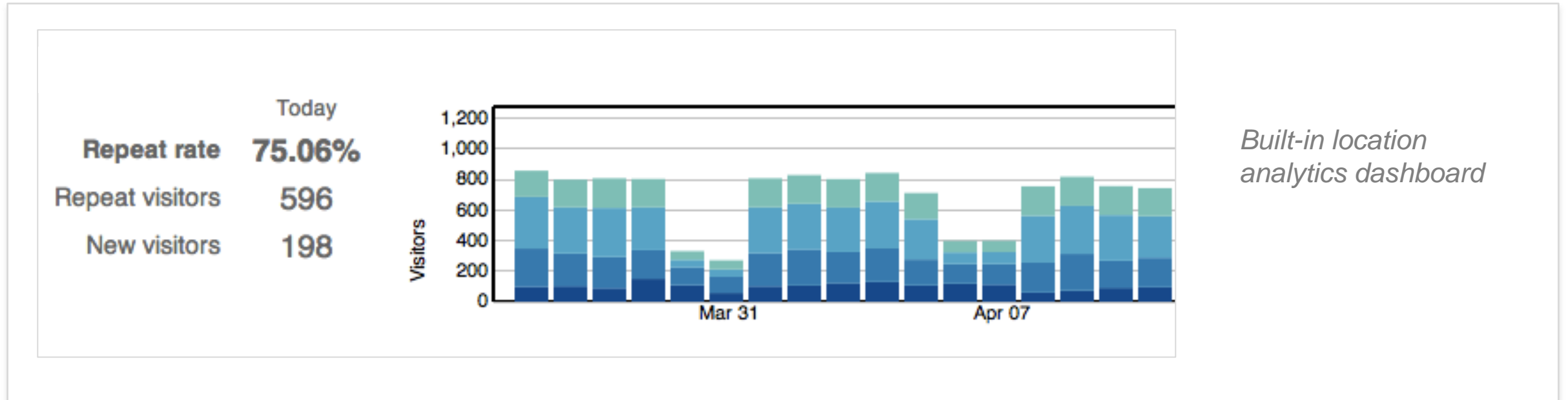
## Integrated MDM

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



## 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

# Cisco Meraki AP Lineup

## Indoor APs



**MR18**

2 Stream Triple-Radio  
802.11a/b/g/n



**MR32**

2 Stream Triple-Radio  
802.11ac  
Bluetooth LE



**MR42**

3 Stream Triple-Radio  
802.11ac Wave 2  
Bluetooth LE



**MR52**

4 Stream 4 Radio  
802.11ac Wave 2  
Bluetooth LE



**MR53**

4 Stream 4 Radio  
802.11ac Wave 2  
Bluetooth LE  
1 × 2.5Gbps Multigigabit  
Ethernet Port

## Outdoor APs



**MR62**

Single-Radio  
802.11b/g/n



**MR66**

Dual-Radio  
802.11a/b/g/n



**MR72**

2 Stream Triple-Radio  
802.11ac  
Bluetooth LE



**MR82**

4 Stream 4 Radio  
802.11ac  
Bluetooth LE  
1 × 2.5Gbps Multigigabit  
Ethernet Port

# Meraki Cloud Managed MS Switches

# Why customers choose the Cisco Meraki MS



## Intuitive centralized management

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

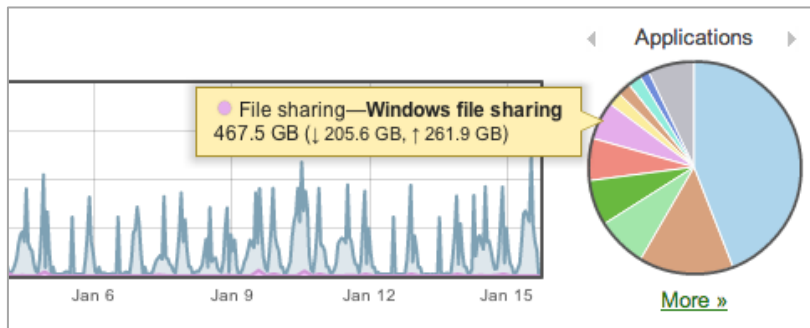
Switch ports for the last day

port:10-15 not:uplink 270 switch ports

Switch / Port	Type	VLAN	Link	POE	Enabled	Status
FD 5.3.6 / 15	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.6 / 13	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.3 / 15	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.3 / 13	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.2 / 12	access	110, voice 104	Auto negotiate (1 Gbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.2 / 11	access	110, voice 104	Auto negotiate (1 Gbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.3.1 / 12	trunk	native 128	Auto negotiate (1 Gbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.2.9 / 13	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.2.8 / 14	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>
FD 5.2.8 / 13	access	110, voice 104	Auto negotiate (100 Mbps)	enabled	enabled	<div style="width: 100%;"></div>

## Designed for distributed organizations

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



## Industry-leading visibility

Fingerprints users, applications, and devices  
Network-wide monitoring and alerts  
Complete solution: APs, switches, Security, MDM

# Simplifying multi-site management

## Virtual stacking

- Single pane of glass visibility into all switches and ports
- Configure ports in minutes, regardless of model or location

## Easy to deploy & manage

- Zero-touch site provisioning
- Switch cloning in 3 clicks
- Seamless updates from the cloud
- Network-wide monitoring and alerts

## Built-in troubleshooting & diagnostic tools

- Remote packet capture
- Local config page [switch.meraki.com](http://switch.meraki.com)
- Cable test tool

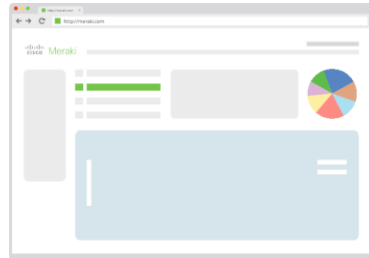
**Switch ports** for the last day ▾

[Edit](#) [Aggregate](#) [Split](#) [Tag](#) ▾  [help](#) **10 switch ports**

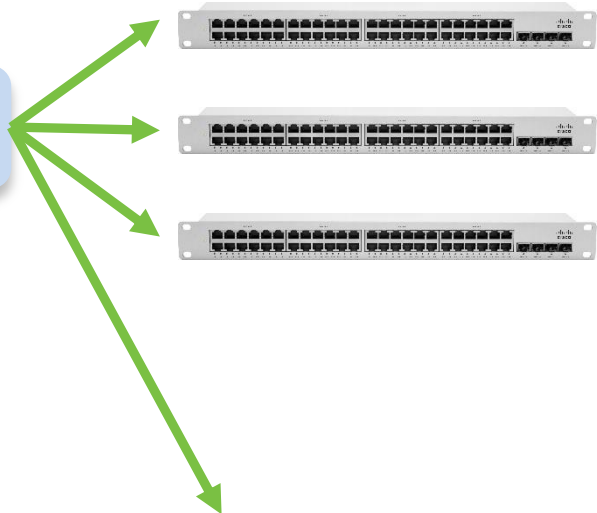
<input checked="" type="checkbox"/>	Switch / Port	Type ⓘ	VLAN ⓘ	Port# ▲	Link ⓘ	LLDP	POE ⓘ	Enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 28</a>	trunk	native 128	28	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 G6</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 32</a>	trunk	native 128	32	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 B6</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 34</a>	trunk	native 128	34	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 D6</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 38</a>	trunk	native 128	38	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 F8</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 39</a>	trunk	native 128	39	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 D10</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 40</a>	trunk	native 128	40	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 H10</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.1.1 / 41</a>	trunk	native 128	41	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 D8</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.2.1 / 41</a>	trunk	native 128	41	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">Name Me #2!</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.2.1 / 44</a>	trunk	native 128	44	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 G2</a>	enabled	enabled
<input checked="" type="checkbox"/>	<a href="#">FD 4.2.1 / 45</a>	trunk	native 128	45	Auto negotiate (1 Gbps)	<input checked="" type="checkbox"/> <a href="#">4 L2</a>	enabled	enabled

# Stack it your way

Benefits of virtual stacking apply equally to standalone or physically stacked switches



Apply Access Policy on ports 1-10



San Francisco

London

Sydney

*Standalone switches*

**Step 1:** Select ports to edit

**Step 2:** Configure multiple ports as desired

**Step 3:** Save, you're done!






San Francisco

*Stacked switches*

# MS Product Line Overview

# Meraki Access Layer Switch Families

Access		
MS220 	MS320 	MS350 
Features		
<ul style="list-style-type: none"> <li>• 8, 24, 48 port models</li> <li>• Layer 2</li> <li>• Gigabit SFP uplinks</li> </ul>	<ul style="list-style-type: none"> <li>• 24, 48 port models</li> <li>• Layer 3</li> <li>• 10Gb SFP+ uplinks</li> <li>• Hot-swappable, redundant PSU</li> </ul>	<ul style="list-style-type: none"> <li>• 24, 48 port models</li> <li>• Physical stacking (160Gbps)</li> <li>• High performance Layer 3</li> <li>• 10Gb SFP+ uplinks</li> <li>• Hot-swappable, field-replaceable fans and power supplies</li> <li>• Management port</li> </ul>
Positioning		
<ul style="list-style-type: none"> <li>• Branch access switching (L2)</li> </ul>	<ul style="list-style-type: none"> <li>• Branch and Campus access switching (L3)</li> </ul>	<ul style="list-style-type: none"> <li>• Stackable Branch and Campus access switching (L3)</li> </ul>

# The Meraki Aggregation Family

## Meraki Aggregation & Distribution



MS410 – Affordable 1G fiber distribution  
Ideal for Large Branch and Small Campus

- 16 & 32-port options
- L3 capable
- Ideal for MS220 access customers
- Stackable



MS420 – Powerful 10G fiber distribution  
Ideal for Medium to large Branch & Campus

- 24 & 48 - port options
- L3 capable
- Ideal for MS350/320 access customers
- Stacking capability coming soon via software update

# Meraki MX Security Appliances

# A Complete Unified Threat Management Solution



## Security

NG Firewall, Client VPN, Site-to-Site VPN, IDS/IPS



## Networking

NAT/DHCP, 3G/4G Cellular, Static Routing, Link Balancing, HA & Failover, IWAN



## Application Control

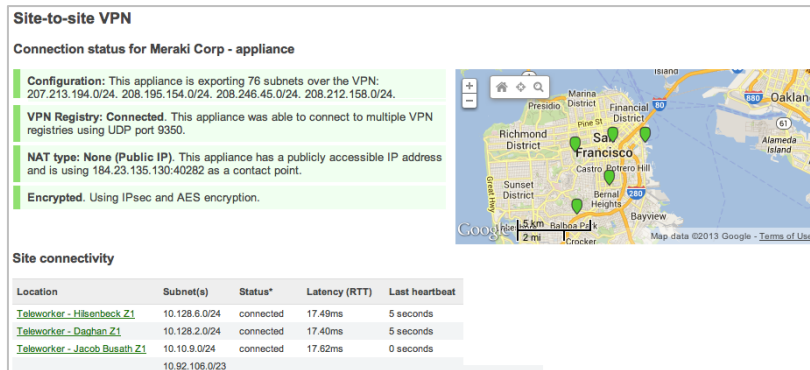
Geo-based IP FW rules, Traffic Shaping, Content Filtering

# Why the Cisco Meraki MX?



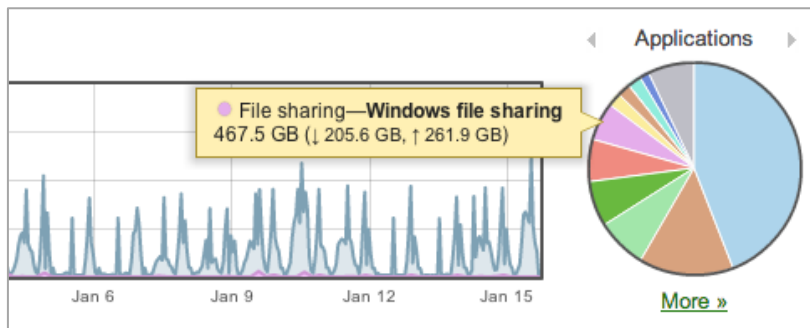
## Intuitive centralized management

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



## Designed for distributed enterprises

Site-to-site VPN in 3 clicks  
Configuration templates for quick deployment  
High Availability for datacenters



## Industry-leading visibility and control

Fingerprints users, applications, and devices  
Layer 7 application traffic shaping  
Content filtering, IDS, anti-virus/anti-phishing

# Intelligent WAN with Meraki

“Intelligent WAN” (IWAN) is a collection of Cisco technologies and products that enable transport independence, intelligent path control, application optimization, and secure connectivity for multi-site deployments.



## Transport Independence

- IPSec overlay (Auto VPN)
- Scalable (Cloud Controller)
- Traffic distribution over multiple pathways (Internet, cellular, MPLS-to-VPN failover)



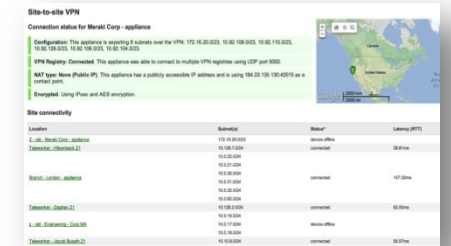
## Application Optimization

- App visibility & control (Meraki dashboard, group-based policies, traffic analytics)
- Application QoS & bandwidth optimization (Traffic shaping)



## Dynamic Path Selection







- Uplink chosen by link latency, data loss, etc. (performance-based routing)
- Uplink assigned by traffic protocol, subnet, source, destination, etc. (policy-based routing)




## Secure Connectivity

- Intuitive, automatic, scalable VPN solution to connect remote branch sites (Auto VPN)

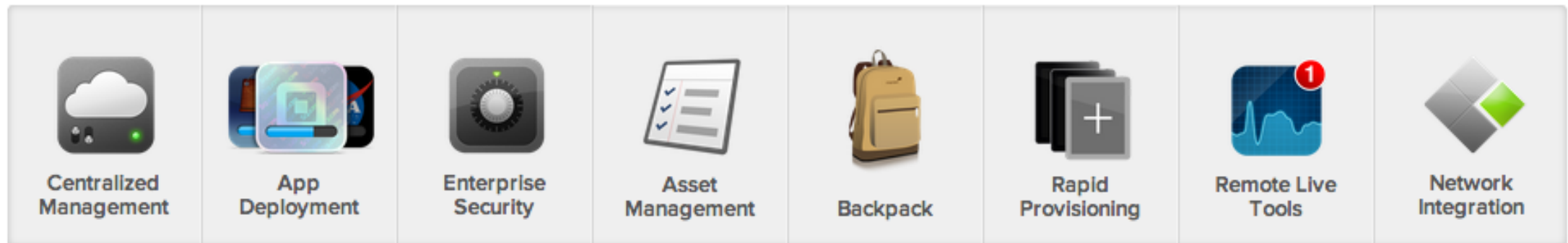
# The 2016 MX Family

	Where	Notable Features	FW Throughput
 MX64/64W	Small branch (~50 users)	11ac wireless (MX64W)	250 Mbps
 MX65/65W	Small branch (~50 users)	PoE+, dual WAN, 802.11ac	250 Mbps
 MX84	Mid-size branch (~200 users)	SFP Ports	500 Mbps
 MX100	Mid-size branch/ Small campus (~500 users)	SFP Ports	750 Mbps
 MX400	Large branch/campus (~2,000 users)	Power redundancy Modular interface SFP or SFP+ (with modules)	1 Gbps
 MX600	Campus/ VPN Concentration (~10,000 users)	Power redundancy Modular interface SFP or SFP+ (with modules)	1 Gbps

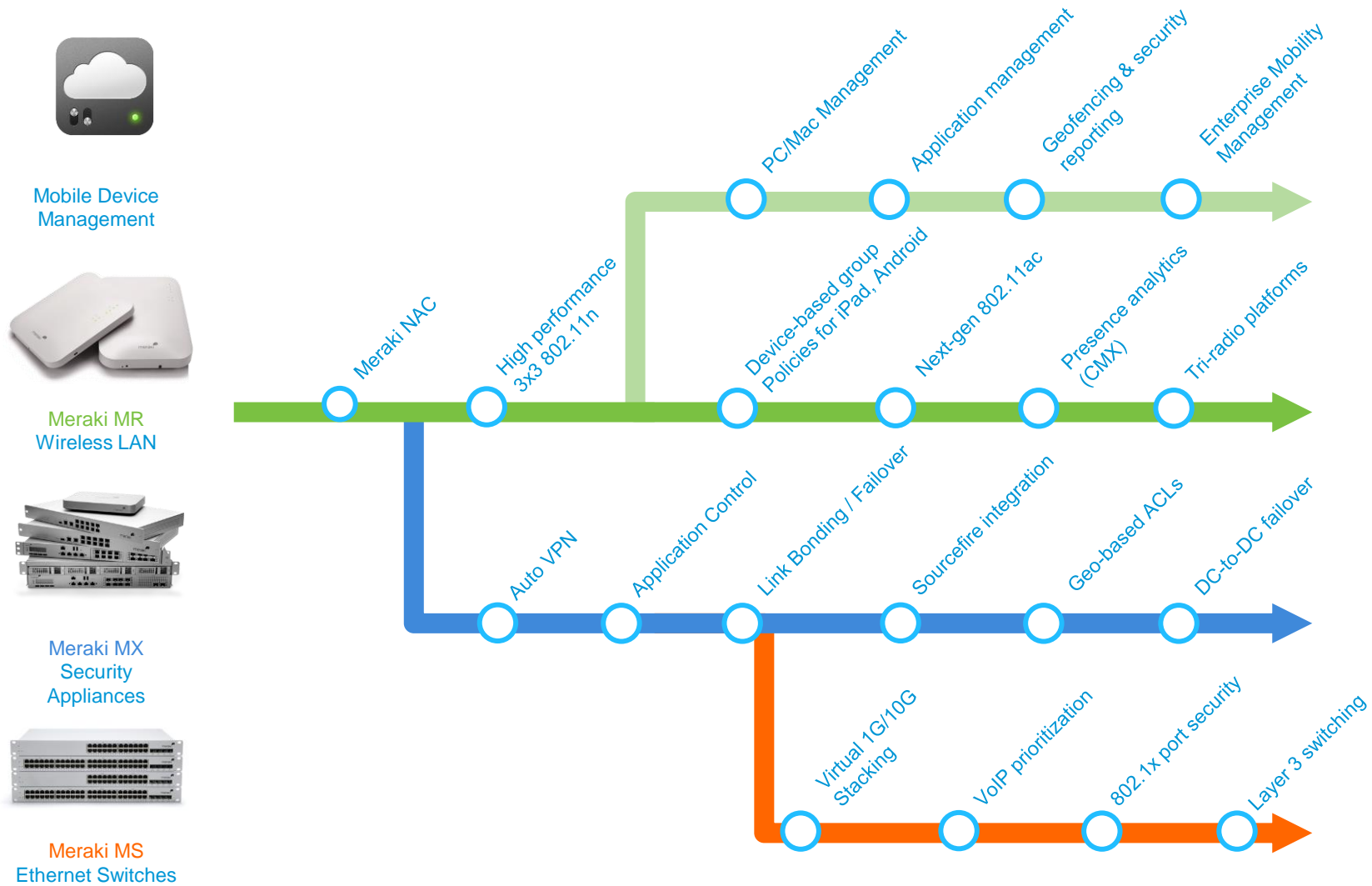
  
**Z1**  
 For teleworkers  
(1-5 users)  
  
 Dual-radio wireless  
  
 FW throughput: 50 Mbps

All devices support 3G/4G

# Mobile Device Management - Cisco Meraki Systems Manager



# Feature velocity



# Cisco Enterprise and Cloud-Managed Networking Portfolio

## Cisco Networking Portfolio

### Cisco Enterprise Portfolio



**Prime**



**ISE**

3<sup>rd</sup> Party MDM Integration

WLAN Controllers

Catalyst 2K/3K/4K/6K

Aironet Access Points

ASA - Firewall

ISR - Routing

Catalyst 3850

with integrated controller

### Cisco Cloud Managed

**Cloud Management & Policy**

Systems Manager

Cloud Controller

MS Switch

MR AP's

MX Series Security Appliances

Unparalleled Deployment Flexibility

Ease of Use

# 3 ways to try Cisco Meraki for free

1. Trials

2. Free AP Program

3. Dashboard Demo

Thank you.

