Meraki
Cloud Managed Networking

Cisco Meraki solution Overview & Demo

Why cloud managed networking?

The cloud increases IT efficiency

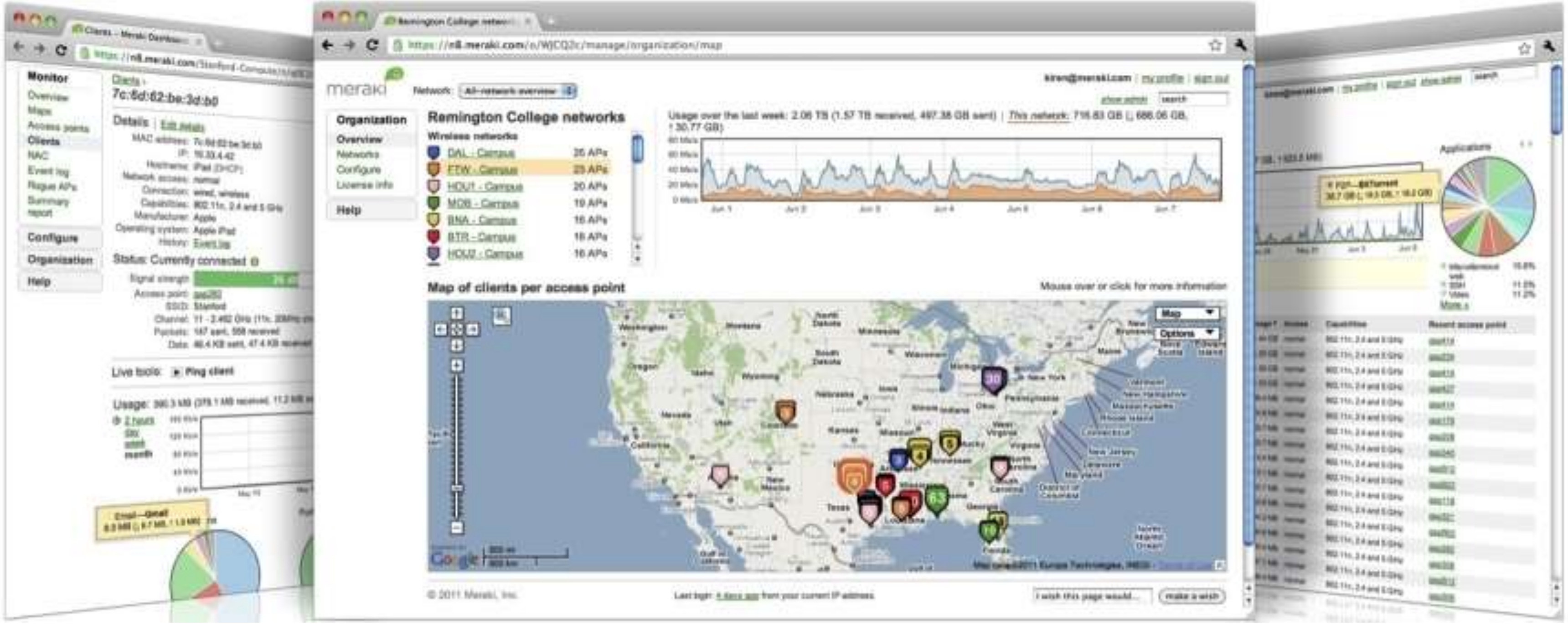
Manageability

Scalability

Cost Savings

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

Cisco Meraki: Bringing the cloud to enterprise networks



https://n8.meraki.com/o/WJCQ2c/manage/organization/map

meraki Network: All-network overview

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Organization
- Overview
- Networks
- Configure
- License info

Help

Remington College networks

Wireless networks

DAL - Campus	26 APs
FTW - Campus	25 APs
HOU1 - Campus	20 APs
MOB - Campus	19 APs
BNA - Campus	18 APs
BTR - Campus	18 APs
HOU2 - Campus	16 APs

Usage over the last week: 2.06 TB (1.57 TB received, 497.38 GB sent) | This network: 716.83 GB (↓ 686.06 GB, ↑ 30.77 GB)

Map of clients per access point

Mouse over or click for more information

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Meraki MR
Wireless LAN

Meraki MS
Ethernet Switches

Meraki MX
Security Appliances

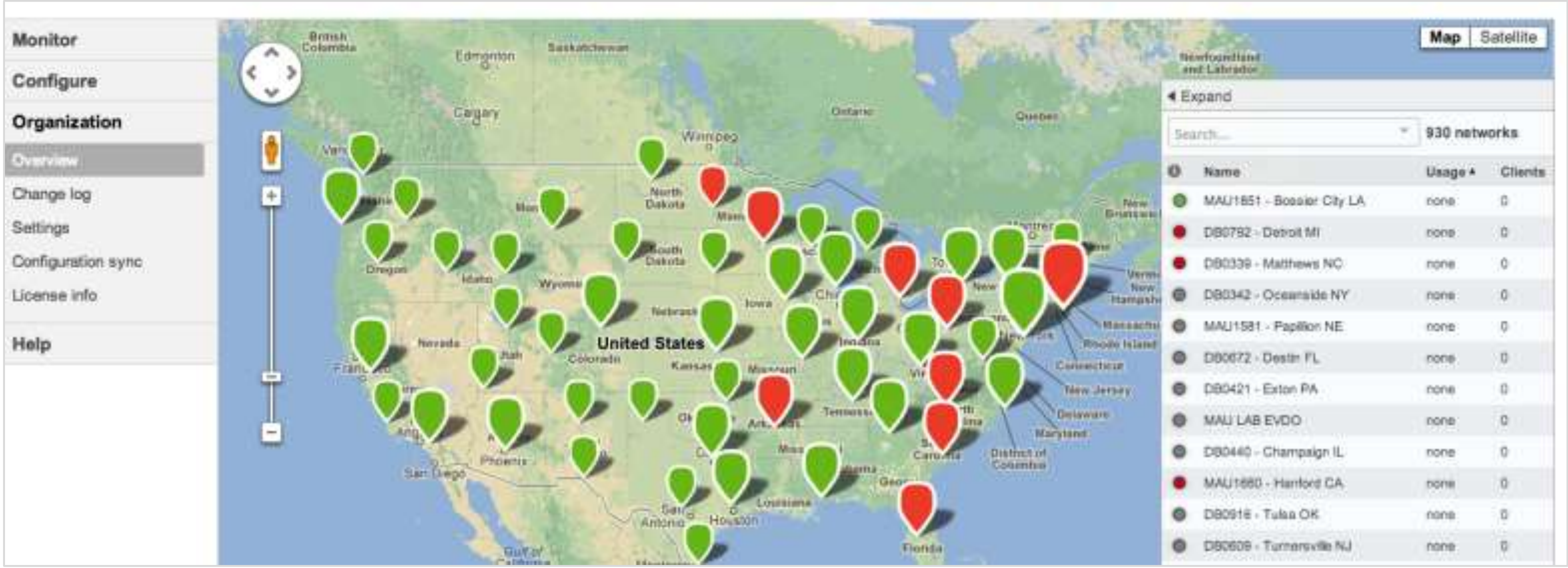
Meraki MC
Communication

Meraki MV
Security Cameras

Meraki SM
Mobile Device
Management

Solution highlights

Distributed networks



930 networks

●	Name	Usage ▴	Clients
🟢	MAU1651 - Bossier City LA	none	0
🔴	DB0792 - Detroit MI	none	0
🔴	DB0339 - Matthews NC	none	0
●	DB0342 - Oceanside NY	none	0
●	MAU1581 - Papillion NE	none	0
●	DB0672 - Destin FL	none	0
●	DB0421 - Exton PA	none	0
●	MAU LAB EVDO	none	0
●	DB0440 - Champaign IL	none	0
🔴	MAU1660 - Hanford CA	none	0
●	DB0916 - Tulsa OK	none	0
●	DB0609 - Turnersville NJ	none	0

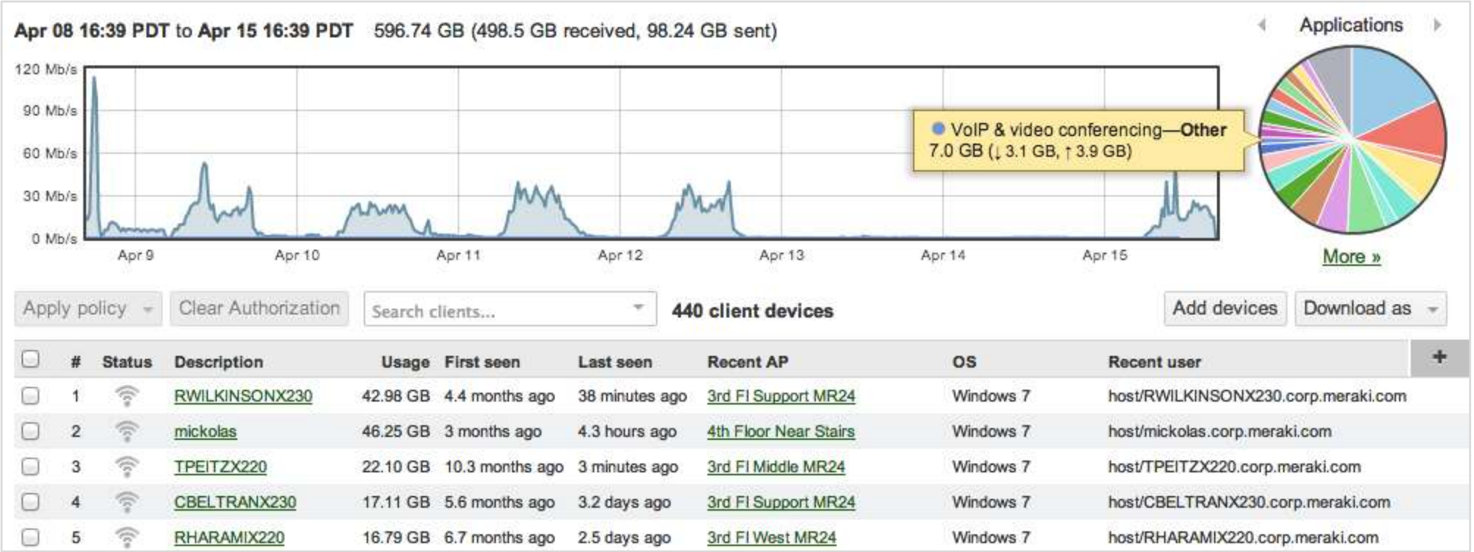
Centralized cloud management scales to thousands of sites

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



Apr 08 16:39 PDT to **Apr 15 16:39 PDT** 596.74 GB (498.5 GB received, 98.24 GB sent)

VoIP & video conferencing—**Other**
7.0 GB (↓ 3.1 GB, ↑ 3.9 GB)

440 client devices

□	#	Status	Description	Usage	First seen	Last seen	Recent AP	OS	Recent user
□	1	📶	RWILKINSONX230	42.98 GB	4.4 months ago	38 minutes ago	3rd Fl Support MR24	Windows 7	host/RWILKINSONX230.corp.meraki.com
□	2	📶	mickolas	46.25 GB	3 months ago	4.3 hours ago	4th Floor Near Stairs	Windows 7	host/mickolas.corp.meraki.com
□	3	📶	TPEITZX220	22.10 GB	10.3 months ago	3 minutes ago	3rd Fl Middle MR24	Windows 7	host/TPEITZX220.corp.meraki.com
□	4	📶	CBELTRANX230	17.11 GB	5.6 months ago	3.2 days ago	3rd Fl Support MR24	Windows 7	host/CBELTRANX230.corp.meraki.com
□	5	📶	RHARAMIX220	16.79 GB	6.7 months ago	2.5 days ago	3rd Fl West MR24	Windows 7	host/RHARAMIX220.corp.meraki.com

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

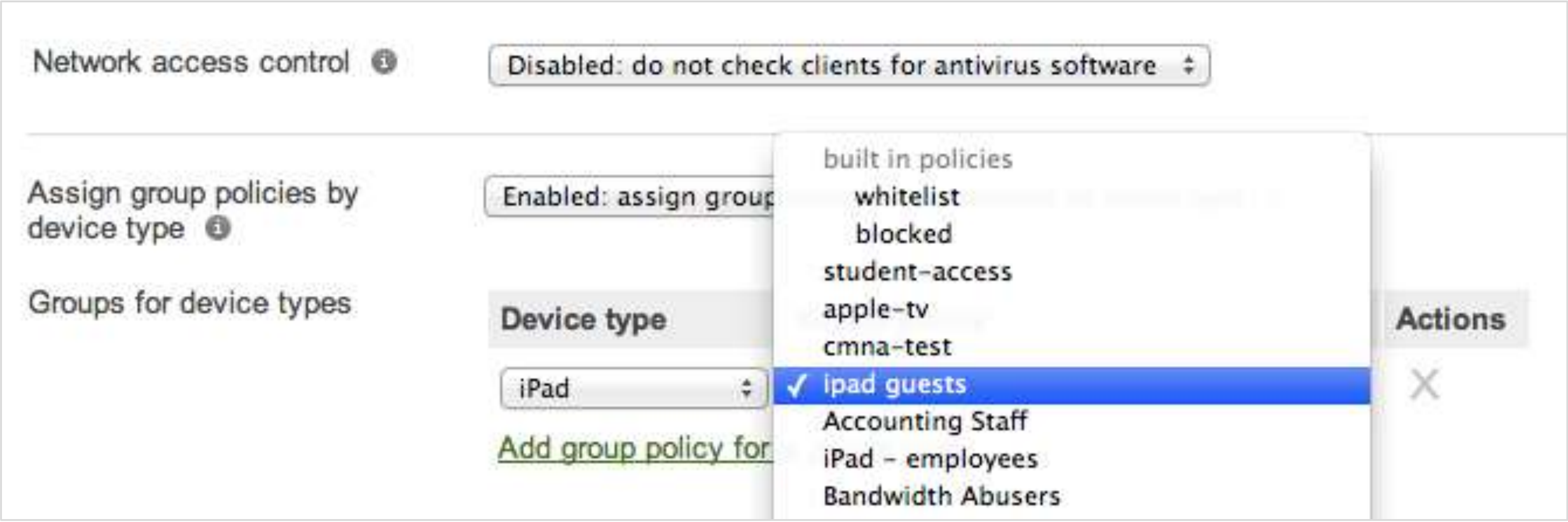
Cloud-base RF optimization

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)



Network access control: Disabled: do not check clients for antivirus software

Assign group policies by device type: Enabled: assign group

Groups for device types

Device type		Actions
iPad	✓ ipad guests	×

Add group policy for

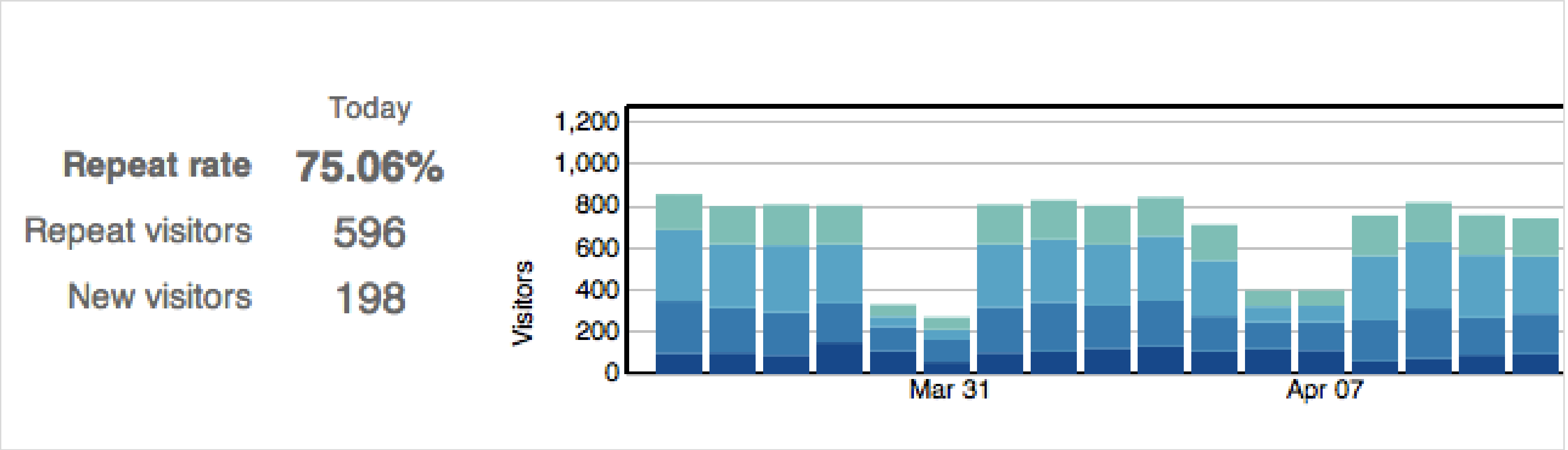
Out-of-the-box security, management, and capacity for BYOD-ready deployments

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

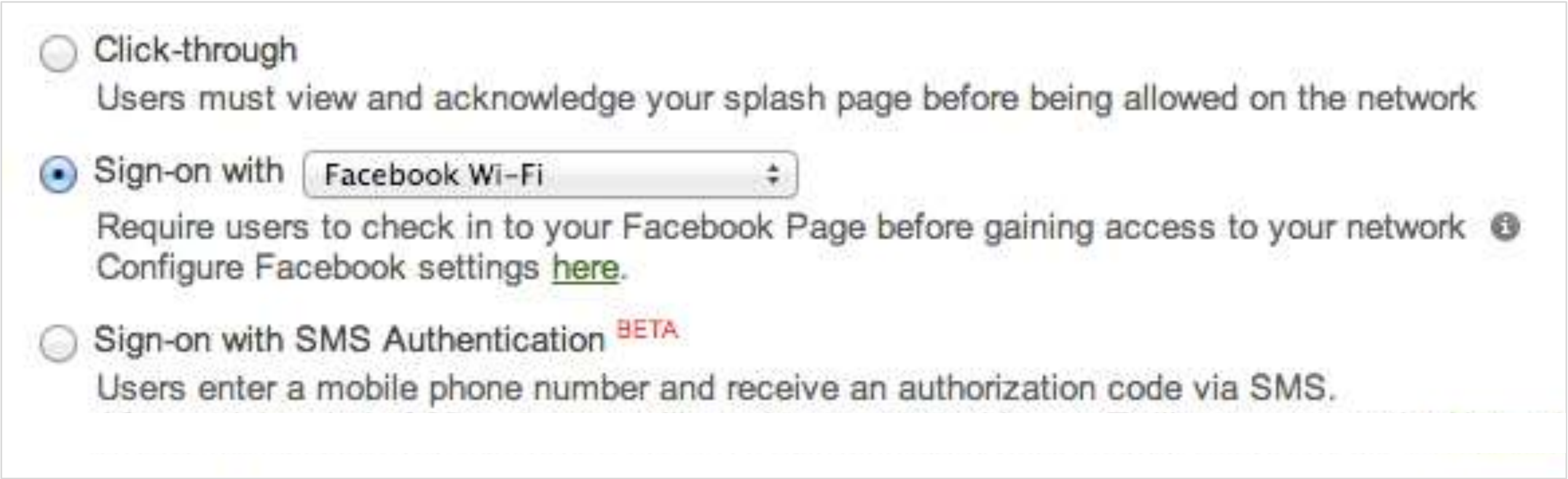
Built-in location analytics dashboard

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.

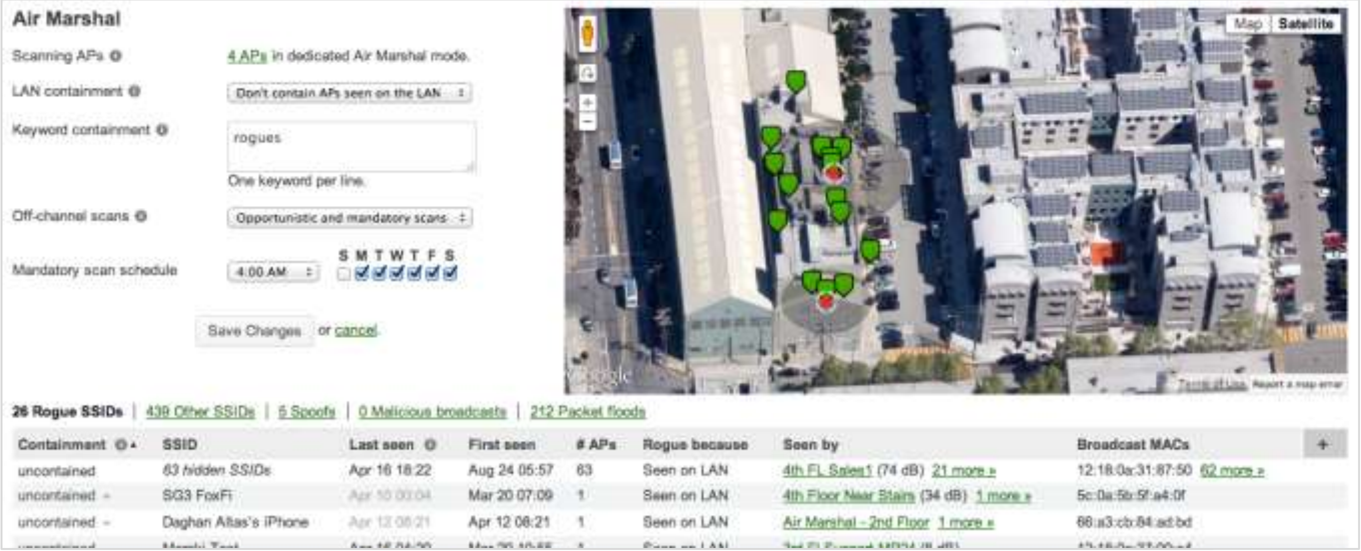
○ Sign-on with SMS Authentication BETA
Users enter a mobile phone number and receive an authorization code via SMS.

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: Don't contain APs seen on the LAN

Keyword containment: rogues

One keyword per line.

Off-channel scans: Opportunistic and mandatory scans

Mandatory scan schedule: 4:00 AM

S	M	T	W	T	F	S
□	☑	☑	☑	☑	☑	☑

Save Changes or cancel.

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	Meraki Test	Apr 16 04:20	Mar 26 10:55	1	Seen on LAN	3rd FL Support MR24 (8 dB)	12:18:0a:27:00:a4

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

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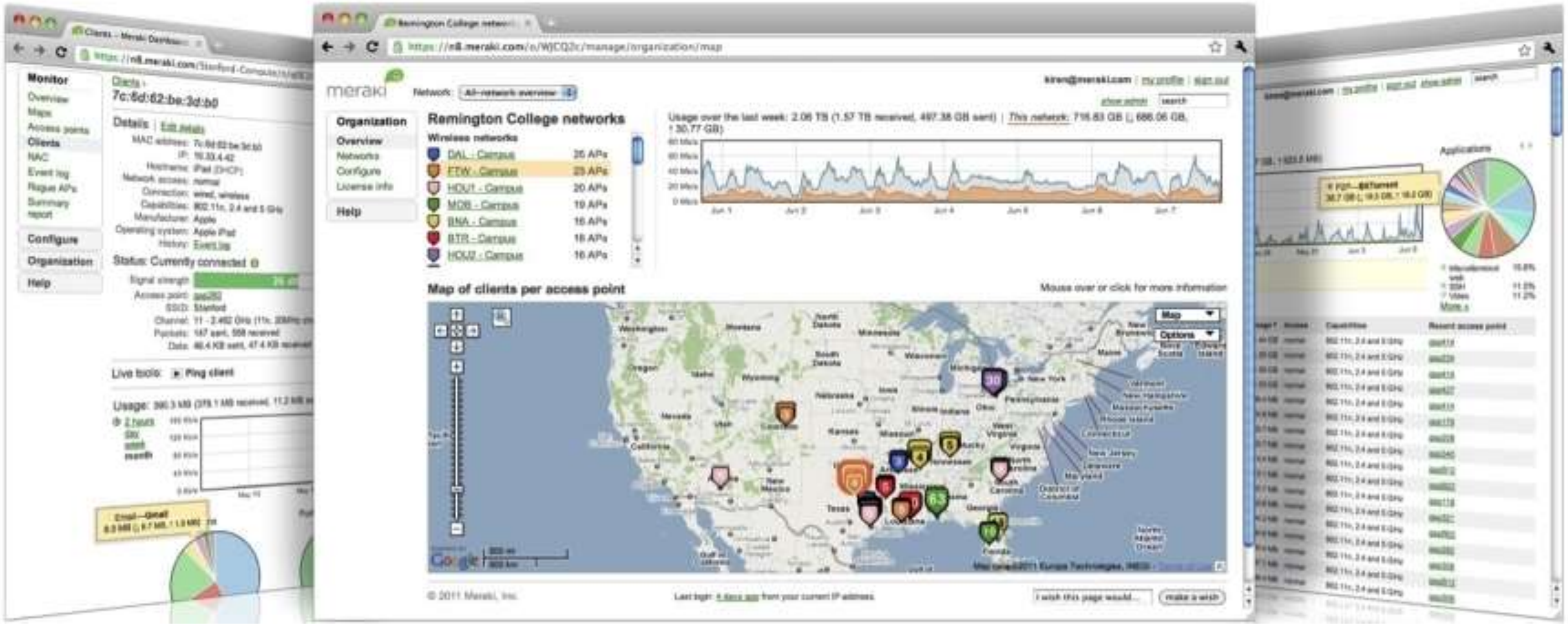

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Thank you.

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