Cisco Meraki

- Meraki was acquired by Cisco in 2012.
- It provides simple, secure cloud managed networking.
- Management and monitoring is through the single pane of glass Meraki Dashboard.
- Simple management reduces costs.
- It is scalable to hundreds of thousands of devices.

Network
San Francisco
Secure Connect
Network-wide
Security & SD-WAN
Switching
Wireless
Systems Manager
Cameras
Sensors
Insight
Organization

Switches

Last day

+ Add a switch

0 Offline	5 Alerting	4 Online	0 Dormant

Search | Status | Tags | Device type | 9 results | Download

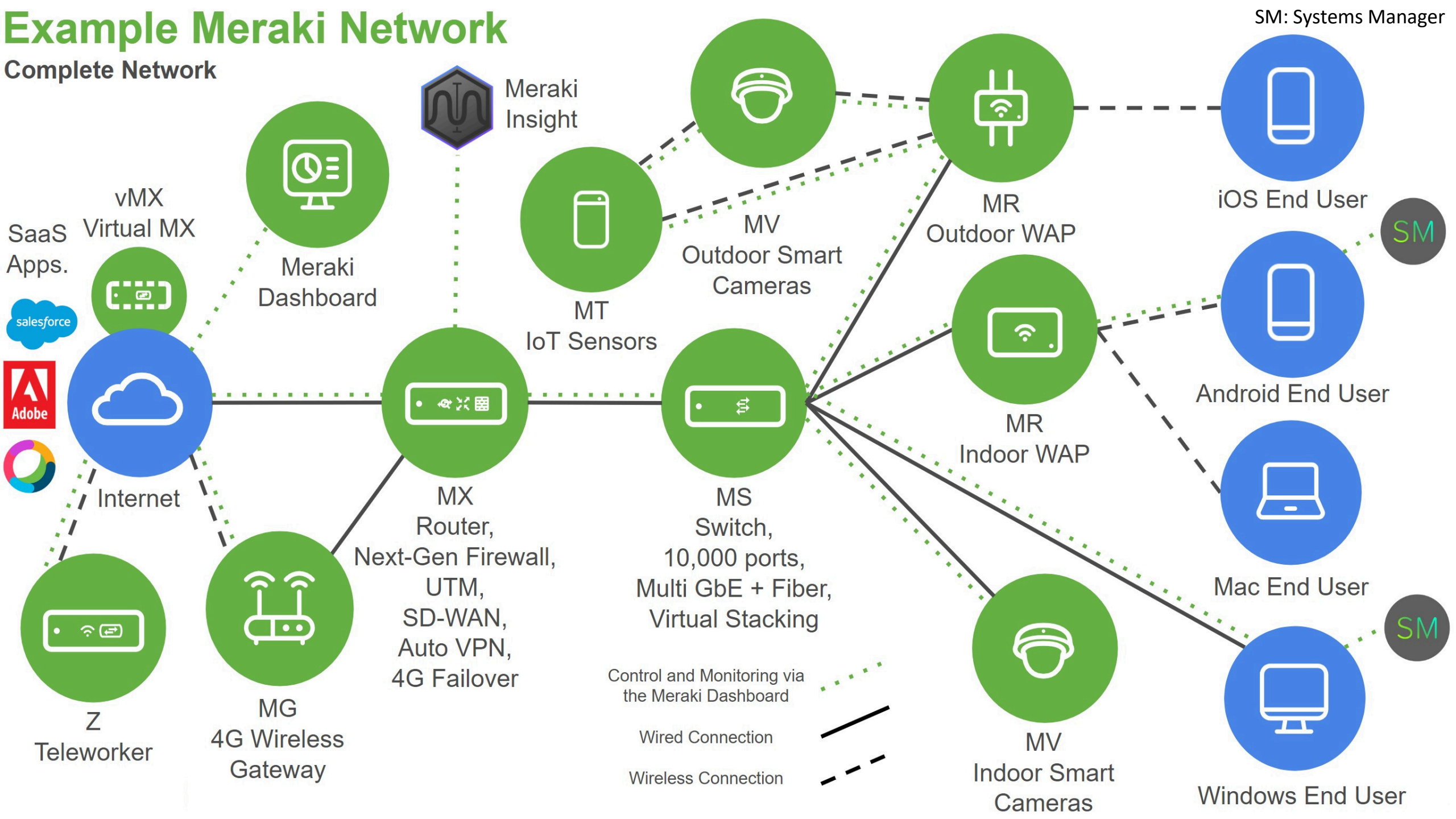
Status	Name	Alerts	Local IP	Model	Connectivity (UTC-7)	# ports	Contacted at	Upgrade status	Configuration status	Public IP	Local IPv6	Clients with usage	Current clients
!	CAMPUS-SFO-IDF2.1.1-MS355-24X	VLAN	172.16.1.50	MS355-24X		30	1 minute	—	Up to date	198.27.154.104	—	19	37
!	CAMPUS-SFO-MDF1.1-MS425-16-CORE1	VLAN	172.16.1.29	MS425-16		18	1 minute	—	Up to date	198.27.154.104	—	0	
!	CAMPUS-SFO-MDF1.1-MS425-16-CORE2	VLAN	172.16.1.45	MS425-16		18	2 minutes	—	Up to date	198.27.154.104	—	67	110
!	CAMPUS-SFO-IDF1.1.1-MS390-24UX	VLAN	172.16.1.44	MS390-24UX		28	1 minute	—	Up to date	198.27.154.104	—	47	98
!	CMP-9300-01 Monitor Only	VLAN	172.16.1.201	C9300-24U		32	1 minute	—	—	198.27.154.104	—	1	
✓	CAMPUS-SFO-IDF2.1.1.2-MS225-24P		172.16.1.58	MS225-24P		28	1 minute	—	Up to date	198.27.154.104	—	0	
✓	CAMPUS-SFO-IDF1.1.2-MS390-24UX		172.16.1.46	MS390-24UX		24	1 minute	—	Up to date	198.27.154.104	—	14	32
✓	CAMPUS-SFO-IDF2.1.1.1-MS130-12X		172.16.1.60	MS130-12X		14	1 minute	—	Up to date	198.27.154.104	—	0	
✓	CMP-C9300-Migrated		192.168.128.38	C9300-24U		24	1 minute	—	Up to date	198.27.154.104	—	0	

Last login
4 minutes ago from 182.71.162.59 Mahadevapura, India

Example Meraki Network

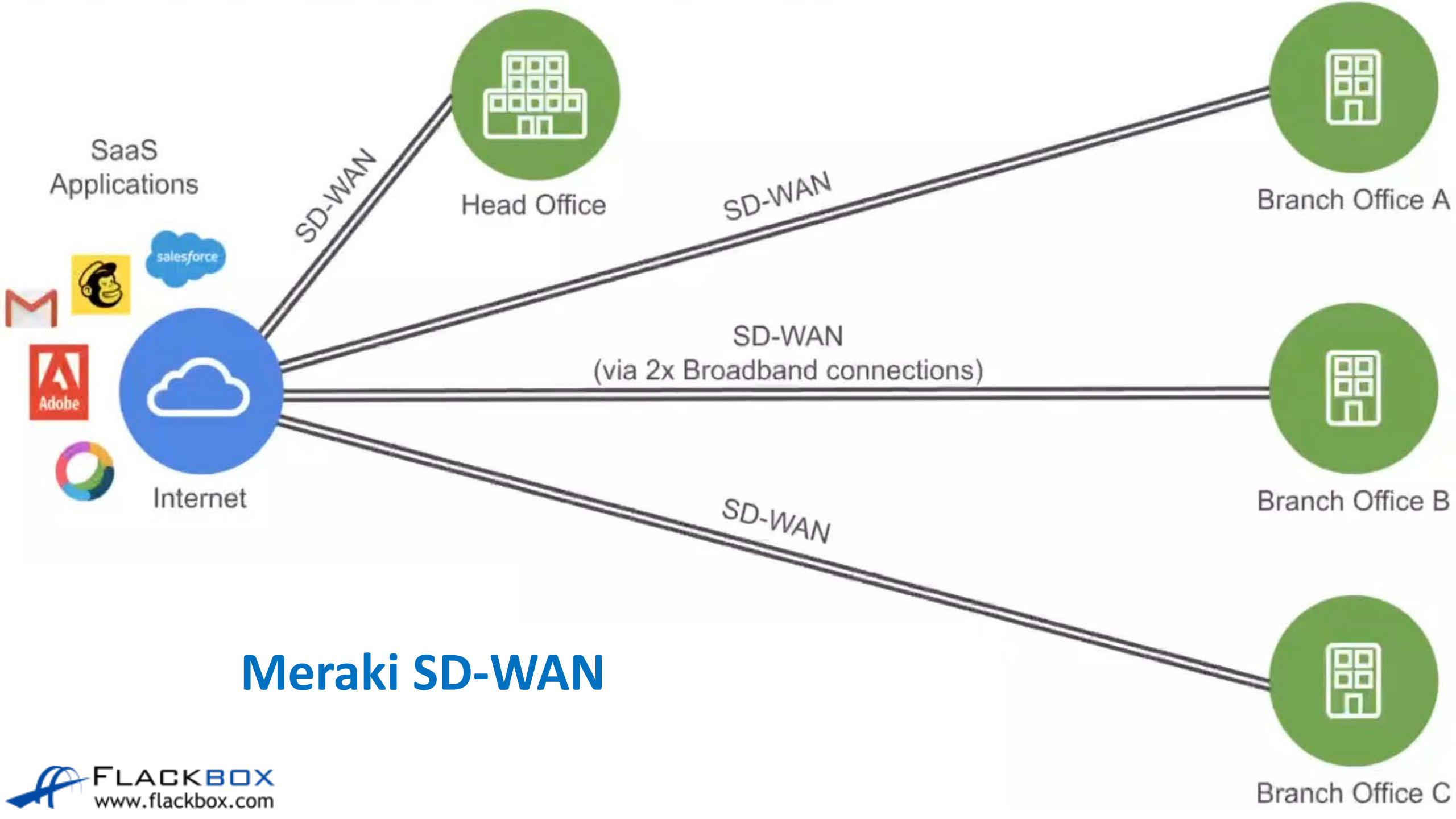
Complete Network

SM: Systems Manager



Simplified Deployment and Configuration

- When Meraki devices are powered on they automatically connect to the Meraki cloud over the internet. You can then register the devices into your Inventory and manage them.
- There is simplified deployment from the central Meraki Dashboard
- Zero Touch Deployment allows devices to be configured before they are connected. When the device is installed later it connects to the Meraki Cloud and downloads its configuration. An on-site engineer is not required
- Configuration templates can be created and updates automatically pushed to devices
- New network settings can be cloned from an existing network



Meraki SD-WAN

CCM Cisco Cloud Monitoring

- CCM provides cloud managed monitoring of other Cisco devices through the Meraki Dashboard
- Support has been added for Catalyst 9000 series switches and Wireless LAN Controller

Network
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Organization Summary

New

Devices

View all devices

Uplinks 16 total	WAN Appliances 11 total	Switches 14 total	Access Points 16 total
All Online	All Online	All Online	All Online

Cameras 9 total	Cellular Gateways 3 total	Sensors 14 total
All Online	All Online	All Online

Networks

Usage and clients over the last week

Search Networks | Status | Network Type | Tags | 14 networks

Name	Usage	Clients	Tags	WAN Appliances	Switches	Access Points	Cameras	Cellular Gateways	Sensors
Datacenter-CA	None	0	Datacenter, IPv6	1	—	—	—	—	—
London	23.01 GB	15	Branch, SecureConnect	1	4	3	2	2	4
San Francisco - AFC	None	0	—	—	—	3	—	—	—
San Francisco	95.66 GB	73	Campus	2	9	7	5	—	9
Secure Connect-Frankfurt	None	0	—	1	—	—	—	—	—
Secure Connect-London	None	0	—	1	—	—	—	—	—
Sydney - PhysicalSecurity	None	0	Retail	—	—	—	2	—	—
Sydney	8.78 GB	8	Retail, SJC-DC	1	1	2	—	1	1
Teleworker Blaise Pascal	1.56 GB	1	RTP-DC, Teleworker	1	—	—	—	—	—
Teleworker Elijah McCoy	6.08 GB	1	Teleworker	1	—	—	—	—	—
Teleworker Hedy Lamarr	1.41 GB	1	IPv6, Teleworker	1	—	—	—	—	—
Teleworker Louis Pasteur	2.00 GB	1	Teleworker	1	—	—	—	—	—
Teleworker Mary Anderson	None	0	mrOnly, Teleworker	—	—	1	—	—	—
Secure Connect	None	0	—	—	—	—	—	—	—

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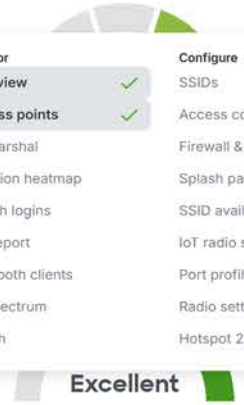
Access points

Wireless overview

Last 2 hours | All SSIDs | New

Connection health



Failed clients
3/5 No change

Time to connect
0.13 s 0.02 s
Expected < 5 s

Roaming
0.15 s 0.02 s
Expected < 3 s

Latency
13.9 ms 0.18 ms
Expected < 60 ms

Packet loss
12 % No change
Expected < 10%

Signal quality (SNR)
50 dB No change
Expected > 27 dB

Network service health

RADIUS success
0 % No change

DHCP success
100 % No change

DNS success
100 % No change

Client overview

AVG CLIENTS PER ACCESS POINT
1 No change

TOP FAILURE STEP
Auth (60%) No change

Usage overview

TOTAL USAGE
593 KB

TOP APPLICATION
DNS

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WAN health

Last 2 hours

0 Offline	0 Poor performance	0 High usage	13 Online

Search | 4 Status | Network tags | ISPs | Uplinks | Reset all | 22 Results | Download

Status	Network	Type	ISP	Availability	Downtime	Total usage	Average throughput	Speed test Beta	Loss	Average latency	Network tags	Notes	% Capacity	Jitter	Ping destination
●	San Francisco	WAN 1	sonic.net		0 s	↓ 402.91 MB, ↑ 368.31 MB	↓ 435.40 Kbps, ↑ 398.02 Kbps	Run speed test	0.00%	6.3 ms	Campus		↓ 0.04 %, ↑ 0.04 %	640 µs	8.8.8.8
●	San Francisco	WAN 2	sonic.net		0 s	↓ 13.61 MB, ↑ 12.35 MB	↓ 14.71 Kbps, ↑ 13.34 Kbps	Run speed test	0.00%	6.3 ms	Campus		↓ 0.00 %, ↑ 0.00 %	640 µs	8.8.8.8
●	London	WAN 1	sonic.net		0 s	↓ 79.80 MB, ↑ 129.10 MB	↓ 86.82 Kbps, ↑ 140.46 Kbps	Run speed test	0.00%	6.3 ms	Branch, SecureConnect		↓ 0.01 %, ↑ 0.01 %	660 µs	8.8.8.8
●	London	WAN 2	Unknown		0 s	↓ 45.34 MB, ↑ 5.86 MB	↓ 49.33 Kbps, ↑ 6.38 Kbps	Run speed test	0.00%	28 ms	Branch, SecureConnect		↓ 0.00 %, ↑ 0.00 %	8.0 ms	8.8.8.8
●	Teleworker Hedy Lamarr	WAN 1	sonic.net		0 s	↓ 10.40 MB, ↑ 9.31 MB	↓ 11.41 Kbps, ↑ 10.22 Kbps	Run speed test	0.00%	6.9 ms	IPv6, Teleworker		—	800 µs	8.8.8.8
●	Teleworker Hedy Lamarr	cellular	Unknown		-	—	—	Run speed test	—	—	IPv6, Teleworker		—	—	
●	Teleworker Louis Pasteur	WAN 1	sonic.net		0 s	↓ 13.46 MB, ↑ 14.17 MB	↓ 14.73 Kbps, ↑ 15.51 Kbps	Run speed test	0.00%	6.8 ms	Teleworker		↓ 0.01 %, ↑ 0.01 %	740 µs	8.8.8.8
●	Teleworker Elijah McCoy	WAN 1	sonic.net		0 s	↓ 113.56 MB, ↑ 13.98 MB	↓ 124.06 Kbps, ↑ 15.27 Kbps	Run speed test	0.00%	6.9 ms	Teleworker		↓ 0.06 %, ↑ 0.01 %	800 µs	8.8.8.8
●	Teleworker Blaise Pascal	WAN 1	Unknown		0 s	↓ 18.64 MB, ↑ 15.38 MB	↓ 20.25 Kbps, ↑ 16.71 Kbps	Run speed test	0.57%	16 ms	RTP-DC, Teleworker		↓ 0.01 %, ↑ 0.01 %	12 ms	8.8.8.8
●	Sydney	WAN 1	Unknown		0 s	↓ 245.47 MB, ↑ 50.13 MB	↓ 267.21 Kbps, ↑ 54.57 Kbps	Run speed test	0.01%	2.6 ms	Retail, SJC-DC		↓ 0.25 %, ↑ 0.05 %	240 µs	8.8.8.8

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