

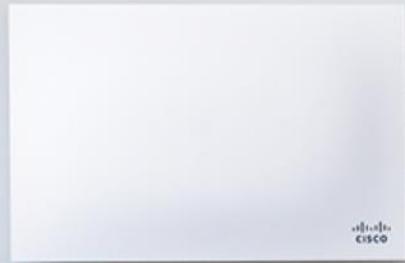
# BIG UNIVERSITY 2019



PROTECTING YOUR WORKFORCE SESSIONS

# LAYER 7 SWITCHING

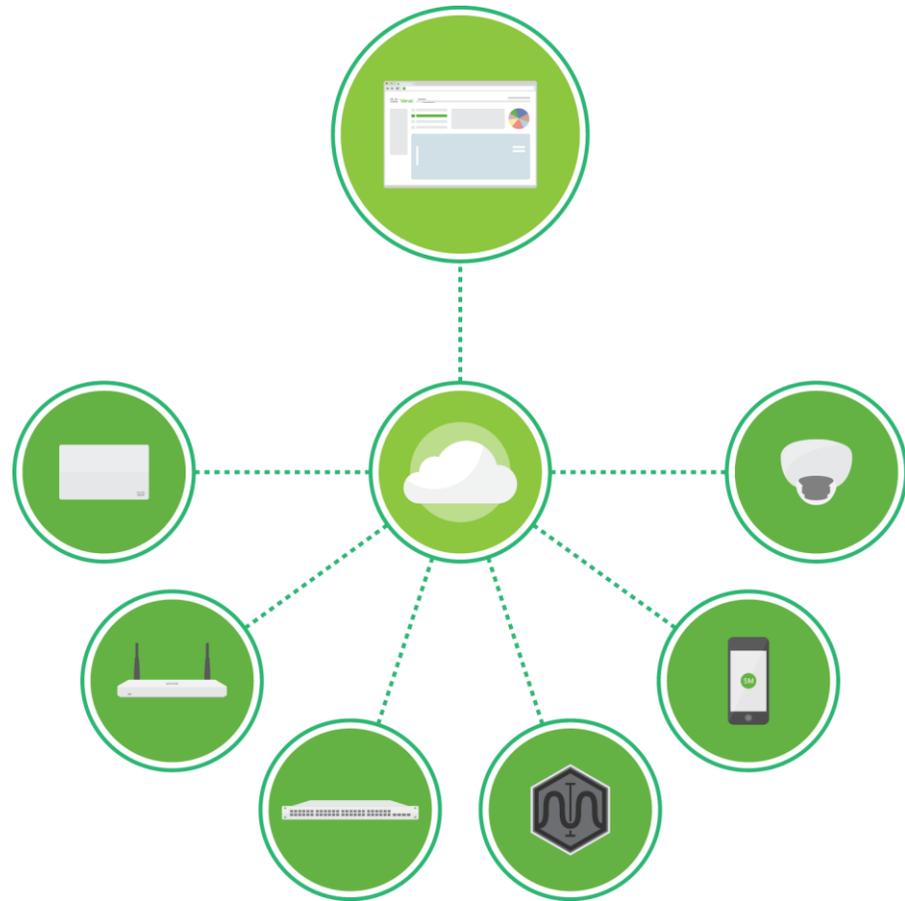




# Meraki Switching and Security

Jeff Hunt

# Simplifying IT with Cloud Management



## A complete cloud-managed IT solution

Wireless, switching, security, SD-WAN, communications, unified endpoint management (UEM), and security cameras

Integrated hardware, software, and cloud services

## Leader in cloud-managed IT

Among Cisco's fastest growing portfolios

**250k+**

Unique customers

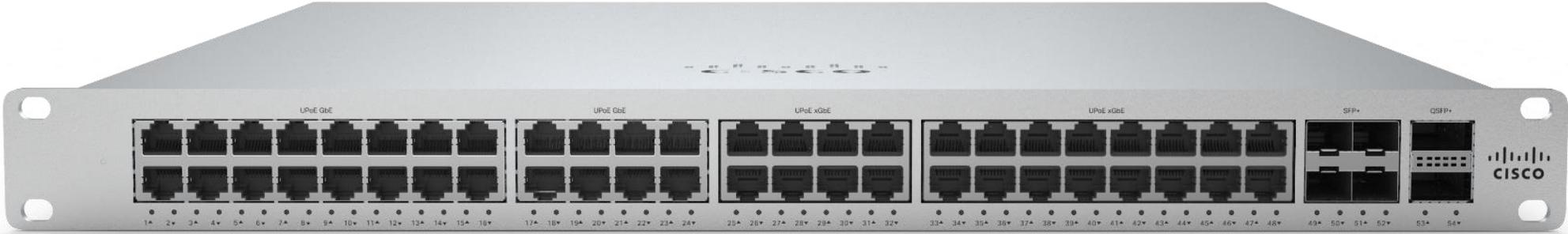
**3.5M+**

Meraki devices  
online

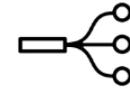
**5.5M+**

Active Meraki  
dashboard users

# Cisco Meraki MS switches



# MS switches



## Feature highlights

Voice and video QoS

Layer 7 app visibility

Virtual and physical stacking

Dynamic routing

Enterprise security

Introducing cloud managed physical stacking, multigigabit performance, and UPoE power to the campus network

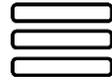
6 families scaling from access to campus aggregation at Layer 2 or Layer 3

# Simple to provision and manage at scale



## Multigigabit Ethernet

Provide the higher performance demanded by the latest access points over existing cabling.



## Virtual Stacking

Simultaneously configure thousands of ports across standalone and physically stacked switches, regardless of location.



## Layer 7 Visibility

Meraki switches make it easy to understand how valuable network resources are being used.



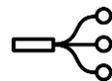
## Layer 3 Scalability

Build large, resilient networks using dynamic routing protocols and warm spare technology.



## Voice & Video QoS

Give latency sensitive applications the priority and bandwidth they deserve with configurable QoS.



## Network Topology

View the network in real-time, showing devices and their connections and even monitor network-wide health.



## Remote Live Tools

Powerful tools for identifying and correcting issues, even from thousands of miles away.



## Enterprise Security

Protect the wired network from both external and internal threats.

# Cisco Meraki MX security & SD-WAN

Scaling from teleworker and small branch to campus / datacenter



# Complete, robust feature set right out of the box



## Identity-Based Firewall

Automatically assigns firewall and traffic shaping rules, VLAN tags, and bandwidth limits to enforce the right policies for each class of users.



## Intrusion Prevention

Protects critical network resources from the latest security threats and vulnerabilities.



## Auto VPN

Securely connects branch locations using mesh or hub-and-spoke topologies. Provides simple VPN access into Amazon Web Services and Microsoft Azure.



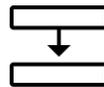
## Content Filtering

Block undesirable web content across 70+ categories, and leverage cloud lookups to filter billions of URLs.



## Advanced Malware Protection

Protect your network against malware using the latest threat intelligence, and identify previously unknown malicious files with retrospective detection.



## High Availability & Failover

Provides device and connection integrity through multiple uplinks, warm spare failover, and self-healing VPN.



## Application Visibility & Control

Identify which applications are being used, and then prioritize critical apps while limiting recreational apps.

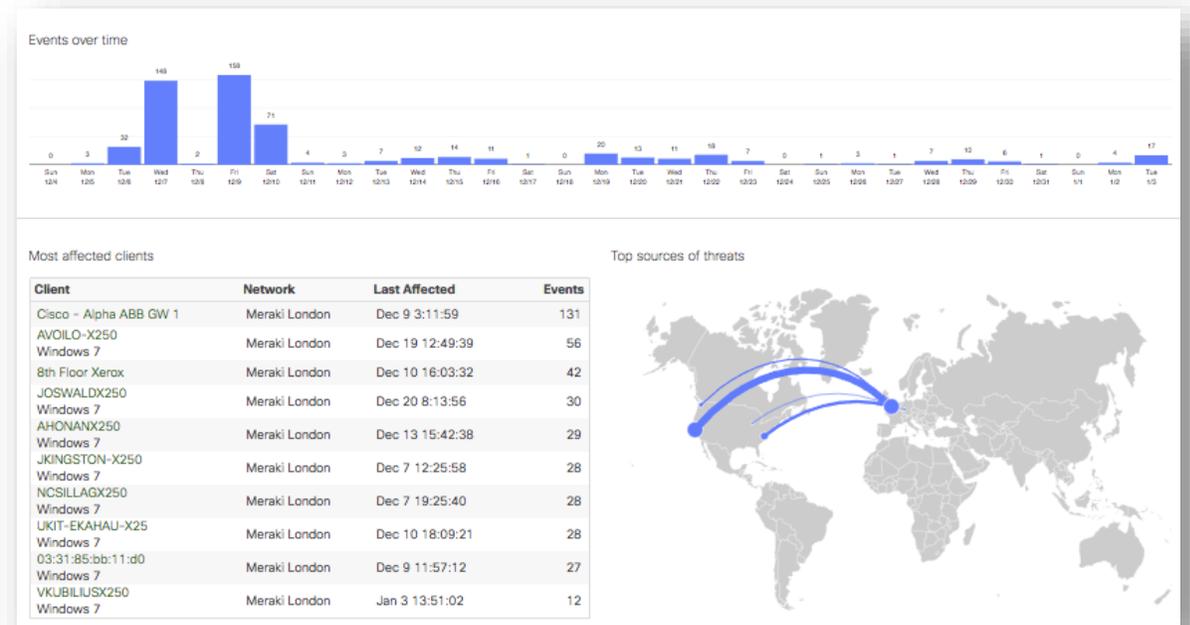


## Centralized Management

Seamlessly manage campus-wide WiFi deployments and distributed multi-site networks from a single pane-of-glass.

# Ironclad security

<b>Next Generation Firewall</b>	Application aware firewalling
<b>Intrusion Prevention (IPS)</b>	Based on Cisco Snort
<b>URL Content Filtering</b>	With over 80 categories and over 4 billion categorized URLs
<b>Geo Based Security</b>	Allow or block traffic by country
<b>Malware Protection</b>	Cisco AMP and Threat Grid
<b>Automatic Updates</b>	Software and security updates delivered from the cloud.
<b>PCI Compliance</b>	PCI 3.2 certified cloud management backend



# Reliable, cost effective connectivity with Meraki SD-WAN

**Dual uplink ports**

2 uplink support on all MX models for load balancing and redundancy

**LTE failover**

Integrated LTE modem, as well as USB modem support with automatic failover

**Site to site VPN**

Cloud orchestrated VPN (Meraki Auto VPN) with load balancing and self-healing capabilities

**Intelligent path control**

Policy based routing and performance based dynamic path selection

**Branch Routing**

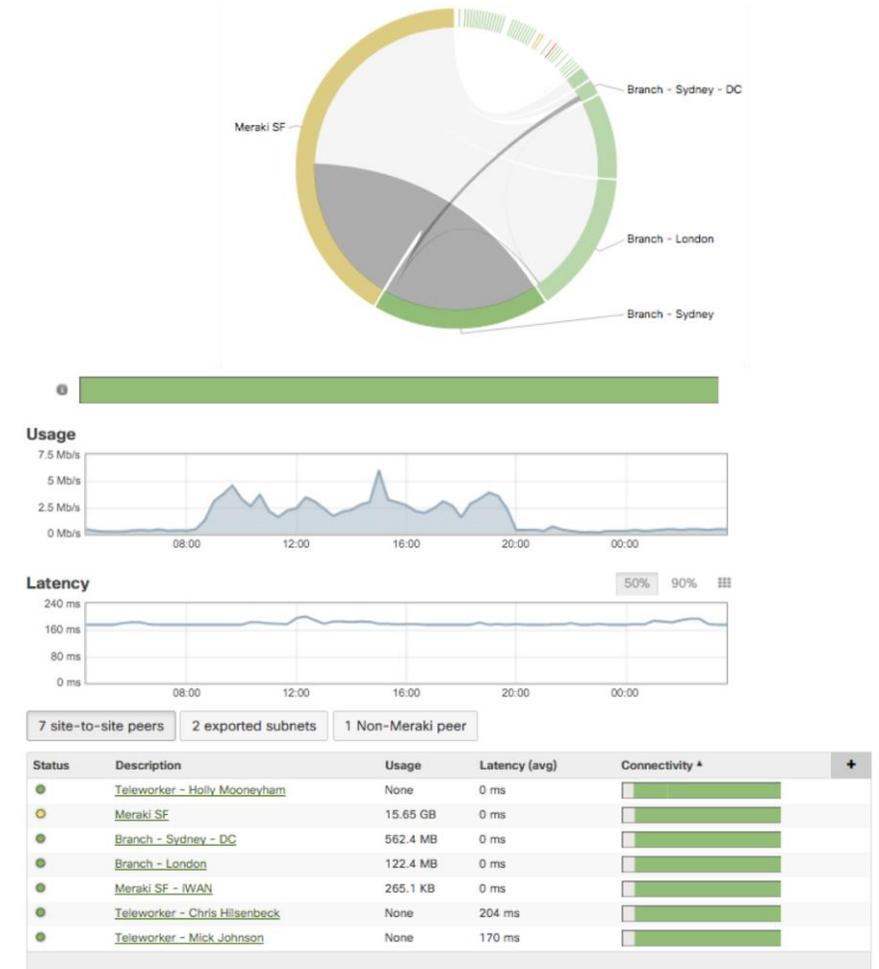
Automatic route distribution via Auto VPN  
OSPF route advertisement  
BGP support coming soon

**High Availability**

Active/passive hardware redundancy

**Traffic shaping**

Application bandwidth limiting and prioritization



# Traffic monitoring and analytics

View bandwidth usage by application or by client

Highlight an application or a client to see their portion of total network bandwidth

See a client's active time for specific applications

Easily create policies to limit bandwidth for problematic users or applications

