cisco



Exploring Security & SD-WAN with Meraki MX

Cisco Meraki Cloud Networking Series

Speaker: Tony Carmichael

Hostess: Kara Sullivan | Cisco Networking Academy

11 October 2017

Welcome to the 4th session of the Cisco Meraki Cloud Networking webinar series

- Use the Q and A panel to ask questions.
- Use the Chat panel to communicate with attendees and panelists.
- A link to a recording of the session will be sent to all registered attendees.
- Please take the feedback survey at the end of the webinar.

Cisco Meraki Cloud Networking Series

PREVIOUS SESSIONS:

- Intro to Cloud Networking using Meraki
- Exploring Meraki Cloud Switching & Wireless
- Exploring Meraki Cloud Telephony & Vision

Access at: http://bit.ly/MerakiWebinars



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Exploring Security and SD-WAN with Meraki MX

Simple, effective security and WAN Management



Agenda

Welcome & Introduction

Why choose Meraki?

Product demo

Product families

Careers at Meraki

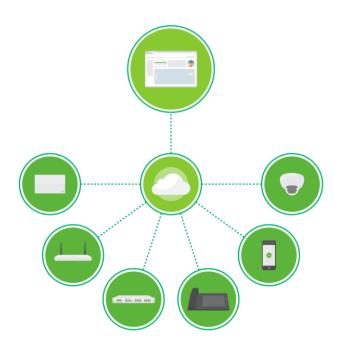
Q&A



About the Cisco Meraki MX



Simplifying IT with cloud management



A complete cloud managed IT solution

Wireless, switching, security, SD-WAN, communications, EMM, and security cameras
Integrated hardware, software, and cloud services

Leader in cloud managed IT

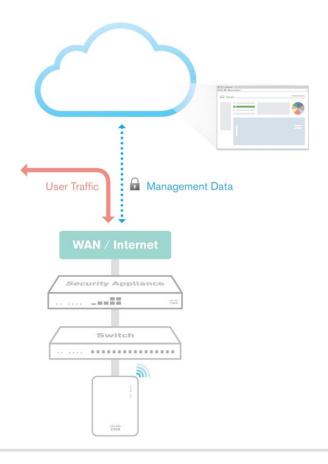
Among Cisco's fastest growing portfolios

Over 140,000 unique customers

Over 2 million Meraki network devices online

Benefits of a cloud managed solution



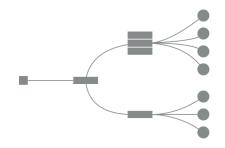


A complete connectivity and threat management solution



Security

Next generation firewall
AES encrypted VPN
Intrusion prevention
(IPS)
Malware protection
Geo-IP firewalling



Networking

3G / 4G failover
Branch routing
WAN balancing and
failover
High Availability
Intelligent path control

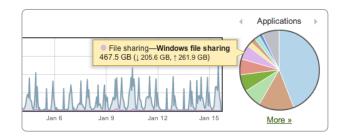


Application Control
Bandwidth shaping
URL content filtering
Quality of Service
control

Why customers choose the Cisco Meraki MX







Powerful security that's easy to implement

- Robust suite of Cisco Security technologies
- Intuitive GUI-based configuration
- Seamless updates from the cloud

Exceptional scalability

- Zero-touch provisioning with cloud brokered VPN
- Easy centralized management with built-in remote troubleshooting tools
- Multi-location configuration templates

Industry-leading visibility

- Fingerprints users, applications, devices, and threats
- Monitor one location or an entire deployment
- Unified monitoring and reporting with other Cisco Meraki technologies



Security made simple



Ironclad security

Next Generation Firewall Application aware firewalling

Intrusion Prevention (IPS)

Based on Cisco Snort

URL Content Filtering

With over 80 categories and over 4 billion categorized URLs

Geo-based security

Allow or block traffic by country

Malware Protection

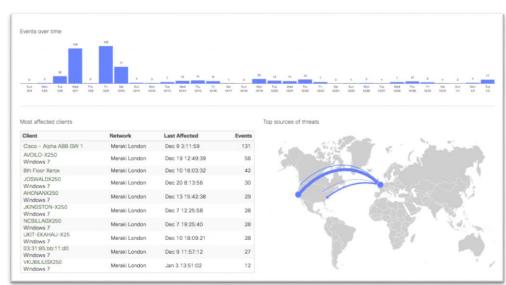
Cisco AMP and Threat Grid

Automatic updates

Software and security updates delivered from the cloud

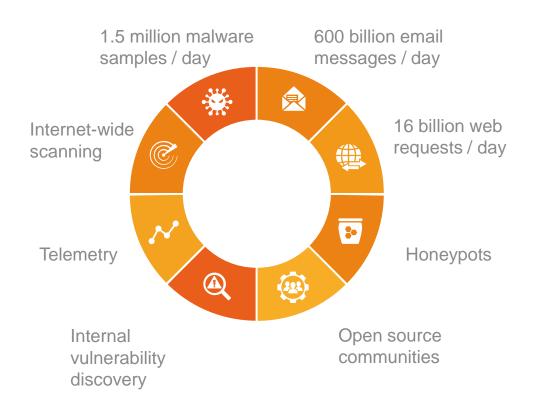
PCI compliance

PCI 3.2 certified cloud management backend





Backed by Cisco Talos threat intelligence





Advanced Malware Protection for Meraki MX



Enhanced Threat

Defense
Automatic protection against
an ever-growing list of known
malicious files, plus malware
sandboxing with Threat Grid



Contextual

Visibility
Security Center makes it
easy to ensure you have the
latest information about
attacks on your network



Rapid

DetectionAutomatic alerting when a downloaded file is found to be malicious after the fact

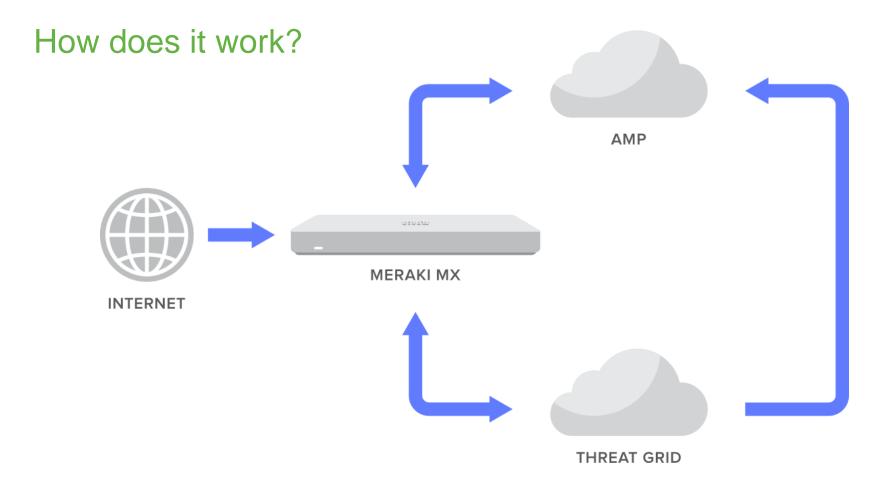


Ease of Management

Enable best-in-class malware protection with just two clicks

- 220 million known malicious files
- 407 million known clean files
- 1.5 million new incoming malware samples per day
- **1.6 million** devices using AMP globally
- 3.1 billion lookup requests per day





Connectivity and SD-WAN



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 USB modem support in all models 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

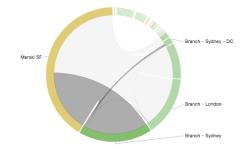
Automatic route distribution via Auto VPN

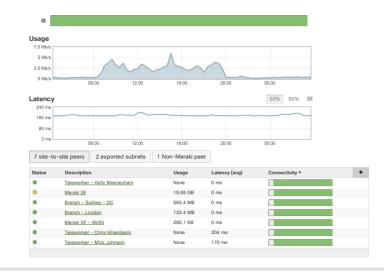
Branch Routing OSPF route advertisement

OSPF route advertisement BGP support coming soon

High Availability Active/passive hardware redundancy

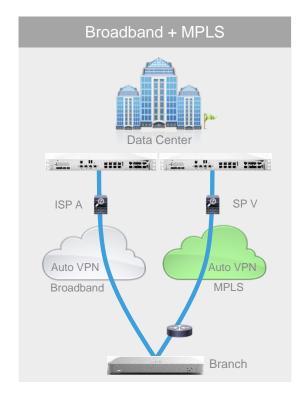
Traffic shaping Application bandwidth limiting and prioritization

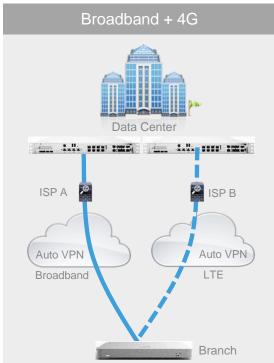


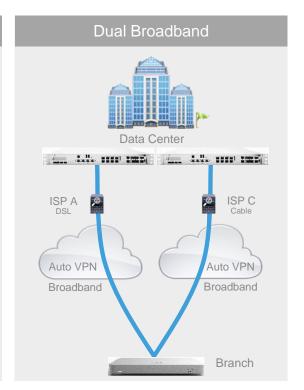




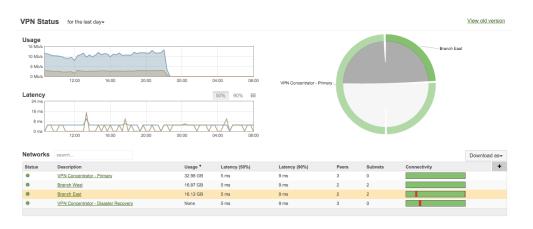
Connections that fit your business and location needs







Automated site-to-site VPN (Auto VPN)



Simple Create VPN tunnels between locations with easy point-and-click interface, or apply configuration templates to enable and configure VPN at many locations at once

Automatic VPN configuration generated and deployed automatically from the cloud – create a mesh or hub-and-spoke topology with only a few clicks

Automatically adjusts to changes in order to maintain secure connectivity during an ISP or datacenter outage, hardware failure, or IP address update



Resilient

Application-aware intelligent path control

Dual active VPN

Load balance your VPN traffic over your hybrid WAN

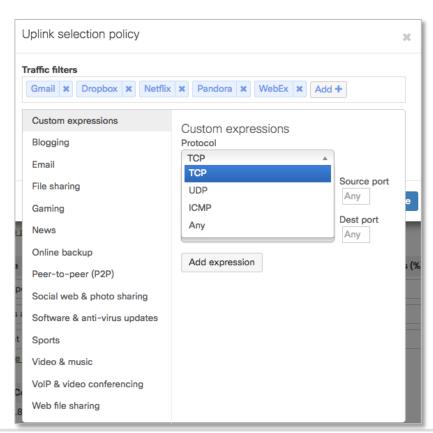
Policy based routing

Select the preferred path for traffic based on protocol, port, source and destination IP, or even application

Dynamic Path Selection

Select the best VPN tunnel for traffic automatically based on performance

The <u>only</u> solution to combine cutting edge SD-WAN with industry leading security technology

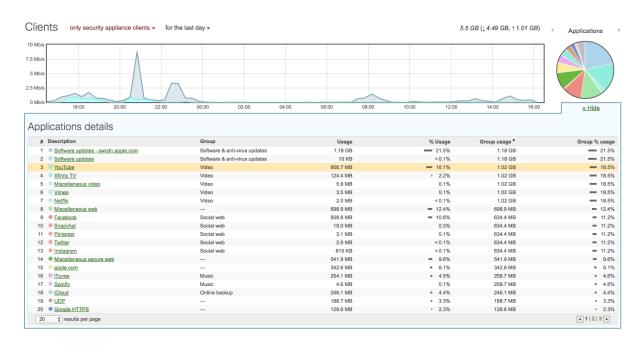


In-depth visibility



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



URL logging

- See complete web browsing history
- Smart search to find the specific information you need
- Active Directory integration for user identification
- See data for one location or across all locations
- Export log data for aggregation if needed



VPN health, bandwidth, and performance monitoring

Meraki San Francisco -

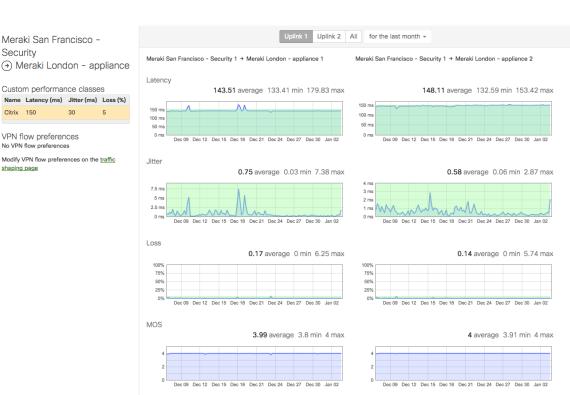
Custom performance classes

VPN flow preferences

No VPN flow preferences

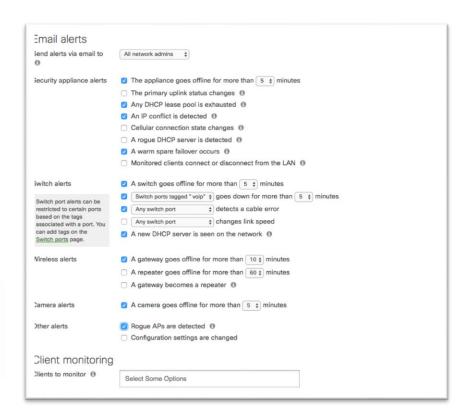
Security

- See VPN connection status between locations
- Monitor VPN bandwidth usage
- Track performance of VPN tunnels using built-in loss, latency, jitter, and MOS voice score reporting
- Live updating log of traffic flows and path decisions
- Compare historical performance to configured performance policies



Email alerts from the cloud

- Fully integrated alerting no need for an email server
- Customizable alerting only get emails about the things you need to know about
- Get alerts if critical network clients go offline
- Configure alerting for all Cisco Meraki devices in one simple interface
- Send alerts to network administrators or custom recipients



Demo



Customer case studies



Case study: Peet's Coffee & Tea





Artisan coffee roaster and specialty tea retailer, founded 1966 in Berkeley, CA

193 locations, ~4,000 employees

Branches using AutoVPN for site-to-site connectivity and control

Client monitoring, traffic analytics, Live Tools give complete visibility

Centralized control via Meraki dashboard dramatically reduces IT support load

Case study: Kindred Healthcare



Dedicated to Hope, Healing and Recovery



Largest diversified provider of post-acute care services in the United States

2000+ locations in 46 states, 75,000+ staff

Use 3G/4G uplinks to service branch locations when no broadband available

HIPAA compliant architecture

Layer 7 firewall, traffic shaping, and content filtering blocks peer-to-peer traffic and controls users and devices

MX Product Portfolio



Licensing that fits the business' needs



Enterprise License

Next Generation Firewall

Site-to-site and client VPN

Intelligent path control

Link bonding and failover

Bandwidth shaping and QoS

Branch routing

Web caching

Active/Passive high availability



Advanced Security License

All enterprise features, plus

Content filtering (with Google SafeSearch enforcement)

Cisco Advanced Malware Protection

Snort IDS/IPS

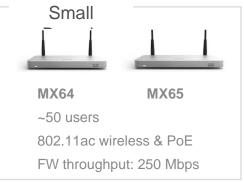
Threat Grid integration*

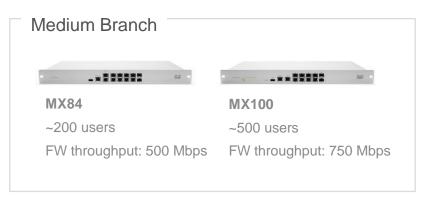
Geo-based firewall rules

*additional Threat Grid subscription required

MX Portfolio – Fall 2017















The Meraki Full Stack



MR Wireless



MX Security and WAN



MS Switching





MC IP Telephony



MV Security Cameras

A complete cloud managed IT portfolio Single pane of glass management

Technical Careers at Cisco Meraki

Sales

Systems

Engineering

Solution

Architecture

Engineering

UX/UI

Firmware

Hardware

Marketing

Product Marketing

Webmaster

Product Management

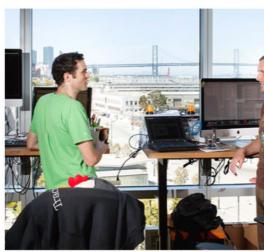
Product Specialist

Product Manager









Thank you

Q&A



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