

cisco Meraki



Simple, Secure, Optimized Connectivity





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919,831 918,831

39,912

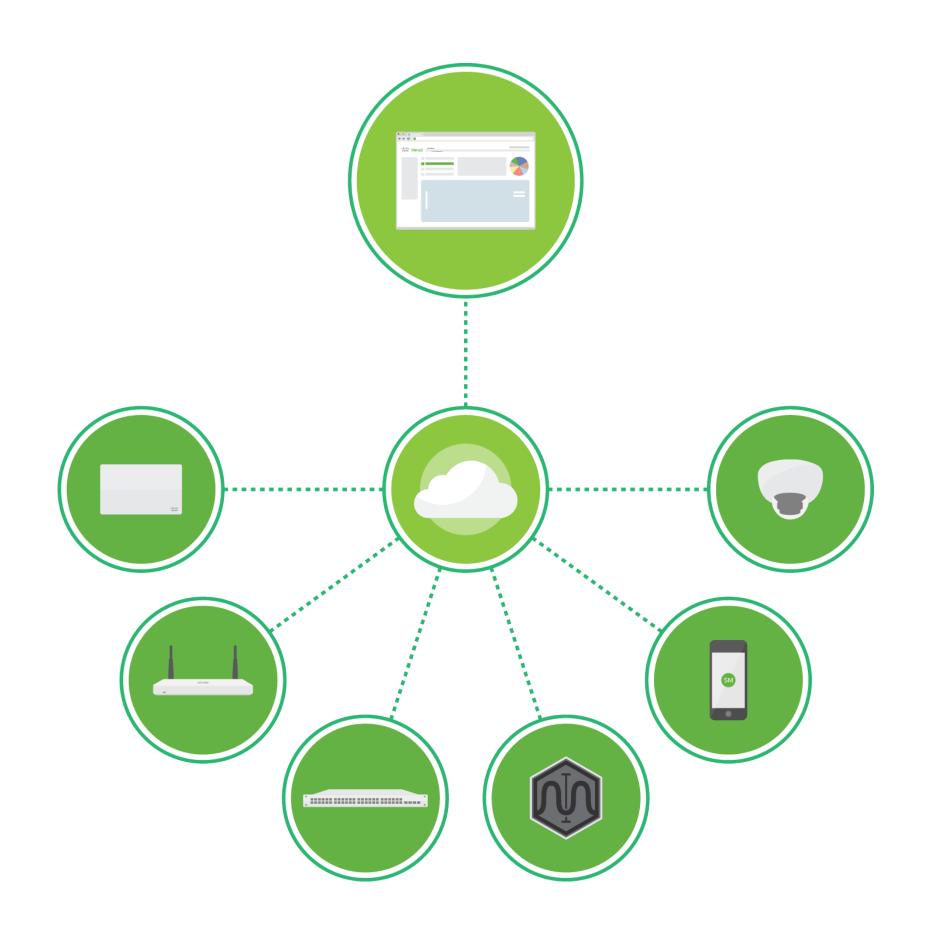
About Meraki

Simplifying powerful technology to free passionate people to focus on their mission

TECHNOLOGY THAT SIMPLY WORKS



Simplifying across IT with Cloud Management



A complete cloud managed IT solution

Wireless, switching, security, SD-WAN, intelligent network insights, endpoint management, and security cameras

Integrated hardware, software, and cloud services

Leader in cloud-managed IT

Among Cisco's fastest growing portfolios

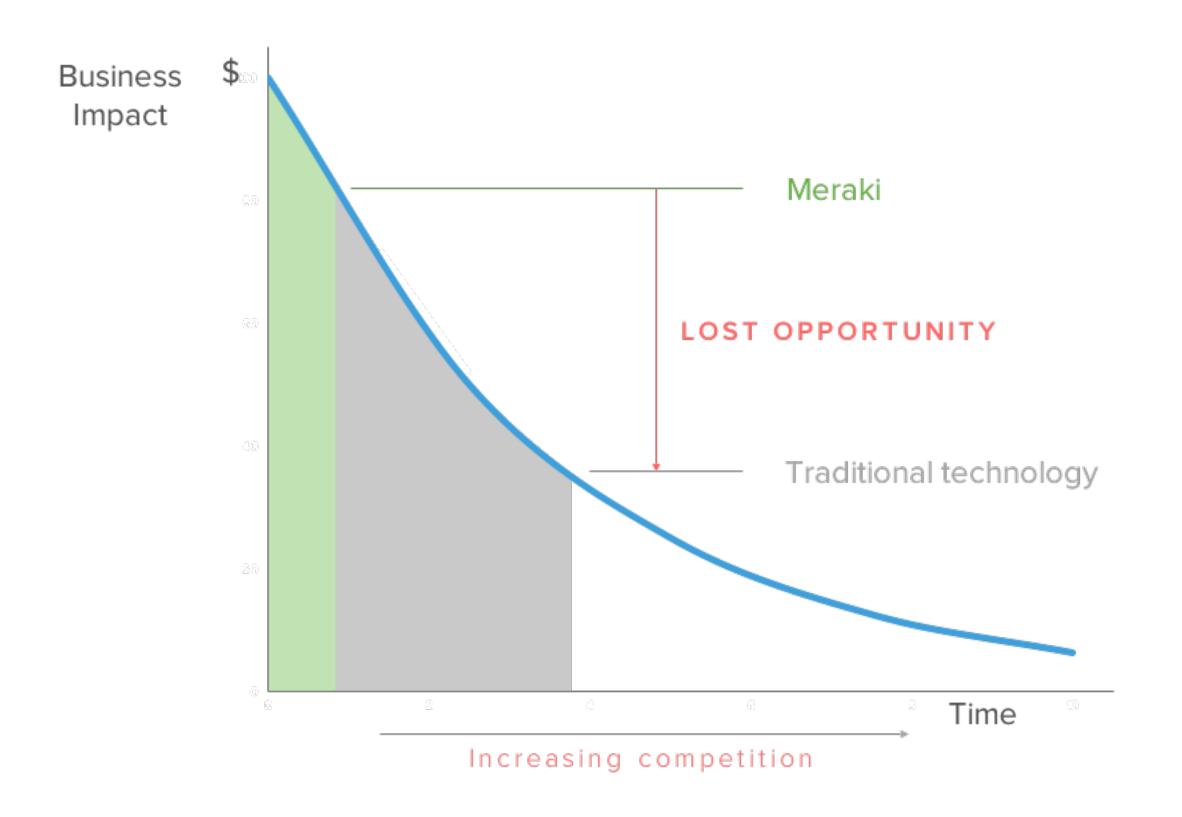
350k+
Unique customers

4.5M+
Meraki devices
online

23M+
API calls
per day



Disrupt or be Disrupted



Organizations of every size and industry risk fundamental disruption because of new technologies, new players, and new ways of doing business

The business impact of a new (digital) initiative will diminish over time as more competitors enter the space

Organizations that are the first to apply a new digital initiative will capture the lion's share of the opportunity

Meraki cloud managed IT devices allow businesses to rapidly lay a digital foundation to roll out a digital initiative to







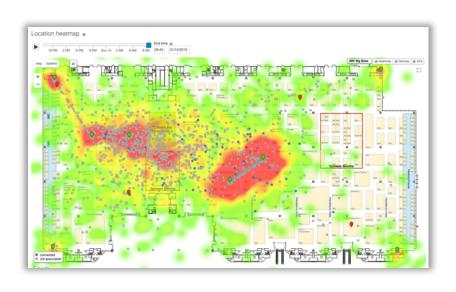
Beat the competition to implement digital initiatives

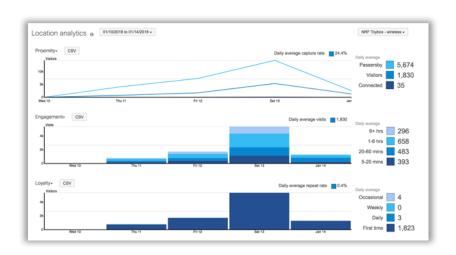
Futureproof with Immediate Impact

OPTIMIZED WITH BUILT-IN ANALYTICS

90%

Typical customers save in the region of 90% on operating costs with Meraki compared to traditional architectures



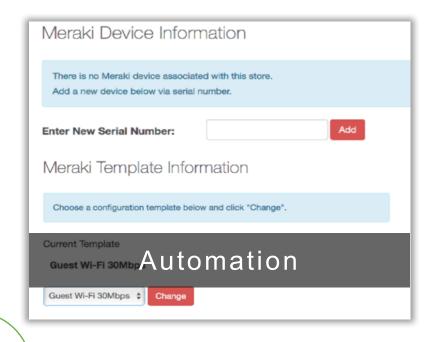


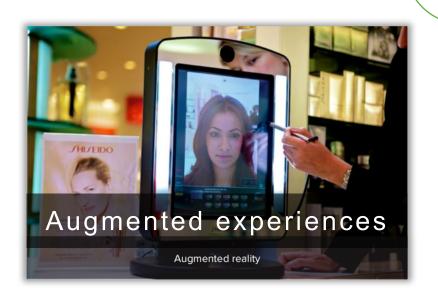
Explore Meraki total cost of ownership at meraki.cisco.com/TCO

THE FUTURE BUILT-IN

API









Explore Meraki API solutions at create.meraki.io/solutions

The SD-WAN Rocket Ship

Business SaaS Trends









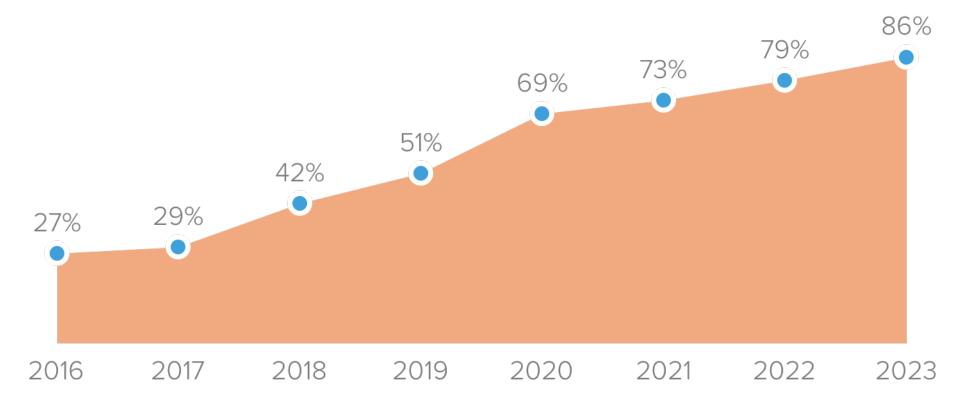


AVG. NUMBER OF SaaS APPS PER ORGANIZATION



[Source: BetterCloud 2017 State of the SaaS-Powered Workplace]

PERCENTAGE OF ENTERPRISES ESTIMATING WHEN 80% OF THEIR BUSINESS APPS WILL BE SaaS

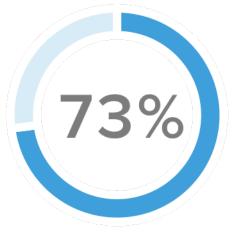


[Source: BetterCloud 2017 State of the SaaS-Powered Workplace]

SaaS SPENDING FORECAST, 2016 – 2020

Global SaaS spending is forecast to increase by INCREASE over 95% to \$75.7B

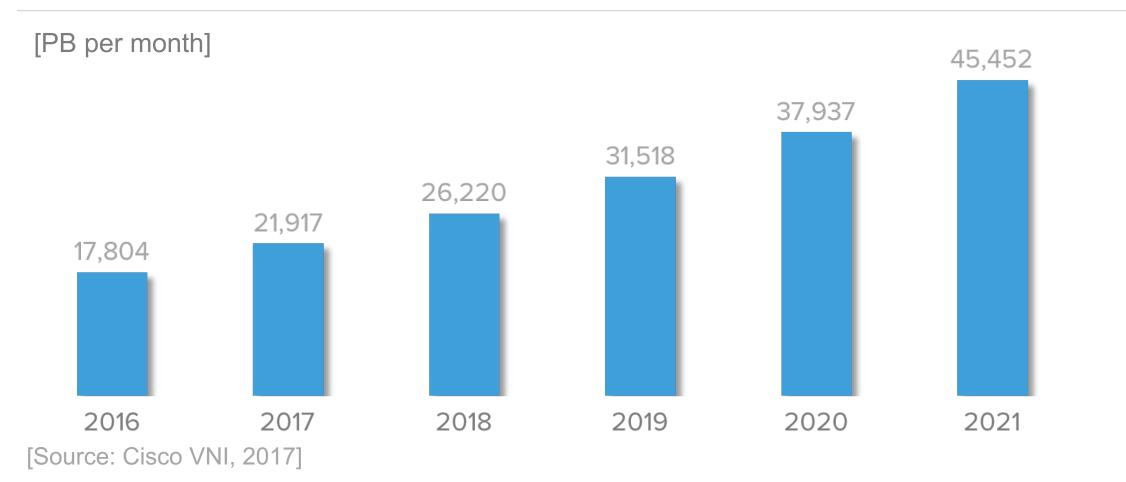
[Source: Gartner, 2017]



Percentage of enterprises (1,000+ employees) estimating the majority of their apps will be SaaS by 2021

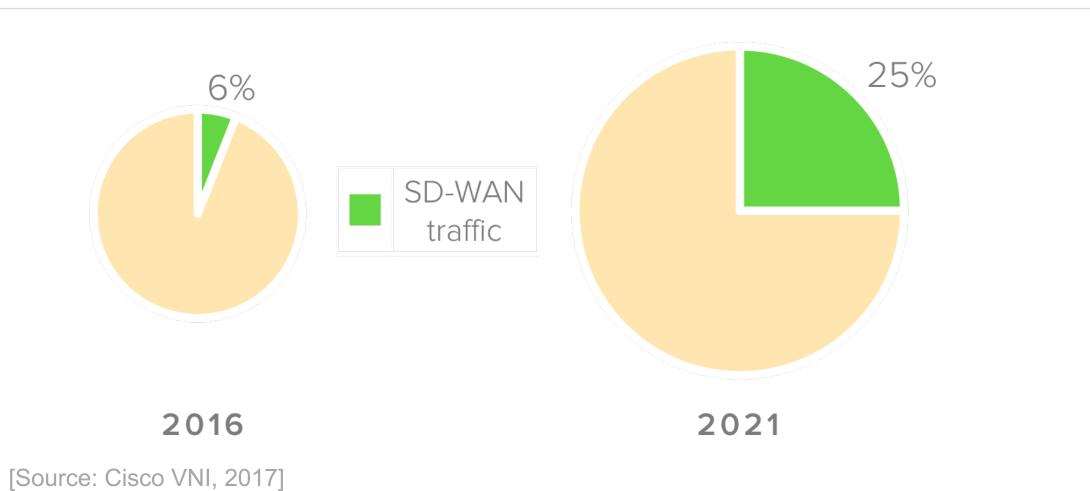
Business Traffic

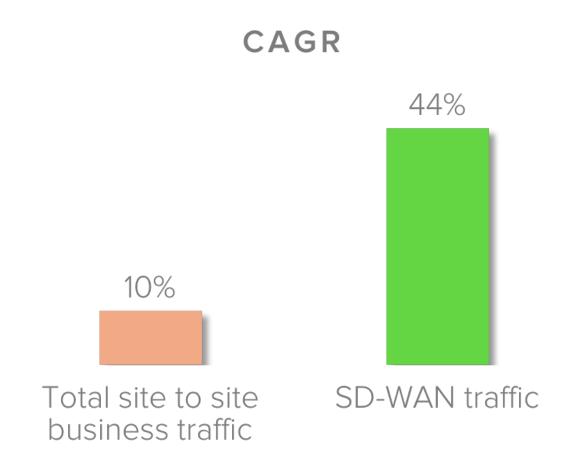
GLOBAL BUSINESS IP TRAFFIC



Globally, Business IP traffic is predicted to grow 3-fold from 2016 to 2021 at a compound annual growth rate of 21%

GLOBAL SITE-TO-SITE BUSINESS TRAFFIC





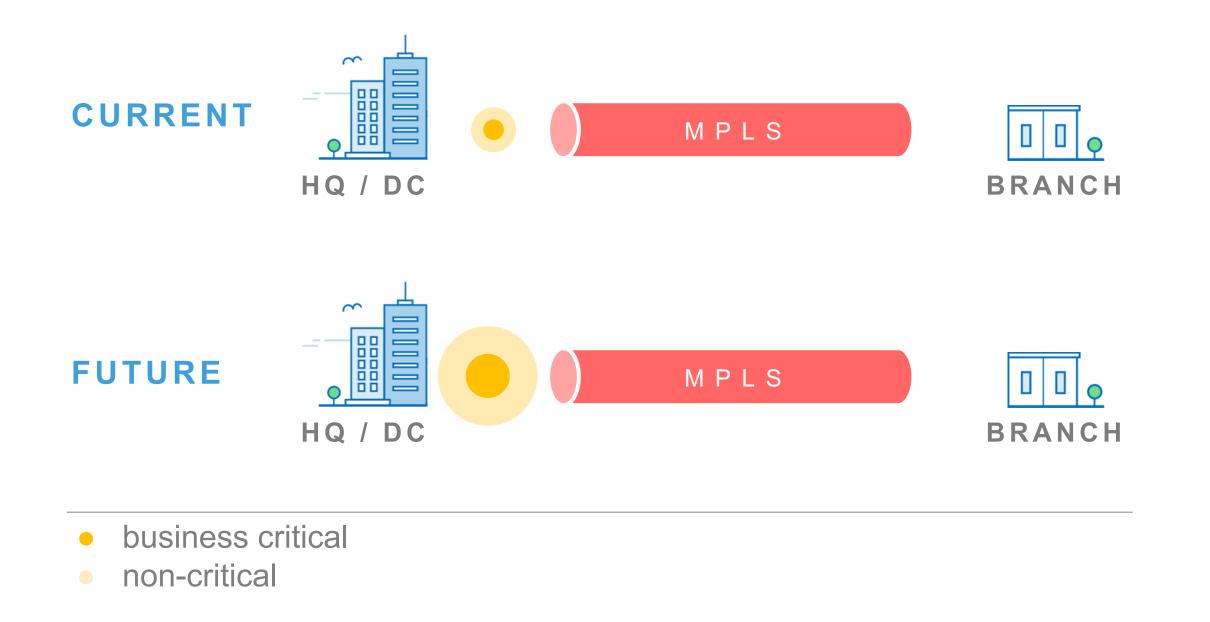
2.5x

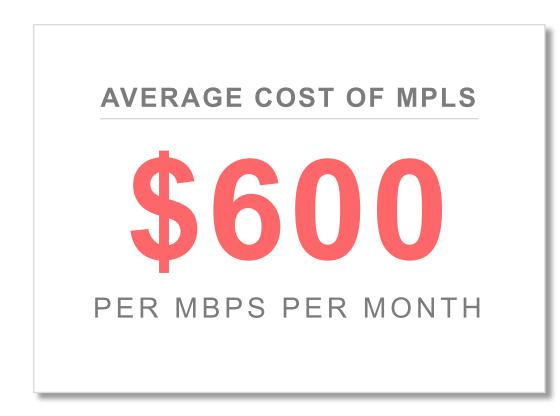
Global SD-WAN traffic growth outpaces site-to-site business traffic growth

21% CAGR



Strained Premium WAN Links



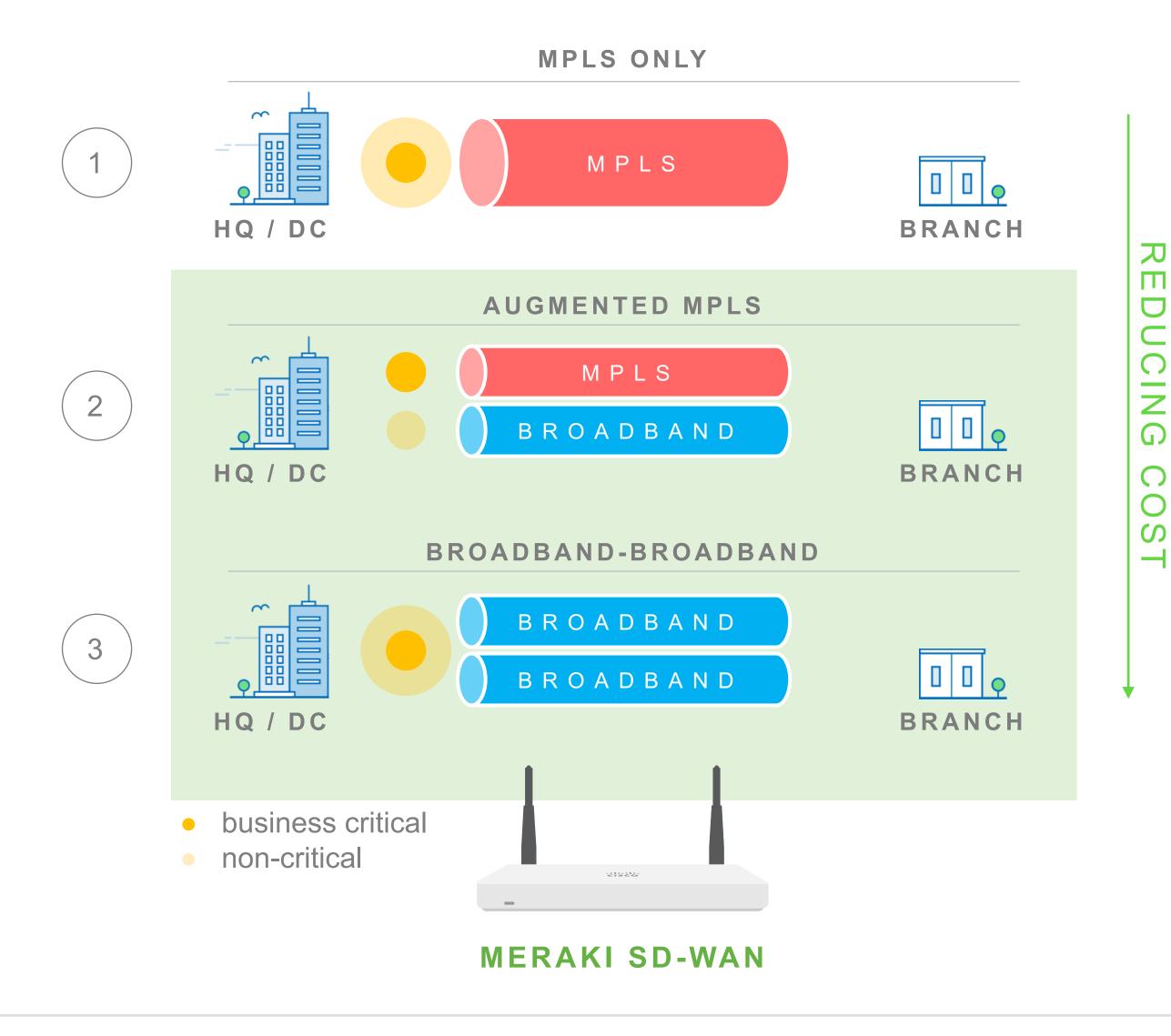


[Source: Network World, Next-Generation Enterprise WANs, 2012]

Legacy premium WAN links are coming under increasing strain as a result of growing business SaaS and site-to-site traffic

Increasing the capacity of private WAN links is a cost prohibitive option for most organizations

Future WAN Options



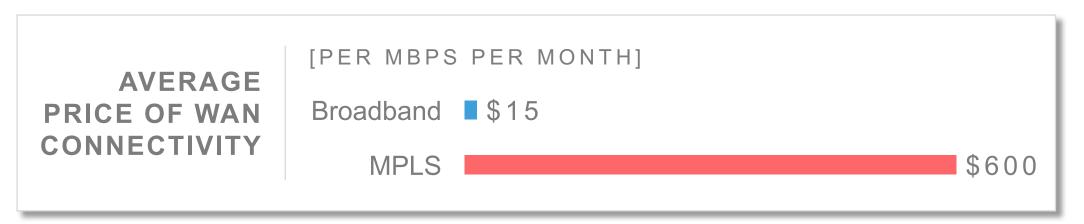
Increase the capacity of an existing MPLS network

Supplement an existing MPLS network with broadband for increased bandwidth

Offload critical traffic from MPLS to broadband with policy based routing dynamic path selection

Dual high speed broadband connections

Load balance business critical traffic based on policy or link performance



[Source: Network World, Next-Generation Enterprise WANs, 2012]

Meraki SD-WAN

Delivered by Powerful Hardware

Hardware highlights across all MX models

- *2 WAN ports
- 3G / 4G / LTE USB as single-WAN or failover
- Additional Ethernet ports with PoE/PoE+ options
- Models with embedded LTE modem
- High availability mode

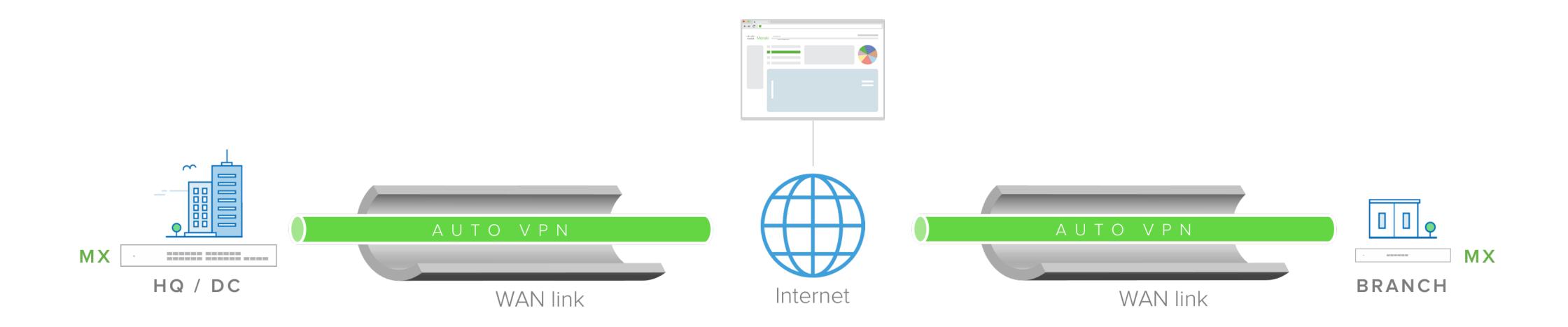


MERAKI MX SD-WAN & SECURITY APPLIANCES

AUTOMATIC WAN FAILOVER



Securely Built on Site-to-Site Auto VPN



Meraki Auto VPN

Automatically configured VPN parameters

Redundancy built-in

The ability to configure site-to-site, Layer 3 IPsec VPN tunnels in just two clicks in the Cisco Meraki dashboard over any WAN link

The Cisco Meraki dashboard uniquely acts as a broker between MXs in an organization, negotiating VPN routes, authentication and encryption protocols, and key exchange automatically to create hub-and-spoke or mesh VPN topologies

MXs with two uplinks will automatically self-heal to re-negotiate VPN tunnels if a primary uplink goes down

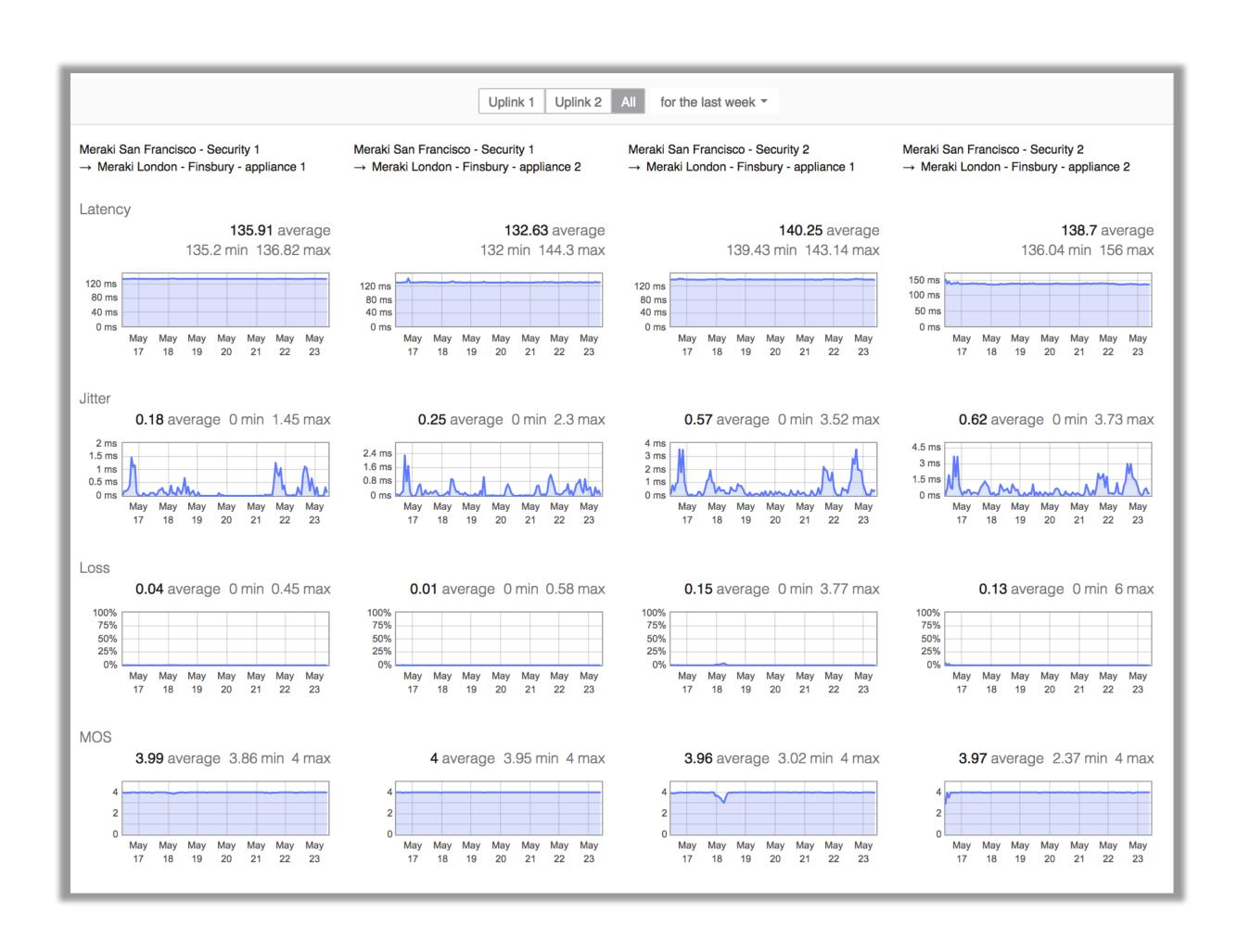


Driven by Real-Time VPN Performance Monitoring

Performance metrics of all site-to-site VPN routes are monitored and logged approx. every second

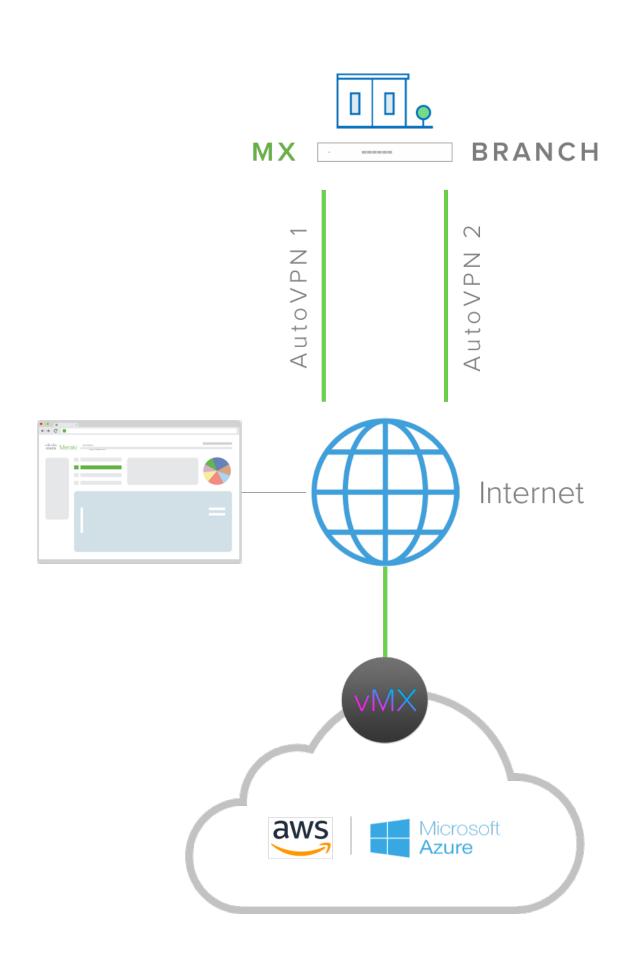
- Latency
- Jitter
- Loss
- MOS

This data is used to make intelligent decisions about WAN connectivity





Extension to Public Cloud Services



Extend MX deployments to IT services located in AWS or Microsoft Azure with site-to-site auto VPN to a virtual MX (vMX)

Leverage SD-WAN on vMX the same way as a physical MX for optimal path selection to IT services hosted in AWS or Azure

vMX is managed just like any other physical MX in the dashboard once deployed on an AWS EC2 instance or an Azure VM

Up to 500Mbps VPN throughput

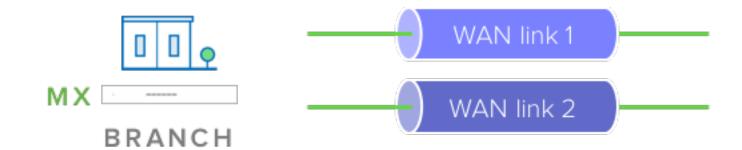
Only license required



Smart WAN Paths to Suit Your Business

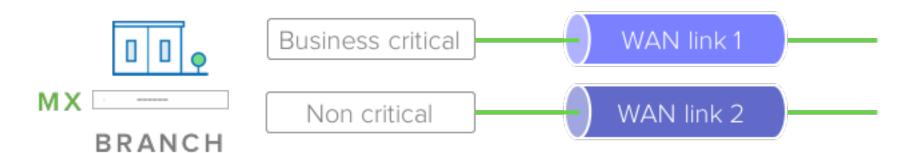
Dual active VPN

Load balance your VPN traffic over two WAN links



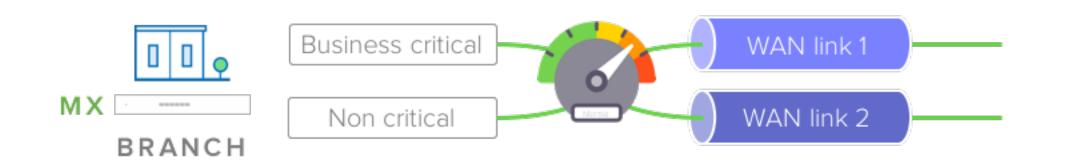
Policy-based Routing (PbR)

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



Dynamic path selection

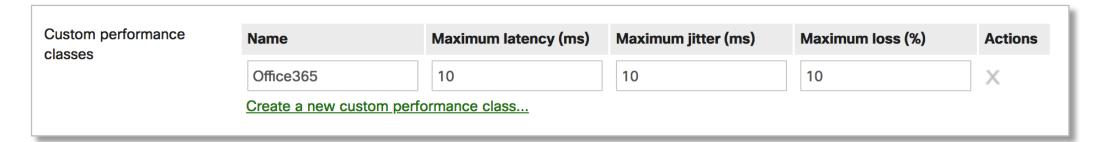
Select the best VPN tunnel for traffic automatically based on performance



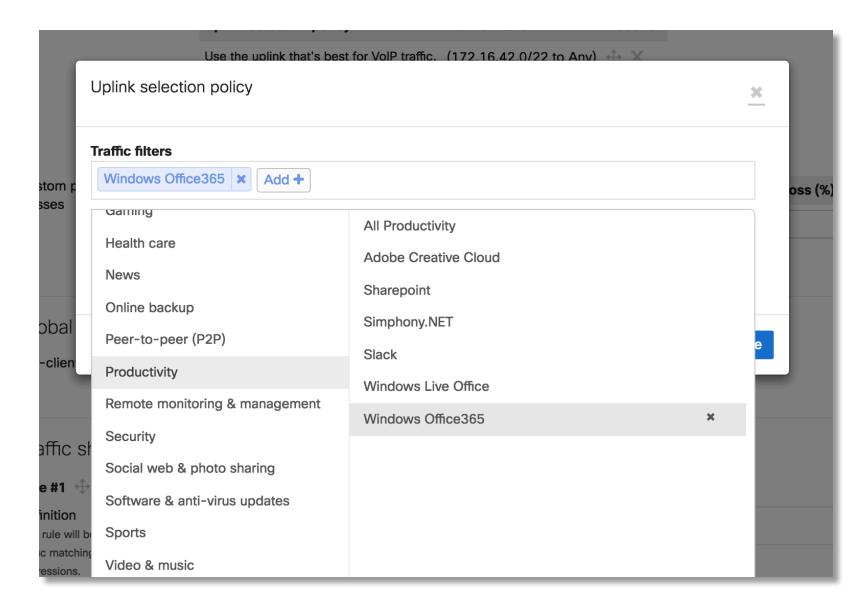
Auto VPN tunnels

Simply Express Intent

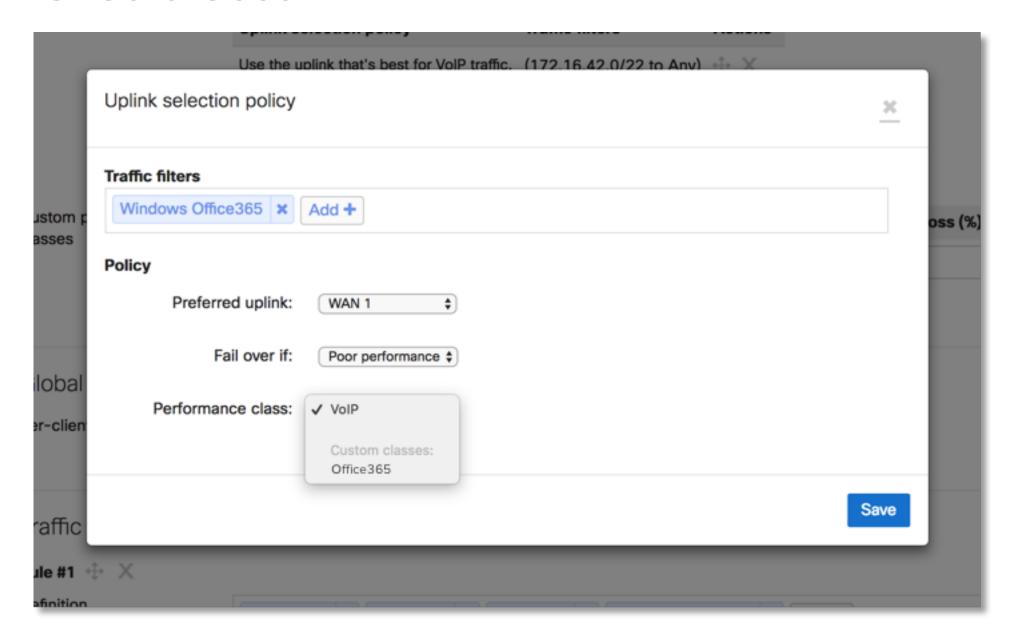
1. Define acceptable performance thresholds



2. Select from built-in Layer-7 categories and applications



3. Choose preferred uplink and when fail over should occur



Tell the network what you want to accomplish, not what to do and how to do it

Simple, All-Inclusive Licensing



1:1 ratio of licensing and hardware

1, 3, 5, 7, and 10 year durations available

Centralized management with network-wide visibility and remote troubleshooting tools

Over-the-web firmware and security updates

24/7 enterprise support and warranty

All features included as standard, no per-feature licensing



MX Appliance Licensing



Enterprise License

Full SD-WAN feature set and functionality

Site-to-site Auto VPN

Branch routing

Link bonding and failover

Application control

Web caching

Client VPN

Stateful firewall



Advanced Security License

All enterprise features, plus:

BrightCloud content filtering (with Google SafeSearch)

Cisco Advanced Malware Protection

Snort IPS / IDS

Geo-IP based firewall rules

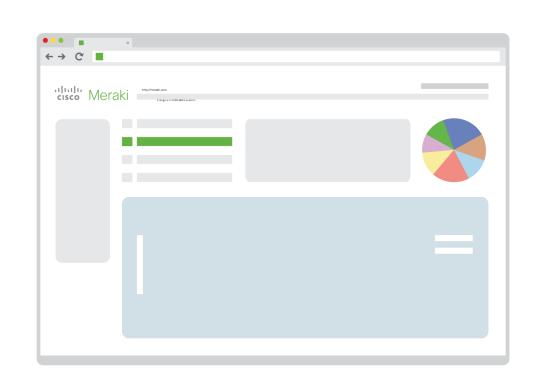
[Note: No license required for HA MX Appliance]



Demo

Why Meraki SD-WAN

Zero Touch Provisioning









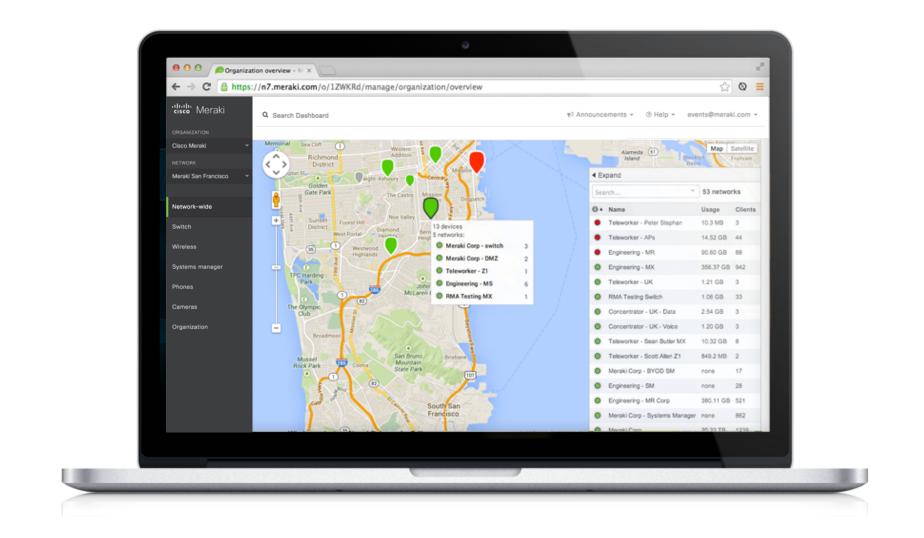


One-time remote, webbased configuration Configuration templates simplify large multi-site deployments No pre-staging
No onsite configuration

Unbox and plug in MX appliances at required locations



Centralized Management





MANAGEABILITY

SCALABILITY

COST SAVINGS

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



Future Proofed Initial Investment



Over-the-web feature delivery with quarterly updates

Granular control over firmware versions



More Than Just SD-WAN

IPS

Snort IDS / IPS, updated every day

Content Filtering

BrightCloud - 4+ billion URLs, updated in real-time

Geo-based security

Block traffic sourced from selected countries

Malware Protection

AMP with Threat Grid

ThreatGrid based sandboxing

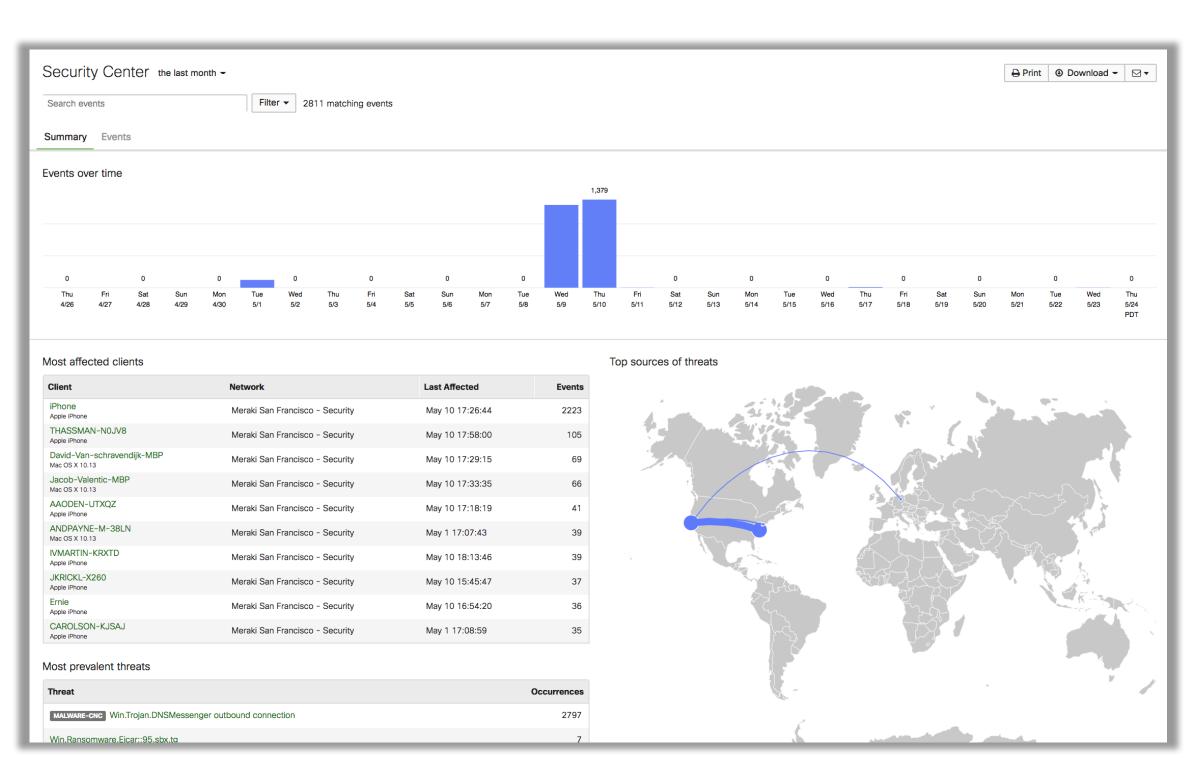
Automatic Updates

Software and security updates

delivered from the cloud

PCI compliance

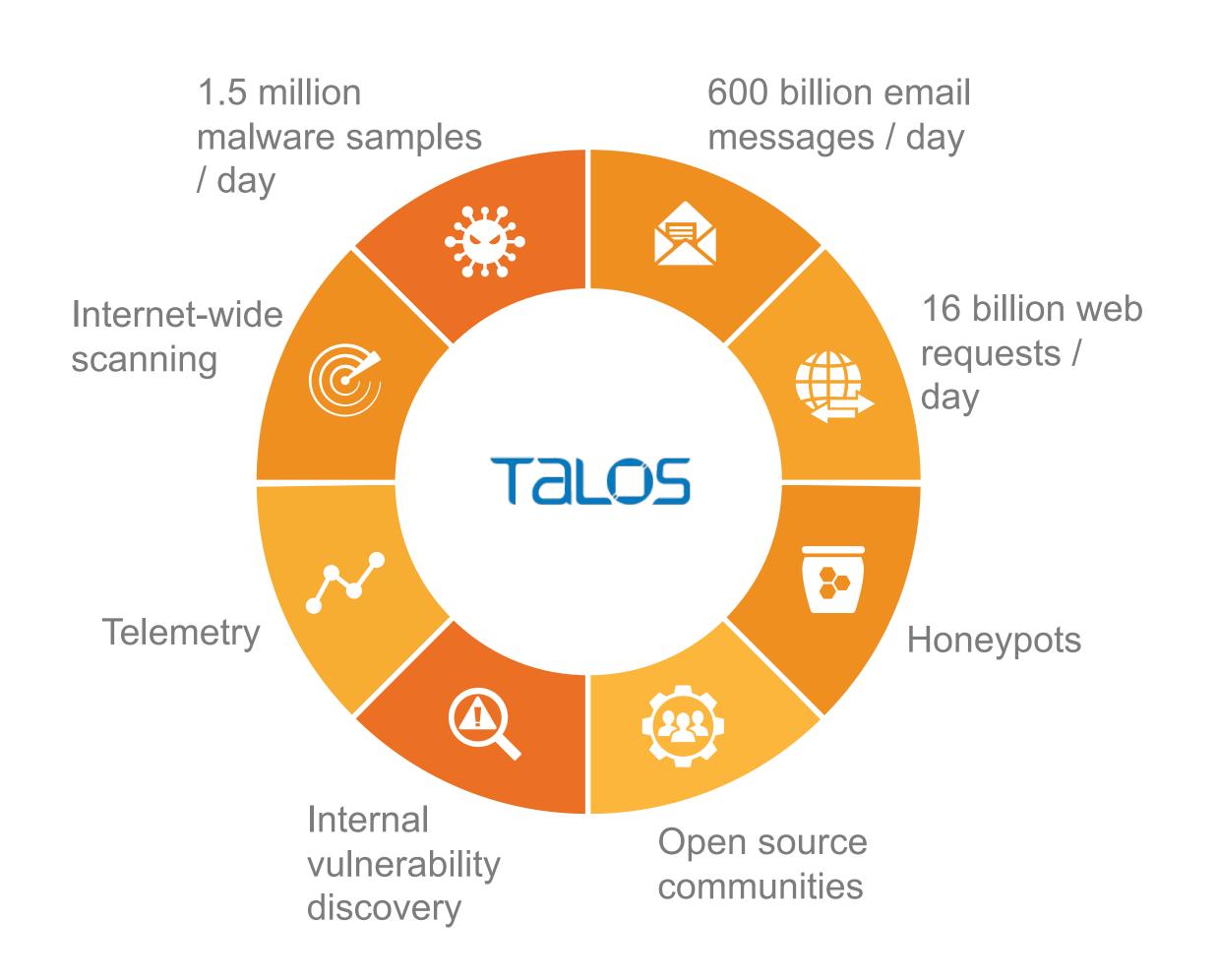
PCI 3.2 certified cloud-based management



Industry leading security built-in with no additional hardware required



Supported by Cisco Talos Threat Intelligence





Over 250 full time threat researchers



Millions of telemetry agents



4 global data centers



Over 100 threat intelligence partners



Over 1,100 threat traps



Visibility and Analytics

View historical latency, jitter, loss, and MOS for VPN links

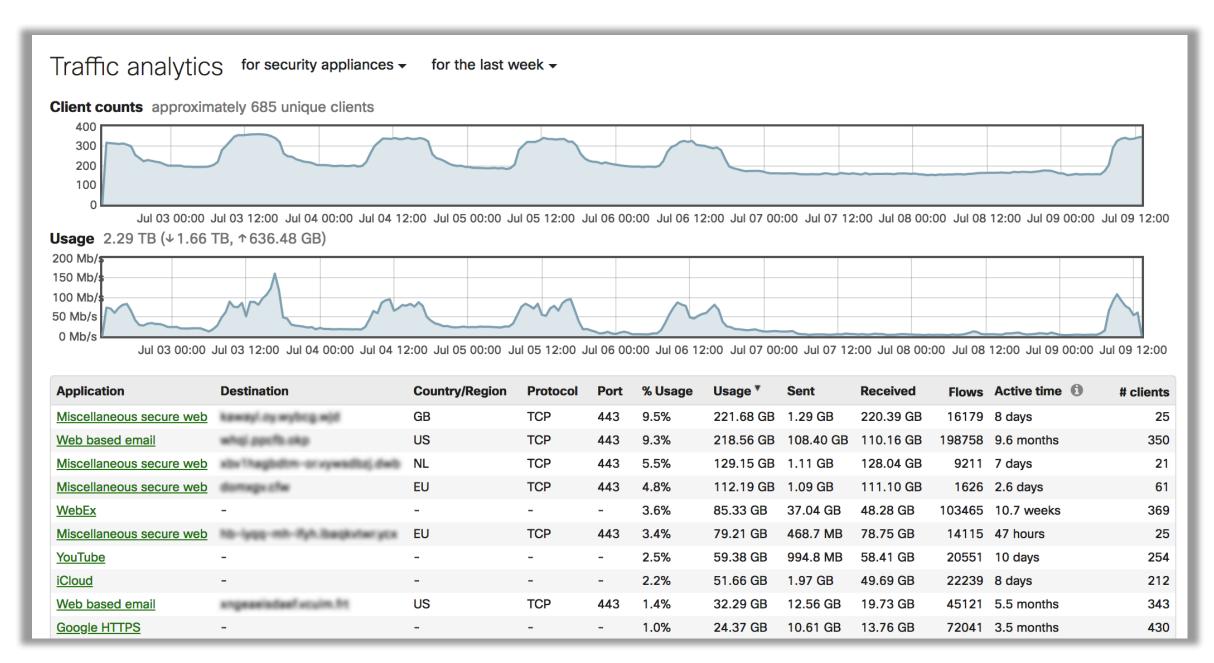
Visual representation of VPN status

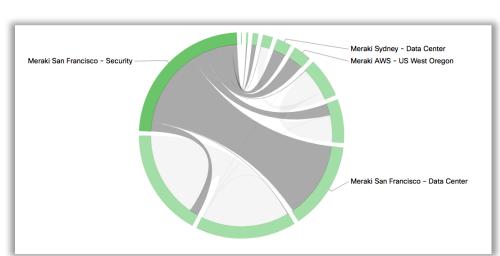
View bandwidth usage by application or by client

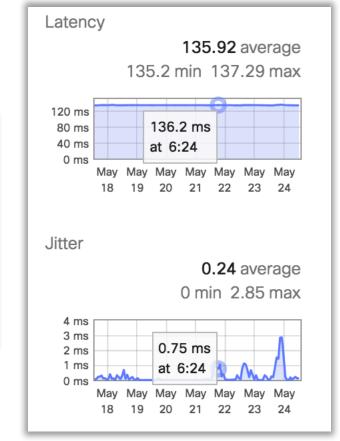
Highlight an application or a client to see their portion of total network bandwidth

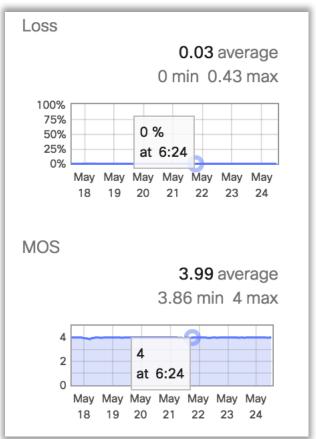
See a client's active time for specific applications

Easily create policies to limit bandwidth for problematic users or applications











The Cherry on Top...



Meraki Insight



Also delivered by the Meraki MX



Web Application Experience

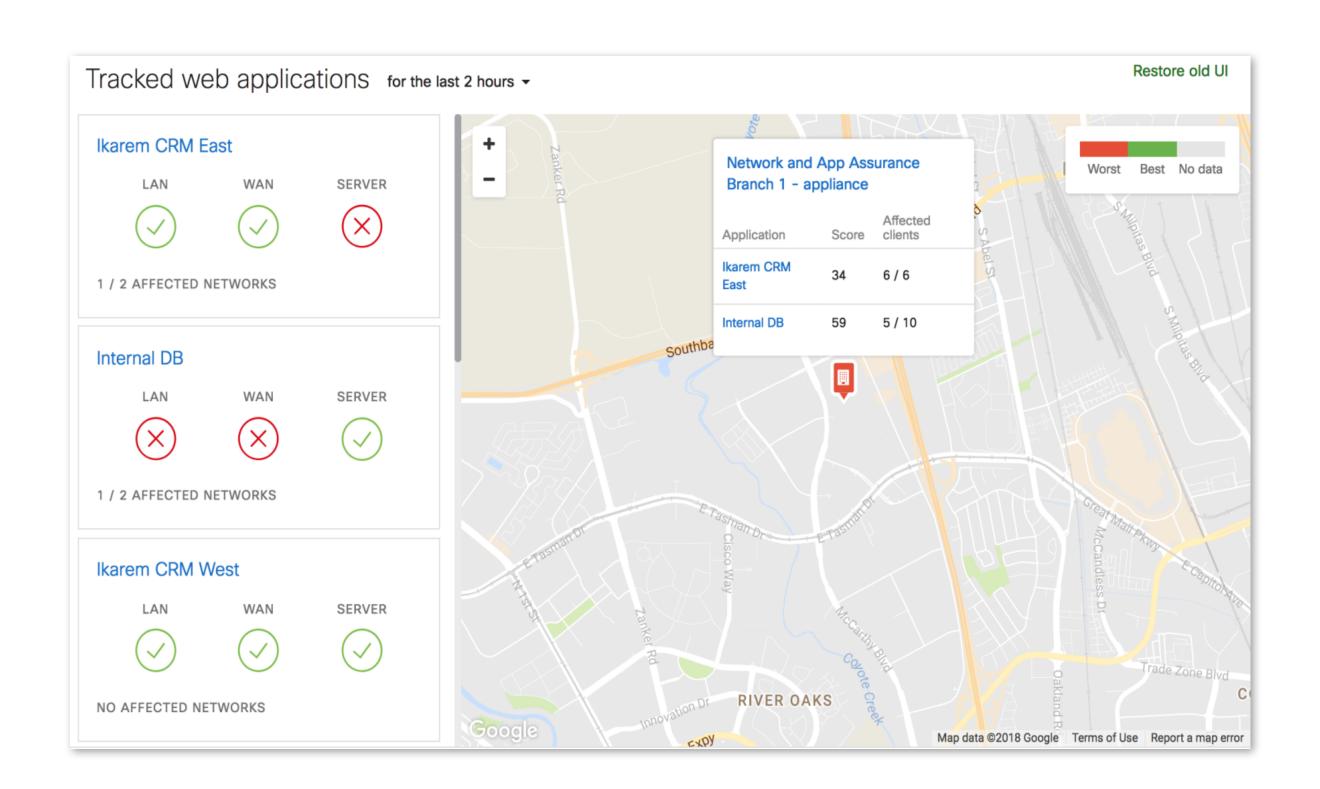
Monitor performance for apps travelling via VPN or public Internet

End-to-end visibility for SaaS application experience

Network performance analytics and troubleshooting, including the LAN, WAN, servers and domains

Accelerate IT and reduce time-to-resolution

End-to-end network intelligence at work



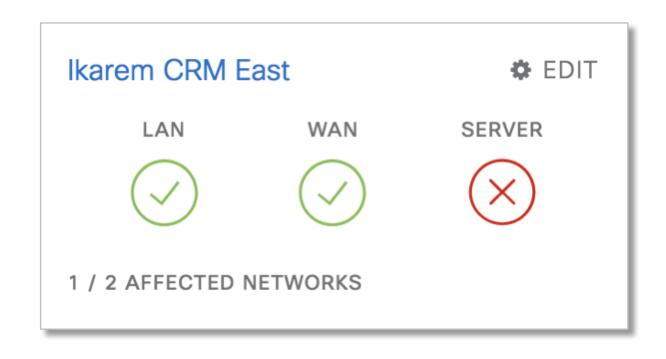
Ease migration to SaaS with simplified troubleshooting



Pinpoint App Performance Issues in Minutes

Where's the issue and so who should be contacted?







Using MI an IT admin can immediately tell which point in the network is failing and causing degradation

What's the exact reason and where's the evidence?







Within 2 clicks, an IT admin can understand the exact reason and drill down to generate specific evidence for the poor performance

Insight even suggests the root cause of performance issues



WAN Health

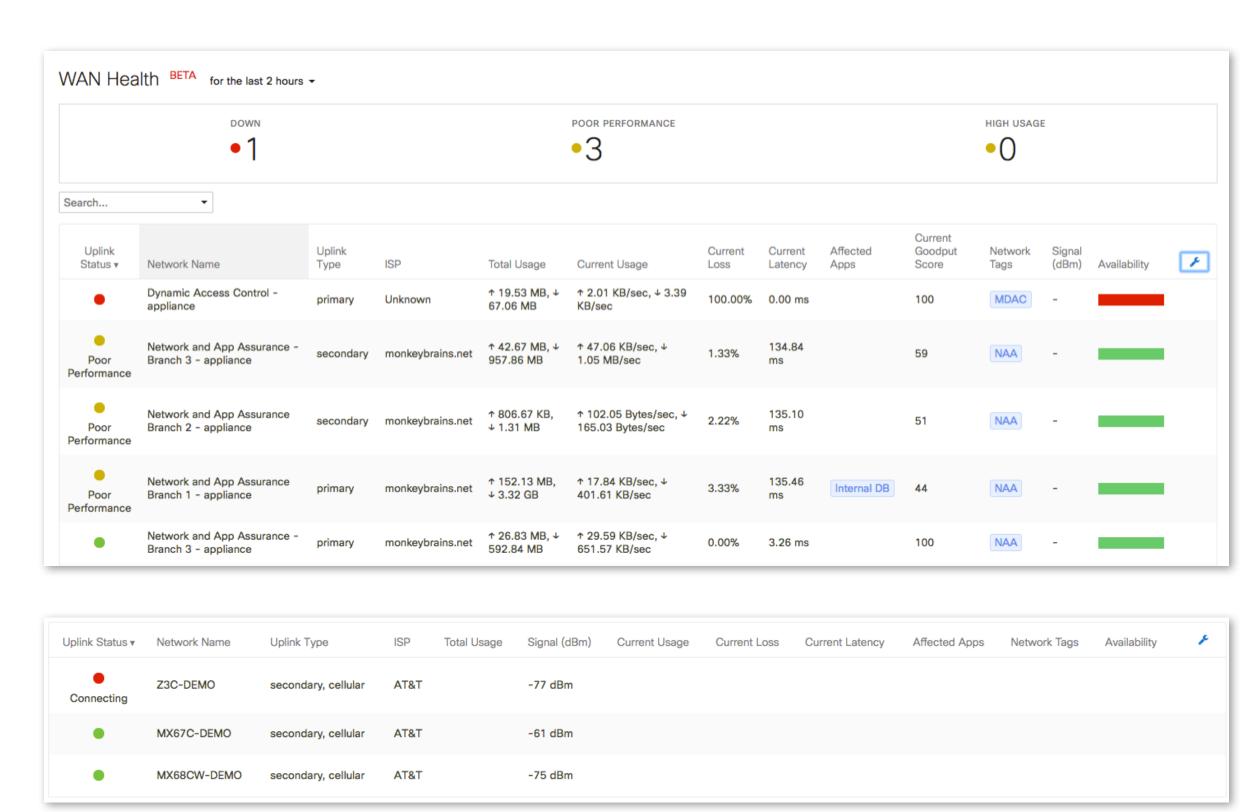
At-a-glance health of all MX uplinks across all sites

Quickly identify downed uplinks, including cellular across all sites

Easily monitor signal strength for cellular uplinks across all locations

Quickly isolate sites with underperforming uplinks to make the case for switching ISP or adding cellular as failover

Discover which sites are most reliant on cellular as failover



Monitor the health of all MX uplinks including cellular across all sites

PERFECT COMPANION FOR SD-WAN

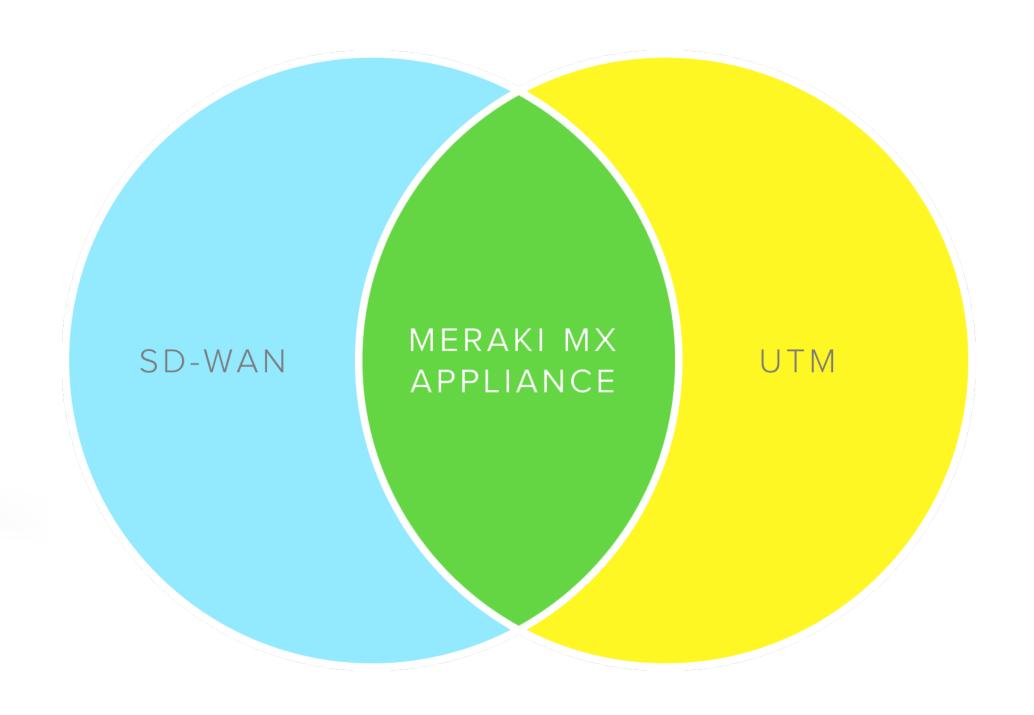


Licensing

MX MODELS	LICENSE SIZE FW Throughput
$MX6x \mid Z3x$	SMALL Up to 450 Mbps
MX84 MX100	MEDIUM Up to 750 Mbps
MX250 MX400	LARGE Up to 5 Gbps
MX450 MX600	EXTRA LARGE Up to 10 Gbps

Industry Leading SD-WAN Meets Industry Leading Security

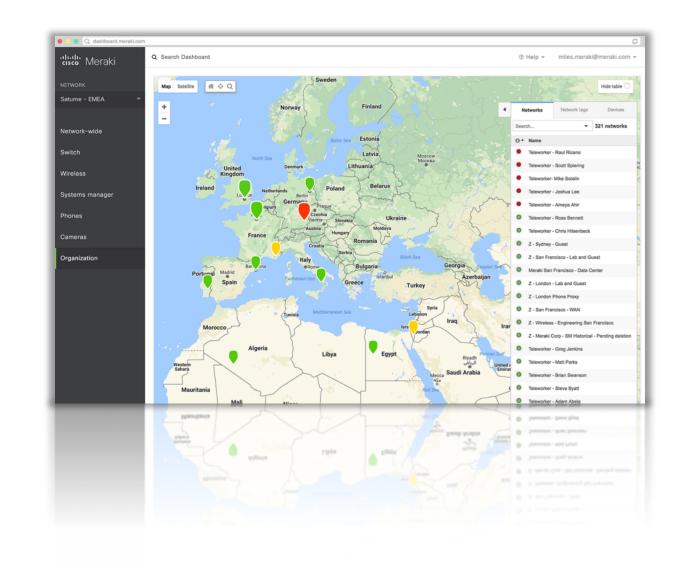






Product Families

The Meraki Full Stack





MR Access Points



MS Ethernet Switches



MX
SD-WAN & Security
Appliances



Systems Manager
Endpoint
Management



MI Insight



MV Security Cameras

A COMPLETE CLOUD MANAGED IT PORTFOLIO SINGLE PANE OF GLASS MANAGEMENT

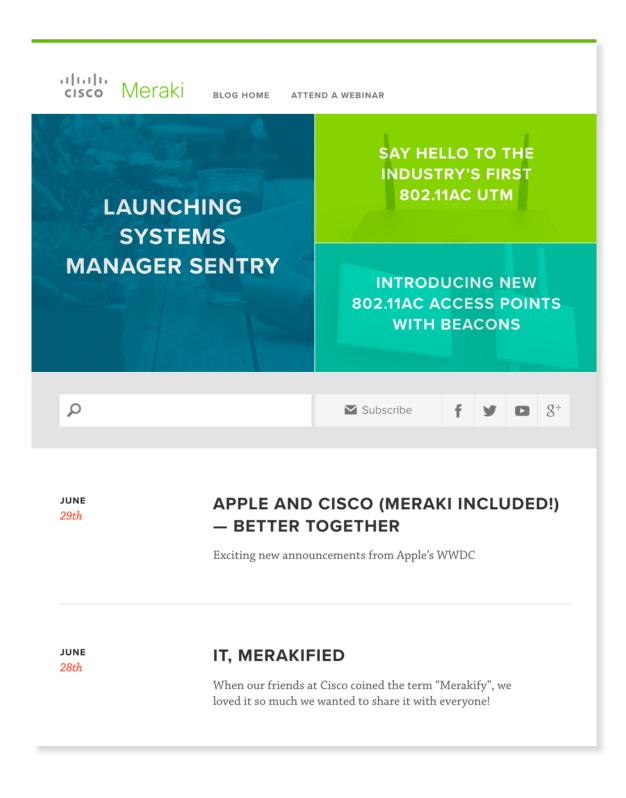


Next Steps

Risk-free evaluation meraki.cisco.com/eval



Check out our website & blog meraki.cisco.com/blog



Contact your Meraki rep

meraki.cisco.com/contact



Thank you

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