



BRKSEC-2900

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Cisco (iVe,

Agenda

- Introduction: Cloud networking
- Demo
- IWAN
- Product Families
- Q&A





Cisco Meraki: who we are and what we do?

 Complete cloud-managed networking solution

Wireless, switching, security, WAN optimisation, MDM Integrated hardware, software, and cloud services

Leader in cloud-managed networking

Among Cisco's fastest-growing portfolios

Over 100% annual growth

Tens of millions of devices connected worldwide

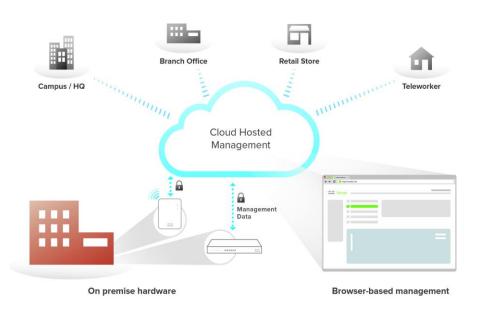
Recognised for innovation

Gartner Magic Quadrant
InfoWorld Technology of the Year
CRN Coolest Technologies





Networks Centrally Managed Over The Internet



Secure

No user traffic passes through cloud
Fully HIPAA / PCI compliant (level 1 certified)
3rd party security audits, daily penetration testing
SSAE 16-certified data centres

Scalable

Unlimited throughput, no bottlenecks

Add devices or sites in minutes (zero-touch)

Reliable

Highly available cloud with multiple data centres

Network functions even if connection to cloud is interrupted

99.99% uptime SLA

Reliability and security information at meraki.cisco.com/trust





A Complete Unified Threat Management Solution





Security

NG Firewall, Client VPN, Site-to-Site VPN, IDS/IPS, Anti-Malware, Geo-IP Firewalling



Networking

NAT/DHCP, 3G/4G Cellular, Static Routing, Link Balancing



Application Control

Traffic Shaping, Content Filtering



What's Driving the MX's Growth?



MX security proposition:

- Easy deployment & operation
- Best-in-class IPS, malware, FW protection
- Cost savings: no device limits, controllers, complex licensing, or hidden fees
- Seamless integration with wireless, security, MDM for holistic view



Industry challenges:

- Distributed sites, multi-vendor deployments, management complexity, rapid growth
- · Malicious traffic, ensuring uptime
- Licensing, hardware costs & oversight
- BYOD, bandwidth bottlenecks, app abuse, guest access, lean IT resources



Feature Velocity in Every MX











What is IWAN?

"Intelligent WAN" (IWAN) is a collection of Cisco technologies and products that enable transport independence, intelligent path control, application optimisation, and secure connectivity for multi-site deployments.



Transport Independence

- IPSec overlay (Auto VPN)
- Scalable (Cloud Controller)
- Traffic distribution over multiple pathways (Internet, cellular, MPLS-to-VPN failover)



Application Optimisation

- App visibility & control (Meraki dashboard, group-based policies, traffic analytics)
- Application QoS & bandwidth optimisation (Traffic shaping)

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Intelligent Path Control

- Uplink chosen by link latency, data loss, etc. (PfR, aka performance-based routing)
- Uplink assigned by traffic protocol, subnet, source, destination, etc. (PbR, aka policy-based routing)

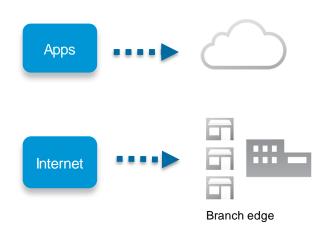


Secure Connectivity

 Intuitive, automatic, scalable VPN solution to connect remote branch sites (Auto VPN)



Why IWAN?



- Increasing WAN costs over MPLS
- Bandwidth congestion
- Complexity

OpEx savings:

- Use low-cost Internet
- Maintain MPLS-like reliability

Improved bandwidth:

- "Internet as WAN" offers cheaper bandwidth
- Application control
- · Uplinks intelligently assigned

Ease of deployment, ease of use:

- Deep visibility and control
- Highly scalable architecture
- Secure connectivity



New IWAN Features for the MX

Dual-active path:

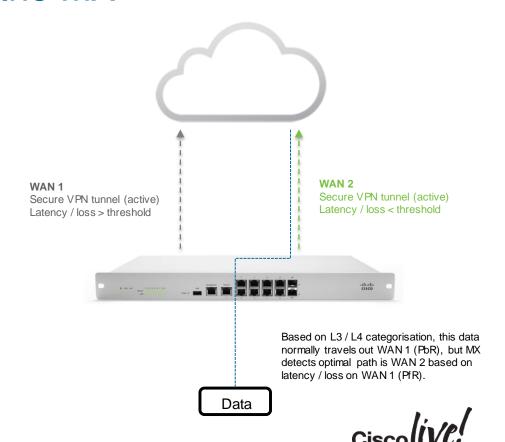
- Active-active VPN
- Active-active VPN & MPLS

Performance-based routing (PfR):

 Ensures the best uplink is used based on latency and loss metrics

Policy-based routing (PbR):

 Allows uplinks to be intelligently assigned based on traffic protocol, subnet, source, destination, etc.



Deep Dive: life insurance customer saves \$858K



Projects / Pain Points:

- Implement a BYOD platform at 50 remote sites
- Managed Service Provider & MPLS costs

Solution:

- Complete Meraki Stack: MR, MS, MX
- · Phase off MPLS to Broadband

Business Outcomes:

- Reduced Telco Spend by 40%
- Single platform in branch improved IT efficiency

nternet Connectivity (3 years)	\$2,016,000
Fraditional T1 VPB hub-and-spoke model x 45 sites (1.544- 4.632Mbps Ethernet)	\$582,000 / year
NAN at HQ & DR (45Mbps x 2)	\$90,000 / year
Content Management (3 years)	\$153,000
Content filtering software	\$51,000 / year
Maintenance	\$24,750
Hardware security appliance	\$8,250 / year
Total Spend (3 years)	\$2,193,750
Projected 3-Year Costs with Meraki (Inc	:I. Rip & Replace)
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<u> </u>	\$673,495
Internet Connectivity (3 years)	
Internet Connectivity (3 years) HQ+37 branches (50Mbps DSL broadband)	\$673,495
Internet Connectivity (3 years) HQ + 37 branches (50Mbps DSL broadband) WAN Management vendor (one-time setup)	\$673,495 \$212,040 / year
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Internet Connectivity (3 years) HQ+37 branches (50Mbps DSL broadband) WAN Management vendor (one-time setup) Meraki Hardware & Licensing MX, MS, & MR x 41 branches Content Management	\$673,495 \$212,040 / year \$37,375 \$599,141

26 branches wired for MR

Total Spend (3 years)



\$1,334,893

Cisco's IWAN Solutions:

Cisco ISR



- DMVPN
- Dynamic routing & advanced features: L2-L7 services, IPv6
- Modularity requirements (WAN diversity, UC/Voice, Compute)
- 3rd party integration or management (Akamai)

Lower TCO & improved flexibility

Meraki MX



- Unified Threat Management (UTM)
- Ethernet or 4G drop-off
- Auto VPN (automatic, fault-tolerant)
- WAN load balancing
- 100% cloud managed

Lower TCO & simplified operations



The MX64 / MX64W

Speed

- Industry's first 802.11ac UTM
- ~3X speed of 11n wireless
- 2-3X faster than MX60 / MX60W

Security

- UTM provides one-stop security
- IPS, content filtering, malware / antiphishing
 - Seamless, automatic updates
- PCI 3.0-certified cloud backend



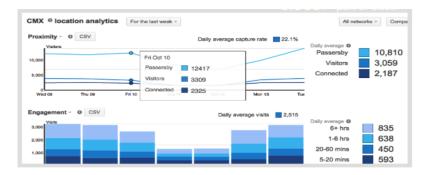


Typical Customer Scenario: Multi-site Retailer

- PCI Level 1 cloud architecture
- Secure branch locations
- Dynamic retail analytics (MX64W)
- Branded, in-store connectivity
- Easy deployment & maintenance



Wired splash pages with Facebook Login enable intuitive guest access while promoting your brand.



Location analytics built into the MX64W measures key customer statistics over time.



Choosing The Right MX For Your Environment

	Where	Unique Features	FW Throughput		
MX64 / 64W	Small branches (~50 users)	802.11ac Wireless (MX64W)	200 Mbps		
MX80	Mid-size branches (~100 users)	Large Web cache (1TB)	250 Mbps	Z1 For teleworkers	
MX100	Mid-size branches (~500 users)	Large Web cache (1TB) Power redundancy Modular interface Large Web cache (1TB)	500 Mbps	(1-5 users) Dual-radio wireless	
MX400	Large branch/campus (~2,000 users)		1 Gbps	FW throughput: 50 Mbps	
MX600	Large branch/campus (~10,000 users)	Power redundancy Modular interface Large Web cache (4TB)	2 Gbps	All devices support 3G/4G	





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