

# Cisco SD-WAN powered by Meraki

# What is SD-WAN?

Software-defined wide area networking (SD-WAN) is a software-based approach for businesses to utilise and manage more than one external network connection such as MPLS, broadband, and fibre optic at a given location based on its performance.

With SD-WAN, network admins can define which WAN link an application should use, or set up rules for which link should be used based on its performance.

### What can SD-WAN help achieve?



#### **Reduce reliance on MPLS**

In the past, organisations relied heavily on premium WAN links, such as MPLS, to ensure highly predictable and reliable connectivity. However, as bandwidth consumption continues to increase with more devices, increased usage of cloud applications, and video streaming, MPLS links are exceeding the capacity for which they were designed.

Low-cost links such as broadband and fibre have matured to now have the reliability and uptime to be viable options to provide additional bandwidth capacity or, in some instances, to replace MPLS altogether.



## Maximise user experience in a multi-hosted environment

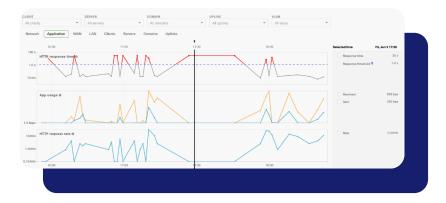
Applications are now hosted in multiple locations: the data centre, laaS, and SaaS providers - and are accessed in multiple ways, including direct Internet access. One of the key challenges to maximising performance in such a multi-hosted environment is that organisations do not have ownership and hence direct management of public cloud environments, or the transit to them.

With more business-critical traffic becoming cloud-centric, user cases focused on intelligently maximising SaaS application quality of experience (QoE) are emerging to be a vital expectation of SD-WAN.

## How does Cisco SD-WAN powered by Meraki work?

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135.91 average 135.2min 136.82 max	132.63 everage 132 min 146.3 max 132 min 146.3 max 8 min 8 min 8 min 9 min 146	140.25 evenage 139.43 min 143.14 max 20 m 8 m 9 m 100 m 9 m 100 m	138.7 evenage 136.04 min 156 max 1800 8 m 8 m 9
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0.04 average 0 min 0.45 max	0.01 evenage 0 min 0.58 max	0.15 avera 1005	0.13 average 0 min 6 max
3.99 average 3.86 min 4 max	4 average 3.95 min 4 max	<b>3.95</b> avera 3.02 min 4 max	3.97 everage 2.37 min 4 max

- Cisco SD-WAN powered by Meraki is delivered by the powerful Meraki MX appliances
- Two or more MX appliances can establish Auto VPN tunnels between devices (and locations) over any type of WAN link in three simple clicks
- The performance of all the VPN tunnels is monitored approximately every second for packet loss, jitter, latency, and MOS
- Advanced analytics also monitor key factors that influence how users experience business-critical resources to identify the root cause of any degradation in minutes
- Real-time performance telemetry is used to make autonomous decisions about which path should be used to satisfy the performance of critical cloud applications and VoIP



# Why SD-WAN powered by Meraki?

fraffic filters					
Windows Office365 🛛 Add +					
Custom expressions	All Business management				
Advertising	Deltek Axium				
Blogging	IFS				
Business management	Intacet				
Databases & cloud services	IQMS	1			
Email	Microsoft Dynamics 365	I.			
File sharing	NetSuite				
Gaming	Priority ERP				
Health care	salesforce.com				
News	SICOM Restaurant Management				
Online backup	SugarCRM				
Peer-to-peer (P2P)	Workdwy				
Productivity					

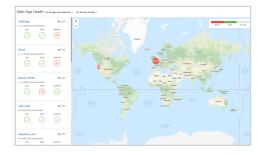
#### The simplest SD-WAN available

True zero-touch provisioning allows the quickest and simplest way for organisations to significantly reduce their total WAN costs and deliver the desired level of performance for VoIP and business critical cloud applications - no matter where they are hosted.



#### **Natively secure SD-WAN**

Natively integrated advanced security that includes next-gen layer-7 firewall, Cisco AMP with Threat Grid, Cisco SNORT IDS/IPS, cloud security with Cisco Umbrella SIG, and content filtering - to confidently allow direct Internet access.



#### **Advanced analytics**

Supreme visibility into key factors that influence how users experience business-critical resources to identify any degradation and its root cause in a matter of minutes.

- Web Application Health
- WAN Health
- VoIP Health



#### **Unified management platform**

Streamline IT operations with management of SD-WAN as well as wireless, switching, security, cellular, end-point management, and smart security cameras into a single intuitive and centralised platform.

## What's needed for Cisco SD-WAN powered by Meraki?

Cisco SD-WAN powered by Meraki is delivered by the MX appliances.



#### **Licence options**

The licensing structure for MX appliances is the same as that of any other Meraki device - a 1:1 ratio of devices to licences. Pair your chosen MX appliance(s) with the relevant licence for your use case.



### Enterprise

Ideal for when seamless site-to-site VPN connectivity with a firewall is needed.

• Secure connectivity & basic security



#### **Advanced Security**

Ideal for organisations with sites also connecting to the Internet; unified threat management security is required.

- Secure connectivity & basic security
- Fully featured unified threat management



#### **Secure SD-WAN Plus**

Ideal for organisations reliant on apps served by SaaS, IaaS, or data-centre locations.

- Secure connectivity & basic security
- Fully featured unified threat management
- Advanced analytics with ML
- Smart SaaS quality of experience
- Tag-based segmentation

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