Managed Network Edge

Spectrum Enterprise Managed Network Edge (MNE) is a single platform for managing the complex challenges of providing security, scalability and flexibility at the edge of the network.

MNE is delivered over the Cisco Meraki platform and seamlessly integrates equipment, internet and networking services, security solutions and a cloud-based management portal. This provides the flexibility, visibility and control for network management that today's organizations need.

MANAGED NETWORK EDGE
Managed Network Edge includes a built-in integrated router, an advanced security platform, SD-WAN, on-site installation, monitoring, support, remote VPN and a self-service management portal. MNE increases network resiliency by supporting dual connectivity and leverages the Spectrum Enterprise or client-provided internet.

Additional managed LAN capabilities with WiFi, switch and cameras are available.

SECURITY AND ROUTING
Managed Network Edge is an endpoint device for public and private network connections and includes the following security and routing capabilities:

- Stateful firewall.
- URL content filtering.
- Advanced Malware Protection (AMP).
- Intrusion detection and prevention.
- Layer 7 Geo-IP firewall rules.
- Dynamic Host Configuration Protocol (DHCP).
- Automated updates.
- One-click policy deployment.
- Client VPN.

Create virtual LANs (VLANs) to divide network traffic into segments based on type. This isolation of traffic into segments adds a layer of security and control by making it harder for bad actors to gain access to critical applications because a breach in one part of the network does not expose the rest of the network.

SD-WAN
A complete, virtualized WAN service provides the ability to control traffic flows, increase network resiliency and improve bandwidth efficiency.

Supports two WAN uplinks with automatic failover between uplinks. Enables WAN link balancing with one click or creates granular flow preferences. Supports policy-based routing and performance-based dynamic path selection.

WIFI
Designed for challenging enterprise environments, Managed Network WiFi uses WiFi Generation 6 to deliver higher density and throughput, as well as the reliable coverage required by demanding business applications.

Security features include wireless intrusion detection and prevention system (WIDS, WIPS), bring your own device (BYOD) and guest access policies as well as domain name system (DNS) layer protection.

MNE offers a variety of wireless access point models for both indoor and outdoor use and for multi-gigabit performance, as well as models for high density.

SWITCHING
Switches provide basic L2 to high-performance L3 switching functionality for voice and video quality of service (QoS), dynamic routing, enterprise security and Layer 7 app visibility. Connectivity options include multi-gigabit, physical stacking, StackPower and universal power over Ethernet (UPoE).

CAMERA
The camera has the ability to dynamically and retroactively select areas of interest in a video stream, set custom alerts to occur when motion is detected in a video frame or area of interest, export video segments via an MP4 file, and store footage in the MNE cloud.

The dashboard intelligently determines whether the viewing computer is on the same local network as the cameras. If it is, video traffic will stream directly and securely over the LAN, saving WAN bandwidth. If not, the dashboard will proxy video through the cloud to a remote client.

Spectrum
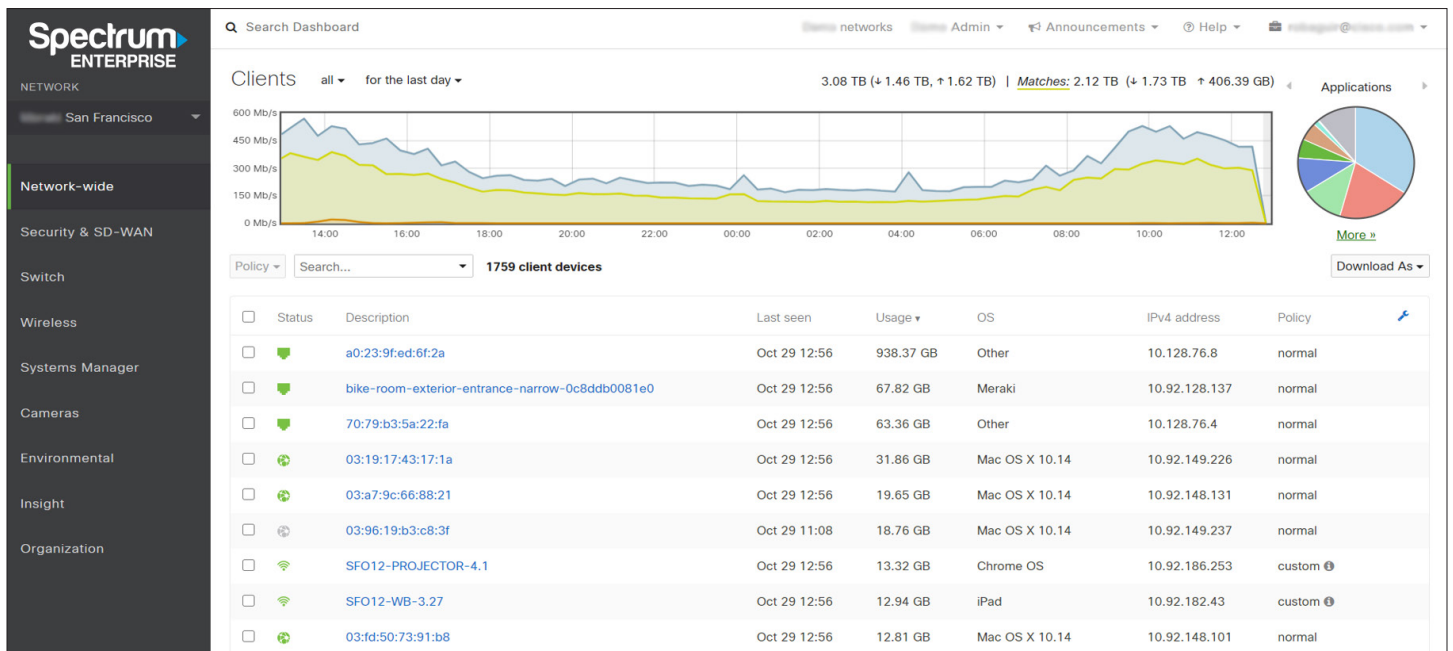**ENTERPRISE**

PORTAL DASHBOARD

REPORTING

The Spectrum Enterprise MNE portal, powered by Cisco Meraki, provides clients with the ability to log into and view settings of services including security, routing, SD-WAN, WiFi, switching and cameras. The cloud-based management portal provides visibility and control of network performance and health, IP addressing, network topologies, security settings, WiFi connected devices and supports client co-management.

ANALYTICS

Analytics monitors business application flows to provide end-to-end visibility and generate notifications to assist in the troubleshooting and performance tuning of business-critical traffic. The VoIP Health feature, for example, helps administrators monitor network links for voice/VoIP performance by estimating the call quality (MOS score) along each path.

MNE allows end users to view the services they have activated at each of the locations, including connectivity and voice solutions. With single sign-on (SSO) from the SpectrumEnterprise.net portal, they can access the Cisco Meraki Dashboard and the available features based on subscribed services.

PORTAL DASHBOARD EXAMPLE

The dashboard offers network administrators the ability to monitor and manage individual network clients, which can be helpful for both administration and troubleshooting purposes. The client equipment is all consolidated into Network-wide > Clients, which can then be filtered as shown below.

About Spectrum Enterprise

Spectrum Enterprise, a part of Charter Communications, Inc., is a national provider of scalable fiber technology solutions serving America's largest businesses and communications service providers. The broad Spectrum Enterprise portfolio includes networking and managed services solutions: Internet access, Ethernet access and networks, voice and TV solutions. Spectrum Enterprise's industry-leading team of experts works closely with clients to achieve greater business success by providing solutions designed to meet client's evolving needs. More information about Spectrum Enterprise can be found at enterprise.spectrum.com.

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