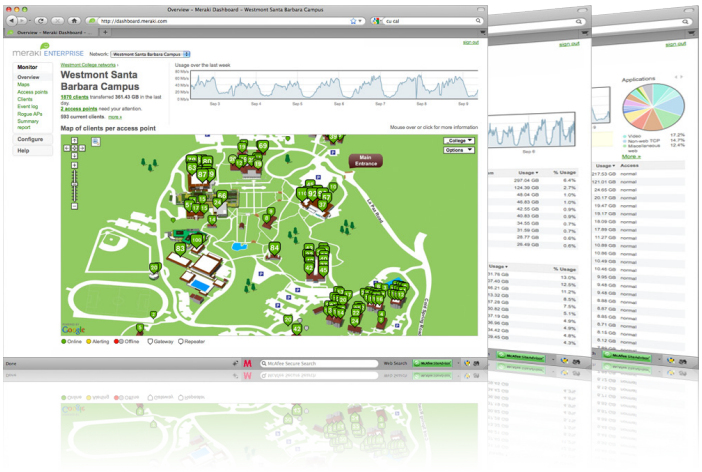
Meraki Enterprise Cloud Controller

Datasheet



Centralized Management, Optimization, and Monitoring for Wireless LANs

The Meraki Enterprise Cloud Controller lets administrators build secure and scalable wireless networks quickly, easily, and at a lower cost. It provides centralized management, mobility, and security across multiple access points and deployment sites, and facilitates phenomenal real-time support.

As the world's first hosted wireless LAN controller, the Meraki Enterprise Cloud Controller eliminates the cost and complexity of traditional hardware-based wireless controllers.

Features

Performance and Scalability Scalable Coverage Create large-scale networks capable of serving thousands of simultaneous 802.11a/b/g/n devices, while providing a single seamless network experience. Meraki's architecture ensures that there are no bottlenecks or single points of failure in the network, and that coverage can be expanded simply by adding access points.

Meraki Mesh™ Extend network coverage to areas without wired Ethernet connections. Meraki's industry leading wireless routing algorithms choose the fastest, most reliable paths through multi-radio, single-radio, and mixed-radio mesh networks.

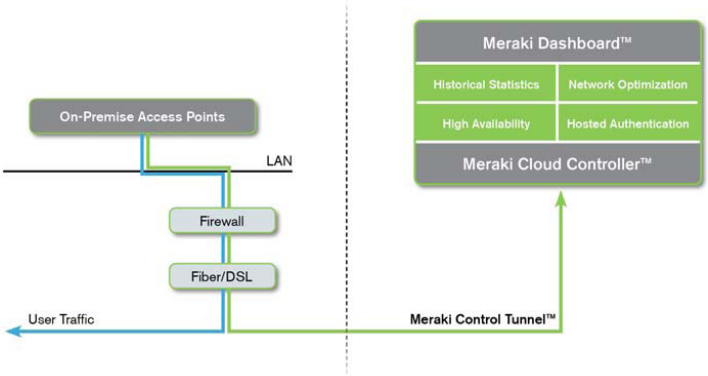
Dynamic RF Optimization Adapt to changing interference conditions and fully utilize the available wireless spectrum. System-wide channel optimization maximizes client performance and client density in the network.

Security Virtual Network Isolation™ Operate multiple fully isolated virtual wireless networks, each with its own policies and VLAN-tagged traffic, on a single physical network.

Encryption Prevent eavesdropping on the wireless network with strong, standards-based encryption methods including WEP, WPA2, and AES.

Hosted Directory Services Use best practice WPA2- Enterprise with 802.1x authentication. Authenticate against Meraki's hosted directory service, or integrate with existing RADIUS or Active Directory servers.

Wireless Intrusion Protection System (WIPS) Meraki proactively scans the airwaves for rogue APs, ad-hoc networks, and network attacks including DOS, packet floods and client floods. Threats are plotted on maps or floorplans so they can be located and removed or contained.



Meraki System Architecture: The Meraki system uses a hybrid cloud architecture, connecting on-premise Meraki access points to controller functionality and services hosted in the cloud. Every network is served by multiple datacenters worldwide to ensure reliability.

User Management

Per-User Traffic Policies Set bandwidth limits or block network usage, preventing heavy bandwidth users from affecting overall service quality.

Group and Device-type Policies Further customzie bandwidth limits or firewall rules based on RADIUS user group or client device type, ie: iPads.

Historical Audit Trails Obtain a report about wireless traffic in the last hour or the last month.

Guest Access Provide temporary access to an isolated virtual network for guests and vendors. Provide a fully customizable landing page experience without compromising the organization's internal network.

Centralized Management

Multi-Site Management Manage multiple branch offices or buildings from a single pane of glass.

Web-Based Interface Access the Meraki Cloud Controller through a web browser, from anywhere in the world, to securely monitor and administer the wireless network in real-time. Manage your network with familiar and contextual search and map-based tools.

Hero Reports Highlight the useage and ROI of a Meraki wireless network with these reports, which can be e-mailed to interested parties on a recurring schedule.

Role-Based Administration Configure multiple administrator accounts with read-only, full, or lobby ambassador privileges.

"Remote Hands" Live Test Tools Check the connectivity and performance of a wireless network, simulate user authentication, reboot access points and more without setting foot on-site or using a command line interface.

Quality of Service

Voice and Power Save Support Provide mobile devices with enhanced call quality and battery conservation using 802.11e/WMM prioritized queuing and Power Save.

Real-Time Support Cloud-based support tools provide support engineers with real-time diagnostics of your network. Phone support is included at no extra cost.

Platform

Meraki OS™ Meraki's secure, high-performance operating system was built from the ground up to be robust and auto-configuring with minimal administrative intervention.

Always Up To Date Software Service Continual enhancements to the Cloud Controller and automatic Meraki OS firmware updates make new features available for you to deploy on your network, with no software to install and no upgrades to purchase.

High Availability Redundant systems across multiple global data centers with real-time replication of data provide a level of availability impossible with on-site network controllers.

Out-of-Band Architecture No client traffic flows through the Meraki Cloud Controller, ensuring maximum performance and data security.

Meraki Control Tunnel™ Meraki's secure network tunnel between access points and the Cloud Controller provides real-time networking configuration, statistics, and monitoring without any special configuration. Should Internet connectivity to the Cloud Controller be interrupted, the Wireless LAN continues to operate normally.

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Benefits

Easy

The Meraki Enterprise Cloud Controller enables administrators to bring up new wireless deployments in minutes, not days. Meraki access points are plug-and-play, auto-configuring, and self-healing. The Cloud Controller's streamlined, intuitive web interface reduces upfront installation time and eliminates specialized training, while reducing maintenance and troubleshooting over the long run.

Secure

Meraki provides a wide range of standards-based security and access control options, from simple pre-shared key encryption to enterprise-class 802.1X authentication. Different user groups, such as employees and guests, can be placed in distinct virtual networks that isolate traffic according to corporate policy.

Scalable

The Meraki Enterprise Cloud Controller provides true centralized management without any additional hardware. Centrally manage up to 1,000 wireless networks, each with up to 2,500 access points. Whether the networks are on multiple floors of a building, multiple buildings on a campus, or multiple campuses around the world, an administrator can push a single configuration to all of the networks instantly, and get aggregated usage and connectivity data in a single view.

Industry-Leading Coverage

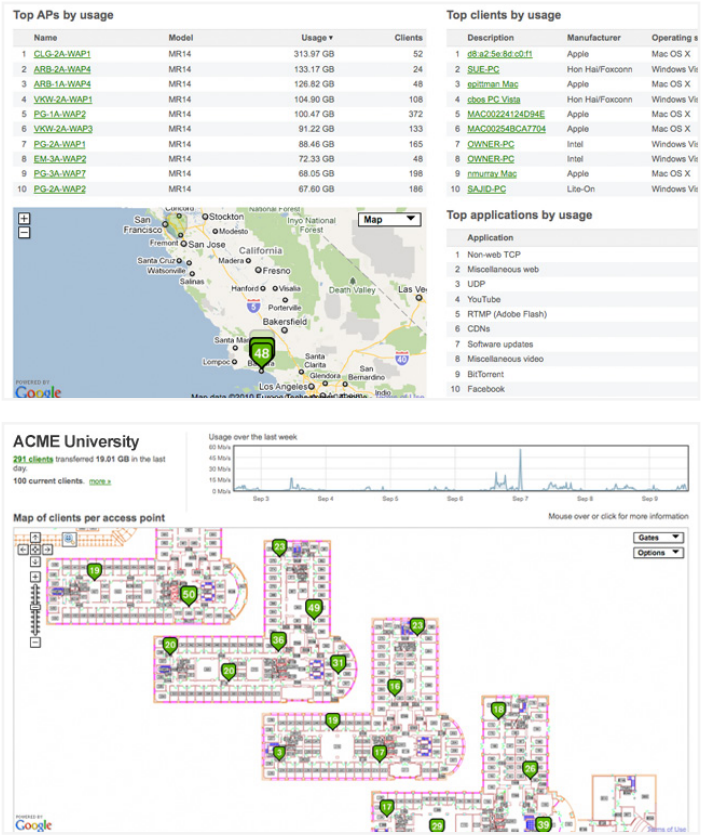
Meraki's 802.11a/b/g/n triple-, dual-, and single-radio access points enable administrators to cover large areas with wireless connectivity easily and effectively. With technologies such as mesh routing and dynamic channel optimization, Meraki access points offer excellent coverage in the most challenging RF environments.

Future-Proof Investment

The Meraki Enterprise Cloud Controller never has to be replaced. It is constantly updated with features and enhancements that provide value to a wireless network long after a hardware-based controller has reached its useful lifetime. Administrators can choose Meraki knowing that their investment is protected.

No Expensive Hardware

Administrators no longer have to purchase hardware based WLAN controllers. Instead, Meraki's Enterprise Cloud Controller has all the features required for a large office deployment out of the box, and includes enterprise-class phone support and software maintenance at no additional cost.



Intuitive User Interface: The Meraki Cloud Controller offers a rich feature set with an intuitive user interface.

Top: *See bandwidth usage per user or device in real-time with different levels of historical zoom for better monitoring, troubleshooting, and reporting.*

Bottom: *Upload floorplans and custom maps into the Meraki Cloud Controller for precise AP visualization and monitoring.*

Specifications

Platform
- Up to 16 Virtual APs (SSIDs) with independent configurations
- Up to 16 VLAN (802.1q) tags with SSID-to-VLAN mapping
- Bridge mode: Client IP addresses assigned by upstream DHCP server
- NAT mode: Client IP addresses assigned from private address pool
- Dynamic channel optimization
- Dynamic frequency selection (DFS)

Security
- WPA/WPA2-Personal (pre-shared key)
- WPA/WPA2-Enterprise (with 802.1X authentication)
- Supported 802.1X EAP methods:
  EAP-TLS PEAPv0/EAPMSCHAPv2,
  EAP-TTLS/MSCHAPv2 PEAPv1/EAP-GTC
- TKIP and AES encryption
- WEP
- Mobile device type policies
- Teleworker VPN with IPSec
- 24x7 WIPS (wireless intrusion protection system)
- Rogue AP containment
- PCI compliance reporting
- Secure AP-to-Cloud Controller communication (SSL)

Access Policies
- RADIUS with failover and load balancing
- Meraki-hosted user database (integrated RADIUS server)
- Native Active Directory and LDAP integration
- MAC whitelisting/blacklisting
- Customizable captive portal / splash page
- Internationalization (18 languages supported)
- Walled garden
- DNS-based content filtering
- Integrated LAN isolation (isolate guest traffic without VLANs)

Quality of Service
- 802.11e / WMM (EDCA and TXOP)
- WMM Power Save (U-APSD)
- Integrated layer 7 application bandwidth shaping

High Performance Mesh
- Zero-configuration mesh networking
- Automatic failover across heterogeneous gateways
- Dynamic route selection with multi-radio support
- Secure AP-to-AP communication (AES)

Management
- Centralized administration of multiple networks
- Drill-down reporting (historical and real-time)
- Hero reports with scheduled e-mails
- Role-based administration (full and read-only privileges)
- Data export to XML
- Aerial Google Maps visualization
- Floor/building diagrams for interior visualization
- Remote diagnostics, performance, and logging tools
- Automatic e-mail alerts
- Online XML API

Scalability
- Max # APs per organization: no limit
- Max # networks per organization: no limit
- Max # user entries in Meraki-hosted user database: no limit
- Max client throughput: AP-dependent (Cloud Controller is not in the data path)
- Repeater-to-gateway ratio in mesh: 3 to 1 recommended; 20 to 1 max

High Availability
- Redundant systems in multiple geographically distributed data centers
- Failover to hot standby within a data center

Support and Maintenance
- Enterprise license includes support and maintenance
- Enterprise-grade phone support included
- Optional 24x7 support available
- Meraki Cloud Controller software updates
- Automatic firmware upgrades

Compatibility
- Compatible with all Meraki Enterprise access points

Ordering Information
The Meraki Enterprise Cloud Controller is licensed per AP per year.
- LIC-ENT-1YR Meraki Enterprise Cloud Controller, 1 Year
- LIC-ENT-3YR Meraki Enterprise Cloud Controller, 3 Years
- LIC-ENT-5YR Meraki Enterprise Cloud Controller, 5 Years