CONTROLLER

MERU **CONTROLLER**

Meru controllers provide a scalable solution for small, medium and large enterprise wireless deployments.

MC4100, MC3000 & MC1500 CONTROLLER

Scalable, Intelligent backbone of the virtualized wireless LAN

PRODUCT OVERVIEW

Meru controllers allow network administrators to securely manage and easily control their wireless network while meeting mission critical enterprise demands. All controllers provide centralized configuration and management for ease of deployment, multilayer security, and scalability while eliminating co-channel interference and the need for channel planning.

The MC4100, supporting up to 300 access points and 3000 clients, provides centralized configuration and management for ease of deployment, multilayer security, N+1 redundancy and scalability. For larger network deployments with multiple controllers, MC4100 is E(z)RF™ Application Suite compliant and easily integrates with existing infrastructure.

The MC3000 supports up to 150 access points for medium size wireless deployments.

The Meru MC1500 Controller provides a performance optimized, cost effective solution for branch office and small to medium size enterprise wireless network deployments. The controller enables customers that start with a small deployment of 5 access points (APs) to grow their wireless network to 30 APs for a maximum of 500 clients.

CONTROLLERS TECHNICAL SPECIFICATIONS

APPLICATION SUPPORT AND OVER-THE-AIR QoS

SIP and H.323 support
Dynamic out of the box support for SIP and H.323v1 applications and codecs

QoS
Configurable dynamic QoS rules Over-the-air resource reservation
Automatic, stateful flow detectors for SIP, H.323, Cisco SCCP, SpectraLink SVP and Vocera
User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)
Call Admissions Control and Call Load Balancing
WMM Support

SECURITY

Authentication
Combination of captive portal, 802.1x and open authentication
Advanced security using WPA2
802.1X with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP) MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST and EAP- MD5, with mutual authentication and dynamic, per user, per session unicast and broadcast keys
Secure HTTPS w/customizable Captive Portal utilizing RADIUS

Encryption support
Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES, SSL, TLS

Security Policy
Radius Assisted, Per User and Per ESSID Access control via MAC Filtering
Multiple ESSID/BSSID each with flexibility of separate and shared Security Policy

Rogue Detection and Suppression
All radios capable of scanning 802.11n, 802.11a and 802.11b/g for rogue devices

Security Firewall
10,000 simultaneous sessions
System configured or Per User Radius configured firewall policy

MOBILITY

Zero-loss Handoffs Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients

Virtual Cell Load Balancing Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

CENTRALIZED MANAGEMENT

Zero-Configuration
Automatically selects power and channel settings
Automatically discovers controllers and download configuration settings
Zero touch, plug and play deployments

System Management
Centralized and remote management and software upgrades via System Director web- based GUI, SNMP, Command-Line Interface (CLI) via serial port, SSH, Telnet, centrally managed via EzRF Management Suite
Centralized Security Policy for WLAN, Multiple ESSIDs and VLANs with their own administrative/security policies

Intelligent RF Management
Coordination of access points with load-balancing for predictable performance
Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs
Co-channel interference management

WIRED/WIRELESS SUPPORT

Wireless Compliance
IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

Automatic Discovery & Configuration
All Meru Access Points

Wired/Switching
IEEE 802.1Q VLAN tagging, GRE Tunnelling and IEEE 802.1D Spanning Tree Protocol

MC4100 PHYSICAL SPECIFICATIONS

Dimensions
17" width x 3 1/2" height x 22" depth
(43.2 cm width x 8.9 cm height x 55.9 cm depth)

Weight 36 lbs; 42 lbs with packaging

Power Consumption 300W

Environmental
Operating Temperature: 0° to 40° C (32° F to 104° F)
Operating Humidity: 95% at 40° C (104° F)
Storage Temperature: -40° to 85° C (-40° F to 185° F)
Storage Humidity: 95% at 40° C (104° F)

Interfaces
4 10/100/1000 Base-T Ethernet, 2 Base-X SFP
Serial Port (DB-9)
USB Port
Power On/Off Switch
Status Screen
Ethernet Port Status Lights (LED) for Link/Activity/Speed

Mounting
2U Rack Mount

Standard Warranty
1 year

MC3000 PHYSICAL SPECIFICATIONS

Dimensions
17" width x 1 3/4" height x 16 1/4" depth
(43.2 cm width x 4.5 cm height x 41.3 cm depth)

Weight 25 lbs

Power Consumption 300W

Environmental
Operating Temperature: 0° to 50° C (32° F to 122° F)
Operating Humidity: 95% at 40° C (104° F)
Storage Temperature: -40° to 85° C (-40° F to 185° F)
Storage Humidity: 95% at 40° C (104° F)

Interfaces
2 10/100/1000 Base-TX Ethernet
Serial Port (RJ-45)
Power On/Off Switch
Status Screen
Ethernet Port Status Lights (LED) for Link/Activity/Speed

Mounting
1U Rack Mount

Standard Warranty
1 year

MC1500 PHYSICAL SPECIFICATIONS

Dimensions
17" width x 1 3/4" height x 11" depth
(43.2 cm width x 4.5 cm height x 28.0 cm depth)

Weight 8.6 lbs; 16 lbs with packaging

Power Consumption 150W

Environmental
Operating Temperature: 0° to 40° C (32° F to 104° F)
Operating Humidity: 95% at 40° C (104° F)
Storage Temperature: -40° to 85° C (-40° F to 185° F)
Storage Humidity: 95% at 40° C (104° F)

Interfaces
2 10/100/1000 Base-T Ethernet
Serial Port (RJ-45)
2 USB 2.0 (reserved)
Power On/Off Switch
Status Indicator (unused)
HDD Indicator (unused)
Ethernet Port Status Lights (LED) for Link/Activity/Speed

Mounting
1U Rack Mount

Standard Warranty
1 year

Certifications

Wi-Fi Certified a/b/g/n

RoHS Compliant (MC1500)

Standards Safety
UL 60950-1 (MC1500, MC4100)
IEC 60950-1 (MC1500, MC4100)
UL 1950 (MC3000)

EMC
FCC Part 15/ICES-003 Class A
VCCI Class A - Japan
(MC1500, MC4100)
EN 55022 - Europe
(MC1500, MC4100)
EN 55024 - Europe
(MC1500, MC4100)
MIC - Korea (MC4100)
KCC - Korea (MC4100)

For other countries and regions, please contact your local Meru representative for more specific regulatory information.

Meru Networks | develops and markets wireless infrastructure solutions that enable the All-Wireless Enterprise. Its industry-leading innovations deliver pervasive, wireless service fidelity for business-critical applications to major Fortune 500 enterprises, universities, healthcare organizations and local, state and federal government agencies. Meru's award-winning Air Traffic Control technology brings the benefits of the cellular world to the wireless LAN environment, and its WLAN System is the only solution on the market that delivers predictable bandwidth and over-the-air quality of service with the reliability, scalability and security necessary to deliver converged voice and data services over a single WLAN infrastructure.

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