

Meru Wireless Controller Family

Intelligent Architecture for Converged Voice and Data Wireless LAN

KEY PRODUCT BENEFITS:

- Centralized control for easy configuration and management
- Effortless AP deployment with no need for channel planning or complex site surveys
- Toll quality voice even in dense client environments
- Seamless client mobility across subnets
- Multi-layered security including WPA, 802.11i, automatic rogue access point prevention and location-based access policies



ENABLING TODAY'S CONVERGED VOICE & DATA WIRELESS LAN NETWORK

Today's enterprises are moving rapidly to a single IP network for data and voice applications. At the same time, many are implementing wireless LAN to provide anytime, anywhere access to business critical applications. Meru not only delivers all required elements for today's larger wireless LAN deployments, but goes farther by future proofing the network for toll quality voice over Wi-Fi.

- Centralized configuration and management for ease of deployment
- Multi-layer security approach
- Eliminates channel planning and co-channel interference problems
- Integrates easily with existing infrastructure
- Scalable solution set for large enterprise to branch offices

SUPPORT WIRELESS VOIP WITH TOLL QUALITY

Wireless VOIP is a rapidly emerging application that increases corporate productivity and efficiency while reducing costs. Customers and partners can easily reach your employees where cell phone coverage may be spotty or unusable indoors, even when away from their offices.

- Air Traffic Control deterministically schedules voice traffic to avoid contention
- Meru's cellular-like coordination across multiple APs allows zero hand off times
- Automatic flow recognition of SIP, H.323, Spectralink and Vocera voice protocols
- Users experience glitch-free toll quality voice

ENSURE CORPORATE DATA PRIVACY WITH MULTI-LAYER SECURITY POLICIES

Security concerns are primary in the mind of network administrators deploying wireless LANs. Meru understands this and addresses these concerns through a multi-layer approach. Security policies follow users as they roam, without reauthentication or degradation of performance.

- Wi-Fi Alliance Certified™ for WPA
- Automatic rogue access point detection and prevention without degradation of client traffic
- Multiple ESSIDs with individual security policies to ensure separation of different user groups

UNSURPASSED PERFORMANCE IN HIGH DENSITY ENVIRONMENTS

High densities of wireless clients are common in many environments, including conference centers, hospital emergency admitting rooms and university libraries and auditoriums. The Meru WLAN Controller brings new methods to deal with the bandwidth demands and increased contention that a rapidly growing client population will bring.

- Air Traffic Control technology delivers intelligent contention management
- Removes direct and indirect sources of contention which causes back off
- Results in 10-fold increase in client density
- Removes need for complex channel planning

DELIVER TRUE WIRELESS QUALITY OF SERVICE FOR MULTIPLE APPLICATIONS, USER GROUPS

Today's wireless LAN systems provide quality of service only in the downstream direction – from the access point to the client. The reverse direction - traffic from the client to the access point - is unmanaged, so high priority traffic or latency sensitive applications like voice have no method to guarantee access the channel in a timely manner. Meru uniquely solves this problem with Air Traffic Control™ technology.

- Guaranteed high priority traffic delivery for mission critical applications
- Upstream and downstream quality of service
- Quality of service prioritizes traffic from clients to access point
- No client software required
- Interoperable with any Wi-Fi certified device

CENTRALIZED MANAGEMENT FOR EASE OF DEPLOYMENT

Wireless LAN deployments are larger and more complex than just a few years ago. They are not only in the corporate office, but spread out to remote and branch offices. Meru greatly simplifies deployment and ongoing management for global deployments.

- Auto discovery and configuration of access points
- RF intelligence automatically selects best power and channel settings
- Centralized intelligence automatically load balances clients for consistent, reliable throughput





MNxxx-MCx

APPLICATION SUPPORT AND OVER-THE-AIR QoS	SIP and H.323 support	Support for SIP and H.323v1 applications and codecs
	QoS Rules	Configurable Dynamic QoS Rules
		Over-the-air upstream and downstream 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)	
SECURITY	Authentication	Combination of VPN, 802.1x and open authentication
		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
	Security Policy	Access control entries supported per user, per AP (MAC filtering) Multiple ESSID/BSSID each with its own Security Policy
Dual Radios	Centralized, continuous Rogue AP detection and suppression/permit for 802.11a and 802.11b/g	
MOBILITY	Zero-loss Handoffs	Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients
	Multi-vendor	Interoperates with non-Meru AP's for hand offs
	High Availability	Active/Standby configuration for automatic failover and recovery
		No performance degradation with increased Wi-Fi clients 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
	System management	Centralized and remote management and software upgrades via System Director webbased GUI, SNMP, Cisco-like Command-Line Interface (CLI) via serial port, SSH, Telnet
		Centralized Security Policy for WLAN, Multiple ESSIDs and VLANs with their own administrative/security policies
	Intelligent RF Management	Coordination of APs with load-balancing for predictable performance
Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs Co-channel interference management		

MODEL	MN505-MC1	MN015-MC2/MN030-MC3	MN025-MC4/MN050-MC5/MN075-MC6/MN100-MC7/MN150-MC8
Application	Remote Office Small Office	Mid-Size Enterprise Branch Office	Large-Scale Enterprise
Performance			
AP's Supported	Up to 5	Up to 30	Up to 150
Max MTU	1546 Bytes	1546 Bytes	1546 Bytes
Interfaces			
Dual 10/100s	Yes		
Dual 10/100/1000s		Yes	Yes
Serial Port	Yes	Yes	Yes
Indicators			
Power - On/Off	Yes	Yes	Yes
Status	Yes	Yes	Yes
Ethernet Ports	LED Link/Activity/Speed	LED Link/Activity/Speed	LED Link/Activity/Speed
Power			
110VAC/220VAC	27W	200W	300W
Auto Ranging			
Dimensions			
H x W x D	1.4in x 7.6in x 5in	1.75in x 17in x 13.1in	1.75in x 17in x 16.25in
Mounting	Mini-desktop	1U rack mount	1U rack mount
Meru Part No.	MN-MC505-xx	MN-MC1015-xx/MN-MC1030-xx	MN-MC3025-xx/MN-MC3050-xx/MN-MC3075-xx/MN-MC3100-xx/MN-MC3150

