

IRONPOINT MOBILITY

MC5000 CONTROLLER



SCALABLE, RELIABLE SYSTEM FOR LARGE CONVERGED
VOICE AND DATA WIRELESS NETWORKS

KEY HIGHLIGHTS

- ▶ Supports up to 1000 APs per chassis and is designed to meet the higher bandwidth and scalability demands of the 802.11n wireless LAN infrastructure
- ▶ Unique multi-layer security approach with automatic detection and prevention of rogue APs
- ▶ Intelligent contention management provides the highest possible wireless client density
- ▶ QoS for traffic prioritization both upstream and down assures toll quality voice for latency sensitive VoIP applications
- ▶ Auto-discovery and configuration of APs without time intensive manual tuning to select the ideal power or channel settings
- ▶ Automatic load balancing of clients for consistent, reliable throughput

Overview

The IronPoint Mobility Series MC5000 Controller from Foundry provides a flexible and dynamically scalable solution with unprecedented reliability for large enterprises and branch offices. This fully extendible modular hardware system allows network administrators to securely manage and easily control their wireless network while meeting mission critical enterprise demands. As part of the IronPoint Mobility Series Controller family, the MC5000 is a multi-gigabit, five blade chassis controller that provides centralized configuration and management for ease of deployment, multilayer security, N+1 redundancy, and scalability while eliminating co-channel interference and the need for channel planning.

Advanced Capabilities

- ▶ With support for IEEE security standards and Foundry's unique multi-layer security approach, security policies follow users as they roam without re-authentication. Rogue APs are automatically detected and prevented without performance degradation.
- ▶ Over-the-Air Quality of Service technology provides:
 - Intelligent contention management allowing the WLAN to effectively meet growing bandwidth demands and support the highest possible wireless client density
 - Quality of Service (QoS) for traffic prioritization both upstream and down to guarantee access for latency-sensitive applications, assuring toll quality voice over Wireless LANs
- ▶ Auto discovery and configuration of APs automatically selects best power and channel settings without time intensive manual tuning.

Technical Specifications

VOICE OVER IP SUPPORT

- SIP and H.323 support
- Dynamic out-of-the-box support for SIP and H.323v1 applications and codecs
- Automatic, stateful flow detectors for SIP, H.323, Cisco SCCP, SpectraLink SVP and Vocera
- Call Admissions Control and Call Load Balancing

QUALITY OF SERVICE

- Configurable dynamic QoS rules
- Over-the-air resource reservation
- User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)
- WMM Support

SECURITY

- 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 with customizable Captive Portal using RADIUS
- Radius assisted, per-user and per-ESSID access control via MAC Filtering
- Multiple ESSID/BSSID, each with the flexibility of separate and shared security policy
- Centralized, continuous rogue AP detection and suppression or permission for 802.11a and 802.11b-g
- 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
- Interoperates with non-Foundry Mobility Series APs for roaming support

HIGH AVAILABILITY

- N+1 Controller configuration for automatic fail-over 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

WIRED/WIRELESS SUPPORT

- IEEE 802.1Q VLAN tagging
- GRE Tunneling
- IEEE 802.1D Spanning Tree Protocol

CENTRALIZED MANAGEMENT

- Zero-configuration
- Automatically selects power and channel settings
- Automatically discovers controllers and downloads configuration settings
- Zero touch, plug and play deployments
- 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 and security policies
- 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

PHYSICAL SPECIFICATIONS

- Operating temperature: 0° to 40°C / 32° to 104°F
- Operating humidity (RNC): <95% @ 40°C / 104°F
- Storage and transit temperature: -40° to 85°C / -40° to 185°F
- Storage and transit humidity (RNC): <95% @ 40°C / 104°F
- EMC: FCC Part 15/ICES-003 Class A; Japan VCCI Class A; EU EN 55022 and EN 55024
- Safety: cUL 60950-1; IEC/EN 60950-1; CB scheme and report with current national deviations per country certification
- Standard warranty: Hardware: 1 year, Software: 90 days
- Supports up to 1000 APs
- Supports up to 10 Gbps of unencrypted throughput
- Ethernet interfaces (per controller blade): 4 10/100/1000 Base-T or 2 1000 Base-X SFP
- Serial port: (RJ-45)
- Power indicators: On/Off
- LED Status: Ethernet ports: LED Link/Activity/Speed
- Shelf management: Alarms for health status for each blade within the system
- Power consumption: Per blade: 200W, per chassis: 1200W
- Dimensions (H x W x D): 10.5" x 19" x 15"
- Mounting: 6U rack mount



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