

E(z)RF Service Assurance Manager

Intelligent Wireless Wellness Monitoring System



The Meru Networks® E(z)RF™ Service Assurance Manager is the industry's only proactive diagnostic application for remotely diagnosing the health of business-critical 802.11 wireless networks without requiring any overlay sensors. This application runs end-to-end network diagnostic tests to determine the link quality and capacity of the wireless network without human intervention.

As part of the E(z)RF Application Suite, E(z)RF Service

Assurance Manager runs on Meru Service Appliance (SA1000) and is fully integrated with E(z)RF Network Manager.

KEY PRODUCT BENEFITS:

- Configurable and always available end-to-end system tests, enable IT administrators to proactively detect network issues, minimizing network downtime.
- Remote control of diagnostic tests saves on-site visits.
- Leverages the existing Meru wireless infrastructure, with no need for extra sensors, resulting in optimal use of investment.
- Automation for a variety of wireless profiles, saves the operational expense of setup->test->analyze->rectify cycles.
- Inject real traffic into the live network while not disrupting service
- End-to-end performance tests enable rapid detection of wired-side mis-configurations such as VLAN or RADIUS.
- Customizable notifications enable administrators the ability to provide 24x7 support with minimal effort.

DETECT INFRASTRUCTURE ISSUES BEFORE END-USER SEES IT

Traditional approaches to wireless troubleshooting include after-the-fact on-site visits, packet-captures or completing labor intensive site surveys. With Meru E(z)RF Service Assurance Manager, the network automatically performs proactive health checks and reports any issues before end-users are impacted, including VLAN and RADIUS mis-configurations.

NO OVERLAY SENSORS ARE REQUIRED

Customers can leverage their existing Meru Networks wireless network to perform diagnostic tests due to the Meru Virtual Client that gets instantiated on the Meru Access Points. Virtual Client does not impact servicing or performance of real clients.

OPTIMIZE IT STAFF TIME BY SAVING ON TRUCK-ROLLS FOR ON-SITE TROUBLE-SHOOTING

Service Assurance Manager eliminates the need to send IT staff on site to setup a test network, run diagnostic tests and analyze results on a variety of wireless security profiles. Service Assurance Manager facilitates all the tasks remotely, without human intervention, increasing IT productivity.

CUSTOMIZABLE NETWORK BASELINE AND NOTIFICATIONS ENABLE 24X7 SUPPORT

Create network baselines and run diagnostic connectivity, latency and throughput tests at configured intervals or on demand, with results automatically notified to specified administrators. This enables 24x7 support of business-critical wireless networks with minimal effort.



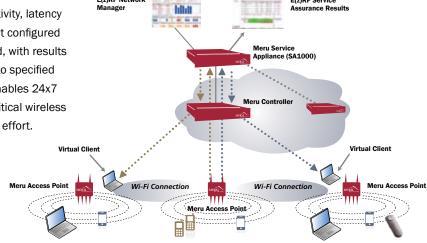






Figure 2: E(z)RF Service Assurance Manager Health Check Results

FEATURES & SPECIFICATIONS

GRAPHICAL USER INTERFACE		
FEATURE	DESCRIPTION	
Configure Health Check Profile	Test types – connectivity including loss, latency and throughput. Run tests instantly OR schedule continuously, hourly, daily, weekly User configurable 'good', 'bad' latency and loss thresholds	
Notification Filters	Customize Notification filters including: Start time Severities (critical, major, Info) Messages with health check profiles	
Radius Configuration	Configure RADIUS info for 802.1x based authentication including: ESSID Shared Secret	
Captive Portal Configuration	Configuration for testing captive portal connectivity including: URL Login ID Success ID Failure ID	
MONITOR HEALTH CH	IECK DASHBOARDS	
FEATURE	DESCRIPTION	
Completed Health Checks	Table of completed health check summary with: Overall result Number of good/fair/bad runs Start Time Type of test	
In progress Health Checks	Table of health checks in progress with: Test name Test type Start time State of execution	
Drill down Health Check runs	Details shows test results for each of the ESS on every radio in the controller with start time using a Virtual Client. Next level of drill-down to specific Virtual Client or Station.	
E(z)RF Network Manager Integration	Virtual Client or Station details integrated with Network Manager's Station Trend Dashboard Visualize heat-maps AP Locator with flashing icons Notification profiles	
Virtual Client/ Station Details	Show short and long term transmit/receive statistics. Throughput overall Total frames count Frames success Frames failure Bytes success	

REPORTS	
FEATURE	DESCRIPTION
Summary Reports	Mailed to configured recipients
Detailed Reports	Available by drilling down form summary reports
PLATFORM SPECIFIC	ations
ITEM	SPECIFICATION
Manager running on S	its the product specifications for the Meru E(z)RF Service Assurance Service Appliance (SA1000). Note that E(z)RF Service Assurance Manage RF Network Manager on the same SA1000.
SA1000 with	Dual power supply RAID sub-system with replaceable hard-disks (each 250 GB) Core 2 Duo Processor
Package Content	2 Ethernet cables (one spare) DB9 serial cable 2 power cables Documentation disk with E(z)RF Network Manager 2.0 Getting Started Guide Release Notes User Guide
Supported Browsers	• Firefox 3.x • Internet Explorer 7.x
Supported Controllers	MC1000 and higher
System Director Support	• 3.6.1-SR1



- Failure bytes