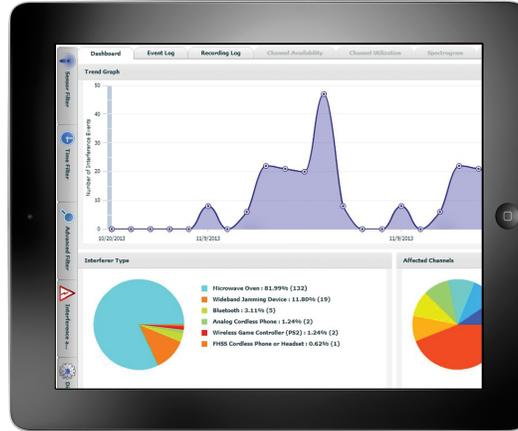


Spectrum Manager



Spectrum Analysis and Management Software

Detect, classify, and manage wireless interference

Meru Spectrum Manager, a Meru Center pre-installed application, is a software application that detects and classifies sources of wireless interference to ensure optimal spectrum usage and high service levels. By proactively keeping you informed about Wi-Fi interference, Spectrum Manager lets you take actions to alleviate problems by removing, adjusting for, or working around the sources of interference.

Administrators can proactively manage channel interference issues, avoiding problems before they occur. Graphical dashboard displays and reports provide actionable intelligence on the health of your wireless spectrum, giving you deep insight into both current and historical data.

Spectrum Manager gathers interference data from a network of dedicated Meru PSM3x sensors and selected access points. The software creates detailed logs on a broad range of wireless interference sources. The information captured includes the type of interferer, signal strength, impacted channels, start/end time, and duration. Spectrum Manager is fully integrated with Service Assurance Manager, correlating data to let you quickly determine if any connectivity failures are caused by interference. The Spectrum Manager is part of the Meru Center pre-installed application set.

Features	Benefits
Proactive spectrum management and analysis	Ensures optimal spectrum usage for high wireless LAN service levels
Continuous scanning on the 2.4 GHz and 5 GHz frequency bands	Delivers comprehensive spectrum visibility and control
Integration with Service Assurance Manager to correlate connectivity test failures with interference	Allows you to quickly identify root causes of connectivity issues caused by interference
Automated RF signature mapping, visualization, and location mapping	Enable you to rapidly work around wireless interference
Graphical dashboards and detailed reports	Provides actionable current and historical insight into interference data

Applications: Any environment where wireless interference is a challenge, especially manufacturing/industrial, retail, healthcare, and hospitality environments such as cruise ships and stadiums.

Technical Specifications

Detection and classification of RF interferers including:

- Microwave ovens (conventional)
- Microwave ovens (inverter)
- Wireless video cameras (analog and digital)
- Analog cordless phones
- FHSS cordless phones
- DSSS cordless phones
- Bluetooth devices
- Wireless baby monitors
- Wireless gaming controllers
- RF jammers
- Motion detectors (S-Band radar-based)

1-4 second typical classification time

802.11 preamble detection (OFDM and DSSS)

Estimates channel utilization for both 802.11 and non-802.11 traffic

PLATFORM SPECIFICATIONS

Hardware Appliance Platforms

SA250 Services Appliance

SA2000 Services Appliance

Virtual Appliance System Requirements

Minimum hardware specifications: 8 GB memory,

500 GB disk space, 2.0 GHz CPU

VMware support: VMware Server, VMware ESX/ESXi Version 4.1 and later

Supported Browsers

Internet Explorer 9 and higher

Mozilla Firefox 23.0 and higher

Google Chrome, version 28.0.1500.95 m and higher

Sensor Compatibility

PSM3x – Dedicated sensor

AP433is – One of its three radios functions as an integrated sensor

AP1010i/e, AP1020i/e, AP332i/e, AP832i/e, AP822i/e-Rev1 – Supports Sensor Mode

PSM3X SENSOR SPECIFICATIONS

Embedded classification processor with dedicated memory

40 MHz analysis bandwidth

80 MHz sampling frequency

Concurrent 2.4 GHz and 5 GHz WLAN frequency band sampling

-90 dBm to 0 dBm detection range

Frequency bands: 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.875 GHz

Warranty for PSM3x Sensor

Limited lifetime warranty

PART NUMBERS

SM1000-0025 Spectrum Manager – supports up to 25 Sensors

SM1000-0025-VE Spectrum Manager Virtual Edition – supports up to 25 sensors

PSM3x Spectrum Manager sensor

AP433is Tri-radio access point with integrated antennas. Includes two 3-stream 802.11a/b/g/n radios and one spectrum analyzer radio.

AP110x, AP1010x, AP1014x, AP1020x, AP332x, AP832, AP822-rev1 These APs can be enabled to support Sensor Mode via software configuration.

Meru delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network. For more information, visit www.merunetworks.com or email your questions to: meruinfo@merunetworks.com.

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