

FortiWLM MEA - Release-Notes

Version 8.6.1



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Change log

Date	Change description
2021-04-20	FortiWLM MEA 8.6.1 release version.

Product Overview 5

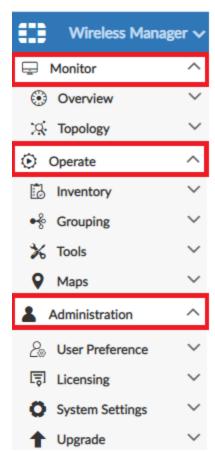
Product Overview

The Wireless Manager Management Extension Application (FortiWLM MEA) web based application suite is an intelligent management system that helps you to easily manage your wireless network. You can manage controllers and access points mapped to the network to provide real-time data that enables centralized and remote monitoring of the network. For more information on feature usage, see the FortiWLM MEA Configuration Guide.

The FortiWLM MEA container is hosted on the FortiManager integrated platform that provides centralized management of Fortinet products and other devices. You can access FortiWLM MEA to monitor FortiGate controllers from the FortiManager application. You can monitor networks with FortiGate deployments, and stations and access points' usage and diagnostic information (individually and groups) using the FortiWLM MEA.

Note: To ensure a secured Wi-Fi network, Fortinet hardware (controllers and access points) are designed to run only the proprietary firmware developed by Fortinet. Only approved Fortinet access points are configurable with Fortinet controllers and vice versa. Third party access points and software cannot be configured on Fortinet hardware.

FortiWLM MEA supports specific options of the **Monitor**, **Operate**, and **Administration** tabs for FortiGate controllers. You can add and manage FortiGate controllers (with the available options).



Product Overview 6

Tab	Description
Monitor	 Overview – Dashboards that provide a summary view of all network statistics. These dashboards provide at-a-glance system information related to APs, AP groups, stations, station groups, application monitoring, fault management, and heat maps. The Network Health dashboard monitors the devices in your wireless network and provides a health summary of the devices. Topology – Illustrated physical and logical placement of devices such as APs, controllers, and stations in your network.
Operate	 Inventory – Discover and manage controllers and access points. Grouping – Controllers, APs, and stations are grouped for management purpose. Tools – Provides station activity log with station events within the selected time interval, syslog with log details of operations performed on the FortiWLM MEA, and diagnostics with logs and other files. Maps – Create maps to track your APs visually.
Administration	 User Preference – Create notification profiles to trigger email notifications for specific recipients when a managed controller goes down. A notification filter is provided to indicate the type of error that triggers notification. Licensing – Import license key files, request for a license and then upload it. System Settings – Manage specific system settings such as configuring server parameters, configuring SMTP mail servers for email notification, administering SNMP, and configuring the archival policy for station activity logs. Upgrade – Upgrade the FortiWLM MEA server to a new released version or install a patch

Related Documentation 7

Related Documentation

This release of FortiWLM MEA delivers a comprehensive set of following documentation:

- Online Help integrated into the FortiWLM MEA application
- FortiWLM MEA 8.6.1 Administration Guide

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What's New

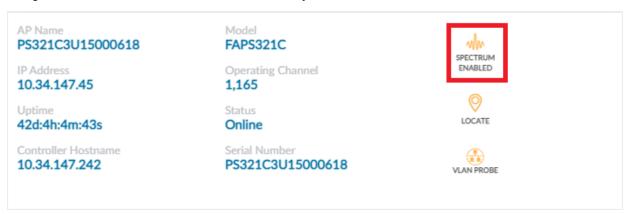
In this release of FortiWLM MEA, the following new features and functionalities are delivered.

- Spectrum Analyzer on page 8
- VLAN Probe on page 8
- FortiGate Controllers Scale Deployment on page 9
- · Others on page 9

Spectrum Analyzer

The Spectrum Analyzer Dashboard screen presents the interference information gathered from various radios. It provides a graphical representation of the interference devices activity in the 2.4Ghz and 5Ghz spectrum.

Navigate to *Monitor* > *Overview* > *AP* and click the **Spectrum Enabled** icon in the AP details tile.



Note: Spectrum Analyzer is supported on all AP models.

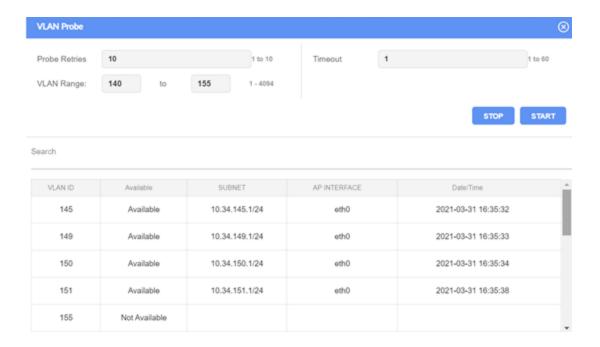
- FAP-U models support Spectrum Analyzer only if the radio is configured in **Dedicated Monitor** mode.
- FAP models support Spectrum Analyzer in AP mode and **Dedicated Monitor** mode; in the AP mode, the radio scans only operating channels.
- FAP-U43xF supports Spectrum Analyzer only on radio 3 configured in the Dedicated Monitor mode.

VLAN Probe

VLAN probe feature enables FortiAPs to probe connected VLANs and subnets. It sends DHCP probes from the FortiAP's Ethernet interface to specific VLANs on the wired interface and returns information on their availability and subnet details. This helps diagnose and troubleshoot WiFi deployment issues.

Navigate to *Monitor* > *Overview* > *AP* and click the **VLAN Probe** icon in the AP details tile.

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FortiGate Controllers - Scale Deployment

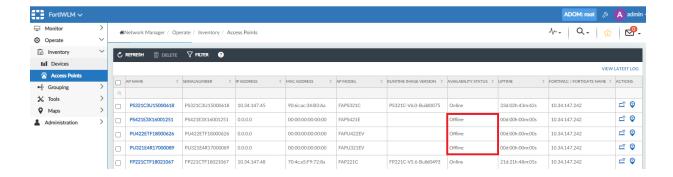
With this release you can monitor and manage FortiGate controllers concurrently associated with APs and stations in a large scale setup as per the following limits.

Supported Limits	FortiWLM MEA
Maximum Number of FortiGate controllers	600
Maximum Number of APs	2000
Maximum Number of Stations	25000
Licenses included (number of APs)	3 (without license)

Others

Offline access points are now displayed in the *Operate > Inventory > Access Point* page.

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Supported FortiOS

The following versions of FortiOS are supported with this release of FortiWLM MEA.

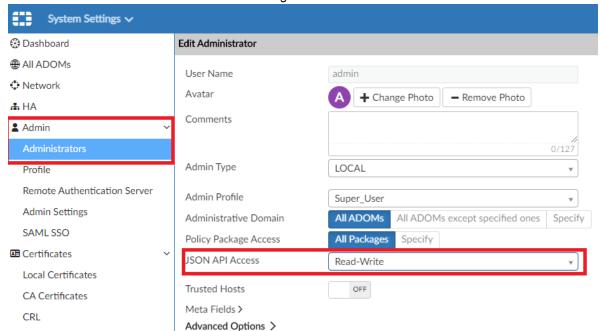
- 6.0.6 (limited monitoring)
- 6.2.0
- 6.2.1
- 6.2.2
- 6.2.3
- 6.4.0
- 6.4.1
- 6.4.2
- 6.4.3
- 6.4.4
- 6.4.5
- 7.0.0

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Enabling FortiWLM MEA

Follow this procedure to enable FortiWLM MEA.

- 1. Connect to the FortiManager GUI.
- 2. Navigate to System Settings > Administrators > Admin and set JSON API Access to Read-Write. This enables communication between FortiManager and FortiWLM MEA.



3. Navigate to Management Extensions and click the FortiWLM tile.



Note: After FortiManager is restored, FortiGate controllers are in the offline state in FortiWLM MEA. Disable the offline state in the FortiManager manually and all FortiGate controllers appear online after approximately 10 minutes.

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Operational Guidelines

This section describes information related to the usage of FortiWLM MEA/FortiGate.

- Third parties cannot query FortiWLM MEA data using SNMP.
- Application control is supported on FortiOS version 6.2.2 and later.
- Station activity logs are supported on FortiOS version 6.2.0 and later.

Features	FortiOS Versions				
	6.0.6	6.2.0/6.2.1	6.2.2/6.2.3	6.4.0/6.4.1/6.4.2/6.4.3/6.4.4/ 6.4.5	7.0.0
Dashboard Status					
Application Control	X	X	✓	✓	/
Station Data	✓	✓	✓	✓	✓
Station activity logs	X	✓	✓	✓	✓
AP Dashboard					
Retry %	X	Χ	✓	✓	✓
Loss %	X	Χ	✓	✓	✓
Channel Utilization%	✓	1	✓	✓	✓
SNR (dBm)	Χ	X	✓	✓	✓
Average Throughput	X	X	X	X	✓
Station Dashboard					
Retry %	Χ	Χ	✓	1	✓
Loss %	Χ	✓	✓	✓	✓
Channel Utilization%	X	X	X	X	X
SNR (dBm)	✓	✓	✓	/	✓

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SNMP Configurations

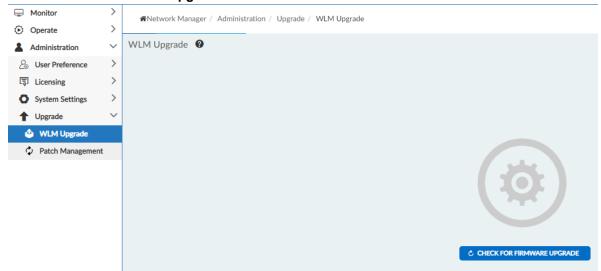
SNMP Traps use port 10162 to receive the AP down Alarm from FortiGate. The following FortiGate configuration is required in the FortiGate GUI.

- 1. Navigate to **System > SNMP**.
- Create/edit SNMP v1/v2c configuration with Traps configured to use 10162 as the Local Port and Remote Port.

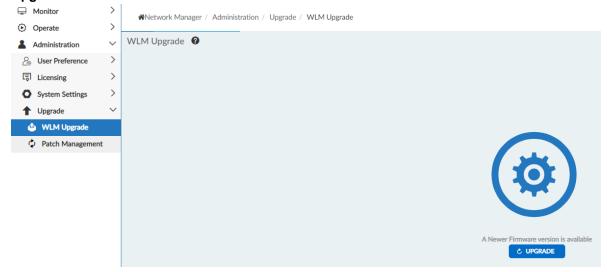
Upgrading FortiWLM MEA

To upgrade your FortiWLM MEA, navigate to **Administration > Upgrade** in the GUI.

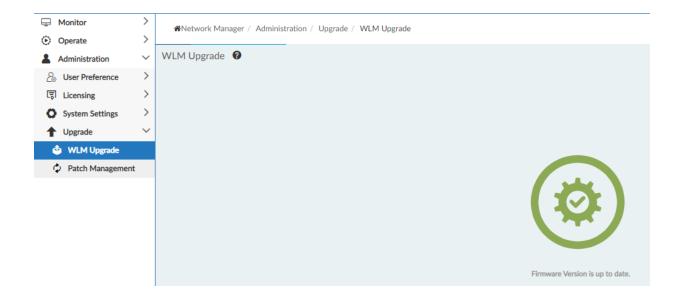
1. Click Check For Firmware Upgrade.



2. FortiWLM MEA checks for the available new release versions and the upgrade option appears. Click **Upgrade**.



FortiWLM MEA is upgraded to the new firmware version.



Known Issues 17

Known Issues

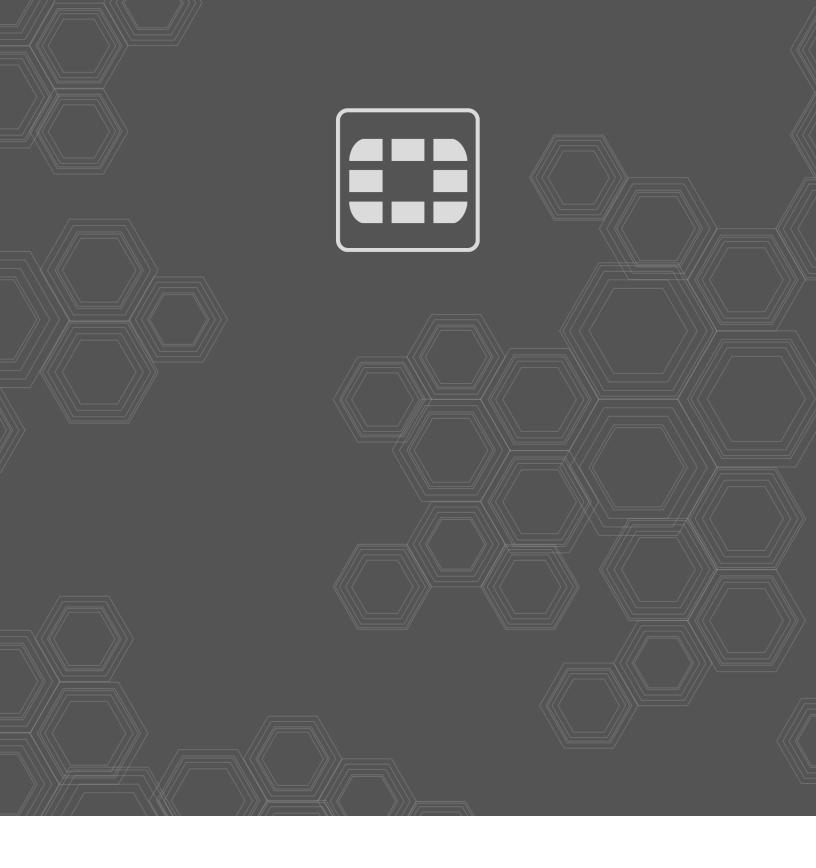
These are the known issues in this release of FortiWLM MEA.

Bug ID	Description	Impact	Workaround
614988	Search operation does not work for all records in the station activity log.		
627299	Mismatched FortiAnalyzer events in the station activity log of FortiWLM MEA.		
645328	[FAP-421E] The operating channel for both radios is displayed as 0.		
656127	The Managment Administrative State is the only editable field in the Device inventory.		
703316	FortiGate does not respond when the VLAN Probe timeout value is configured at 60 seconds.		

FortiGate Known Issues

These are the FortiGate known issues in this release of FortiWLM MEA.

Bug ID	Description	Impact	Workaround
596765	Incorrect AP throughput value is displayed in the AP dashboard.		
606980	TX and RX rates are not displayed for stations.		
607039	TX and RX rates are not displayed for APs.		
607065	Station retries data is not displayed in the AP and station dashboards.		
607938	Only 100 records are fetched at a time for FortiCloud based events.		
610902	Station channel utilization data is not displayed in the AP and station dashboards.		



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