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RUCKUS Unleashed Multi-Site Manager Release Notes, 2.4

Supporting Unleashed Multi-Site Manager Release 2.4

Contents

Document History

Revision Number	Summary of changes	Publication date
B	Minor updates on content to address defect.	September 2020
A	New enhancement and the features for the UMM 2.4 release.	August 2020

Overview

Overview of Unleashed Multi-Site Manager

This document provides release information about the software including new features, enhancements, known issues, caveats, workaround, upgrade details and interoperability information.

Unleashed Multi-Site Manager (UMM) is a centralized WiFi Management application that securely manages, monitor, and controls RUCKUS WiFi system (such as Unleashed networks, ZoneDirector networks and wireless bridge AP P300) over the internet or IP network. It is a network management system (NMS) that provides capabilities such as configuration, fault detection, audit, performance management and optimization of remote Smart Wi-Fi networks from a single point

Browsers and Languages Supported

RUCKUS strongly recommends that you use the latest release of an officially-supported browsers to view the Unleashed Multi-Site Manager user interface.

Officially Supported Browsers include Firefox and Chrome.

Internet Explorer and Safari are not supported.

This release of the software only supports English language.

New in This Release

This section provides a high-level overview of several key features that are introduced in this release of Unleashed Multi-Site Manager. For detailed descriptions of these features and configuration help, refer to the Unleashed Multi-Site Manager User Guide for this release.

New Features

Unleashed Managed ICX Switch Configuration

For Unleashed Managed ICX switches, UMM 2.4 has added switch upgrade, configuration backup or restore function support. All the limitation and process flow are the same with direct managed ICX switches.

Report Contents Enhancement

UMM 2.4 has removed uncertain reports from AP or WLAN or Client reports.

Two Installation Modes

UMM 2.4 allow customers to choose any of the UMM installation mode: Standard or Lite.

Standard mode is for general UMM customers like previous versions.

Lite mode is for customers who care about AP state management only and wants to manage more Unleashed networks. There is no client data and reports for lite mode.

For lite mode, UMM could manage up to 10,000 Unleashed networks with 1 to 3 APs per network.

Edit Unleashed Name

UMM has added a flexible button to edit the Unleashed name. Public API is also supported.

Edit WLAN VLAN Setting

UMM has added a flexible button to edit the Unleashed WLAN VLAN. Public API is also supported.

Two New Events for Unleashed State

UMM has added two new events for real-time state identification. The Unleashed websocket connected or disconnected are the two new events.

Based on the events, the customers can determine if Unleashed is available to configure.

Other Enhancements

The following are the other enhancements of Unleashed Multi-Site Manager 2.4.

- UMM has enhanced performance to support 10,000 groups.

- Display master MAC in device list public API and UI.

- UMM management port: A default HTTP port 8443 is assigned for the Unleashed Multi-Site Manager 2.4 WebUI login.

- Port for device registration: By default, HTTP port 443 is used for the Unleashed Multi-Site Manager 2.4 device registration.

- ICX switches use port 443 and SSH port 22 to register to UMM server by default.

- The HTTP port 80 is used when Unleashed Multi-Site Manager manage 10.1 ZoneDirector or 10.2 ZoneDirector, and 200.5 Unleashed devices.

Known Issues

This section lists the caveats, limitations, and known issues for Unleashed Multi-Site Manager 2.4.

• The Unleashed Multi-Site Manager server will not be able to fetch data from ICX switches if you disable SNMP or telnet services on the switch.

• Unleashed Multi-Site Manager fails to restore 10.2 Zone Director's configuration (ZF-19821).

Hardware and Software Support

Platforms Supported

Unleashed Multi-Site Manager securely manages and controls ICX switch, Unleashed APs and ZoneDirector WiFi networks. You must be aware of the platforms it supports to manage them.

UMM 2.4 Standard Mode

This release supports the following platforms:

ZoneDirector Model	Software Version Supported
10.4 MR ZoneDirector	
ZD1200	zd1200_10.4.1.0.214.ap_10.4.1.0.214.img
10.4 ZoneDirector	
ZD1200	zd1200_10.4.0.0.69.ap_10.4.0.0.69.img
10.3 ZoneDirector	
ZD1200	zd1200_10.3.0.0.362.ap_10.3.0.0.362.img

This release supports the following Unleashed AP models:

> **NOTE**
> Redirection, configuration backup, restore, upgrade and editing WLAN will not work until the tunnel is up for Unleashed Networks running versions 200.6 or later.

Unleashed AP Model	Software Version Supported
200.9 Unleashed Networks	
R710	R710_200.9.10.4.202.bl7
T610	T610_200.9.10.4.202.bl7
T610S	T610s_200.9.10.4.202.bl7
R610	R610_200.9.10.4.202.bl7
T710	T710_200.9.10.4.202.bl7
T710S	T710s_200.9.10.4.202.bl7
R720	R720_200.9.10.4.202.bl7
R510	R510_200.9.10.4.202.bl7
H510	H510_200.9.10.4.202.bl7
H320	H320_200.9.10.4.202.bl7
T310D	T310d_200.9.10.4.202.bl7
T310N	T310n_200.9.10.4.202.bl7
T310C	T310c_200.9.10.4.202.bl7
T310S	T310s_200.9.10.4.202.bl7

Hardware and Software Support
Platforms Supported

Unleashed AP Model	Software Version Supported
E510	E510_200.9.10.4.202.bl7
C110	C110_200.9.10.4.202.bl7
R320	R320_200.9.10.4.202.bl7
M510	M510_200.9.10.4.202.bl7
R750	R750_200.9.10.4.202.bl7
R550	R550_200.9.10.4.202.bl7
R650	R650_200.9.10.4.202.bl7
T750	T750_200.9.10.4.202.bl7
T750-SE	T750-se_200.9.10.4.202.bl7
200.8 MR Unleashed Networks	
R710	R710_200.8.10.3.278.bl7
T710	T710_200.8.10.3.278.bl7
T710S	T710s_200.8.10.3.278.bl7
R510	R510_200.8.10.3.278.bl7
H510	H510_200.8.10.3.278.bl7
H320	H320 _200.8.10.3.278.bl7
R610	R610_200.8.10.3.278.bl7
T610	T610_200.8.10.3.278.bl7
T610S	T610s_200.8.10.3.278.bl7
R720	R720 _200.8.10.3.278.bl7
C110	C110_200.8.10.3.278.bl7
E510	E510_200.8.10.3.278.bl7
T310N	T310n_200.8.10.3.278.bl7
T310S	T310s_200.8.10.3.278.bl7
T310C	T310c_200.8.10.3.278.bl7
T310D	T310d_200.8.10.3.278.bl7
R320	R320_200.8.10.3.278.bl7
M510	M510_200.8.10.3.278.bl7
R750	R750_200.8.10.3.278.bl7
200.8 Unleashed Networks	
R710	R710_200.8.10.3.239.bl7
T710	T710_200.8.10.3.239.bl7
T710S	T710s_200.8.10.3.239.bl7
R510	R510_200.8.10.3.239.bl7
H510	H510_200.8.10.3.239.bl7
H320	H320 _200.8.10.3.239.bl7
R610	R610_200.8.10.3.239.bl7
T610	T610_200.8.10.3.239.bl7
T610S	T610s_200.8.10.3.239.bl7
R720	R720 _200.8.10.3.239.bl7
C110	C110_200.8.10.3.239.bl7
E510	E510_200.8.10.3.239.bl7

Unleashed AP Model	Software Version Supported
T310N	T310n_200.8.10.3.239.bl7
T310S	T310s_200.8.10.3.239.bl7
T310C	T310c_200.8.10.3.239.bl7
T310D	T310d_200.8.10.3.239.bl7
R320	R320_200.8.10.3.239.bl7
M510	M510_200.8.10.3.239.bl7
R750	R750_200.8.10.3.239.bl7
200.7 MR Unleashed Networks	
R500	R500_200.7.10.202.118.bl7
R600	R600_200.7.10.202.118.bl7
R310	R310_200.7.10.202.118.bl7
T300	T300_200.7.10.202.118.bl7
T300-E	T300e_200.7.10.202.118.bl7
T301-N	T301n_200.7.10.202.118.bl7
T301S	T301s_200.7.10.202.118.bl7
R710	R710_200.7.10.202.118.bl7
T610	T610_200.7.10.202.118.bl7
T610-S	T610S_200.7.10.202.118.bl7
R610	R610_200.7.10.202.118.bl7
T710	T710_200.7.10.202.118.bl7
T710-S	T710s_200.7.10.202.118.bl7
R720	R720_200.7.10.202.118.bl7
R510	R510_200.7.10.202.118.bl7
H510	H510_200.7.10.202.118.bl7
H320	H320_200.7.10.202.118.bl7
T310-D	T310d_200.7.10.202.118.bl7
T310-N	T310n_200.7.10.202.118.bl7
T310-C	T310c_200.7.10.202.118.bl7
T310-S	T310s_200.7.10.202.118.bl7
E510	E510_200.7.10.202.118.bl7
C110	C110_200.7.10.202.118.bl7
R320	R320_200.7.10.202.118.bl7
M510	M510_200.7.10.202.118.bl7
200.7 Unleashed Networks	
R500	R500_200.7.10.2.339.bl7
R600	R600_200.7.10.2.339.bl7
R310	R310_200.7.10.2.339.bl7
T300	T300_200.7.10.2.339.bl7
T300-E	T300e_200.7.10.2.339.bl7
T301-N	T301n_200.7.10.2.339.bl7
T301S	T301s_200.7.10.2.339.bl7
R710	R710_200.7.10.2.339.bl7

Unleashed AP Model	Software Version Supported
T610	T610_200.7.10.2.339.bl7
T610-S	T610S_200.7.10.2.339.bl7
R610	R610_200.7.10.2.339.bl7
T710	T710_200.7.10.2.339.bl7
T710-S	T710s_200.7.10.2.339.bl7
R720	R720_200.7.10.2.339.bl7
R510	R510_200.7.10.2.339.bl7
H510	H510_200.7.10.2.339.bl7
H320	H320_200.7.10.2.339.bl7
T310-D	T310d_200.7.10.2.339.bl7
T310-N	T310n_200.7.10.2.339.bl7
T310-C	T310c_200.7.10.2.339.bl7
T310-S	T310s_200.7.10.2.339.bl7
E510	E510_200.7.10.2.339.bl7
C110	C110_200.7.10.2.339.bl7
R320	R320_200.7.10.2.339.bl7
M510	M510_200.7.10.2.339.bl7

This release supports the following ICX switches:

> **NOTE**
> ICX switches use ports 443 and 22 to register to the Unleashed Multi-Site Manager server by default.

ICX Switches	Software Version Supported
ICX 7150, ICX 7250, ICX 7450 , ICX 7650 , ICX 7750, ICX 7850	FastIron 08.0.90, 08.0.91 and 08.0.92

This release supports the following wireless bridge AP model:

AP Model	Software Version Supported
P300	P300_100.1.0.9.105.bl7

> **NOTE**
> This release of Unleashed Multi-Site Manager does not support standalone APs (except the wireless bridge P300). Unleashed Multi-Site Manager can only monitor P300.

UMM 2.4 Lite Mode

This release supports the following platforms:

ZoneDirector Model	Software Version Supported
10.4 MR ZoneDirector	
ZD1200	zd1200_10.4.1.0.214.ap_10.4.1.0.214.img
10.4 ZoneDirector	
ZD1200	zd1200_10.4.0.0.69.ap_10.4.0.0.69.img

ZoneDirector Model	Software Version Supported
10.3 ZoneDirector	
ZD1200	zd1200_10.3.0.0.362.ap_10.3.0.0.362.img

This release supports the following AP models.

Unleashed AP Model	Software Version Supported
200.9 Unleashed Lite Mode	
R710	R710_200.9.10.4.202.bl7
T610	T610_200.9.10.4.202.bl7
T610S	T610s_200.9.10.4.202.bl7
R610	R610_200.9.10.4.202.bl7
T710	T710_200.9.10.4.202.bl7
T710S	T710s_200.9.10.4.202.bl7
R720	R720_200.9.10.4.202.bl7
R510	R510_200.9.10.4.202.bl7
H510	H510_200.9.10.4.202.bl7
H320	H320_200.9.10.4.202.bl7
T310D	T310d_200.9.10.4.202.bl7
T310N	T310n_200.9.10.4.202.bl7
T310C	T310c_200.9.10.4.202.bl7
T310S	T310s_200.9.10.4.202.bl7
E510	E510_200.9.10.4.202.bl7
C110	C110_200.9.10.4.202.bl7
R320	R320_200.9.10.4.202.bl7
M510	M510_200.9.10.4.202.bl7
R750	R750_200.9.10.4.202.bl7
R550	R550_200.9.10.4.202.bl7
R650	R650_200.9.10.4.202.bl7
T750	T750_200.9.10.4.202.bl7
T750-SE	T750-se_200.9.10.4.202.bl7

Software Installation

Hardware Requirements and Specifications

The amount of memory and CPU power required on the Unleashed Multi-Site Manager server depends on the number of Controller devices and APs that software is to manage, and Purge Policy on the system setting.

Refer to the following table as the examples of the minimum recommended RAM and CPU for the hosting computer.

TABLE 1 Recommended hardware specifications

UMM Mode	Managed Devices	RAM	CPU	Hard Disk Space	Purge Policy
Standard	Up to 150 Unleashed network (total 1500 APs and 300 ICX switches)	16 GB	4 cores (e.g. Intel Core i5-3550 CPU @ 3.30GHz)	300 GB, RAID 0 (4 SATA 6GBPS SSD)	7 days
	Up to 100 Unleashed network (total 1000 APs and 200 ICX switches)				90 days
	Up to 3500 Unleashed network (total 15000 APs and 6000 ICX switches)	64 GB	32 cores (e.g. Intel (R) Xeon (R) Gold 5220 CPU @ 2.20GHz)	1 TB	7 days
	Up to 1000 Unleashed network (total 10000 APs and 2000 ICX switches)				90 days
Lite	Up to10000 Unleashed networks (total 10000 APs and 10000 ICX switches)	16 GB	8 cores (e.g. Intel (R) Xeon (R) Gold 5220 CPU @ 2.20GHz)	100GB, Raid0 (4 SATA 6.0 GBPS SSD)	NA
	Up to 10000 Unleashed networks (total 20000 APs)				
	Up to 10000 Unleashed networks (total 40000 APs and 10000 ICX switches)	32 GB			
	Up to 1000 ZoneDirector (total 50000 APs)				
	Up to 1000 ZoneDirector (total 10000 APs) and 40000 Unleashed Networks (total 40000 APs)		16 cores (e.g. Intel (R) Xeon (R) Gold 5220 CPU @ 2.20GHz)		

Software Requirements and Specifications

You must ensure that the following software requirements are met before installing or upgrading Unleashed Multi-Site Manager to the latest release.

- Officially Supported Linux operation systems:
    - CentOS release 6.5 (64 bit)
    - CentOS release 7.2 (64 bit)
    - Red Hat Enterprise Linux Server release 6.5 (64 bit)
    - Red Hat Enterprise Linux Server release 7.2 (64 bit)
- RUCKUS recommends that you use the 'Web Server' option during RedHat Enterprise or CentOS installation.
- Before installing this version of Unleashed Multi-Site Manager, you must upgrade Openssl and its library to the right Linux version as specified:
    - RedHat or CentOS 6.x: Openssl 1.0.1 or later
    - RedHat or CentOS 7.x: Openssl 1.0.2 or later

    For example, you can issue this command to upgrade Openssl version with Linux

    ```
    yum upgrade openssl 1.0.2
    ```
- Ports Configuration:

    The Unleashed Multi-Site Manager software may have port conflicts with the hosting computer, especially if the hosting computer is used to serve other purposes. Modify the port numbers during installation, as necessary.

License Information

You must be aware of how licenses are used.

- There are 3 kinds of Unleashed Multi-Site Manager licenses file: one for each - ZoneDirector, Unleashed and ICX switch.
- An ICX switch consume Unleashed Multi-Site Manager licenses according to its units.
- When trial license expire, Unleashed Multi-Site Manager checks the license number and sets the devices status to *License Exceeded*, and stops managing and monitoring the device.
- By default a new Unleashed Multi-Site Manager installation provides 1 Unleashed license. Again by default, it provides 100 ZoneDirector license and 1 Unleashed license when you upgrade the software from FlexMaster version to Unleashed Multi-Site Manager.
- Unleashed Multi-Site Manager consumes its license count for APs under ZoneDirector according to its ZoneDirector's AP capacity; and not the number of APs that have joined the ZoneDirector. For example, ZD3500 consumes 500 Unleashed Multi-Site Manager licenses even if it manages 100 APs. Standby ZoneDirector will not consume any AP license on Unleashed Multi-Site Manager.
- Unleashed Multi-Site Manager consumes its Unleashed AP license count according to the connected Unleashed AP number.
- Any AP license updates on Unleashed Multi-Site Manager can take a while (1~60 minutes) to be reflect.

Firewall Ports that Must Be Open for Communication

The following table lists the ports that need to be open for different types of communications.

TABLE 2 Firewall Ports That Must Be Open for Unleashed Multi-Site Manager Communications

Communication	Ports
ZoneDirector and Unleashed (Device)	
HTTPS port for Device registration	TCP destination port 443
HTTPS port for WebUI login	TCP destination port 8443
HTTP	TCP destination port 80
SSH	TCP destination port 22
SSH Tunnel (nginx)	TCP destination port 9443

Software Upgrade

Upgrading Unleashed Multi-Site Manager

For better upgrade process control, the software application is delivered in tar format. There are new upgrade scripts and patch files in this tarball.

Follow these steps to upgrade the software:

> **NOTE**
> Unleashed Multi-Site Manager 2.4 uses two HTTPS port. By default, port 443 is used for device registration and port 8443 is used for WebUI login. Open these two HTTPS ports before upgrading to Unleashed Multi-Site Manager 2.4 release from a previous release.

1. Upload the patch file (e.g. 2.1_2.2_2.3-2.4.0.0.25.tar) to the Unleashed Multi-Site Manager server.

2. Copy the patch file (e.g. 2.1_2.2_2.3-2.4.0.0.25.tar) to the Unleashed Multi-Site Manager folder (for example, **/home/UMM**) using the following command:

   ```
   [root@localhost home]# cp /home/2.1_2.2_2.3-2.4.0.0.25.tar /home/UMM/
   ```

3. Extract the patch file using the following command:

   ```
   [root@localhost UMM]# tar -vxf 2.1_2.2_2.3-2.4.0.0.25.tar
   ```

4. Upgrade the software using the following command:

   ```
   [root@localhost UMM]# ./upgrade.sh 2.4.0.0.25
   ```

   > **NOTE**
   > Before you upgrade, ensure that the *.patch file (e.g. 2.4.0.0.25.patch) is extracted from the tar file.

Upgrade Path

If you are running an older version of the software, you can upgrade it to the latest released versions and must also ensure that the devices managed by the software application are also upgraded.

The official upgrade path supported is from:

- from Unleashed Multi-Site Manager 2.1.0.0.27 to Unleashed Multi-Site Manager 2.4.0.0.25
- from Unleashed Multi-Site Manager 2.2.0.0.40 to Unleashed Multi-Site Manager 2.4.0.0.25
- from Unleashed Multi-Site Manager 2.3.0.0.33 to Unleashed Multi-Site Manager 2.4.0.0.25

The software and ZoneDirector controllers are updated in the following order:

1. Upgrade Unleashed Multi-Site Manager first, and then upgrade the ZoneDirector controllers or the Unleashed APs.

2. Upgrade Unleashed Multi-Site Manager and the managed devices one release at a time.

   > **NOTE**
   > RUCKUS recommends that you clean the Web browser's cache and cookie after upgrade for better performance.

NOTE
When there is an upgrade of UMM from 2.1 release, the administrator needs to re-import the Certification as it is lost during the upgrade.