# Ruckus
# Unleashed Multi-Site Manager Release Notes

**Supporting Software Release 2.0**

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# Contents

# About this Release

# Overview of Unleashed Multi-Site Manager

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

Unleashed Multi-Site Manager is a centralized WiFi Management application that securely manages, monitor, controls and upgrades Ruckus WiFi system over the internet or IP network. It is a linux based management application that provides capabilities such as configuration, fault detection, audit, performance management and optimization of remote Smart Wi-Fi APs and their controllers from a single point

By downloading this software and subsequently upgrading ZoneDirector, please be advised that:

- The ZoneDirector periodically connects to Ruckus, and Ruckus collects the ZoneDirector serial number, software version and build number. Ruckus transmits a file back to the ZoneDirector and this is used to display the current status of the ZoneDirector Support Contract.
- Please be advised that this information may be transferred and stored outside of your country of residence where data protection standards may be different.

# Hardware Requirements and Specifications

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

Refer to the following table for the minimum recommended RAM and CPU for managing ZoneDirector devices.

**TABLE 1** Minimum recommended RAM and CPU

| Managed Devices | Minimum RAM | Minimum CPU | Min Hard Disk Space Req. | Purge Policy |
|---|---|---|---|---|
| Up to 80 full load Unleashed networks or 500 ZD managed APs | 8 GB | 4 core processor such as 3.30 GHz Intel® Core i5-3550 or equivalent | 300 GB | 7 days |
| Up to 300 full load Unleashed networks or 10,000 ZD managed APs | 48 GB | 32 cores processor such as Dell R710 platform with Xeon® E5-2650 or equivalent | 1 TB | 7 days |

> **NOTE**
> User Equipment session services provide more accurate client traffic reports. However, if Unleashed Multi-Site Manager is managing many ZoneDirector controllers, then the software database may become overloaded with inputs. Enable User Equipment sessions in Administer > System Settings.

# 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.

- CentOS release 6.5 (64 bit)

- CentOS release 7.1 (64 bit)

- Red Hat Enterprise Linux Server release 6.5 (64 bit)

- Red Hat Enterprise Linux Server release 7.1 (64 bit)

- Ruckus Wireless recommends that you use the 'Web Server' option during RedHat Enterprise or CentOS installation. Do not use the 'Minimal' option, since that causes application to fail during startup (ZF-6874).

- Before installing this version of Unleashed Multi-Site Manager you must install jemalloc. Follow these steps to install jemalloc:

  1. Download jemalloc based on your linux version from http://pkgs.org/download/libjemalloc.so.1()(64bit)

  2. Upload jemalloc to the software server and install it with command:

     ```
     rpm -Uvh jemalloc-3.6.0-1.el6.x86_64.rpm
     ```

     For more information about jemalloc, see http://www.canonware.com/jemalloc/.

  3. Install and upgrade the software application.

# Supported Platforms and Browsers

## Platforms Supported

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

This release supports the following ZoneDirector models:

| ZoneDirector Model | Software Version Supported |
|---|---|
| ZD3000 | zd3000_10.0.0.0.1424.ap_10.0.0.0.1424.img |
| | zd3k_9.13.0.0.232.ap_9.13.0.0.232.img |
| | zd3k_9.13.1.0.11.ap_9.13.1.0.11.img |
| | zd3k_9.13.2.0.33.ap_9.13.2.0.33.img |
| ZD1200 | zd1200_9.13.0.0.232.ap_9.13.0.0.232.img |
| | zd1200_10.0.0.0.1424.ap_10.0.0.0.1424.img |
| | zd1200_9.13.1.0.11.ap_9.13.1.0.11.img |
| | zd1200_9.13.2.0.33.ap_9.13.2.0.33.img |
| ZD5000 | zd5k_9.13.0.0.232.ap_9.13.0.0.232.img |
| | zd5k_9.13.1.0.11.ap_9.13.1.0.11.img |
| | zd5k_9.13.2.0.33.ap_9.13.2.0.33.img |

This release supports the following Unleased AP models:

| Unleashed AP Model | Software Version Supported |
|---|---|
| R610 | R610_200.5.10.0.235.bl7 |
| T610 | T610_200.5.10.0.235.bl7 |
| T610-S | T610s_200.5.10.0.235.bl7 |
| T710 | T710_200.5.10.0.235.bl7 |
| T710-S | T710s_200.5.10.0.235.bl7 |
| R720 | R720_200.5.10.0.235.bl7 |
| R710 | R710_200.5.10.0.235.bl7 |
| H320 | H320_200.5.10.0.235.bl7 |
| R510 | R510_200.5.10.0.235.bl7 |
| H510 | H510_200.5.10.0.235.bl7 |
| R500 | R500_200.5.10.0.235.bl7 |
| R600 | R600_200.5.10.0.235.bl7 |
| R310 | R310_200.5.10.0.235.bl7 |
| T300 | T300_200.5.10.0.235.bl7 |
| T300-E | T300e_200.5.10.0.235.bl7 |

| Unleashed AP Model | Software Version Supported |
|---|---|
| T301-S | T301s_200.5.10.0.235.bl7 |
| T301-N | T301n_200.5.10.0.235.bl7 |

**NOTE**
This release of Unleashed Multi-Site Manager does not support standalone APs.

# 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.

**NOTE**
This release of the software only supports English language.

# Limitations, Issues and Release Enhancements

# Caveats, Limitations and Known Issues

This section lists the caveats, limitations, and known issues for Unleashed Multi-Site Manager in this release. Also refer to previous Release Notes documents for previously documented caveats and limitations.

## Caveats and Limitations

- The Unleashed Multi-Site Manager server does not get updated in real time. Some tasks such as backing up or restoring the ZoneDirector/Unleashed configuration, or device status is not updated until the software server receives the INFORM interval from Unleashed or ZoneDirector devices.
- The following features are not supported on Unleased networks: Event Configuration (in the **Monitor** menu) and Resource Monitoring (in the **Reports** menu).
- When you upgrade the unleashed network from version 200.5 (beta) to 200.5, its **Unleashed ID** changes automatically, and Unleashed Multi-Site Manager process the unleashed network as a new device since its ID has been changed (Bug FLEX-213)

# Enhancements and Resolved Issues

This section lists the enhancements that have been added in this release and resolved issues/bug fixes identified in previous releases.

## Enhancements

None

## Resolved Issues

None

# Upgrade Information

## 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:

1. Upload the patch file (e.g. 9.13.0.0.12-9.13.1.0.9_patch.tar) to the Unleashed Multi-Site Manager server.

2. Copy the patch file (e.g. 9.13.0.0.12-9.13.1.0.9_patch.tar) to the Unleashed Multi-Site Manager folder (for example, **/opt/UMM/**) using the following command:

   ```
   # cp cp /home/9.13.0.0.12-9.13.1.0.9_patch.tar/opt/UMM/
   ```

3. Extract the patch file using the following command:

   ```
   # tar -vxf 9.13.0.0.12-9.13.1.0.9_patch.tar
   ```

4. Upgrade the software using the following command:

   ```
   # ./upgrade.sh 9.13.1.0.9
   ```

   > **NOTE**
   > Before you upgrade, ensure that the *.patch file (9.13.1.0.9.patch) is extracted from the tar file.

## Important Information

You must be aware of some product limitations pertaining to port conflicts, operations behind the NAT server and must also be aware of how licenses are used.

- When Unleashed Multi-Site Manager is installed on RedHat or CentOS, the software may have port conflicts with the following. Modify those port numbers as required.

  DB (3306)

  apache (80)

  tomcat (80) or the default port on RedHat or CentOS.

  > **NOTE**
  > Ruckus recommends that you disable the Firewall on the software server or open necessary ports according to the *Unleashed Multi-Site Manager User Guide*.

- Ruckus does not recommend using Unleashed Multi-Site Manager behind NAT server.
- Speed Flex does not support monitoring devices behind the NAT server.

# License Information

- There are two software license files--one for ZoneDirector and one for Unleashed. By default, there are 0 ZoneDirector licenses and 1 Unleashed license.

- ZoneDirector consumes the Unleashed Multi-Site Manager license according to its AP license. For example, ZD3500 consumes 500 Unleashed Multi-Site Manager licenses even if it does not manage 500 APs.

- Unleashed consumes the Unleashed Multi-Site Manager license according to its connected AP number.

- The Unleashed license is updated when Unleashed Multi-Site Manager receives the INFO message from Unleashed, but the Unleashed AP connect status is updated every 15 mins. Therefore, there is delay between when Unleashed Multi-Site Manager updates the Unleashed license (every 1~60 mins) and its AP connected status (15 mins). This condition could cause inconsistencies between the connected AP and the licenses displayed on the Web interface.

- Unleashed Multi-Site Manager checks the trail licenses for devices and deletes the device if the license has expired.

- Standby ZoneDirector occupies one license but on the FlexMaster Web interface, it is displayed as zero.

# Upgrade Path

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

The official upgrade paths supported are from:

- FlexMaster 9.13.0.0.12 to Unleashed Multi-Site Manager 2.0.0.0.55
- FlexMaster 9.13.1.0.9 to Unleashed Multi-Site Manager 2.0.0.0.55

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

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

2. Upgrade Unleashed Multi-Site Manager and ZoneDirector controllers release by release.