

# RUCKUS Unleashed 200.9 GA Refresh 2 Release Notes

## Supporting Unleashed 200.9 GA Refresh 2

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# Document History

Revision Number	Summary of changes	Publication date
A	Initial release notes	March 2021

## Introduction

This document provides release information on Ruckus Unleashed release 200.9, including new features and enhancements, along with known issues, caveats, workarounds, supported platforms and upgrade information for this release.

## Introducing Ruckus Unleashed

Unleashed is a controller-less WLAN solution that allows small businesses to deliver an enterprise-class Wi-Fi user experience in a cost effective, easy to implement, intuitive and yet feature-rich platform.

An Unleashed network can scale up to 128 Access Points and 2,048 concurrent clients in bridge mode (gateway mode supports up to 25 APs and 512 clients).

For more information on Unleashed configuration, administration and maintenance, please see the Unleashed Online Help, available at <https://docs.ruckuswireless.com/unleashed/200.9/index.html>.

## New in This Release

This section lists the new features and changed behavior in this release.

### Enhancements in Release 200.9.10.4.233

- None

### Changed Behavior in Release 200.9.10.4.233

- None

### Enhancements in Release 200.9.10.4.212

- T750se

This release adds Unleashed support for the new T750se outdoor 802.11ax (Wi-Fi 6) AP.

The T750SE is a 4x4:4 outdoor access point capable of delivering an aggregate throughput of 2.4 Gbps in the 5GHz band and 1.148 Gbps in the 2.4GHz band with an internal 120-Degree Sector antenna and option to attach external antennae. In addition, the T750SE has on-board BLE and Zigbee radios to enable IoT use-cases, and a 2.5Gbps Ethernet back-haul to support high throughput in ultra-high density deployments.

### Changed Behavior in Release 200.9.10.4.212

- None

## New Features in GA Release

- **Wi-Fi Calling and Wi-Fi Calling Troubleshooting Tool**  
This feature improves handling and overall quality of Wi-Fi Calling voice calls over Unleashed access points. When enabled, Unleashed performs additional identification, classification and marking of voice calls when the Wi-Fi calling feature is being used, and provides better voice quality by improving jitter, latency and roaming delays.
- **11ax AP Mesh**  
This release adds mesh support for 11ax (Wi-Fi 6) APs.
- **Shared DPSK**  
Allows a single user to share a single DPSK across multiple devices. By default, each DPSK is unique and mapped to a single MAC address. This option allows the admin to override this rule and allow a user to share a single DPSK across multiple devices.
- **ICX Backup/Restore via UMM**  
Provides options to perform a remote backup or restore of ICX switch configuration using Unleashed Multisite Manager (UMM).
- **WebSocket Support for UMM**  
Adds WebSocket support for UMM.
- **Factory Reset with Special Configuration Saved in CLI**  
Allows saving the current configuration via CLI command so that after a factory reset, the Master AP will come back up with the saved configuration rather than resetting all settings to factory defaults.
- **Enhancement of API "is-partial" Merge Function**  
Improved logic of "is-partial" API merge function for mobile app use.
- **Neighboring AP RF Strength Display**  
Provides additional information on neighboring APs in the web interface.
- **Secondary Preferred Master**  
Allows configuration of up to two preferred Master APs. In the event that the primary preferred Master AP is offline, the secondary preferred Master will assume the Master role. When the primary preferred Master returns online, it will resume the role again once it rejoins the Unleashed network.
- **Disable WLAN Service Master AP**  
This feature allows an admin to set the Master AP to focus on controller tasks. When enabled, the Master AP provides only controller functionality and does not provide WLAN services.
- **Channel Management Enhancement**  
This release introduces a new automatic channel assignment algorithm using Background Scanning that optimizes for the number of APs and clients and provides user control over when channel changes should occur.
- **User-Defined Time Zones**  
Allows user to define custom time zones and Daylight Savings Time start and end times.
- **Additional AP information in AP Groups**  
Provides additional AP details in the AP Group section of the web interface.
- **New CommScope + RUCKUS brand logo**  
Updates logo to new CommScope branding.
- **160 MHz Channelization**  
This release adds 160 MHz channelization support for Wi-Fi 6 APs.

- **SpeedFlex Security Enhancement**  
Adds the ability to disable SpeedFlex access from any remote device.
- **Password Reminder**  
Displays a pop-up reminder message if the admin has not set up password recovery.

## New Access Points in 200.9.10.4.202

- **Unleashed R550**  
This release adds Unleashed support for the new R550 indoor 802.11ax (Wi-Fi 6) Access Point.  
The Unleashed R550 is a 2x2:2 802.11ax access point with integrated 2-port Ethernet interfaces designed for medium-density, small to mid-sized indoor enterprise WLAN applications. The R550 provides two 1-Gbps Ethernet ports, a USB port and onboard Zigbee/BLE radio support for IoT applications.
- **Unleashed R650**  
This release adds Unleashed support for the new R650 indoor 802.11ax (Wi-Fi 6) Access Point.  
The Unleashed R650 is a dual-band 4x4:4 indoor Wi-Fi 6 Access Point featuring one 2.5 Gbps Ethernet port that supports 802.3af/at Power Over Ethernet, one 1 Gbps (non-PoE) Ethernet port, onboard BLE/ZigBee, and a USB port for IoT applications. Designed for medium to high density venues, such as education, the R650 is a mid-high tier AP appropriate for many verticals such as carrier, enterprise, hospitality, health care, and retail deployments.
- **Unleashed R850**  
This release adds Unleashed support for the new R850 indoor 802.11ax (Wi-Fi 6) Access Point.  
The Unleashed R850 is a dual-band Wi-Fi 6 Indoor access point with 12 radio chains, operating in 8x8:8 mode on the 5GHz band and in 4x4:4 mode on the 2.4GHz band, supporting peak PHY rates of 4.8Gbps (5GHz) and 1.148Gbps (2.4GHz). The R850 has one 5 Gbps PoE Ethernet port and one 1 Gbps port, onboard BLE and Zigbee radios for IOT applications, and a USB port for additional connectivity. The R850 will operate with PoH, uPOE and 802.3at power.
- **Unleashed T750**  
This release adds Unleashed support for the new T750 outdoor dual-band concurrent 802.11ax (Wi-Fi 6) Access Point.  
The Unleashed T750 is a carrier-grade dual-band concurrent 4x4:4 outdoor Wi-Fi 6 Access Point featuring an SFP/SFP+ fiber backhaul option, one 2.5 Gbps Ethernet port that supports 802.3af/at/bt Power Over Ethernet, one 1 Gbps (non-PoE) Ethernet port, onboard BLE/ZigBee, and a USB port for IoT applications. Targeted for service provider outdoor WLAN applications, the T750 form factor allows mounting to outdoor street furniture, buildings and rooftops and inside pedestals.

## Hardware and Software Support

### Supported Platforms

Unleashed version **200.9.10.4.233** supports the following Ruckus AP models:

Indoor AP	Outdoor AP
C110	E510
H320	T310c
H510	T310d

Indoor AP	Outdoor AP
M510	T310n
R320	T310s
R510	T610
R550*	T610s
R610	T710
R650*	T710s
R710	T750*
R720	T750se*
R750	
R850*	

**NOTE**

Unleashed R550, R650, R850, and T750 were new in the GA release; T750se is new in the GA Refresh 1 release.

## Upgrade Information

### Supported Upgrade Paths

The following release builds can be directly upgraded to Unleashed version **200.9.10.4.233**:

**Online Upgrade:**

- 200.7.10.2.339 (Unleashed 200.7 GA)
- 200.7.10.102.64 (Unleashed 200.7 MR1)
- 200.7.10.202.118 (Unleashed 200.7 MR2)
- 200.7.10.202.121 (Unleashed 200.7 MR3)
- 200.8.10.3.243 (Unleashed 200.8 GA)
- 200.8.10.3.278 (Unleashed 200.8 MR1)
- 200.8.10.3.290 (Unleashed 200.8 MR2)
- 200.9.10.4.202 (Unleashed 200.9 GA)
- 200.9.10.4.212 (Unleashed 200.9 GA Refresh 1)

**NOTE**

To upgrade to 200.9 using the online upgrade method, your Unleashed network must be running **200.7** or later. If your network is running an earlier release, first upgrade to 200.7, then continue to upgrade to 200.9.

**Local Upgrade:**

- 200.2.9.13.186 (Unleashed 200.2 GA)
- 200.3.9.13.228 (Unleashed 200.3 GA)
- 200.4.9.13.47 (Unleashed 200.4 GA)
- 200.5.10.0.235 (Unleashed 200.5 GA Refresh 1)
- 200.5.10.0.291 (Unleashed 200.5 GA Refresh 3)
- 200.6.10.1.308 (Unleashed 200.6 GA)

## Known Issues

- 200.6.10.1.310 (Unleashed 200.6 GA Refresh 1)
- 200.6.10.1.312 (Unleashed 200.6 GA Refresh 2)
- 200.7.10.2.339 (Unleashed 200.7 GA)
- 200.7.10.102.64 (Unleashed 200.7 MR1)
- 200.7.10.202.118 (Unleashed 200.7 MR2)
- 200.7.10.202.121 (Unleashed 200.7 MR3)
- 200.8.10.3.243 (Unleashed 200.8 GA)
- 200.8.10.3.278 (Unleashed 200.8 MR1)
- 200.8.10.3.290 (Unleashed 200.8 MR2)
- 200.9.10.4.202 (Unleashed 200.9 GA)
- 200.9.10.4.212 (Unleashed 200.9 GA Refresh 1)

## Known Issues

This section lists the caveats, limitations and known issues in this release.

<b>Issue</b>	UN-4561
<b>Description</b>	LLDP restarts repeatedly and AP fails to join master after channelization change on 11ax APs.

<b>Issue</b>	UN-4511
<b>Description</b>	Running the <b>get election</b> command from a member AP does not always retrieve the entire AP list.

<b>Issue</b>	UN-4527
<b>Description</b>	MAP R750 and R610 channelization are not successfully being set to 160MHZ.

## Resolved Issues

This section lists any customer-reported issues from previous releases that have been resolved in this release.

### Resolved Issues in Build 200.9.10.4.233

- Resolved an issue where an Unleashed AP reboots due to memory leakage. [ER-9496]
- Resolved an issue where the client cannot ping the gateway sometimes. [ER-9426]

### Resolved Issues in Build 200.9.10.4.212

- Fixed an R750 target-assert issue. [ER-8674]
- Adjusted MU-MIMO functionality for better-distributed throughput in environments with a large number of MU-capable clients.[ER-8417]
- Added a mechanism to detect a surge of *phy* errors after an offchannel scan so that recovery can occur before a large dip in throughput is observed. [ER-8416]
- Resolved an issue where traffic flooding would sometimes occur. [ER-8625]



- Resolved an issue so that an error message pops up in the GUI when the number of configured MAC address has exceeded the limit. [ER-8781]
- Resolved an issue where an AP would unexpectedly reboot under certain conditions. [ER-8862]
- Hiding some unnecessary information in syslog. [ER-8875]
- Fixed an issue where an imported certificate was not working after a master failover. [UN-4771]
- Fixed an issue where the location-based services (LBS) function was not working with Unleashed APs. [UN-4725]
- Fixed an issue where clients were experiencing intermittent packet loss. [ER-8946]

