

# RUCKUS LTE AP Management Release Notes, 22.02

**Supporting Software Release 22.02**

© 2022 CommScope, Inc. All rights reserved.

ARRIS, the ARRIS logo, COMMSCOPE, RUCKUS, RUCKUS WIRELESS, the Ruckus logo, and the Big Dog design are trademarks of CommScope, Inc. and/or its affiliates. Wi-Fi Alliance, Wi-Fi, the Wi-Fi logo, Wi-Fi Certified, the Wi-Fi CERTIFIED logo, Wi-Fi Protected Access, the Wi-Fi Protected Setup logo, Wi-Fi Protected Setup, Wi-Fi Multimedia and WPA2 and WMM are trademarks or registered trademarks of Wi-Fi Alliance. All other trademarks are the property of their respective owners.

No part of this content may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from CommScope, Inc. and/or its affiliates ("CommScope"). CommScope reserves the right to revise or change this content from time to time without obligation on the part of CommScope to provide notification of such revision or change.

CommScope provides this content without warranty of any kind, implied or expressed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. CommScope may make improvements or changes in the products or services described in this content at any time. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

# Contents

---

- Overview..... 5**
- LTE AP Management 21.02 Release Notes..... 7**
  - New in this Release..... 7
    - Feature List..... 7
    - Supported APs ..... 7
    - Release Information..... 8
  - Upgrading AP Software..... 9
    - Downgrading AP Software..... 9
    - Determining Software Upgrade or Downgrade..... 9
- Issues and Fixes..... 11**
  - Resolved Issues..... 11
  - Open Issues..... 11
- Limitations..... 13**
  - Band Change..... 13
  - Adding AP After Deletion..... 13
  - CBSD- SAS Communication..... 13



# Overview

---

This release of RUCKUS LTE AP Management includes UI enhancements and defect fixes.



# LTE AP Management 21.02 Release Notes

- [New in this Release](#)..... 7
- [Upgrading AP Software](#)..... 9

## New in this Release

### Feature List

The following sections lists new features for the LTE AP Management release.

- **LTE AP Management GUI Enhancement** : From the RUCKUS LTE AP Management GUI, you can view the Cell 1 status and Cell 2 status of an AP. For more information, refer to the *RUCKUS Cloud LTE AP Management Guide*.
- Addressed the **Log4J** vulnerability issue. For more information, refer to the information provided here: <http://support.ruckuswireless.com/log4j-ruckus-technical-support-response-center>.

### Supported APs

The following table lists the supported LTE APs in the current release.

**TABLE 1** Supported LTE APs

APs	Category	Property
Q410	Indoor	<ul style="list-style-type: none"><li>• Plug-in LTE: Low power AP</li><li>• Stand-alone or plugged with R510/R610 Wi-Fi AP models.</li></ul> <p><b>NOTE</b> Q410 always connects with PoE+ source only. Wi-Fi APs may derive power from "PoE out" port on Q410 when plugged-in.</p> <ul style="list-style-type: none"><li>• Single RF Carrier, 2x2 @ 1/2 W EIRP</li><li>• Ceiling or Wall mount</li></ul>
Q710	Indoor	<ul style="list-style-type: none"><li>• High-Capacity LTE</li><li>• Dual RF Carrier 2x2 @ 1W EIRP</li><li>• Ceiling or Wall mount</li></ul>
Q910	Outdoor	<ul style="list-style-type: none"><li>• Category A LTE</li><li>• Dual RF Carrier 2x2 @ 1W EIRP</li><li>• Pole, Wall, or Strand-mount</li></ul>

**TABLE 1** Supported LTE APs (continued)

APs	Category	Property
Q950	Outdoor	<ul style="list-style-type: none"> <li>• High Power Outdoor</li> <li>• Category B CBSD</li> <li>• Up to 50/100W EIRP achievable with external antennas</li> <li>• 4T4R, 200Mbps (40MHz)</li> <li>• Fiber AND Ethernet w/daisy chaining</li> <li>• -48VDC</li> </ul>

## Release Information

This section summarizes product information for the RUCKUS LTE AP Management 22.02 release.

Product Name: RUCKUS LTE AP Management

Release Version: 22.02\_LTE (Build 34)

Release available: 18 February 2022

- **Management Service:** Feature enhancements and defect fixes.

As per the current implementation, RUCKUS Cloud Wi-Fi supports firmware version SC 4.2 and later. Since APs with firmware version earlier than SC 4.2 are no longer supported, RUCKUS Cloud Wi-Fi will have unexpected behavior if APs are running with firmware version earlier than SC 4.2.

## Server IP Addresses

Service	FQDN	Address	Protocol 1	Protocol 2	Protocol 3	Protocol 4
Qualcomm® Location (XTRA Predicted Satellite Data Service)	<a href="http://xtrapath1.izatcloud.net">xtrapath1.izatcloud.net</a>	Geo	TCP/80 HTTP			
Ruckus SC-Registrar	<a href="http://sc-registrar.ruckuswireless.com">sc-registrar.ruckuswireless.com</a>	34.211.175.172	ICMP Echo	TCP/443 SSL		
Ruckus SC-Registrar	<a href="http://sc-registrar.ruckuswireless.com">sc-registrar.ruckuswireless.com</a>	34.212.162.133	ICMP Echo	TCP/443 SSL		
CommScope SAS (STA)	<a href="https://stasas.sascms.net:8443">https://stasas.sascms.net:8443</a>	Geo	TCP/443 SSL			
CommScope SAS (Production)	<a href="https://cbsd-iot.sascms.net:8443">https://cbsd-iot.sascms.net:8443</a>	Geo	TCP/443 SSL			
Federated Wireless SAS	<a href="https://sc.federatedwireless.com:443/v1.2">https://sc.federatedwireless.com:443/v1.2</a>	Geo	TCP/443 SSL			
Google SAS (STA)	<a href="https://www.google-sas.com/vendor/">https://www.google-sas.com/vendor/</a>	Geo	TCP/443 SSL			
Google SAS (Production)	<a href="https://sas.goog/v1.2/">https://sas.goog/v1.2/</a>	Geo	TCP/443 SSL			
Ruckus NTP Server	<a href="http://ntp.cloud.ruckuswireless.com">ntp.cloud.ruckuswireless.com</a>	104.154.107.129	UDP/123 NTP			
Ruckus NTP Server	<a href="http://ntp.cloud.ruckuswireless.com">ntp.cloud.ruckuswireless.com</a>	146.148.32.216	UDP/123 NTP			
Ruckus Cloud HeMS SeGW 1	NA	104.197.44.198	ICMP Echo	UDP/500 IKE	ESP Protocol 50	UDP/4500 NAT-T
Ruckus Cloud HeMS SeGW 2	NA	35.225.228.188	ICMP Echo	UDP/500 IKE	ESP Protocol 50	UDP/4500 NAT-T
Ruckus Cloud HeMS SeGW 3	NA	35.202.152.35	ICMP Echo	UDP/500 IKE	ESP Protocol 50	UDP/4500 NAT-T
Ruckus Cloud HeMS SeGW 4	NA	35.232.65.10	ICMP Echo	UDP/500 IKE	ESP Protocol 50	UDP/4500 NAT-T



**NOTE**

This list does not contain a DNS server because the AP is using the customer DNS server and therefore doesn't require a special firewall rule.

**NOTE**

Geo = IP may change depending upon the geo-location. Please type "nslookup <FQDN>" on cmd/ Terminal prompt to detect the exact IP address.

**NOTE**

This list contains ports for IKE/EXP with or without NAT-T. This list does not contain an EPC SeGW; customer is using private EPC. Addresses marked "Geo" are using geographic DNS resolution and must be statically configured on the MEC DNS server.

### How Do I Get Support?

For product support information and details on contacting the RUCKUS Customer Services and the Support Team, go to the RUCKUS Support portal: <https://support.ruckuswireless.com>, or <https://www.ruckuswireless.com> and select **Support**.

## Upgrading AP Software

This topic provides information on upgrading the AP to secure SmallCell 4.3 default build or above and also downgrading the AP from secure SmallCell 4.3 default build or above.

Follow these steps to upgrade the AP software.

**Case 1:** Base build on AP is SmallCell 4.1 or above.

1. Directly upgrade AP to SC4.3 default build or above.

**Case 2:** Base build on AP is lower than SmallCell 4.1 (SC4.0, SC3.0, SC2.4, and so on).

2. Directly upgrade AP to SC4.3 default build or above.

## Downgrading AP Software

Follow these steps to downgrade the AP software.

**Case 1:** Base build on AP is SmallCell 4.3

1. Directly downgrade AP to any other SC 4.3 patch build or default build.

**Case 2:** Base build on AP is any SC 4.3 patch build or default build to lower builds (SC4.0, SC3.0, SC2.4, and so on)

2. Downgrade the AP software to SC 4.2 intermediate (build 14).
3. Downgrade the AP software to lower builds.

## Determining Software Upgrade or Downgrade

Use this table to determine software upgrade and downgrade.

Base Build	Destination Build	Actions
SC4.3 Default build	SC4.3 Patch build	Upgrade
SC4.1 or above	SC4.3 Default build or above	Upgrade
Build lower than SC4.1 (SC4.0, SC3.0, SC2.4, and so on.)	SC4.3 Default build or above	Upgrade

**LTE AP Management 21.02 Release Notes**  
Upgrading AP Software

Base Build	Destination Build	Actions
SC4.3 Patch build	SC4.3 Default build	Downgrade
SC4.3 Patch build	4.2 build 14	Downgrade
SC4.3 Default build	Build lower than SC4.2 build 14 (SC4.2, SC4.1, SC4.0, SC3.0, SC2.4, and so on)	Downgrade AP to SC4.2 intermediate (build 14) and then downgrade AP to lower builds.

# Issues and Fixes

- [Resolved Issues.....](#) 11
- [Open Issues.....](#) 11

## Resolved Issues

There are no changes since RUCKUS LTE AP Management release 21.02.

Resolved Issues	Description
—	—

## Open Issues

Following is a list of unresolved issues in this release.

Open Issues	Description
LTE-5165	An unexpected technical error access denied appears while navigating for the AP view.
LTE-6127	In certain corner cases, the available ECGI count shows lower than expected.
LTE-6504	Not removing invalid e-mail addresses causes Amazon to lock our account
LTE-6981	Invalid date is displayed for alarms.
LTE-7141	CMP re- enrollment should not be initiated on updating crypto parameters from Cloud, and on AP reboot.
LTE-7146	Throughput is not getting updated on the Cloud.
LTE-7159:	A customer inherits the privileges from the superuser account instead of the customer account.
LTE-7160	The delete AP operation fails (error - the configuration database is locked).
LTE-7163	AP is not operational after a software downgrade.
LTE-7171	Cloud is sending the venue level LED parameter during changing any venue level parameter or software upgrade and downgrade causing the AP level LED OFF state change to ON.
LTE-7173	GPV is failing when adding AP.
LTE-7178	Errors when adding AP/Factory Reset AP and not become operational.
LTE-7181	Adding PLMN ID and re-ordering PLMN IDs fails with Error Code 9003.



# Limitations

---

## Band Change

### NOTE

We are changing the default AP configuration to Band 48 (CBRS Band). You can check the band of operation for your AP by clicking on **AP** -> **AP Properties** -> **More**.

If your Venue was previously customized to operate on Band 42/43, and you want to continue to do so, do get in touch with your Ruckus Representative for help, or open a support case.

## Adding AP After Deletion

Following the deletion of AP from a Venue, you must wait for a few minutes before adding back to the Venue to prevent a scenario where the delete operation is not completed prior to the add operation.

## CBSD- SAS Communication

The AP registration with SAS cycle (CPAS) may take up to 24 hours; thus, grant may not be available for up to 24 hours.

