

Ruckus LTE AP Management Release Notes, 2019.01

Supporting Software Release 2019.01

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Overview

This release of Ruckus LTE AP Management includes two new features, Configurable ECGI, Certified Professional Installer for Certifying APs, Configurable AP (CBSD) - SAS registration mode (single step), and defect fixes.

LTE AP Management 2019.01 Release Notes

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New in this Release

Release Information

This section summarizes product information for the Ruckus LTE AP Management 19.01 release.

Product Name: Ruckus LTE AP Management

Release Version: 19.01_LTE

Release available: September 15, 2019.

- **Management Service:** Configurable ECGI, Certified Professional Installer (CPI) and Certifying AP, and configurable AP (CBSD) - SAS registration mode (single step).
- **Mobile Application:** No changes since LTE 2018.03B release.

Server IP Addresses

Service	FQDN	Address	Protocol 1	Protocol 2	Protocol 3	Protocol 4
Qualcomm® Location (XTRA Predicted Satellite Data Service)	xtrapath1.izatcloud.net	Geo	TCP/80 HTTP			
Ruckus SC-Registrar	sc-registrar.ruckuswireless.com	34.211.175.172	ICMP Echo	TCP/443 SSL		
Ruckus SC-Registrar	sc-registrar.ruckuswireless.com	34.212.162.133	ICMP Echo	TCP/443 SSL		
CommScope SAS (STA)	https://stasas.sascms.net:8443	Geo	TCP/443 SSL			
CommScope SAS (Production)	https://cbsd-iot.sascms.net:8443	Geo	TCP/443 SSL			
Federated Wireless SAS	https://sc.federatedwireless.com:443/v1.2	Geo	TCP/443 SSL			
Google SAS (STA)	https://www.google-sas.com/vendor/	Geo	TCP/443 SSL			
Google SAS (Production)	https://sas.goog/v1.2/	Geo	TCP/443 SSL			
Ruckus NTP Server	ntp.cloud.ruckuswireless.com	104.154.107.129	UDP/123 NTP			
Ruckus NTP Server	ntp.cloud.ruckuswireless.com	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**.

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

Feature List

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

The management service under user interface is updated:

- **Configurable ECGI:** This feature enables you to create Cell Identifier (ECGI) record tables and designate record(s) to Networks during Network creation flow. This makes Cell IDs configurable according to the CBRS Alliance' guidelines ensuring uniqueness across CBRS vendors and installations. For Networks that are created using the CBRS Shared HNI (PLMN ID) = 315010; using a unique ECGI created according to the defined formula is mandatory. In case of any other HNI (Network PLMN ID) this feature is available as a choice. For more details regarding the various Cell IDs, refer to: https://www.cbrsalliance.org/wp-content/uploads/2018/12/CBRSA-TR-0100-V1.0.0_Published-November-272c-2018-1.pdf.

To purchase your own Cell and Network Identifiers, visit: <http://imsiadmin.com/contact>.

More details about this flow can be found in TSB_19.01_Tenant_ECGI_Support_v3.pdf - available in the [Knowledge Base Articles](#) (KB Articles) section on Ruckus Support portal.

- **Certified Professional Installer (CPI) Certification Capability:** With this feature, we can have a CPI provide certification to AP location data as per the requirements from FCC for successful AP to SAS registration. CPI certified professionals can now be invited as "Local Admins" to the AP management system and can execute the CPI certification actions.

Alternately, tenants can sign into their account and allow a CPI to use the session to do the needful. If a CPI is also a Ruckus VAR, the 3rd -party administrator feature can also be used to execute the CPI flow.

CPIs can provide their credentials to use for the AP certification (data encryption), validate if each APs installed location matches with it's configuration and endorse it. They do so by clicking on a Certify (CPI) button made available on each APs configuration. This can also be done via **AP list** view when more than one APs are configured.

- **CBSD-SAS Registration using CPI Certified AP data** (Single Step Only): This feature leverages the CPI feature and enables each AP to create a registration message that includes CPI certified data to the SAS provider. This feature works with CommScope, Google, and Federated Wireless SAS.

Issues and Fixes

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Resolved Issues

The following table provides information on the known issues in the current release.

Resolved Issues	Description
LTE-5614	The status of the AP remains "Contacted Cloud" and not "Connected".
LTE-5452	In certain cases, A technical error occurred dialog appears in the tenant portal.
LTE-5967	User is unable to remove an LTE network that is activated on a venue that contains APs.
LTE-5970	An attempt to access a customer account using a VAR account keeps redirecting to the VAR Dashboard.

Open Issues

Following is a list of unresolved issues in this release.

Resolved Issues	Description
LTE-6127	In certain corner cases, the available ECGI count shows lower than expected.
LTE-5973	In certain cases, using the Safari browser, in the Access Points > window, the headings of the tables disappear when the mouse pointer is paused over them.
LTE-6121	An alarm is reported multiple times on the portal while it is reported only once from LTE-AP or SeGW.
LTE-6112	The alarm bell pop-up is not expanded properly when clicked on the Alarm bell for the first time after refreshing portal when logged in using a VAR account.
LTE-6017	The GPS Availability KPI is not reported for the PTP Slave AP while the GPS cable is connected or disconnected.
LTE-6035	Discrepancy in the data is displayed in the Summary and per-AP reports.
LTE-6085	In certain cases, a few alarms and events are not reported.
LTE-6205	An unexpected technical error access denied appears while navigating for AP view .

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.



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350 West Java Dr., Sunnyvale, CA 94089 USA
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