

RUCKUS SmartZone 6.1.0 Release Notes

Supporting SmartZone 6.1.0

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Document History

| Revision Number | Summary of changes | Publication date |
|-----------------|-----------------------|-------------------|
| A | Initial release notes | 28, December 2021 |

New in This Release

This section provides a high-level overview of several key features that are introduced in the SmartZone (SZ) software release 6.1. The release 6.1 is applicable to the RUCKUS SmartZone 300 (SZ300), SmartZone 144 (SZ144), SmartZone Data Plane virtual (vSZ-D) and physical (SZ100-D), Virtual SmartZone - High Scale (vSZ-H), Virtual SmartZone - Essentials (vSZ-E) and controller platforms.

AP to Cluster Failover Enhancement

In an active/standby controller deployment, when the AP's WAN connection fails, the AP cannot reach either active or standby controller. In this situation, the AP replaces its preferred controller from active to standby. When the connection is restored, AP will connect to standby controller instead of the original controller. Release 6.1 changes this behavior and once WAN connectivity is restored, AP will connect to active (primary) controller.

AP Name Addition to Called Station ID

For deployment scenarios where the customer's AAA infrastructure requires knowledge of AP name in Called Station ID, the administrator can now choose AP name to sent. Support for using WLAN BSSID, AP MAC, None, or AP Group remains unchanged.

Backup Configuration Custom File Name for NCM Compatibility

SmartZone can be configured to schedule the process of creating backup network configurations and automatically transfer them to an FTP server. This automated backup method cannot be used with SolarWinds Network Configuration Manager (NCM) because the backup file is automatically named based on the date the configuration was generated. This is a problem because NCM requires the ability to specify the filename of the exported configuration.

This feature allows users to define a backup file name prefix. The controller combines the prefix and date/time stamp to generate the filename for automatic backups. If the prefix is not defined, the prior behavior is retained.

Configurable SSH Tunnel Port between APs and Controller

In some deployments scenarios, controller is located in private data center and APs are installed in branch offices. For security reasons, IT policy may not allow the standard SHH port 22 for communication. In such situation, customers can configure a custom port for communication between AP and the controller.

NOTE

This setting is not stored in configuration backup from the controller and a restore operation on another node will require the user to configure the port manually.

Controller Server Certificate Renewal

Controller server certificate renewal without changing the private key.

When a user renews the server certificate on the controller, it automatically generates a new key pair. This may not be desirable in many situations as the other network devices (for example, APs, DPs) may lose communication with the controller.

In release 6.1, the default behavior on certificate renewal is to preserve the key pair. Users still have the option to generate a new key pair, if required.

Creating a Switch Group Automatically when Creating an AP Zone

For customers who have both APs and Switches under management, user needs to first create AP Zones and then Switch groups manually. Having to create Zones and Switch Groups separately is cumbersome and error prone.

Now users can enable *Link Switch Group* at the Zone level and this automatically creates the Switch Group. If the user modifies the name of the Zone, the change is also propagated to the Switch Group.

This is also supported via API.

Enable Partner Domain Login using AAA Server

Managed service providers (MSPs) using RADIUS to authenticate controller administrators need to maintain separation of information between tenants on the SmartZone system.

AAA server admin authentication is now supported at *Partner Domain* level.

Enhanced Threat Management via Web Reputation

This capability now provides an added layer of security to clients by utilizing Webroot reputation score for web sites. All traffic with a web reputation score below the threshold configured by the administrator will be blocked automatically.

NOTE

URL filtering and web reputation filtering work independently of each other. URL whitelist/blacklists take precedence over URL and web reputation based filtering.

Guest Pass Self Registration

Customer looking to provide guest WLAN access typically have to go through a cumbersome manual process. With the self registration feature, controller simplifies the guest access by allowing end users to request access to WLAN directly. This improves the overall user experience and also alleviates IT overhead.

Improved AP to Data Plane Failover

If a connectivity to Data Plane (DP) is lost in deployment scenarios where AP is tunneling data to the DP, the failure to another DP may take long time. In order to reduce the failover period, release 6.1 now allows administrator to enable dual tunnel that establishes tunnels with two DPs simultaneously. If connectivity to one DP is lost, the AP can switch over to the second DP quickly. The administrator can configure the keepalive timer and retry count to fine tune the failover.

NOTE

This capability is not available when IPSec encryption is enabled.

New in This Release

Increased Limit for Unbound/Group DPSK

Increased Limit for Unbound/Group DPSK

In many scenarios, customers want to provision a large number of Dynamic Pre-Shared Key (DPSK) for situations such as a public event. To address such situations, release 6.1 increases the unbound/group DPSK scale from 500 to 5000 per WLAN.

NOTE

If a large number of DPSKs are configured on the AP, the clients may experience delayed authentication.

LDAP Enhancements

LDAP Search Filter, Duplicate IP Allow and Support Domain Name (DN) as a Certificate Common Name (CN).

Customers are looking at preventing users from different DN from authenticating on non-designated SSID. This requires different AD / LDAP profile with different DN for same IP address and port number. The user is now able to configure multiple LDAP profiles with same IP address and port with a different base DN.

Release 6.1 allows users to configure search filter for LDAP server allowing a more flexible matching criteria compared to using only key attribute.

Prior to release 6.1, the certificate for LDAP server only accepted IP address for Common Name (CN). Now fully qualified domain name (FQDN) is supported as well.

Mode Setting for Standby Cluster

In 1:1 active/standby cluster deployments, users can now choose the behavior of the standby cluster on when to serve the end devices:

1. Only when the active cluster is down, or
2. Always, even when the active cluster is available.

NOTE

This option allows customers to mimic behavior prior to release 5.2.

Moving Several APs from an AP Zone in a single API call

Moving several APs from an AP Zone to another AP Zone in a specific AP Group with a single API command.

Today, we can move APs from one AP Zone to another via API. However, APs need to be moved one by one where the API is invoked for each AP that needs to be moved. This causes an issue when the user has thousands of APs as the process becomes error prone.

The new API allows users to move multiple APs (up to 50) in a single API call.

Mutual Validation between AP/Data Plane and Controller Using Certificates

For **Zero Trust** deployments, customers now have the option of enabling mutual validation between the controller and the data plane and APs. Using X.509 certificates, customers can ensure that only valid devices are on the network.

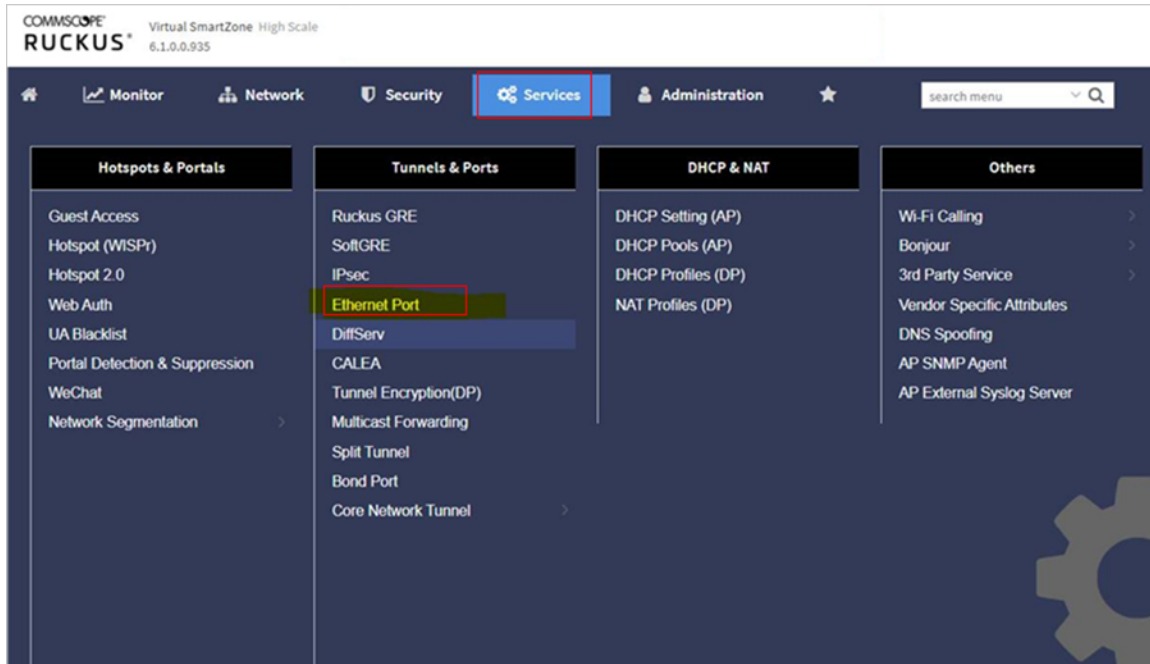
Network Segmentation

Network Segmentation allows a network administrator to easily on-board thousands of wireless and wired devices. Using *Dynamic Preshared Keys*, a network administrator can use Network Segmentation to provide highly scaled network segments. A user is provided their own network segment that is unique to them and their devices, and stays with them as they move through the property - MDU (multiple dwelling units) or a campus environment, for example.

Rate Limit Enhancements

Rate limit enhancements are:

1. Rate limit for wired port is newly introduced in 6.1 and has configurable range of 1Mbps to 1000Mbps.
2. Maximum configurable Firewall profile rate limit values is increased to 500Mbps through controller web user interface and Public API.
3. Maximum configurable SSID rate limit values is increased to 500Mbps through controller web user interface and Public API.
4. Configurable device policy profile rate limit value is 0.1 to 200Mbps through controller web user interface and Public API.
 - a. To set the rate limit on the controller web user interface navigate to **Services > Ethernet Port** .



- b. Create an Ethernet Port Profile

New in This Release

Rogue Filtering for Geo-Redundancy

Create Ethernet Port

Access Network: Default WAN
 Local Subnet(LAN)
 Tunnel Ethernet Port traffic

Anti-spoofing: OFF
 ARP request rate limit: 15 ppm
 DHCP request rate limit: 15 ppm

User Side Port: ON Number of clients allowed to be connected: 8

Port Rate Limiting: Uplink: ON 50 mbps (1-1000)
Downlink: ON 50 mbps (1-1000)

Only User port Rate Limit is supported for the wired clients. Firewall Profile Rate Limit and Device policy Rate Limit features are not supported for the wired clients.

Authentication Options

802.1X: OFF
Client Visibility: OFF
If Client Visibility is enabled, DO NOT assign this Ethernet profile to an AP uplink/WAN port.

VLAN Options

VLAN Untag ID: 1

NOTE

For details refer to the **Creating an Ethernet Port Profile** on the RUCKUS SmartZone Administrator Guide, 6.1.0 (SZ300/vSZ-H) or (SZ100/SZ144/vSZ-E).

Limitations and Exceptions

1. Wireless Clients will not be able to browse when wired clients send 500Mbps UDP (User Datagram Protocol) traffic in uplink or downlink with user port rate limit is set to 400Mbps on Ethernet 1 port. This is an HTB limitation, the total bandwidth consumed is very close to the maximum capacity of the HTB algorithm. This cannot be fixed with existing framework.
2. Throughput of Wireless client connected to non rate limit SSID and rate limit SSID gets affected when user port rate limit is enabled on Ethernet port. This is an HTB limitation and cannot be fixed with existing framework.

Rogue Filtering for Geo-Redundancy

Release 6.1 fixes an issue with rogue detection and mitigation when Geo-redundancy is enabled. When active/active Geo-redundancy is enabled, the controller marks the APs from the other geo-location as rouge and if protection is enabled, it starts mitigating actions against those APs.

SZ100 Resets to 1k Trial Licenses

SZ100 resets to 1k trial licenses every time it is factory defaulted.

When a customer sets the SZ100 to factory default, 1k AP trial licenses are renewed. Many Channel Partners complain about the fact end users are not buying AP Capacity licenses and just abuse the system by factory resetting the SZ100 on a periodic basis to expose the full capacity 1k AP trial licenses!

This release fixes the issue and also limits the default trial licenses to five for SZ100.

Scheduled Firmware Updates for AP Zones

Allows users to schedule firmware updates, either upgrades or downgrades for AP Zones. The schedule can be set for a single Zone or multiple Zones. Once the updates are completed, the user can also see the Zone firmware change history.

SNMP Monitoring Per Partner Domain

For MSP (Managed Services Providers) deployments, customers use partner domains to manage their own networks. Release 6.1 allows configuration of a per partner domain server for sending SNMP traps. Users can create profiles for SNMP server at a partner domain level and apply it to a Zone, AP Group or AP. Up to 16 profiles are supported.

Support Bundle for Troubleshooting

This feature helps administrators with improved troubleshooting capabilities and collects relevant logs into a single support bundle. Administrator can choose the types of logs to collect (including AP packet capture) as well as duration of log collection. Administrator can choose up to three APs in a WLAN for simultaneous troubleshooting.

Support for 80 Data Planes Per Four Node SmartZone Cluster

This feature improves the scalability of supported controller data planes. Support for 80 data planes (dp) per cluster (20 data planes per node) is available when CALEA / Flexi-VPN / L3Roaming are NOT being used.

Support 25 built-in AP Management Licenses for SZ144

Customers can now enjoy 25 built-in AP management licenses for SZ144 appliance. These licenses are for SZ144 only and not transferable to any other platform.

Support for Multi-VLAN Per MAC Address

SmartZone data plane now recognizes same MAC address with different VLAN ID as different end clients. This prevents situations where an end device uses different VLANs with the same MAC address and causes the data plane to constantly refresh MAC address table.

Switch Management

Below are the Switch Management features for this release.

Ability to save boot preference

Provides an option at the **switch level** to save the boot preference:

- Default
- Primary Flash
- Secondary Flash

Virtual cable testing on Switches

Provides an option to run a cable test on a selected Switch port and report the results. This feature is available for copper ports (1Gbps, 2.5Gbps and 10Gbps) with port speed set to auto.

Ability to send event email notifications at tenant level

Allows users to override domain level email notification settings for events. Users can now change settings at the Partner Domain, **Domain** (under *System Domain*), and **Switch Group**.

Update the status of a Switch

Allows users to view the latest information about switches on-demand. User can now click on the refresh icon to get an instant update on configuration status.

Ability to convert standalone Switch

Ability to convert standalone switch into a stack by adding member switches. User can select multiple switches and stack them together. They can also extend a stack by adding a new switch.

Port level storm control

User can now enable storm control including broadcast, unknown-unicast and multicast rate limiting at port level.

Blink LEDs on Switch remotely from Controller GUI

Users can now select a switch from SmartZone and blink its LEDs for a specified interval to easily identify the switch or stack.

NOTE

Requires FI 09.0.10 ICX 7250 and ICX 7450 series switches do not support this feature.

Supports ICX7850-48C

SmartZone controller can now manage ICX7850-48C switch.

IPv6 SSH tunnel connection support between Switches and Controller

Release 6.1 now supports connecting to switches through IPv6 control interface for IPv6 deployments.

Flexible authentication profile support

SmartZone now supports creation of flexible authentication profiles for switches that define how the administrator wants to handle the authentication of wired clients. Once defined, administrator can apply these profiles on any port. The following types are supported:

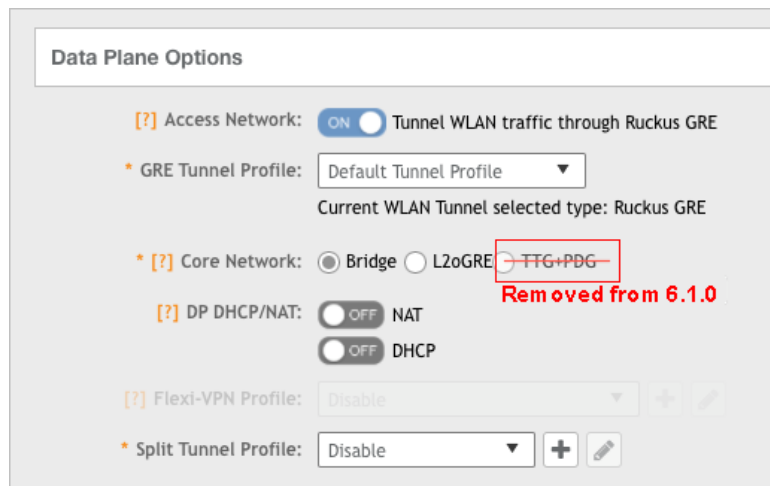
1. 802.1x
2. MAC address authentication
3. 802.1x and MAC address authentication

Syslog Setup Per Partner Domain

For MSP (Managed Services Providers) deployments, customers use partner domains to manage their own networks. Release 6.1 allows configuration of a per partner domain server for sending syslog entries. Users can create profiles for syslog server at a partner domain level and apply it to a Zone, AP Group or AP. Up to 16 profiles are supported.

TTG Feature

Starting from 6.1.0, the option TTG+PFDG in Core Network setting is removed.



User Interface Enhancements

User Interface enhancements include usability improvements, unified wired/wireless dashboard, clickable links in the dashboard and help tip improvements.

- **Unified wired/wireless dashboard:** Now it is easier to manage your wireless and wired network with controller. The dashboard has been enhanced to show both wireless and wired information so users do not have to go to two different pages for status information.
- **Usability improvements:** The tab order now defaults to showing more dynamic information.
- **Clickable links in the dashboard:** Support for deeper linking for dashboard is now available. Clicking on the **Host** in the dashboard navigates to page pointing the host selected and clicking on the **Clients > > Application Control (Summary Tab)** highlights the selected client.
- **Help tip improvements:** Miscellaneous improvements to help text in tool tips.

WPA R3 Features

Release 6.1 now supports WPA R3 (Wi-Fi Protected Access® 3) features:

1. **SAE Hash-2-Element** that mitigates side channel attacks. This is enabled by default on APs.
2. **Transition Disable Indication** that provides protection against transition mode downgrade attacks on clients. This feature is configurable through the controller web user interface.
3. For **Hotspot 2.0 access**, users can now choose WPA3 and WPA2/WPA3 mixed mode in the encryption option.

Hardware and Software Support

Overview

This section provides release information about SmartZone 300 (SZ300), SmartZone 100 (SZ100), Virtual SmartZone (vSZ), Virtual SmartZone Data Plane (vSZ-D), SmartZone Data Plane appliance (SZ100-D), SmartZone 144 (SZ-144), SmartZone 144 Data Plane appliance (SZ144-D) and Access Point features.

- The SZ300 Flagship Large Scale WLAN Controller is designed for Service Provider and Large Enterprises, which prefer to use appliances. The Carrier Grade platform supports N+1 Active/Active clustering, comprehensive integrated management functionality, high performance operations and flexibility to address many different implementation scenarios.
- The SZ100, developed for the enterprise market, is the next generation midrange, rack-mountable WLAN controller platform for the enterprise and service provider markets. There are two SZ100 models: the SZ104 and the SZ124.
- The vSZ, which is available in *High Scale* and *Essentials* versions, is a Network Functions Virtualization (NFV) based WLAN controller for service providers and enterprises that desire a carrier-class solution that runs in the cloud. It supports all of the WLAN controller features of the industry, while also enabling the rollout of highly scalable and resilient wireless LAN cloud services.
- The vSZ-D is a Virtual Data Plane aggregation appliance that is managed by the vSZ that offers organizations more flexibility in deploying a NFV architecture-aligned architecture. Deploying vSZ-D offers secured tunneling of wireless client data traffic that encrypts payload traffic; POS data traffic for PCI compliance, voice applications while enabling flat network topology, mobility across L2 subnets and add-on services like L3 Roaming, Flexi-VPN, DHCP Server/NAT as well as CALEA/Lawful Intercept.
- The SZ100-D, is the Data Plane hardware appliance, which is functionally equal to the vSZ-D virtual data plane product. The appliance provides turnkey deployment capabilities for customers that need a hardware appliance. The SZ100-D is managed by a vSZ Controller only and cannot work in a standalone mode.
- The SZ144 is the second generation mid-range rack-mountable WLAN controller platform developed for the Enterprise and Service provider markets. The SZ144 is functionally equivalent to the vSZ-E virtual controller product. SZ144 is first introduced in the software release 5.2.1. It cannot run any software prior to this release. It does not support any AP zones which run the AP firmware prior to 5.2.1.
- The SZ144-D is the second generation Data Plane hardware appliance which is functionally equivalent to the vSZ-D virtual Data Plane product. The appliance provides turnkey deployment capabilities for customers that need a hardware appliance. The SZ144-D is managed by a vSZ Controller only and cannot work in a standalone mode.
- Access Point (AP): Controllers support 1000 APs per zone.

Release Information

This SmartZone release is a Short Term (ST) release. This section lists the version of each component in this release.

ATTENTION

It is recommended to upgrade the vSZ before updating the data plane version because if the data plane version is higher than controller vSZ version then data plane cannot be managed by vSZ platform.

SZ300

- Controller Version: **6.1.0.0.935**
- Control Plane Software Version: **6.1.0.0.683**
- Data Plane Software Version: **6.1.0.0.935**
- AP Firmware Version: **6.1.0.0.1595**

SZ100/SZ124/SZ104/SZ144

- Controller Version: **6.1.0.0.935**
- Control Plane Software Version: **6.1.0.0.683**
- Data Plane Software Version: **6.1.0.0.601**
- AP Firmware Version: **6.1.0.0.1595**

vSZ-H and vSZ-E

- Controller Version: **6.1.0.0.935**
- Control Plane Software Version: **6.1.0.0.683**
- AP Firmware Version: **6.1.0.0.1595**

Cloudpath

- Cloudpath Version: **5.9 R3 (Build 5179) or later**

vSZ-D/104D/124D/144D

- Data plane software version: **6.1.0.0.935**

NOTE

By downloading this software and subsequently upgrading the controller and/or the AP to release 2.5.1.0.177 (or later), you understand and agree that:

- The AP may send a query to RUCKUS containing the AP's serial number. The purpose of this is to enable your AP to autonomously connect with a wireless LAN controller operated by your choice of cloud service provider. Ruckus may transmit back to the AP the Fully Qualified Domain Name (FQDN) or IP address of the controller that the AP will subsequently attempt to join.
- You also understand and agree that this information may be transferred and stored outside of your country of residence where data protection standards may be different.

ATTENTION

It is strongly recommended to reboot the controller after restoring the configuration backup.

SZ Google Protobuf (GPB) Binding Class

Refer to the GPB MQTT Getting Started Guide and download the latest SmartZone (SZ) GPB .proto files from the RUCKUS support site:

1. SmartZone **6.1.0.0.935** (GA) GPB.proto (Google ProtoBuf) image for GPB/MQTT [DNP] –
<https://support.ruckuswireless.com/software/3261>
File: *ruckus_sz_6.1.0_protos.tar.gz*
Checksum: *168c1c8f0ad3702345de30e8cfec357f*
2. SmartZone **6.1.0.0.935** MockSCI-TLS (SZ to SCI MQTT subscriber software) for CentOS / Ubuntu
<https://support.ruckuswireless.com/software/3262>
File: *scg-mock-sci-6.1.0-20211129.082645-79.tar.gz*
Checksum: *d6e3990d6d4c14148445efdf9e926f2d*

IoT Suite

This section lists the version of each component in this release.

- vSCG (vSZ-H and vSZ-E), and SZ-124: **6.1.0.0.935**
- Control plane software version in the WLAN Controller : **6.1.0.0.683**
- AP firmware version in the WLAN Controller:**6.1.0.0.1595**

RUCKUS IoT Controller

- RUCKUS IoT Controller version: 1.8.2.0
- VMWare ESXi version: 6.5 and later
- KVM Linux Virtualizer version: 1:2.5+dfsg-5ubuntu 10.42 and later
- Google Chrome version: 78 and later
- Mozilla Firefox version: 71 and later

Public API

Click on the following links to view:

- SmartZone 6.1.0 Public API Reference Guide (ICX Management), visit [SmartZone 6.1.0 Public API Reference Guide \(ICX Management\)](#)
- SmartZone 6.1.0 Public API Reference Guide (SZ100), visit [SmartZone 6.1.0 Public API Reference Guide \(SZ100\)](#)

NOTE

SZ100 Public API link is for SZ144 as well.

- SmartZone 6.1.0 Public API Reference Guide (SZ300), visit [SmartZone 6.1.0 Public API Reference Guide \(SZ300\)](#)
- SmartZone 6.1.0 Public API Reference Guide (vSZ-E), visit [SmartZone 6.1.0 Public API Reference Guide \(vSZ-E\)](#)
- SmartZone 6.1.0 Public API Reference Guide (vSZ-H), visit [SmartZone 6.1.0 Public API Reference Guide \(vSZ-H\)](#)

Dynamic Signature Package (Sigpack) Update

Administrators or users can dynamically upgrade Sigpack from the RUCKUS support site.

For manual upgrade, follow below steps:

1. Download Signature package by visiting the RUCKUS support site:
 - Regular Sigpack only for controller release 6.1.0: <https://support.ruckuswireless.com/software/3156-smartzone-6-1-0-0-675-sigpack-1-540-1-regular-application-signature-package>
 - Non-Regular Sigpack for controller release 6.1.0 and older releases: <https://support.ruckuswireless.com/software/3157-smartzone-6-1-0-0-675-sigpack-1-540-1-application-signature-package>
2. Manually upgrade the signature package by navigating to **Security > Application Control > Application Signature Package**.

NOTE

More details can be found in Administrator Guide, in section *Working with Application Signature Package*

If 802.11ac Wave 1 APs are on legacy firmware (AP firmware prior to R6.1.0 release), you cannot download the current Sigpack version 1-540-1 regular Sigpack but can download the current non-regular Sigpack. If 802.11ac Wave 1 APs are on R6.1 firmware, clients can download both 1-540-1 regular and non regular signature packs. [SCG-123375]

NOTE

As R5.1.x to R6.1.0 release upgrade is not supported, RUCKUS does not have any signature-package upgrade restrictions during zone upgrade.

Supported Matrix and Unsupported Models

Before upgrading to this release, check if the controller is currently managing AP models, IoT and Switch feature matrix.

APs preconfigured with the SmartZone AP firmware may be used with SZ300, SZ100, or vSZ in their native default configuration. APs factory-configured with the ZoneFlex-AP firmware may be used with the controller when LWAPP discovery services are enabled.

LWAPP2SCG must be disabled on controller if Solo AP's running 104.x being moved under SZ Management. To disable the LWAPP2SCG service on the controller, log on to the CLI, and then go to **enable > mode > config > lwapp2scg > policy deny-all**. Enter **Yes** to save your changes.

NOTE

Solo APs running releases 104.x and higher are capable of connecting to both ZD and SZ controllers. If an AP is running releases 104.x and higher and the LWAPP2SCG service is enabled on the SZ controller, a race condition will occur.

AP Firmware Releases

The AP firmware releases that the controller will retain depends on the controller release version from which you are upgrading:

| Upgrade path | AP firmware releases in controller |
|-----------------------------|------------------------------------|
| 5.2.x > 6.0.x > 6.1.x | 5.2.x or 6.0.x > 6.1.x |
| 5.1.x > 5.2.x > 6.1.x | 5.2.x > 6.1.x |
| 5.0 > 5.1.x > 5.2.x > 6.1.x | 5.2.x > 6.1.x |

Supported AP Models

This release supports the following RUCKUS AP models.

TABLE 1 Supported AP Models

| 11ax | | 11ac-Wave2 | | 11ac-Wave1 |
|--------|---------|------------|---------|------------|
| Indoor | Outdoor | Indoor | Outdoor | Indoor |
| R730 | T750 | R720 | T710 | R310 |
| R750 | T750SE | R710 | T710S | |
| R650 | T350C | R610 | T610 | |
| R550 | T350D | R510 | T310C | |
| R850 | T350SE | H510 | T310S | |
| R350 | | C110 | T310N | |
| H550 | | H320 | T310D | |
| H350 | | M510 | T811CM | |
| | | R320 | T610S | |
| | | | E510 | |
| | | | T305E | |
| | | | T305I | |

ATTENTION

AP R310 is Wave 1 and supports WPA3 – this is the one exception, the rest of the APs that support WPA3 are 802.11ac Wave2 or 802.11ax.

IMPORTANT

AP PoE power modes: AP features may be limited depending on power provided via PoE. Refer to AP datasheets for more information.

Unsupported AP Models

The following AP models have reached end-of-life (EoL) status and, therefore, are no longer supported in this release.

TABLE 2 Unsupported AP Models

| Unsupported AP Models | | | | |
|-----------------------|-------------|-------------|-----------|------------|
| SC8800-S | ZF7762-S-AC | ZF2741 | ZF7762-AC | ZF7351 |
| ZF7321 | ZF7343 | ZF7962 | ZF7762-S | ZF2942 |
| ZF7441 | ZF7363-U | SC8800-S-AC | ZF7363 | ZF2741-EXT |
| ZF7762 | ZF7025 | ZF7321-U | ZF7341 | ZF7352 |
| ZF7762-T | ZF7351-U | ZF7761-CM | ZF7343-U | ZF7781CM |
| R300 | ZF7782 | ZF7982 | ZF7782-E | ZF7055 |
| ZF7372 | ZF7782-N | ZF7372-E | ZF7782-S | C500 |
| H500 | R700 | T300 | T301N | T301S |
| T300E | R500 | R500E | R600 | FZM300 |
| FZP300 | T504 | | | |

Switch Management Feature Support Matrix

Following are the supported ICX models:

TABLE 3 Supported ICX Models

| Supported ICX Models | | |
|----------------------|-------------|----------|
| ICX 7150 | ICX 7450 | ICX 7750 |
| ICX 7250 | ICX 7650 | ICX 7850 |
| ICX 7550 | ICX7850-48C | |

Following is the matrix for ICX and controller release compatibility:

TABLE 4 ICX and SZ Release Compatibility Matrix

| | SZ 5.1 | SZ 5.1.1 | SZ 5.1.2 | SZ 5.2 | SZ 5.2.1 | SZ 6.0.0 | SZ 6.1.0 |
|-------------------|--------|----------|----------|--------|----------|----------|----------|
| FastIron 08.0.80 | Y | Y | N | N | N | N | N |
| FastIron 08.0.90a | N | Y | Y | Y | Y | Y | N |
| FastIron 08.0.91 | N | Y | Y | Y | N | N | N |
| FastIron 08.0.92 | N | N | Y | Y | Y | Y | Y |
| FastIron 08.0.95 | N | N | N | N | Y | Y | Y |
| FastIron 08.0.95a | N | N | N | N | Y | Y | Y |
| FastIron 08.0.95b | N | N | N | N | Y | Y | Y |
| FastIron 09.0.10 | N | N | N | N | N | N | Y |

NOTE

FastIron 09.0.0 release does not support management by SmartZone.

Following is the matrix for switch management feature compatibility:

Hardware and Software Support

Supported Matrix and Unsupported Models

TABLE 5 Switch Management Feature Compatibility Matrix

| Feature | SZ Release | ICX FastIron Release |
|---|-----------------|----------------------|
| Switch Registration | 5.0 and later | 08.0.80 and later |
| Switch Inventory | 5.0 and later | 08.0.80 and later |
| Switch Health and Performance Monitoring | 5.0 and later | 08.0.80 and later |
| Switch Firmware Upgrade | 5.0 and later | 08.0.80 and later |
| Switch Configuration File Backup and Restore | 5.0 and later | 08.0.80 and later |
| Client Troubleshooting: Search by Client MAC Address | 5.1 and later | 08.0.80 and later |
| Remote Ping and Traceroute | 5.1 and later | 08.0.80 and later |
| Switch Custom Events | 5.1 and later | 08.0.80 and later |
| Switch Configuration: Zero-touch Provisioning | 5.1.1 and later | 08.0.90a and later |
| Switch-specific Settings: Hostname, Jumbo Mode, IGMP Snooping, and DHCP Server | 5.1.1 and later | 08.0.90a and later |
| Switch Port Configuration | 5.1.1 and later | 08.0.90a and later |
| Switch AAA Configuration | 5.1.1 and later | 08.0.90a and later |
| Switch Client Visibility | 5.1.2 and later | 08.0.90a and later |
| Manage switches from default group in SZ-100/vSZ-E | 5.1.2 and later | 08.0.90a and later |
| Switch Topology | 5.2 and later | 08.0.92 and later |
| Designate a VLAN as Management VLAN | 5.2.1 and later | 08.0.95 and later |
| Change default VLAN | 5.2.1 and later | 08.0.95 and later |
| Configuring the PoE budget per port on ICX through the Controller GUI with 1W granularity | 5.2.1 and later | 08.0.95 and later |
| Configuring Protected Ports | 5.2.1 and later | 08.0.95 and later |
| Configuring QoS | 5.2.1 and later | 08.0.95 and later |
| Configuring Syslog | 5.2.1 and later | 08.0.95 and later |
| Download syslogs for a selected switch | 5.2.1 and later | 08.0.91 and later |
| Remote CLI | 5.2.1 and later | 08.0.95 and later |
| Generic CLI Config | 6.0 and later | 08.0.95b and later |
| Geo-Redundancy (Active-Passive mode) | 6.0 and later | 08.0.95b and later |
| Port level override | 6.0 and later | 08.0.95b and later |
| Ability to save boot preference | 6.1 and later | 08.0.92 and later |
| Virtual cable testing on Switches | 6.1 and later | 08.0.92 and later |
| Ability to send event email notifications at tenant level | 6.1 and later | 09.0.10 and later |
| Update the status of a Switch | 6.1 and later | 09.0.10 and later |
| Convert standalone Switch | 6.1 and later | 09.0.10 and later |
| Port level storm control | 6.1 and later | 09.0.10 and later |
| Blink LEDs on Switch remotely from Controller GUI | 6.1 and later | 09.0.10 and later |
| IPv6 SSH tunnel connection support between Switches and Controller | 6.1 and later | 09.0.10 and later |
| Flexible authentication profile support | 6.1 and later | 09.0.10 and later |

IoT Suite

This release supports IoT Controller release 1.8.2.0 and is compatible with the following controller and access point hardware and software.

Compatible Hardware

- C110 Access Point (C110)
- E510 Access Point (E510)
- H510 Access Point (H510)
- M510 Access Point (M510)
- R510 Access Point (R510)
- R550 Access Point (R550)
- R610 Access Point (R610)
- R650 Access Point (R650)
- R710 Access Point (R710)
- R720 Access Point (R720)
- R730 Access Point (R730)
- R750 Access Point (R750)
- T310 Access Point (T310)
- T610 Access Point (T610)
- T750 Access Point (T750)
- T750SE Access Point (T750SE)
- I100 IoT Module (I100)
- H550 Access Point (H550)
- H350 Access Point (H350)
- T350SE Access Point (T350SE)

Compatible Software

- Virtual SmartZone – High Scale (vSZ-H)
- Virtual SmartZone – Essentials (vSZ-E)
- SmartZone 100 (SZ100)
- RUCKUS IoT Controller (RIoT)

The below table lists the supported IoT end devices.

NOTE

Multiple other devices may work with this release but they have not been validated.

Hardware and Software Support

Supported Matrix and Unsupported Models

TABLE 6 Bulbs

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|-----------------------------------|------|------------|------------------|------------|---------------------------------|
| Lightify (RGB) Model 73674 | Bulb | Zigbee | Osram | OSRAM | LIGHTIFY A19 RGBW |
| Lightify Model 73693 | Bulb | Zigbee | Osram | OSRAM | LIGHTIFY A19 Tunable White45856 |
| Lightify Model 73824 | Bulb | Zigbee | Osram | OSRAM | |
| Element Color Plus | Bulb | Zigbee | Sengled | sengled | E11-N1EA |
| Bulb - LED | Bulb | Zigbee | Sengled | sengled | Z01-A19NAE26 |
| E11-G13 | Bulb | Zigbee | Sengled | sengled | E11-G13 |
| Lux | Bulb | Zigbee | Philips | Philips | LWB004 |
| SLV E27 Lamp Valetto (Zigbee 3.0) | Bulb | Zigbee 3.0 | SLV | | |
| Bulb | Bulb | Zigbee | Aduro SMART ERIA | | |
| Bulb | Bulb | Zigbee | Cree | | BA19-08027OMF-12CE26-1C100 |
| Hue | Bulb | Zigbee | Philips | Hue White | 840 Lumens |

TABLE 7 Locks

| Device | Type | Model | Manufacturer | Basic Name | Basic Model |
|------------------------------|------|--------|--------------|------------|------------------------|
| Vingcard Signature | Lock | Zigbee | Assa-Abloy | AA_LOCK | |
| Vingcard Essence | Lock | Zigbee | Assa-Abloy | AA_LOCK | |
| RT+ | Lock | Zigbee | Dormakaba | Dormakaba | 79PS01011ER-626 |
| Yale YRD220/240 TSDB Display | Lock | Zigbee | Assa-Abloy | Yale | Yale YRD220/240 TSDB |
| Yale YRD210 Push Button | Lock | Zigbee | Assa-Abloy | Yale | YRD210 Push |
| Smartcode 916 | Lock | Zigbee | Kwikset | Kwikset | SMARTCODE_DEADBOLT_10T |
| Smartcode 910 (450201) | Lock | Zigbee | Kwikset | Kwikset | |

TABLE 8 SWITCHES/PLUGS/THERMOSTAT/ALARM/BLINDS

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|-----------------|------------|--------|--------------|----------------|---------------|
| GE Smart Dimmer | Switch | Zigbee | GE | Jasco Products | 45857 |
| GE Smart Dimmer | Switch | Zigbee | GE | Jasco Products | 45856 |
| Smart Plug | Plug | Zigbee | CentraLite | CentraLite | |
| Smart Plug | Plug | Zigbee | Smart things | Samjin | |
| Smart Plug | Plug | Zigbee | INNRR | | |
| Zen Thermostat | Thermostat | Zigbee | Zen Within | Zen Within | Zen-01 |
| Ecolnsight Plus | Thermostat | Zigbee | Telkonet | Telkonet | |
| ZBALRM | Alarm | Zigbee | Smartenit | | Model #1021 A |
| Smart Blinds | Blinds | Zigbee | Axis Gear | | |

TABLE 9 Sensors

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|---------------------------------|--------|--------|-----------------|------------|--------------|
| Garage Door Tilt Sensor | Sensor | Zigbee | NYCE | NYCE | NCZ-3014-HA |
| Curtain Motion Sensor | Sensor | Zigbee | NYCE | NYCE | NCZ-3045-HA |
| Door / Window Sensor | Sensor | Zigbee | NYCE | NYCE | NCZ-3011-HA |
| Temperature and Humidity Sensor | Sensor | Zigbee | Aqara | LUMI | WSDCGQ11LM |
| Motion Sensor | Sensor | Zigbee | Aqara | LUMI | RTCGQ11LM |
| ERIA Smart Door/ Window Sensor | Sensor | Zigbee | AduroSMART ERIA | ADUROLIGHT | 81822 |
| ERIA Smart Motion Sensor | Sensor | Zigbee | AduroSMART ERIA | ADUROLIGHT | 81823 |
| Multipurpose Sensor | Sensor | Zigbee | Smart things | Samjin | IM6001-MPP01 |
| Button | Sensor | Zigbee | Smart things | Samjin | IM6001-WLP01 |
| Motion Sensor | Sensor | Zigbee | Smart things | Samjin | IM6001-MTP01 |
| Water Leak Sensor | Sensor | Zigbee | Smart things | Samjin | IM6001-BTP01 |
| EcoSense Plus | Sensor | Zigbee | Telkonet | Telkonet | SS6205-W |
| EcoContact Plus | Sensor | Zigbee | Telkonet | | SS6255-W |
| Temp, Humidity Sensor | Sensor | Zigbee | Heiman | HEIMAN | HS1HT-N |
| Gas detector | Sensor | Zigbee | Heiman | HEIMAN | HS3CG |
| Contact Sensor/Door Sensor | Sensor | Zigbee | Centralite | Centralite | 3300-G |
| 3-Series Motion Sensor | Sensor | Zigbee | Centralite | Centralite | 3305-G |
| Temperature Sensor | Sensor | Zigbee | Centralite | Centralite | 3310-G |
| 3-Series Micro Door Sensor | Sensor | Zigbee | Centralite | Centralite | 3323-G |
| Door Sensor | Sensor | Zigbee | Ecolink | Ecolink | 4655BC0-R |
| Temp & Humidity Sensor | Sensor | Zigbee | Sonoff | Sonoff | SNZB-02 |
| Celling Motion Sensor | Sensor | Zigbee | NYCE | NYCE | NCZ-3043-HA |

TABLE 10 LoRa

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|-------------------------|---------|------|--------------|------------|-------------|
| Picocell | Gateway | LoRa | Semtech | | |
| Mini Hub/ Basic station | Gateway | LoRa | TABS | | |
| Door Sensor | Sensor | LoRa | TABS | | |
| Occupancy Sensor | Sensor | LoRa | TABS | | |

Hardware and Software Support

Supported Matrix and Unsupported Models

TABLE 11 BLE

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|--------------|--------|------|--------------|------------|-------------|
| Panic Button | Beacon | BLE | TraknProtect | | |
| Tray Beacon | Beacon | BLE | TraknProtect | | |
| Asset Beacon | Beacon | BLE | TraknProtect | | |
| Card Beacon | Beacon | BLE | TraknProtect | | |
| Card Tag | Beacon | BLE | Kontakt.io | | CT18-3 |
| Beacon Pro | Beacon | BLE | Kontakt.io | | BP16-3 |
| Asset Tag | Beacon | BLE | Kontakt.io | | S18-3 |

TABLE 12 Wired

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|-------------------|--------|-------|--------------|------------|-------------|
| Vape/Sound Sensor | Sensor | Wired | Soter | - | FlySense |

TABLE 13 Supported Devices tested with SmartThings

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|------------------------------|--------|--------|------------------|------------|------------------|
| Yale YRD220/240 TSDB Display | Lock | Zigbee | Assa-Abloy | Yale | YRD220/240 TSDB |
| Lightify (RGB) Model 73674 | Bulb | Zigbee | Osram | OSRAM | LIGHTFY A19 RGBW |
| Multipurpose Sensor | Sensor | Zigbee | SmartThings | Samjin | |
| Button | Sensor | Zigbee | SmartThings | Samjin | |
| Motion Sensor | Sensor | Zigbee | SmartThings | Samjin | |
| Water Leak Sensor | Sensor | Zigbee | SmartThings | Samjin | |
| Smart Plug | Sensor | Zigbee | SmartThings | Samjin | |
| Bulb | Bulb | Zigbee | Aduro SMART ERIA | | |
| AEOTEC Multi Sensor | Sensor | Zwave | AEOTEC | AEOTEC | ZW 100-A |
| Hue Hub | Hub | Wired | Philips | Philips | 3241312018A |

TABLE 14 Device not QA tested but supported

| Device | Type | Mode | Manufacturer | Basic Name | Basic Model |
|----------|---------|------|--------------|------------|-------------|
| Vingcard | Sigma | Lock | Zigbee | Assa-Abloy | AA_LOCK |
| Vingcard | Alpha | Lock | Zigbee | Assa-Abloy | AA_LOCK |
| Vingcard | Classic | | Zigbee | Assa-Abloy | AA_LOCK |
| Vingcard | Allure | | Zigbee | Assa-Abloy | AA_LOCK |

Known Issues

The following are the Caveats, Limitations, and Known issues in this release.

NOTE

Known issues stated in the 6.0.0 release notes are also applicable to this release.

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-132557 |
| Description | 11ac AP disconnects idle clients before inactivity timeout. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-134545 |
| Description | iOS clients running on 15.x.x version does not send DHCP option 12. This results in the hostname field having client MAC address in <i>client-info</i> . |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-132339 |
| Description | When GEO redundancy is enabled, the APs in controller will not be included in the rogue list. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-130680 |
| Description | Configuration backup/restore fails to contain the alias SSH port setting. |
| Workaround | <p>The Alias SSH port setting is not included in the configuration backup file. The alias SSH port setting might be lost if the user changes the Alias SSH port setting while configuring backup and restore for the below two cases:</p> <ul style="list-style-type: none"> • Standby cluster (geo-redundancy enabled) • SmartZone without Alias SSH port setting (for example, fresh installation of SmartZone). Users must manually setup the Alias SSH port settings. <p>SmartZone retains the current Alias SSH port setting after configuration restore.</p> |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-133952 |
| Description | <p>If a customer configures and maps AVC IPv6 profiles to wireless/wired interface in alpha or beta build and later upgrades the build without AVC IPv6 support, the controller shows the previously configured profiles and the AP shows the mapped IPv6 details.</p> <p>Configurations will be visible but feature (in IPv6 mode) is not supported.</p> |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-134597 |
| Description | Windows OS clients does not support 11r+WPA2-PSK FT roaming. Visit https://docs.microsoft.com/en-us/windows-hardware/drivers/network/fast-roaming-with-802-11k--802-11v--and-802-11r for details. |

| | |
|--------------------|------------|
| Component/s | AP |
| Issue | SCG-134597 |

Known Issues

| | |
|--------------------|--|
| Component/s | AP |
| Description | <p>Microsoft Surface Pro with the below system combination is not able to connect to WLAN having WPA2/ WPA2-WPA3-Mixed and 11r + 11w both enabled.</p> <p>System specifications:</p> <ul style="list-style-type: none"> • OS : Windows10-21H2 • WIFI NIC : Marvell AVASTAR wireless-AC network controller • Driver Version : 15.68.9127.58 OS : Windows10-21H2 WIFI NIC |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-132557 |
| Description | 11ac AP disconnects idle clients before inactivity timeout. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-134021 |
| Description | AP cannot honor session timeout value if it is less than 120 seconds. Minimum session time that AP can accept is 120 seconds. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | AP-16966 |
| Description | Firewall ID fails to update to the client, when client roams from one AP to another with FT enabled. This can occur only when there is high latency between AP to controller communication. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-133417; AP-15840 |
| Description | When streaming YouTube videos, traffic goes on <i>googlevideos.com</i> domain, and if safe-search is enabled, then even safe content cannot be loaded and is an application/website behavior. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | AP-14102 |
| Description | <p>R850/R750 APs WAN Ethernet port fails when Ethernet speed on the Switch, connected to the AP is configured as 100 full.</p> <p>This limitation is observed with ICX7150-C12 10.1.11T225 (mnz10111) and not observed with ICX7150-48Z (SPS08092b.bin).</p> |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | AP-14280 ; ER-7951 |
| Description | Jumbo packets larger than 1620 bytes are dropped on 11ac wave-2, 11ax APs. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | AP-16151 |
| Description | If client sends a non-FT (Fast Transition) AKM (Authenticated Key Management) suite in FT association request, AP rejects it with association response status code set to invalid AKMP. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-132916 |
| Description | <p>Windows 10/11 clients fails to connect to WPA3 configured WLAN.</p> <ol style="list-style-type: none"> 1. Surface-Pro-1 <ul style="list-style-type: none"> ● C4:9D:ED:91:63:AE ● 10 Pro-20H2(19042.1165) ● Marvell Semiconductors, Inc. ● 15.68.17021.121 2. Desktop-76 <ul style="list-style-type: none"> ● 34:F3:9A:8A:A1:DD ● 10 Pro 21H1(19043.1165) ● Intel Dual Band wireless AC-8260 ● 20.70.21.2 3. surfacePro <ul style="list-style-type: none"> ● 4C:0B:BE:0C:3D:C6 ● 10 Pro 21H1(19043.1165) ● Marvell Semiconductors, Inc. ● 15.68.9127.58 4. Desktop-196 <ul style="list-style-type: none"> ● C4:9D:ED:91:63:AE ● 11 Pro 21H2(22000.16) ● Intel WiFi6E AX210 160MGHZ ● 22.70.3.2 |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-131205 |
| Description | Background scan channel selection algorithm fails to change to a better channel despite the current channel not providing adequate and expected service/performance. |
| Workaround | It is recommended to use Channelfly as channel selection algorithm instead. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-133323 |
| Description | After successful UEs Windows version 10 and 11 connection, if the device moves away from the AP RF coverage and if the client comes within the AP RF coverage and within inactivity timeout then the device goes for a full authentication instead of skipping authentication. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-133325 |
| Description | Mobile device with Android version 9 version goes for a full authentication after reconnecting within inactivity timeout. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-123495 |
| Description | AP runs out of memory and <i>Page allocation failure</i> is seen when moving UDP traffic from client in unidirectional. This limitation is not applicable to bidirectional traffic. |

Known Issues

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-127767 |
| Description | DHCP/NAT performance drop is observed, when running back to back performance tests with Ixia or any performance benchmark tool. This drop is observed due to rflow age out timer not updating or entry not being refreshed while running back to back test iterations. |
| Description | Give a five minute gap between each iteration of performance test, for rflow entries are cleared. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-127791 |
| Description | Inconsistent offload traffic is observed between two wireless client connecting to two different tunneled WLANs belonging to the same VLAN. This limitation is in case of non-default VLAN only, where first time a flow is created while moving traffic between two clients is seen offloaded and subsequent flows go through the host path. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-123943 |
| Description | When AP radios are disabled, the <i>get client-info</i> from AP CLI fails to show the updated client entries. This does not impact client connectivity. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-130770 |
| Description | To block torrents from downloading ubuntu file below apps need to be blocked under ARC policy. <ul style="list-style-type: none"> • App Name: All Category : Peer to Peer • App Name: MoPub Category : Web • App Name: Liftoff Category : Web • App Name: Ubuntu Category : Web |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-131270 |
| Description | Hotstar application fails to get detected when AP or the controller is running on Sigpack version 540.1 or below. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-133049 |
| Description | arc-debug-start is a command to enable ARC debug logs. This is a script which stores logs and <i>pcaps</i> (<i>packet capture</i>) in temporary folder of AP. If this script is run for a long duration it causes an OOM (Out of Memory) on AP. Its better to enable debug-log via CLI and capture "logread -f" traces if we need to capture logs for long duration.. |
| Workaround | It is recommended to enable debug logs through CLI mode and to capture logread -f traces to capture logs of a long duration. |

| | |
|--------------------|------------|
| Component/s | AP |
| Issue | SCG-133408 |

| | |
|--------------------|---|
| Component/s | AP |
| Description | Most of the IPv4 flows are detected as stun or falls back to IP address based detection during audio and video calls. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-133019 |
| Description | For Network Segmentation by design, if <i>Bonjour Fencing hop0</i> is enabled for Chromecast service, SSDP (Simple Service Discovery Protocol) packets are dropped. Currently when a Zone is enabled with <i>bonjour fencing</i> , all WLAN (including the WLANs selected for the network segmentation) of that Zone is functioned with <i>bonjour fencing</i> . If a Zone has <i>bonjour</i> features turned on, the WLANs from that zone cannot be part of the network segmentation. If a Zone has WLANs in the network segmentation, the <i>bonjour</i> features cannot be turned on. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-133641 |
| Description | UDP packet size 1512bytes drops and traffic passes with 1000 bytes frame size. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-127469 |
| Description | When sending video, best effort and background traffic from wired to wireless client is observed all traffic goes with video priority even for best effort traffic even if the client disconnect and re-associates to AP. This limitation is only if WLAN VLAN and management VLAN of the AP uses the same VLAN. If AP management VLAN and WLAN VLAN are different then best effort traffic goes properly. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-133739 |
| Description | For Dakota based APs the RGRE tunnel with encryption may have slightly lower performance in SmartZone 6.1 release. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-127253 |
| Description | When DHCP-NAT hierarchy network is used, the Non-Gateway AP remains disconnected (goes offline) from the controller once firmware upgrade is completed. The non-gateway AP becomes operational after it is rebooted. |

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| Component/s | AP |
| Issue | SCG-133418 |
| Description | YouTube flows are detected as <i>forcesafesearch.google.com</i> when both Google and YouTube FQDN (Fully Qualified Domain Name) safe search is enabled. |

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|--------------------|--|
| Component/s | AP |
| Issue | SCG-133991 |
| Description | Wi-Fi calling start and end time status gets updated, when client connects to DHCP-NAT enabled WLAN. Ideally the status should gets updated based on Wi-Fi calls made by the client. This issue is specific to DHCP-NAT case only. |

Known Issues

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| Component/s | AP |
| Issue | SCG-128898 |
| Description | In mixed 11ac and 11ax AP mesh deployment when MAP is 11ac AP and RAP (Remote AP) is 11ax AP, MAP fails to get IPv6 address in dual zone This limitation is not observed with IPv4 or 11ac MAP - 11ac RAP case. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-134451 |
| Description | For some wireless clients, namely STA connected to a MAP is not passing traffic. The transmit modulation coding scheme indicates zero. NOTE S21 works but S10 experiences the issue. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-123157 |
| Description | Android 10 and 11 version which has MAC address randomization features as default, it can affect the Wi-Fi experience. |
| Description | For MAC related authentication, disable Wi-Fi MAC randomization and select <i>Use Device MAC</i> while connecting to SSID. |

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| Component/s | AP |
| Issue | SCG-131305 |
| Description | MAC/IP address encrypt on WISPr profile only supports cloud profile. |

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| Component/s | AP |
| Issue | SCG-133932 |
| Description | Currently the controller only can see Network Segmentation wireless clients information and not wired clients. |

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| Component/s | AP |
| Issue | SCG-127995 |
| Description | Second wired client connected to the AP does not receive DHCP address and cannot browse, when Ethernet profile is configured for 802.1x port based MAC bypass and when non-default VLAN is used. This limitation is applicable only for RUCKUS 11ax AP's. NOTE This issue is not observed with VLAN 1 in Ethernet profile. |
| Workaround | Connect the second wired client and reboot the AP. |

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| Component/s | AP |
| Issue | SCG-128235 |
| Description | 2.4G Airtime utilization shows high percentage though no clients are connected. This issue is random. |

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| Component/s | AP |
| Issue | SCG-133894 |
| Description | Sleeping clients may cause latency to be flagged on the controller web user interface even though radio frequency (RF) environment is clean. |

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| Component/s | AP |
| Issue | SCG-132708 |
| Description | Controller administrator can get all the AP information on <i>DRS-broker</i> by using API with any controller cloud access token. |

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| Component/s | AP |
| Issue | SCG-134434 |
| Description | In Japan country code, channels 132, 136, 140, 144 are applicable and these channels will be enabled only if <i>Allow Channel 144</i> is enabled in Zone. If both 11ac and 11ax APs are present in the configured Zone with one of these channels (132, 136, 140 or 144) it results in 11ac APs configuration update failure whereas 11ax configuration is successful. |

| | |
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| Component/s | AP |
| Issue | SCG-134775 |
| Description | Below MAC OS does not support WPA3 enterprise and PSK. <ul style="list-style-type: none"> ● OS X EL CAPTAIN--10.11.6 ● MACOS Mojave 10.14.5 ● MACOS Sierra 10.12.6 ● OS X 10.9.5 |
| Workaround | Do not configure WPA3 personal or Enterprise WLAN. Configure WPA2/WPA3 mixed mode since clients supports mixed mode operation. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-134376 |
| Description | Microsoft Surface Pro with below system combination is not able to connect to WLAN having WPA2/ WPA2-WPA3- mixed mode and 11r with 11w both enabled. System specification is: <ul style="list-style-type: none"> ● OS : Windows10-21H2WIFI NIC ● Marvell AVASTAR wireless-AC network controller ● Driver Version : 15.68.9127.58 |
| Workaround | <ul style="list-style-type: none"> ● Upgrade the Wi-Fi driver to latest version 15.68.17021.121.2. ● Do not enable 11r and 11w together. Enable 11r or 11w |

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| Component/s | AP |
| Issue | SCG-134087 |
| Description | Windows10 Pro version 2004 laptop with 6E NIC fails to scan SSIDs when only 6G radio is enabled. |
| Workaround | Upgrade the laptop with Windows11 Pro version 21H2 to scan 6G radio. |

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| Component/s | AP |
| Issue | SCG-134777 |

Known Issues

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| Component/s | AP |
| Description | Sometimes Netflix traffic can get detected as <i>Fast_com</i> due to recent integration of <i>Fast_com</i> speedtesting option on Netflix application. |

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|--------------------|--|
| Component/s | AP |
| Issue | SCG-134780 |
| Description | Only 200Mbps SSID rate limit value gets applied to all 11ac AP models when SSID rate limit values are between 200 to 500 Mbps when configured on WLAN. Values between 200 - 500Mbps is applicable only to 11ax AP models. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | AP-17000 |
| Description | When SSID rate limit is set to 500Mbps in the controller GUI and if 11ac AP is configured in the Zone then the maximum rate limit value set on 11ac AP models is only 200Mbps. All 11ax APs is set with a maximum rate limit value of 500Mbps per design. Values between 200 - 500Mbps is applicable only to 11ax AP models. |

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|--------------------|---|
| Component/s | AP |
| Issue | AP-17160 |
| Description | The maximum number of clients supported with all rate limit (SSID rate limit + Firewall profile rate limit + Device Policy profile rate limit) enabled is only 100. Since the administrator cannot control the number of devices connected with firewall or device policy rate limit RL / DP RL on WLAN using AAA server as the assigned firewall profiles. Any stability / performance / memory related problem can arise when more than 100 clients are connected. |

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| Component/s | AP |
| Issue | AP-17087 |
| Description | Inconsistent behavior observed with the throughput values obtained when rate limit enabled. |

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|--------------------|---|
| Component/s | AP |
| Issue | AP-16996 |
| Description | Hostapd and Ethernet 1x process crash and restart after two hours of starting the longevity test. All 100 clients disconnect. |

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|--------------------|---|
| Component/s | AP |
| Issue | AP-15764 |
| Description | When lower rate limit values are configured on the SSID device, the rate limit values is not accurate with the configured values. |

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| Component/s | Control Plane |
| Issue | SCG-132335 |
| Description | When GEO redundancy is enabled, the APs in SZ will not be included in the rogue list. |

| | |
|--------------------|--|
| Component/s | Control Plane |
| Issue | SCG-134678 |
| Description | <p>Default zone AP firmware retains the previous version after the system upgrades to this release.</p> <p>When adding new APs that are listed below which are not supported in previous AP firmware version, they will not be seen in the controller default zone.</p> <p>Impacted platform/AP models : Enterprise platforms like SZ100/SZ144/vSZ-E when upgrading from 5.x/6.0.0 and adding 6.1.0 newly supported AP models such as R350/H550/T350C/T350D/T350SE.</p> |
| Workaround | <ol style="list-style-type: none"> 1. Upgrade default Zone version to 6.1.0 for new AP models to be recognized and shown in the default Zone. 2. Add 6.1.0 Zone and use AP registration rule to assign newly added AP (models listed above) to 6.1 AP Zone. |

| | |
|--------------------|---|
| Component/s | Control Plane |
| Issue | SCG-134269; SCG-134678 |
| Description | iPhone/iPad running iOS 14.8.1 does a full authentication on roaming and fails on FT roaming. |

| | |
|--------------------|---|
| Component/s | Data Plane |
| Issue | SCG-116650 |
| Description | Data plane fails reassemble fragmented packets. |
| Workaround | Make sure L2oGRE gateway forwarded traffic is not fragmented. |

| | |
|--------------------|--|
| Component/s | Data Plane |
| Issue | SCG-126864 |
| Description | When tunnel WLAN is turned on after AP establishes RGRE tunnel to data plane, user equipment connecting to the tunnel WLAN encounters TCP traffic failure of data plane inter-tunnel functions (Flexi-VPN / L3 Roaming). |
| Workaround | Reboot the AP for AP RGRE tunnel to re-establish. |

| | |
|--------------------|---|
| Component/s | Switches |
| Issue | FI-250290 |
| Description | Switch device does not switchover back to the new active controller, because the switchover configuration received from controller fails. |
| Workaround | <ol style="list-style-type: none"> 1. Manually unconfigure the controller active-list and controller backup-list in the Switch. The unconfigured will erase the active-list and backup-list. 2. Set up the correct controller active-list IP address and re-establish SSH tunnel connection between the switch and the controller. 3. Reconfigure the active-list and backup-list and then re-establish the Switch tunnel between Switch and controller. |

| | |
|--------------------|--|
| Component/s | Switch Management |
| Issue | SCG-122903 |
| Description | Wired dashboard may have slow responsiveness in scaled environments. |

Known Issues

| Component/s | System |
|-------------|--|
| Issue | SCG-130614 |
| Description | For returning VSA(RADIUS), User Group(AD/LDAP), and user-name(TACACS+), only the system domain's administrator AAA server profiles login to other domains is supported. Format <i>user@domain</i> , is invalid to partner domain's profiles. |

| Component/s | System |
|-------------|--|
| Issue | SCG-129876 |
| Description | When the login realm pattern matches more than one realm, the system takes the most precise one. |

| Component/s | System |
|-------------|--|
| Issue | SCG-128233 |
| Description | <i>ServiceTicket</i> may expire before the session ends in Tomcat server or Switch Management service due to the limitation of session expiration being one day. |
| Workaround | Refresh the browser and login again. |

| Component/s | System |
|-------------|--|
| Issue | SCG-127185 |
| Description | AAA server fails to validate the common name in the server certificate and shows it as passed. |

| Component/s | System |
|-------------|---|
| Issue | SCG-133749 |
| Description | User needs to delete <i>interface ve 1</i> (by default in Switch with F109010 firmware) manually through console port if they use <i>Management Port</i> (interface management 1 with DHCP) to join the controller. |

| Component/s | System |
|-------------|---|
| Issue | SCG-133098 |
| Description | If an AAA profile with the same realm is deleted and created within 30 seconds, the AAA profile will not take effect. |

| Component/s | System |
|-------------|---|
| Issue | SCG-132679 |
| Description | Backup and restore operation causes CloudPath data to be out of sync. |
| Workaround | Administrator needs to reset the data on CloudPath. |

| Component/s | System |
|-------------|--|
| Issue | SCG-132623 |
| Description | The network segmentation feature requires proper DHCP/NAT licenses to be functional. |

| Component/s | System |
|-------------|---|
| Issue | SCG-131411 |
| Description | MAC/IP address encrypt on WISPr profile supports cloud profile. |

| Component/s | System |
|-------------|---|
| Issue | SCG-130354 |
| Description | If the controller administrator retains the default time the automatic check occurs at the same time. |
| Description | It is recommended that the controller administrator configures the automatic check to some other time, or a manual trigger check. |

| Component/s | System |
|-------------|---|
| Issue | SCG-130466 |
| Description | Existing public keys are overwritten if it is configured through Public APIs. |

| Component/s | System |
|-------------|--|
| Issue | SCG-132560 |
| Description | Controller web user interface only support 1000 records on Guest Pass page. NOTE This is a design limitation and it will not be enhanced. |

| Component/s | UI/UX |
|-------------|--|
| Issue | SCG-134364 |
| Description | User might encounter an error of <i>Unable to update the WLAN configuration. BssMinRate6G only supports 6mbps</i> when upgrading from 6.1 beta build to the latest build. [Workaround] 1.Delete WLAN with issue and create new WLAN 2.Use Public API to modify 6G BSS minrate and 6G mgmt tx rate value to 6mbps |
| Workaround | <ol style="list-style-type: none"> 1. Delete the WLAN with this issue and create a new WLAN. 2. Use Public API to modify BssMinRate6G and 6G mgmt Tx rate value to 6mbps. |

| Component/s | UI/UX |
|-------------|--|
| Issue | SCG-129890 |
| Description | Firmware schedule task only executes at 0/30 minutes every hour. |

| Component/s | UI/UX |
|-------------|---|
| Issue | SCG-126970 |
| Description | Users cannot downgrade AP firmware versions since the previous versions of the AP firmware are not seen on the controller web user interface when upgrading the controller. |
| Workaround | Downgrade button is not visible when Zone is applied to a Data Plane Group. Assign the Zone to the default Data Plane Group for downgrading AP Zone firmware. |

| Component/s | UI/UX |
|-------------|---|
| Issue | SCG-129274 |
| Description | Guest Pass is deleted after applying the Zone template. |

| Component/s | UI/UX |
|-------------|------------|
| Issue | SCG-133622 |

Known Issues

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|--------------------|---|
| Component/s | UI/UX |
| Description | Only Super Admin on the controller (SmartZone GUI) can configure network segmentation for now. All other created users cannot see network segmentation feature on the controller GUI. |

| | |
|--------------------|--|
| Component/s | UI/UX |
| Issue | SCG-133464 |
| Description | The traffic and health panel are hidden for switches in staging group. |

| | |
|--------------------|--|
| Component/s | UI/UX |
| Issue | SCG-134603 |
| Description | Unable to update the configuration of the AP Zone since <i>ChannelSelectMode[BgScan]</i> is not allowed for radios 5gLower/5gUpper/6g. |
| Workaround | Change BgScan to <i>ChannelFly</i> manually. |

| | |
|--------------------|--|
| Component/s | UI/UX |
| Issue | SCG-133439 |
| Description | IoT radio is seen as disabled for APs R850/R550 in the controller vSZ GUI. |

| | |
|--------------------|--|
| Component/s | UI/UX |
| Issue | SCG-128233 |
| Description | <i>ServiceTicket</i> may expire before the session ends in Tomcat server or Switch Management service due to the limitation of session expiration being one day. |
| Workaround | Refresh the browser and login again. |

| | |
|--------------------|---|
| Component/s | UI/UX |
| Issue | SCG-134614 |
| Description | This issue occurs when AP packet capture and support bundle cross execute at the same time. NOTE This issue will be fixed in future release. |

| | |
|--------------------|--|
| Component/s | UI/UX |
| Issue | SCG-133460 |
| Description | The search capability for Network Segmentation is completed in 6.1.0.0.685+ which is after the beta release. |
| Workaround | <ul style="list-style-type: none"> Do a fresh installation of the system if your controller version is 6.1 with build number lower than 6.1.0.0.685. If you upgrade from controller version 6.0 to version 6.1.0.0.685+, you do not need a fresh installation. |

| | |
|--------------------|---|
| Component/s | UI/UX |
| Issue | SCG-133274 |
| Description | Controller web user interface fails to show the channel changes in Traffic > Client Chart page. |

Changed Behavior

The following are the changed behavior issues in this release.

| Component/s | AP |
|-------------|--|
| Issue | SCG-131012 |
| Description | Modified the algorithm to generate BSSID from AP base MAC address. As a result an AP upgraded to this release will use a different MAC identifier for the WLANs compared to previous releases. |

For release 6.1 fresh installation of domain name is mandatory to support AP/DP validate the controller feature. FQDN (Fully Qualified Domain Name) consists of the domain name and the host name. The below table is an example of cluster deployment based on the domain name in a cluster deployment.

| Cluster Domain Name | Node# | Host name | FQDN |
|---------------------|--------|-----------|-------------------|
| ruckus.com | Master | master | master.ruckus.com |
| | Slave1 | slave1 | slave1.ruckus.com |
| | Slave2 | slave2 | slave2.ruckus.com |
| | Slave3 | slave3 | slave3.ruckus.com |

Domain name can be modified after installation by navigating to **Network > Data and Control Plane > Cluster > Select the Cluster > Configuration > Configure** page on the controller GUI.

Edit Cluster

System IP Mode

The system is capable of operating in either 'IPv4-only' or 'dual-stack (IPv4 plus IPv6)' mode. Please select your mode and verify appropriate network connectivity.

IP Support Version: IPv4 only IPv4 and IPv6

Refresh OK Cancel

System Domain Name

The system is capable of operating with Fully Qualified Domain Name (FQDN). Please provide your domain name and verify FQDNs in the cluster.

* Domain Name:

Refresh OK Cancel

Interoperability Information

Cluster Network Requirements

The following table lists the minimum network requirement for the controller's cluster interface.

Minimum Cluster Network Requirement

| Model | SZ300 | vSZ-H | SZ144 | SZ100 | vSZ-E |
|-----------|---------|--------|-----------|--------|--------|
| Latency | 34ms | 34ms | 68ms | 76.5ms | 76.5ms |
| Jitter | 10ms | 10ms | 10ms | 10ms | 10ms |
| Bandwidth | 115Mbps | 92Mbps | 40.25Mbps | 23Mbps | 23Mbps |

Client Interoperability

SmartZone controllers and ZoneFlex APs use standard protocols to interoperate with third party Wi-Fi devices. RUCKUS qualifies its functionality on the most common clients.

| Component/s | AP |
|-------------|---|
| Issue | SCG-133133 |
| Description | <i>Client-info</i> does not show the IPv6 address of connected Google Pixel client when it connects to WLAN with WLAN non-default VLAN. |

| Component/s | AP |
|-------------|---|
| Issue | SCG-130095 |
| Description | Device type, OS vendor, model number is shown as unknown for Syska Smart Bulb and device type as smartphone for Amazon Alexa. |

| Component/s | AP |
|-------------|--|
| Issue | SCG-133325 |
| Description | Mobile devices with Android version 9 go for a full authentication after it reconnects within an inactivity timeout. |

| Component/s | AP |
|-------------|--|
| Issue | SCG-132585 |
| Description | Windows 11 device is not connected back to the saved WLAN profile after the AP reboots. This happens only when the device is connected by both wired and wireless connections. This issue is not seen when the Ethernet link of the device is removed. |
| Workaround | Remove Ethernet link of device and connect the client to a wireless connection for it connect back to a saved profile. |

| Component/s | AP |
|-------------|--|
| Issue | SCG-132583 |
| Description | Client Mac Mini (M1 2020) does not support BSS Transition Management (802.1v). |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-133156 |
| Description | After successful UEs iOS, MAC devices connection, if the device moves away from the AP RF coverage and if the client comes within the AP RF coverage and within the inactivity timeout then the device goes for a full authentication instead of skipping the authentication process. |

| | |
|--------------------|---|
| Component/s | AP |
| Issue | SCG-126338 |
| Description | With certain clients observing EAPOL failure due to <i>received EAPOL-Key 2/4 Pairwise with unexpected replay counter</i> and due to some conditions the AP fails to deauthenticate the client for invalid MIC in Key(2/4). |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-134433 |
| Description | MAC OS does support 11v BSS Transition Management. |

| | |
|--------------------|--|
| Component/s | AP |
| Issue | SCG-123018 |
| Description | iPhone release iOS 14 version which has MAC address randomization features, can affect the Wi-Fi experience. |
| Workaround | For MAC related authentication, disable randomization features in iPhone, iPad , iWATCH iOS14 Wi-Fi configuration. |

