

# RUCKUS SmartZone 5.2.2 Release Notes

## Supporting SmartZone 5.2.2

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# Document History

Revision number	Summary of changes	Publication date
C	Modified the SZ144 overview.	15, July 2021
B	Deleted the note on <i>DFS channels are disabled on AP T750SE</i> .	08, April 2021
A	Initial release notes	22, February 2021

# 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 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. While SZ144 can only run controller version 5.2.1 and software, it can also host controller version 3.6.2 AP firmware Zones.
- The SZ144-D is the second generation Data Plane hardware appliance which is functionally equivalent to the vSZ-D virtual Data Plan 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 Long Term (LT) release. This section lists the version of each component in this release.

### SZ300

- Controller Version: **5.2.2.0.317**

- Control Plane Software Version: **5.2.2.0.126**
- Data Plane Software Version: **5.2.2.0.317**
- AP Firmware Version: **5.2.2.0.301**

### **SZ124**

- Controller Version: **5.2.2.0.317**
- Control Plane Software Version: **5.2.2.0.126**
- Data Plane Software Version: **5.2.2.0.21**
- AP Firmware Version: **5.2.2.0.301**

### **SZ144**

- Controller Version: **5.2.2.0.317**
- Control Plane Software Version: **5.2.2.0.126**
- Data Plane Software Version: **5.2.2.0.21**
- AP Firmware Version: **5.2.2.0.301**

### **vSZ-H and vSZ-E**

- Controller Version: **5.2.2.0.317**
- Control Plane Software Version: **5.2.2.0.126**
- AP Firmware Version: **5.2.2.0.301**

### **vSZ-D**

- Data plane software version: **5.2.2.0.317**

#### **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 GPB / MQTT Interface Test Subscriber Software [DNP] – <https://support.ruckuswireless.com/software/2805>
2. SmartZone 5.2.2.0.317 (GA) GPB.proto (Google ProtoBuf) image for GPB/MQTT [DNP] – <https://support.ruckuswireless.com/software/2804>

<https://support.ruckuswireless.com/software/2581>

## **IoT Suite**

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

- vSCG (vSZ-H and vSZ-E), and SZ-124: **5.2.2.0.317**
- Control plane software version in the WLAN Controller : **5.2.2.0.126**
- AP firmware version in the WLAN Controller:**5.2.2.0.301**

### **RUCKUS IoT Controller**

- RUCKUS IoT Controller version: 1.7.1
- VMWare ESXi version: 6.0 and later
- Google Chrome version: 78 and later
- Mozilla Firefox version: 71 and later

## **Public API**

Click on the following links to view:

- SmartZone 5.2.1 Public API Reference Guide (ICX Management), visit <https://support.ruckuswireless.com/documents/3570>
- SmartZone 5.2.1 Public API Reference Guide (SZ100), visit <https://support.ruckuswireless.com/documents/3569>

### **NOTE**

SZ100 Public API link is for SZ144 as well.

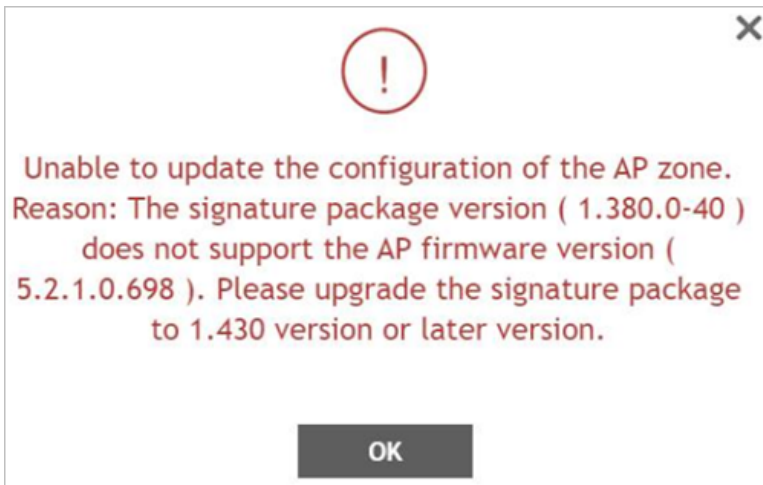
- SmartZone 5.2.1 Public API Reference Guide (SZ300), visit <https://support.ruckuswireless.com/documents/3568>
- SmartZone 5.2.1 Public API Reference Guide (vSZ-E), visit <https://support.ruckuswireless.com/documents/3567>
- SmartZone 5.2.1 Public API Reference Guide (vSZ-H), visit <https://support.ruckuswireless.com/documents/3566>

## **Application Signature Package**

### **ATTENTION**

The signature package is the same for releases 5.2.1 and 5.2.2.

AP DPI feature uses an Application Signature Package that in general it can be optionally updated when a new version is available. But in this case, previous packages are not compatible with 5.2 AP firmware, and upgrading zone firmware is blocked until the corresponding signature package (**RuckusSigPack-v2-1.470.1.tar.gz?**) is installed.



Do follow this mandatory process before upgrading AP zone firmware:

1. Download Signature package by visiting the RUCKUS support site, <https://support.ruckuswireless.com/software/2566-smartzone-5-2-1-0-515-ga-sigpack-1-470-1-application-signature-package>
2. Manually upgrade the signature package by navigating to **Services & Profiles > Application Control > Signature Package**. (more details can be found in Administrator Guide, in section *Working with Application Signature Package*)

Once this is done, AP zones can be upgraded. [**SCG-108730**]

**IMPORTANT**

SigPack versions 1.430.1 and 1.470.1 are supported on build **5.2.2.0.317**. Version 1.380.0.40 is not supported.

## Product Documentation Upgrade Guide

The following product guides, have been updated for this release. Do refer to the *What's New in this Document* section.

1. SmartZone 5.2.2 Administrator Guide (SZ300/vSZ-H)
2. SmartZone 5.2.2 Administrator Guide (SZ100/vSZ-E)
3. SmartZone 5.2.2 Upgrade Guide
4. SmartZone 5.2.2 Command Reference Guide (SZ300/vSZ-H)
5. SmartZone 5.2.2 Command Reference Guide (SZ-100/vSZ-E)
6. SmartZone 5.2.2 Getting Started Guide on GPB/MQTT Interface (SZ300/SZ-100/vSZ)

**NOTE**

The rest of the SmartZone guides remain the same for this release. Refer to the SmartZone release 5.2.1 set of documents by visiting the RUCKUS website available at [support.ruckuswireless.com](https://support.ruckuswireless.com) or [Tech Content Portal](#).

## 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 pre-configured 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.

## Hardware and Software Support

### Supported Matrix and Unsupported Models

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
5.1.x > 5.2.x	5.1.x, 5.2.x
5.0 > 5.1.x > 5.2.x	5.1.x, 5.2.x
3.6.2 > 5.1.x > 5.2.x	3.6.2, 5.1.x, 5.2.x
3.6.2 > 5.2.x	3.6.2, 5.2.x

#### NOTE

For further details refer to the section *Multiple AP Firmware Support in the SZ100/vSZ-E/SZ300/vSZ-H* in SmartZone Upgrade Guide, 5.2.2

## 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	Outdoor
R730	T750	R720	T710	R600	T504
R750	T750SE	R710	T710S	R500	T300
R650		R610	T610	R310	T300E
R550		R510	T310C	R500E	T301N
R850		H510	T310S		T301S
		C110	T310N		FZM300
		H320	T310D		FZP300
		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			

### 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		

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 5.2.2
FastIron 08.0.80	Y	Y	N	N	N	N
FastIron 08.0.90a	N	Y	Y	Y	Y	Y
FastIron 08.0.91	N	Y	Y	Y	N	N
FastIron 08.0.92	N	N	Y	Y	Y	Y
FastIron 08.0.95	N	N	N	N	Y	Y
FastIron 08.0.95a	N	N	N	N	Y	Y
FastIron 08.0.95b	N	N	N	N	Y	Y

**NOTE**

FastIron 08.0.95b is required for managing ICX7550 switches.

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

## IoT Suite

This release supports IoT Controller release 1.7.1 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)

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.

## Hardware and Software Support

### Supported Matrix and Unsupported Models

#### NOTE

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

Device	Type	Mode	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	Lock	ZigBee	Assa-Abloy	Yale	YRD220/240 TSDB
Yale YRD210 Push Button Lock	Lock	ZigBee	Assa-Abloy	Yale	YRD210 Push
Smartcode 916	Lock	ZigBee	Kwikset	Kwikset	SMARTCODE_DEADBOLT_10T
Smartcode 910 (450201)	Lock	ZigBee	Kwikset	Kwikset	
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		
GE Smart Dimmer	Switch	ZigBee	GE	Jasco Products	45857
GE Smart Switch	Switch	ZigBee	GE	Jasco Products	45856
Smart Plug	Plug	ZigBee	Centralite	Centralite	4257050-ZHAC
Zen Thermostat	Thermostat	ZigBee	Zen Within	Zen Within	Zen-01
ZBALRM	Alarm	ZigBee	Smartenit		Model #1021 A
Temp, Humidity Sensor	Sensor	ZigBee	Heiman	Heiman	HT-N
Gas detector	Sensor	ZigBee	Heiman	Heiman	GASSensor-N
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
Multipurpose Sensor	Sensor	ZigBee	SmartThings	Samjin	
Button	Sensor	ZigBee	SmartThings	Samjin	
Motion Sensor	Sensor	ZigBee	SmartThings	Samjin	
Water Leak Sensor	Sensor	ZigBee	SmartThings	Samjin	
Motion Sensor	Sensor	ZigBee	AduroSmart ERIA	Adurolight	
Smart Plug	Plug	ZigBee	SmartThings	Samjin	
Bulb	Bulb	ZigBee	AduroSmart ERIA		
Bulb	Bulb	ZigBee	Cree		BA19-08027OMF-12CE26-1C100
Smart Plug	Plug	ZigBee	INNR		

**Hardware and Software Support**  
Supported Matrix and Unsupported Models

Device	Type	Mode	Manufacturer	Basic Name	Basic Model
Zen Thermostat	Thermostat	ZigBee	Zen Within	Zen Within	Zen-01
ZBALRM	Alarm	ZigBee	Smartenit		Model #1021 A
Temp, Humidity Sensor	Sensor	ZigBee	Heiman	Heiman	HT-N
Gas detector	Sensor	ZigBee	Heiman	Heiman	GASsensor-N
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
Multipurpose Sensor	Sensor	ZigBee	SmartThings	Samjin	
Button	Sensor	ZigBee	SmartThings	Samjin	
Motion Sensor	Sensor	ZigBee	SmartThings	Samjin	
Water Leak Sensor	Sensor	ZigBee	SmartThings	Samjin	
Motion Sensor	Sensor	ZigBee	AduroSmart ERIA	Adurolight	
Smart Plug	Plug	ZigBee	SmartThings	Samjin	
Bulb	Bulb	ZigBee	AduroSmart ERIA		
Bulb	Bulb	ZigBee	Cree		BA19-08027OMF-12CE26-1C100
Smart Plug	Plug	ZigBee	INNR		
Smart Blinds	Blinds	ZigBee	Axis Gear		
Occupancy Sensor	Sensor	ZigBee	Telkonet		
Door Sensor	Sensor	ZigBee	Telkonet		
Thermostat	Thermostat	ZigBee	Telkonet		
Picocell	Gateway	LoRa	Semtech		
Mini Hub/ Basic station	Gateway	LoRa	TABS		
Door Sensor	Sensor	LoRa	TABS		
Occupancy Sensor	Sensor	LoRa	TABS		
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
Vape/Sound Sensor	Sensor	Wired	Soter		FlySense

## Known Issues

**TABLE 6** 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	ZigBee	SmartThings	Samjin	
Water Leak Sensor	Sensor	ZigBee	SmartThings	Samjin	
Smart Plug	Sensor	ZigBee	SmartThings	Samjin	
Bulb	Bulb	ZigBee	AduroSmart ERIA		

## Known Issues

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

### NOTE

Known issues stated in the 5.2.1 release notes are also applicable to this release.

Component/s	Upgrade
<b>Issue</b>	ER-9597
<b>Description</b>	<p>When the controller meets the following conditions before upgrading:</p> <ul style="list-style-type: none"> <li>• Access and core separation feature is enabled.</li> <li>• UDI interface exists.</li> <li>• There are static routes for UDI interface.</li> </ul> <p>Then, after upgrading to release 5.2.2, static routes for the UDI interface will be placed in an incorrect routing table so these destinations will not be reachable.</p> <p>For assistance, contact RUCKUS support team using <a href="https://support.ruckuswireless.com">https://support.ruckuswireless.com</a>.</p>

Component/s	AP
<b>Issue</b>	ER-8577
<b>Description</b>	Statistical information provided to SCI may result in discrepancies between total traffic sessions summary and binned sessions reports available in SCI.

Component/s	AP
<b>Issue</b>	SCG-121365
<b>Description</b>	Sometimes when AP Tx power country limits are low, the Tx power settings in the controller web user interface do not decrease the actual AP transmit power.

Component/s	AP
<b>Issue</b>	ER-9622
<b>Description</b>	APs located in same subnet as controller SZ144 will fail to auto discover the controller.
<b>Workaround</b>	Use other available controller discovery options (DHCP option 43, DNS, manual).

<b>Component/s</b>	Control Plane
<b>Issue</b>	ER-9376, SCG-124193
<b>Description</b>	Proxy LDAP/AD over TLS do not support using a certificate with fully qualified domain name (FQDN) for CN.
<b>Workaround</b>	Use IP address for CN field.

<b>Component/s</b>	System
<b>Issue</b>	ER-9476
<b>Description</b>	Configuration details for <i>Authentication Service</i> inside <i>Real Based Authentication Service</i> will not be shown in controller web user interface when editing this value.

<b>Component/s</b>	System
<b>Issue</b>	ER-9529
<b>Description</b>	WLANs may fail to be removed from WLAN group when similar simultaneous operations like this are done using Public API.

<b>Component/s</b>	System
<b>Issue</b>	ER-9556
<b>Description</b>	Controller web user interface will fail to download the alarms log file when the alarm count is over 50000.

<b>Component/s</b>	System
<b>Issue</b>	ER-9423
<b>Description</b>	SNMP traps are not sent by the controller for Switch related alarms and events.

<b>Component/s</b>	System
<b>Issue</b>	ER-9633
<b>Description</b>	Unable to apply WLAN templates extracted from the Zones under <b>Partner Domain</b> .

<b>Component/s</b>	Virtual SmartZone
<b>Issue</b>	ER-9658
<b>Description</b>	SoftGRE profiles containing similar server IP address will fail to be created in controller web user interface with error: <i>Duplicate gateway address found in AP tunnel profile</i> .

## Changed Behavior

The following are the changed behavior issues in this release.

<b>Component/s</b>	Control Plane
<b>Issue</b>	SCG-124654
<b>Description</b>	Number of manual controller configuration backups kept in the cluster is now limited to 50. If a user tries to create an additional backup from web user interface, it will be asked to allow removing the older configuration file in system.

## Resolved Issues

Component/s	Control Plane
Issue	SCG-126838
Description	<p>Better control is introduced for AP firmware download from the controller when AP zones are upgraded. Default settings will limit to 300 the number of simultaneous connections to download AP firmware (without bandwidth limit per connection). A new SmartZone CLI command is also available to modify number of concurrent connections and download speed per connection:</p> <pre>&gt; enable # config (config) # firmware-download-limit</pre>

Component/s	System
Issue	ER-9028
Description	Removed information related to internal-only interfaces when SZ is queried using SNMP IF-MIB OIDs.

Component/s	System
Issue	SCG-127010, ER-9404
Description	Maximum number of Location Service profiles per regular domains has increased from 128 to 1000 (maximum number per partner domain remains at 128).

Component/s	System
Issue	SCG-127642, SCG-127443, SCG-127833
Description	<p>Several enhancements related to <b>Admin Activity</b> messages are included in this release:</p> <ul style="list-style-type: none"> <li>Administrator Activity messages reported when administrator users are moved between groups or permissions are modified now contain more information.</li> <li>Administrator Activity message reported when there is a user login failure to controller web user interface now contains more details.</li> </ul>

Component/s	UI/UX
Issue	SCG-128034, ER-9615
Description	Controller web user interface page available in <b>System &gt; Switch Settings &gt; Switch Registration</b> is now hidden to Partner Domain level users since it contains system level information.

## Resolved Issues

The following are the resolved issues related to this release.

Component/s	Analytics
Issue	SCG-124328, SCG-121667, SCG-122357, SCG-125004, SCG-120553, SCG-123478, SCG-123830, SCG-123839, SCG-123929, SCG-124041, SCG-124695, SCG-123746
Description	Enhancements and several fixes for connection to RUCKUS Analytics and Service Validation feature in that platform are included in this release.

Component/s	AP
Issue	ER-8416



<b>Component/s</b>	AP
<b>Description</b>	Resolved an issue where client throughput may decrease for a short period after off-channel scan.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9568
<b>Description</b>	Resolved an issue where AP channel changed even though the <i>Auto Channel</i> selection option was <i>OFF</i> .

<b>Component/s</b>	AP
<b>Issue</b>	ER-9378
<b>Description</b>	Resolved an issue where AP R730 that causes client throughput degradation.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9627
<b>Description</b>	Resolved an issue where AP zone could not be deleted by flush counter reaches the maximum.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9573
<b>Description</b>	Resolved an issue where upon roaming client traffic is dropped or it is disconnected if Force DHCP feature is enabled in WLAN.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9577
<b>Description</b>	Resolved an issue in R730 that could cause client connectivity issues or disconnections.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-124955
<b>Description</b>	Resolved an issue where APs did not correctly balance after one controller node goes down.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-126113, SCG-126862, SCG-125071
<b>Description</b>	Several improvements in zone templates handling are introduced in this release.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-124213, SCG-125601, SCG-126421
<b>Description</b>	Enhancements and several fixes in AP memory utilization are included in this release.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-125120, AP-13953, SCG-121644
<b>Description</b>	Enhancements for AP and controller management initial connection and fail over are included in this release.

## Resolved Issues

<b>Component/s</b>	Data Plane
<b>Issue</b>	SCG-125817, SCG-125093, SCG-125553, SCG-125581, SCG-125093, SCG-125059
<b>Description</b>	Enhancements and several fixes in data plane stability during and after an upgrade are introduced in this release.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8490
<b>Description</b>	Resolved an issue where the AP was randomly unable to reach the RADIUS server if packets required fragmentation.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9244
<b>Description</b>	Resolved an issue specific to 802.11ax AP models where some SSIDs may not be broadcasted correctly.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9261
<b>Description</b>	Resolved an issue where client disconnected by the administrator from 802.11x WLAN with PMK/OKC enabled was allowed to reconnect without full re-authentication.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8417
<b>Description</b>	Adjusted MU-MIMO functionality for better distributed throughput in environments with large number of MU capable clients.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8555
<b>Description</b>	Resolved an issue where in DPSK WLAN the roaming client reverted to the default VLAN when 802.11r is enabled.

<b>Component/s</b>	AP
<b>Issue</b>	AP-13662, ER-8660, ER-9393
<b>Description</b>	Resolved an issue in 802.11ax APs where incorrect client RSSI values were reported.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9031, ER-9130
<b>Description</b>	Resolved an issue specific to 802.11ax AP models where channel width may change unexpectedly.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9189
<b>Description</b>	Resolved an issue where some log lines in AP were truncated if remote Syslog was enabled.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8946, ER-9039
<b>Description</b>	Resolved a client connectivity issue specific to 802.11ax AP models where client count was calculated incorrectly for MU-MIMO beamforming to operate correctly.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9112, SCG-125773
<b>Description</b>	Resolved an issue where WISPr client authorization failed on DHCP NAT enabled APs.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8647
<b>Description</b>	Resolved an issue where long GPS coordinates were triggering a frequent error log in AP.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9222
<b>Description</b>	Resolved an issue where AP Ethernet ports using tunneled QinQ were not tagging the traffic correctly.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8397
<b>Description</b>	Resolved an issue where the client may fail to complete DHCP process on roaming.

<b>Component</b>	AP
<b>Issue</b>	ER-8931, ER-8917
<b>Description</b>	Resolved an issue where client using Dynamic VLAN roaming between radios in same AP goes back to default SSID VLAN when using PMK/OKC.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8298
<b>Description</b>	Resolved an issue where NAT/DHCP option failed on LAN2 port of M510 AP.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9202
<b>Description</b>	Resolved an issue where an AP process related to Mesh was enabled although this feature was disabled.

<b>Component</b>	AP
<b>Issue</b>	ER-8568
<b>Description</b>	Resolved an issue where customized guest portal logo was not loaded in authenticated page.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9089

## Resolved Issues

<b>Component/s</b>	AP
<b>Description</b>	Resolved an issue where the parameter <i>Tx Power Backoff</i> failed to show the correct value in the controller web user interface.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9215
<b>Description</b>	Resolved an issue specific to 802.11ax AP models where clients may be unable to connect.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9359
<b>Description</b>	Resolved an issue where incorrect MAC addresses were being sent to Ekahau application.

<b>Component/s</b>	AP
<b>Issue</b>	ER-6886
<b>Description</b>	When there is a latency higher than 200ms between controller and remote APs, there can be timeout errors during DPSK authentication.  <b>NOTE</b> Contact RUCKUS technical support if your latency is higher than that.

<b>Component</b>	AP
<b>Issue</b>	ER-8968
<b>Description</b>	Resolved an issue where inactivity timeout occurred prematurely and client disconnected with <i>Reason Code 4</i> .

<b>Component/s</b>	AP
<b>Issue</b>	ER-7746
<b>Description</b>	In WLAN configuration, if TKIP is selected, BTM feature will [now] be disabled by default.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9114, ER-9099
<b>Description</b>	Resolved some issues where WLAN stayed or changed to <i>ON</i> though it was provisioned as <i>OFF</i> through the WLAN scheduler specific option.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8985, ER-8876
<b>Description</b>	Enhancements where some frequent non meaningful AP syslog entry are removed.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8691
<b>Description</b>	Resolved an issue where client connected to WISPr WLAN was redirected to secondary redirect URL even when primary redirect URL was active.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9025
<b>Description</b>	Resolved an issue where the controller web user interface failed to show the correct channelization for 2.4GHz and 5GHz radios of 802.11ax AP models.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9251
<b>Description</b>	Resolved an issue specific to 802.11ax AP models where 2.4GHz radio mode was incorrectly set.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9248
<b>Description</b>	Resolved an AP reboot issue caused by kernel panic.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8359
<b>Description</b>	An algorithm improvement is introduced with the AP latency number calculation.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8330
<b>Description</b>	Resolved an issue where R710 acting as RAP was failing to properly pass traffic between other 802.11ac Wave 2 APs acting as MAPs.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8747
<b>Description</b>	Resolved an issue in 802.11ax APs that could cause intermittent packet loss and latency spike.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8674
<b>Description</b>	Resolved an AP reboot issue specific to 802.11ax AP models caused by target assert.

<b>Component</b>	AP
<b>Issue</b>	ER-8761
<b>Description</b>	Resolved an issue where SNMP AP Tx/Rx bytes from <i>RUCKUS-SCG-WLAN-MIB</i> provided delta information instead of cumulative.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8532
<b>Description</b>	Resolved an issue where controller public API Query/AP failed when using the term <i>CONTROLBLADE</i> in the filter.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8634

## Resolved Issues

<b>Component/s</b>	AP
<b>Description</b>	Resolved an issue where joining a new controller to an existing cluster would fail if the cluster already had an SZ100-D data plane.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9386
<b>Description</b>	Resolved an issue where disabling the DHCP service on AP for the zones configured with DHCP configuration (enable on multiple AP's) resets the AP model specific setting.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8228
<b>Description</b>	Resolved an issue where AP tunnel statistics showed the wrong data plane name and MAC address.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8754
<b>Description</b>	Resolved an issue where RADIUS <i>Accounting User Name</i> attribute was incorrectly set to client MAC address.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8758
<b>Description</b>	Resolved an issue where WISPr redirection in a tunneled WLAN was not working when client isolation multicast was enabled.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8852, ER-8817
<b>Description</b>	Resolved an issue where radio latency for 802.11ax AP models was not displayed/reported with accurate information in controller GUI.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8538, ER-9379
<b>Description</b>	Resolved an issue in 802.11ac Wave 2 APs of reporting incorrect number of Tx management frames.

<b>Component</b>	AP
<b>Issue</b>	ER-9042
<b>Description</b>	Resolved an issue where the client gets disconnected after inter SSID roaming on the same AP.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8653
<b>Description</b>	Resolved an issue where controller web user interface showed inconsistent AP count between nodes after some cluster member is disconnected for some time and connected back.

<b>Component</b>	AP
<b>Issue</b>	ER-7652, ER-8621
<b>Description</b>	Enhancement in AP locating the correct DPSK key that resolves a client association issue.

<b>Component</b>	AP
<b>Issue</b>	ER-8188
<b>Description</b>	Resolved an issue where after target assert on the AP, UTP rate limiting failed.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8759
<b>Description</b>	Resolved an issue where the AP 5G channel was configured to 48 and the CLI command, <b>show running-config ap</b> wrongly displayed it as AUTO.

<b>Component</b>	AP
<b>Issue</b>	ER-9015
<b>Description</b>	Resolved an issue where clients may fail to authenticate due to a communication issue between AP and controller due to incorrect closure of file descriptor.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9169
<b>Description</b>	Resolved an issue where APs were failing to update the configuration due to an incorrect data validation in controller web user interface for location field when using Unicode characters.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9272
<b>Description</b>	Resolved an issue where the portal redirection did not work when the APs are on a standby cluster in Geo Redundancy deployment.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-126965
<b>Description</b>	Resolved an issue where URL filtering would fail on a DHCP NAT enabled AP.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-120551, ER-8600
<b>Description</b>	Resolved an issue where data traffic was not correctly shaped according to SSID rate limiting value if higher than 30Mbps.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-113164
<b>Description</b>	Resolved an issue where channel 144 may be available in AP even if it is disabled in per AP settings.

## Resolved Issues

<b>Component/s</b>	AP
<b>Issue</b>	ER-8328
<b>Description</b>	Resolved an issue where R610 AP may fail to successfully connect to a 2.5Gbps switch port.

<b>Component/s</b>	AP
<b>Issue</b>	ER-8863
<b>Description</b>	Resolved an AP reboot issue specific to 802.11ax AP models caused by kernel panic.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9170
<b>Description</b>	Resolved a random AP reboot issue when creating or deleting a WLAN

<b>Component/s</b>	AP
<b>Issue</b>	ER-9492
<b>Description</b>	Resolved an issue where SSIDs are not broadcasted correctly if Load Balancing with proactive steering mode is enabled.

<b>Component/s</b>	AP
<b>Issue</b>	ER-9516 , ER-9517
<b>Description</b>	Resolved an issue which limited MU-MIMO performance on APs R750 and R650.

<b>Component</b>	Control Plane
<b>Issue</b>	ER-9548
<b>Description</b>	Resolved LBS venue name limitation issue to allow uppercase, lowercase, and some special characters for 3rd Party LBS support.

<b>Component</b>	Control Plane
<b>Issue</b>	ER-8628
<b>Description</b>	Resolved an issue where a controller may be unable to accept any AP because an internal process failed to restart properly.

<b>Component</b>	Control Plane
<b>Issue</b>	ER-8608
<b>Description</b>	Resolved an issue where controller <i>MsgDist</i> log contained frequent lines incorrectly classified at ERROR level.

<b>Component</b>	Control Plane
<b>Issue</b>	ER-8973
<b>Description</b>	Resolved an issue where rate limiting was not applied when <i>Framed-Protocol</i> attribute was received in <i>Access Accept</i> message from AAA server.

<b>Component/s</b>	Data Plane
<b>Issue</b>	ER-8992, ER-9470



<b>Component/s</b>	Data Plane
<b>Description</b>	Resolved a data plane core dump issue caused by log download.

<b>Component/s</b>	Data Plane
<b>Issue</b>	ER-9214
<b>Description</b>	Resolved an issue where the data plane failed to connect to the controller.

<b>Component/s</b>	Data Plane
<b>Issue</b>	ER-8539
<b>Description</b>	Resolved an issue where data plane may lose data IP address due to file corruption.

<b>Component/s</b>	SPoT
<b>Issue</b>	ER-8581
<b>Description</b>	Resolved an issue where the SPoT API to query client did not work.

<b>Component/s</b>	SPoT
<b>Issue</b>	ER-8173
<b>Description</b>	Resolved an issue where AP failed to report to SPoT when WLAN service was down.

<b>Component</b>	Switch Management
<b>Issue</b>	ER-8804
<b>Description</b>	Resolved an issue where remote CLI access to managed switch through the controller failed when the controller management ACL is enabled.

<b>Component</b>	System
<b>Issue</b>	ER-9160
<b>Description</b>	Resolved a controller (SZ300) Power Supply Unit LED issue.

<b>Component/s</b>	System
<b>Issue</b>	SCG-124714, SCG-126657, SCG-127039, ER-9312
<b>Description</b>	Several fixes related to UE roaming are introduced in this release: Resolved an issue when roaming using 802.11r in a tunneled WLAN using DVLAN. <b>[SCG-124714]</b> Resolved an issue when roaming in a WLAN with force DHCP enabled. <b>[SCG-126657]</b> Resolved an issue where Radius Accounting-Stop was missing some attribute when roaming between radios in the same AP. <b>[SCG-127039]</b> Resolved an issue where Single Radius Session Accounting is not done correctly when roaming between radios in the same AP. <b>[ER-9312]</b>

<b>Component</b>	System
<b>Issue</b>	ER-9066
<b>Description</b>	Resolved an issue where switch VLAN deleted through the controller is added back into switch configuration with <i>multicast passive</i> option enabled.

## Resolved Issues

<b>Component/s</b>	System
<b>Issue</b>	ER-8910
<b>Description</b>	Resolved a memory leak issue in controller process <i>LWAPP2SCG</i> .

<b>Component/s</b>	System
<b>Issue</b>	ER-9307
<b>Description</b>	Resolved an issue where admin test AAA server could return false result.

<b>Component/s</b>	System
<b>Issue</b>	ER-9310
<b>Description</b>	Resolved an issue where columns were not sorted correctly in <b>Diagnostics &gt; RADIUS</b> controller web user interface.

<b>Component/s</b>	System
<b>Issue</b>	ER-8454
<b>Description</b>	Resolved an issue where certain events showed incorrect Management IP address of the controller.

<b>Component/s</b>	System
<b>Issue</b>	ER-8749
<b>Description</b>	Resolved an issue where proxy ARP feature could not be checked or configured in controller CLI for Tunneled WLAN.

<b>Component/s</b>	System
<b>Issue</b>	SCG-126121, ER-9127
<b>Description</b>	Resolved an issue where VLAN assignment to clients via User Role mapping or WISPr Radius attributes resulted in Radius proxy SZ process memory leak.

<b>Component/s</b>	System
<b>Issue</b>	ER-9233
<b>Description</b>	Resolved an issue where the AP and Clients list CSV file contained Chinese characters after changing the logo.

<b>Component/s</b>	System
<b>Issue</b>	ER-8791
<b>Description</b>	Resolved an issue where the controller SNMP MIB <i>ruckusSCGWLANZone</i> returned a wrong value.

<b>Component</b>	System
<b>Issue</b>	ER-7979
<b>Description</b>	Resolved an issue where the controller stopped showing traffic and health data of the control plane nodes.

<b>Component/s</b>	System
<b>Issue</b>	ER-8827
<b>Description</b>	Enhancement by adding a validation to block creating a zone from the Zone template whose Ethernet port profile refers to a nonexistent firewall profile.

<b>Component/s</b>	System
<b>Issue</b>	ER-9211
<b>Description</b>	Resolved an issue where licenses assigned to a controller node deleted from a cluster were removed immediately. Licenses are kept for 45 days for the node to be replaced with a new one.

<b>Component</b>	System
<b>Issue</b>	ER-8530
<b>Description</b>	Resolved an issue where client authentication and accounting fails when using RADIUS proxy due to an issue in controller RADIUS proxy service.

<b>Component</b>	System
<b>Issue</b>	ER-8957
<b>Description</b>	Resolved an issue where controller WLAN template containing external DPSK WLANs was failing to apply.

<b>Component/s</b>	System
<b>Issue</b>	ER-8942
<b>Description</b>	Resolved an issue where the <i>copy backup</i> CLI command failed to work through TFTP (Trivial File Transfer Protocol).

<b>Component</b>	System
<b>Issue</b>	ER-8810
<b>Description</b>	Resolved an issue where generating a CSR failed due to a blank space in the CSR name.

<b>Component</b>	System
<b>Issue</b>	ER-8520
<b>Description</b>	Resolved an issue where flagged AP number did not count in <i>Connected AP #</i> in the controller exported zone CSV.

<b>Component/s</b>	System
<b>Issue</b>	ER-9054
<b>Description</b>	Resolved an issue where the remote CLI access to Switch through the controller did not provide a prompt.

<b>Component</b>	System
<b>Issue</b>	ER-8836, ER-8795
<b>Description</b>	Resolved an issue where the controller through CLI was unable to move a domain to another parent domain.

## Resolved Issues

<b>Component/s</b>	System
<b>Issue</b>	ER-8797
<b>Description</b>	Resolved an issue where event 2102 was wrongly asserted for WLANs with authentication or accounting proxy enabled.

<b>Component</b>	System
<b>Issue</b>	ER-8639
<b>Description</b>	Resolved an issue where flagged Switches were not coming back to online status.

<b>Component</b>	System
<b>Issue</b>	ER-8466
<b>Description</b>	Resolved an issue where the IP address value was seen in controller web user interface as N/A in Switch DHCP pool options when configured through Switch CLI with two IP addresses.

<b>Component</b>	System
<b>Issue</b>	ER-8790
<b>Description</b>	Resolved an issue where users cannot unmark Rogue AP's with the user permission <i>Modify</i> .

<b>Component/s</b>	System
<b>Issue</b>	ER-9421
<b>Description</b>	Enhancement in response time for SNMP queries related to AP data.

<b>Component/s</b>	System
<b>Issue</b>	ER-8159, ER-8278, SCG-120210
<b>Description</b>	Enhancements and several fixes for user uploaded certificates to be used in Guest WLAN are introduced in this release.

<b>Component/s</b>	System
<b>Issue</b>	ER-9351
<b>Description</b>	Resolved an issue where controller CLI <b>show running-config zone</b> command did not display the secondary WISPr redirect URL.

<b>Component/s</b>	System
<b>Issue</b>	ER-8648
<b>Description</b>	Resolved an issue where the controller did not publish MGR message to SPoT.

<b>Component/s</b>	System
<b>Issue</b>	SCG-127645
<b>Description</b>	Resolved an issue where event code 8016 <i>Admin account lockout after failed attempts</i> failed to generate.

<b>Component/s</b>	System
<b>Issue</b>	SCG-127644

<b>Component/s</b>	System
<b>Description</b>	Resolved an issue where SNMP and email notifications were not sent for event code 811 <i>Admin account lockout</i> .

<b>Component/s</b>	System
<b>Issue</b>	SCG-127643
<b>Description</b>	Resolved an issue where failed login administrative activities were not captured for all failed login attempts when <i>Account Security</i> was enabled.

<b>Component/s</b>	System
<b>Issue</b>	SCG-127319
<b>Description</b>	Resolved an issue where the system failed to clear insufficient license capacity alarm status.

<b>Component/s</b>	System
<b>Issue</b>	SCG-125653
<b>Description</b>	Resolved an issue where the country code in the controller Zone fails to inherit the default value from system AP settings during ZD migration.

<b>Component/s</b>	System
<b>Issue</b>	SCG-125497
<b>Description</b>	Resolved an issue where <i>SNMP walk</i> on the <i>ruckusSCGConfigWLANEntry</i> MIB returned an empty value.

<b>Component/s</b>	System
<b>Issue</b>	ER-9124
<b>Description</b>	Enhancements related to switch upgrade are included in this release.

<b>Component/s</b>	UI/UX
<b>Issue</b>	SCG-76181
<b>Description</b>	Resolved an issue where if a zone that has been added to a report is deleted, the corresponding report failed because of the missing Zone.

<b>Component/s</b>	UI/UX
<b>Issue</b>	ER-9398
<b>Description</b>	Resolved an issue where the web user interface was unable to filter access points by keyword once the column was sorted.

<b>Component/s</b>	UI/UX
<b>Issue</b>	ER-9425
<b>Description</b>	Resolved an issue where client are not shown on the controller web user interface.

<b>Component/s</b>	UI/UX
<b>Issue</b>	ER-8854

## Resolved Issues

<b>Component/s</b>	UI/UX
<b>Description</b>	Resolved an issue where clients connected to tunneled SSID could not access controller SZ100 (configured as one port group) web user interface.

<b>Component/s</b>	UI/UX
<b>Issue</b>	ER-9301
<b>Description</b>	Resolved an issue where the controller did not support import EC (Elliptic Curve Cryptography) keys.

<b>Component</b>	Virtual SmartZone Data Plane
<b>Issue</b>	ER-8265
<b>Description</b>	Resolved an issue where data plane failed to report the tunnel statistics.

<b>Component</b>	Virtual SmartZone Data Plane
<b>Issue</b>	ER-9199
<b>Description</b>	Resolved an issue where virtual data plane failed to reach the controller after upgrading it.

<b>Component</b>	Virtual SmartZone Data Plane
<b>Issue</b>	ER-8601
<b>Description</b>	Enhanced the tunnel maintenance mechanism to reduce connectivity issues between the controller and data plane (SZ104-D/SZ124-D/SZ144-D and vSZ-D).

<b>Component/s</b>	Virtual SmartZone Data Plane
<b>Issue</b>	ER-7433
<b>Description</b>	Resolved an issue in tunneled WLAN where client traffic was sent to an incorrect default gateway destination.

<b>Component/s</b>	Virtual SmartZone Data Plane
<b>Issue</b>	ER-9058
<b>Description</b>	Resolved an issue of vSZ-D upgrade failure if it was initially created in 3.4.x/3.5.x releases.

<b>Component/s</b>	Virtual SmartZone
<b>Issue</b>	ER-9018
<b>Description</b>	Resolved an issue where controller CLI command failed to disable AP 2.4 GHz Tx power.

<b>Component/s</b>	Virtual SmartZone
<b>Issue</b>	ER-8214
<b>Description</b>	Resolved an issue where the controller was unable to configure the switch ports whose stack identity was larger than nine (Stack ID is the first part of switch port number, for example, Switch ID is 11 for Port Number "11/1/40").

<b>Component/s</b>	Virtual SmartZone
<b>Issue</b>	ER-9064

<b>Component/s</b>	Virtual SmartZone
<b>Description</b>	Enhancements related to controller CLI response time are included in this release.

## Interoperability Information

### Cluster Network Requirements

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

**TABLE 7** Minimum Cluster Network Requirement

Model	SZ300	vSZ-H	SZ144	SZ100	vSZ-E
<b>Latency</b>	77ms	68ms	85ms	119ms	119ms
<b>Jitter</b>	10ms	10ms	10ms	10ms	10ms
<b>Bandwidth</b>	69Mbps	69Mbps	46Mbps	23Mbps	23Mbps

### Client Interoperability

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

**NOTE**

Client Interoperability issues stated in the 5.2.1 release notes are also applicable to this release.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-128368
<b>Description</b>	Samsung Galaxy M51(Android-10) version M515FXXU1AT11 is not able to detect OWE encryption WLAN.
<b>Workaround</b>	For connecting Samsung Galaxy M51(Android-10) version M515FXXU1AT11, set any encryption (WPA2,WPA3,Open,etc) other than OWE.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-127109, SCG-112546
<b>Description</b>	iPad running iOS 13 and above will be detected as MAC or MAC OS when browsing using Safari. Client detection will be normal when using non native browsers like Chrome.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-127709

**Interoperability Information**  
Client Interoperability

<b>Component/s</b>	AP
<b>Description</b>	<p>The following Intel client cards do not connect to a WLAN which have enabled 802.11w as required along with 802.11r.</p> <ul style="list-style-type: none"> <li>• Intel(R) Dual Band Wireless-AC 8260 version: 20.70.19.1 date: 9/15/2020 -- Windows 10.</li> <li>• Intel(R) Dual Band Wireless-AC 7265 - version: 19.51.31.1 date: 9/15/2020 Windows 10.</li> </ul> <p><b>NOTE</b> Issue is not seen with Intel(R) Dual Band Wireless-AC 8265 Windows 10 pro 20.70.18.2.</p>

<b>Component/s</b>	AP
<b>Issue</b>	SCG-115805
<b>Description</b>	Google Pixel 1 devices running Android version 9 may fail to connect to a WLAN that has enabled <i>Transient Client Management (TCM)</i> feature.
<b>Workaround</b>	With a different TCM values, Google Pixel 1 will able to connect to the TCM WLAN profile.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-112981
<b>Description</b>	iPad (running OS version 9.3.5) and iPhone 4s (running OS version 6.1.3) devices do not connect to WLAN with encryption method as WPA2/WPA3-mixed profile.
<b>Workaround</b>	Configure WLAN with encryption method as WPA2 profile only.

<b>Component/s</b>	AP
<b>Issue</b>	SCG-123157
<b>Description</b>	Android 10 and 11 versions which has MAC address randomization features as <i>Default</i> affects the Wi-Fi experience.
<b>Workaround</b>	For MAC related authentication, disable Wi-Fi MAC randomization and select the option <i>Use Device MAC</i> while connecting to SSID.

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



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