RELEASE NOTES



RUCKUS SmartZone (LT-GA) Release Notes, 7.1.0

Supporting SmartZone R7.1.0

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Document History

Revision Number	Summary of Changes	Publication Date
A	Initial Release Notes	December 19, 2024

New Features in SmartZone 7.1.0

The following outlines the hardware and software features introduced in SmartZone release R7.1.0.

New Software Features

This section describes the new and enhanced software features introduced in SmartZone release R7.1.0.

Feature	Description		
Additional Hotspot 2.0 (Passpoint) Data Points	Specific data points, including Access Network Query Protocol (ANQP) request and response counts, will now be collected from both APs and SmartZone systems. These data points will be integrated into RUCKUS AI, enabling enhanced analysis and insights.		
AFC Phase 2 Features	An enhancement is implemented to ensure that Low Power Indoor (LPI) mode is disabled for outdoor 6 GHz APs, effectively restricting LPI mode from being used on outdoor APs.		
CALEA Support in SmartZone	Communications Assistance for Law Enforcement Act (CALEA) support has been removed in SZ/vSZ release 7.1.1. Users who need CALEA support will need to utilize versions earlier than SZ/vSZ release 7.1.1 (for example, 7.1.0, 7.0, 6.1.2).		
Dynamic Pre-Shared Key (DPSK3) Enhancement	The Dynamic Pre-Shared Key version 3 (DPSK3) enhancement optimizes the overall design to improve the end-user's connectivity experience, including while steering between WLANs.		
ICX Switch Features and Enhancements	• Pre-Provisioning the Controller - SmartZone now supports importing a CSV file to manage switch association with the desired Switch Group .		
	 Increase Port Profile VLAN Limit - Added support for editing port settings directly from the Front Panel view by double-clicking on a port. 		
	 Double click for port configuration - User information is now included in all SmartZone- initiated configuration change or update logs. 		
	• Create an ICX CLI template from an existing ICX backup - SmartZone now supports selecting an existing switch configuration backup and converting it into a CLI template, enabling bulk deployment to other selected switches.		
	• SmartZone ICX logging improvements -The port template now supports defining a range of VLANs, eliminating the need to type each VLAN individually.		
	BGP EVPN VxLAN Management - SmartZone now supports provisioning ICX switches with BGP EVPN including Dual Homing.		
	• Geo Redundancy Active-Active Support - SmartZone now supports Active-Active Geo Redundancy mode for switches.		
IPv6 Controller to RAI Communication	The cross-platform high-performance remote procedure call (gRPC) network protocol used for communication between RUCKUS AI and SmartZone now includes support for IPv6, ensuring compatibility with modern IP addressing standards.		

Feature	Description		
SmartZone IPv6 Deployment	SmartZone now includes support for IPv6 addresses as part of the IPv6 initiative for Federal support.		
SmartZone Secure Communication Enhancements	SmartZone generated certificates are now signed using a 3072-bit key length.		
Virtual SmartZone Support on Proxmox Hypervisor	Virtual SmartZone now offers support for the Proxmox Hypervisor.		
Enhancements	• The SmartZone cluster upgrade mechanism is enhanced to efficiently handle firmware upgrades, even when Elasticsearch is in a busy or RED state.		
	• The RabbitMQ version is upgraded, enhancing cluster stability and improving AP and switch management during node outages.		

RUCKUS Standard AP LED Description for Wi-Fi 7 Capable APs

The specified LED states for Wi-Fi 7 capable APs are outlined as follows. The LED is designed to transition from *Red* to *Amber* to *Green*. Additionally, there are exception states listed, which will only be activated if the AP is engaged in specific functions as defined below.

TABLE 1 LED Color, Description, and Patterns

LED Color	Description	Light Pattern
Red	AP is in the process of determining its power mode.	Solid Red
	AP is currently operating in IEEE 802.3af power mode.	Slow Blinking Red
	AP is currently undergoing a factory reset.	Blinking (alternating Red and Green)
Amber	AP has an adequate power supply and is currently in the process of booting up.	Solid Amber
	AP is currently in setup mode.	Blinking Amber
	AP has lost connectivity to the system controller interface.	Slow Blinking Amber
	AP is currently undergoing a firmware or configuration update.	Fast Blinking Amber
Green	WLAN services and controller management on the AP are currently operational.	Solid Green
	The WLAN on the AP has at least one client connected.	
	The WLAN on the AP has at least one client connected, and mesh networking is enabled.	

Countries Supported on 6GHz

Wi-Fi 7 APs and the 320MHz channel are supported in controller version R7.1.0 for the following country codes.

- 1. Countries supported on 6Ghz U-NII frequency bands 5, 6, 7, and 8 supporting channels: 1, 5, ..., 233:
 - BR: Brazil
 - CA: Canada
 - CL: Chile
 - CO: Colombia
 - DO: Dominican Republic
 - HN: Honduras

- KR: South Korea
- PE: Peru
- PG: Papua New Guinea
- SA: Saudi Arabia
- SV: El Salvador
- US: United States
- 2. Countries supported on 6Ghz U-NII frequency band 5 supporting channels: 1, 5, ..., 93:
 - AE: United Arab Emirates
 - AL: Albania
 - AT: Austria
 - AU: Australia
 - AZ: Azerbaijan
 - BE: Belgium
 - BH: Bahrain
 - BG: Bulgaria
 - BN: Brunei
 - BZ: Belize
 - BY: Belarus
 - CH: Switzerland
 - CY: Cyprus
 - CZ: Czech Republic
 - DE: Germany
 - DK: Denmark
 - EE: Estonia
 - EH: Western Sahara
 - ES: Spain
 - FI: Finland
 - FR: France
 - GB: United Kingdom
 - GR: Greece
 - HK: Hong Kong
 - HR: Croatia
 - HU: Hungary
 - IE: Ireland
 - IL: Israel
 - IS: Iceland
 - IT: Italy
 - JO: Jordan
 - JP: Japan

- KE: Kenya
- KW: Kuwait
- LI: Liechtenstein
- LT: Lithuania
- LU: Luxembourg
- LV: Latvia
- MA: Morocco
- MC: Monaco
- MN: Mongolia
- MO: Macau
- MT: Malta
- MU: Mauritius
- MX: Mexico
- MY: Malaysia
- NL: Netherlands
- NO: Norway
- PL: Poland
- PT: Portugal
- QA: Qatar
- RO: Romania
- RU: Russia
- SE: Sweden
- SG: Singapore
- SI: Slovenia
- SK: Slovakia
- TH: Thailand
- TR: Turkey
- TW: Taiwan
- ZM: Zambia
- ZA: South Africa
- ZW: Zimbabwe

Hardware and Software Support

Overview

This section provides release information about SmartZone controllers and Access Point features.

- The SZ300 RUCKUS Networks flagship, large-scale WLAN controller is designed for Service Providers 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 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.
- The Virtual SmartZone (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 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 an NFV-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 SZ144-D is the second-generation Data Plane hardware appliance which is functionally equivalent to the vSZ-D virtual Data Plane. The appliance provides turnkey deployment capabilities for customers who need a hardware appliance. The SZ144-D is managed by a vSZ Controller only and cannot work in a standalone mode.

Release Information

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

RUCKUS recommends the SmartZone R7.1.0 release for users of Wi-Fi 7 APs. For users with legacy APs that are not End-of-Support (EOS), RUCKUS suggests using the SmartZone R6.1.2 release along with its patch updates.

ATTENTION

It is recommended to upgrade the vSZ controller before updating the vSZ-D version. If the data plane version exceeds the vSZ controller version, the data plane cannot be managed by the vSZ platform.

ATTENTION

For Network Segmentation:

• Ensure that all ICX switches are upgraded to firmware version 09.0.10d (or any 09.0.10 patches that may become available after 09.0.10d) or version 10.0.10b (or any 10.0.10 patches that may become available after 10.0.10b).



CAUTION

SmartZone upgrade from R6.1.2.0 Patch 3 to R7.1.0 is not supported. Refer to the Technical Support Bulletin for details regarding the upgrade limitation - https://support.ruckuswireless.com/technical_support_bulletins/642.

NOTE

RUCKUS IoT version R2.2.0 and 2.2.1.0 MR is not compatible with controller version R7.1.0.

SZ300

- Controller Version: 7.1.0.0.586
- Control Plane Software Version: 7.1.0.0.440

- Data Plane Software Version: 7.1.0.0.586
- AP Firmware Version: 7.1.0.0.915

SZ144

- Controller Version: 7.1.0.0.586
- Control Plane Software Version: 7.1.0.0.440
- Data Plane Software Version: 7.1.0.0.73
- AP Firmware Version: 7.1.0.0.915

vSZ-H and vSZ-E

- Controller Version: 7.1.0.0.586
- Control Plane Software Version: 7.1.0.0.440
- AP Firmware Version: 7.1.0.0.915

vSZ-D/144D

• Data plane software version: 7.1.0.0.586

Upgrade Information

- Users on SmartZone R6.1.0, 6.1.1, 6.1.2, and 7.0.0 can upgrade to GA base release R7.1.0. However, versions prior to R6.1.0 are not eligible for this upgrade.
- Fresh installations are supported.
- The following SmartZone upgrade paths to R7.1.0 are supported:
 - Upgrade from R6.1.2 Patch 2 to R7.1.0.
 - Upgrade from R7.0.0 and its subsequent patches to R7.1.0.

Dynamic Signature Package Update

Administrators or users can dynamically upgrade the Signature Package from the RUCKUS support site. Signature Package version 1.670.2 is applicable for SmartZone R7.0.0 and R7.1.0.

Follow the steps below to execute a manual upgrade:

- 1. Download the Signature Package from the RUCKUS support site:
 - SmartZone R7.1.0 Signature Package version 1.670.2: https://support.ruckuswireless.com/software/4220-smartzone-7-0-0-st-ga-patch-2-sigpack-v2-1-670-2-application-signature-package.
 - SmartZone R7.1.0 Signature Package version 1.670.2-regular: https://support.ruckuswireless.com/software/4221-smartzone-7-0-0st-ga-patch-2-ruckussigpack-v2-1-670-2-regular-application-signature-package.
- 2. Manually upgrade the Signature package by navigating to **Security** > **Application Signature Package**.

NOTE

For more information, refer to the **Application Signature Packages** in RUCKUS SmartZone (LT-GA) Controller Administration Guide, 7.1.0

NOTE

Upgrading to R7.1.0 from versions earlier than R6.1.0 is not supported. It is important to note that RUCKUS does not impose any signature-package upgrade restrictions during the Zone upgrade process.

SZ Google Protobuf (GPB) Binding Class

Refer to RUCKUS SmartZone Getting Started on SZ GPB/MQTT Interface and download the latest SmartZone GPB.proto files from the RUCKUS support site:

- SmartZone 7.1.0 (GA) GPB.proto (Google ProtoBuf) image for GPB/MQTT [DNP] https://support.ruckuswireless.com/software/4301smartzone-7-1-0-ga-gpb-proto-google-protobuf-image-for-gpb-mqtt.
- 2. SmartZone **7.1.0** MockSCI-TLS (SZ to SCI MQTT subscriber software) for CentOS/Ubuntu https://support.ruckuswireless.com/software/ 4302-smartzone-7-1-0-ga-mocksci-tls-sz-to-sci-mqtt-subscriber-software-for-centos-ubuntu.

Public API

Click on the following links to view Public API documents:

- SmartZone 7.1.0 Public API Reference Guide (ICX Management) https://support.ruckuswireless.com/documents/4931
- SmartZone 7.1.0 Public API Reference Guide (SZ144) https://support.ruckuswireless.com/documents/4932
- SmartZone 7.1.0 Public API Reference Guide (SZ300)
- https://support.ruckuswireless.com/documents/4933
- SmartZone 7.1.0 Public API Reference Guide (vSZ-E) https://support.ruckuswireless.com/documents/4934
- SmartZone 7.1.0 Public API Reference Guide (vSZ-H)

https://support.ruckuswireless.com/documents/4935

Supported Matrix and Unsupported Models

Before upgrading to this release, check if the controller is currently managing APs, Switches, or IoT devices.

APs preconfigured with the SmartZone AP firmware may be used with SZ300 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 the controller if Solo APs running 104.x are being moved under controller 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 or later can connect to both Zone Director and SmartZone platforms. If an AP is running release 104.x or later and the LWAPP2SCG service is enabled on the controller, a race condition will occur.

IMPORTANT

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

Supported AP Models

This release supports the following RUCKUS AP models. All RUCKUS APs support IEEE 802.11 standards.

TABLE 2 Supported AP Models

Wi-Fi 6 (802.11ax)		Wi-Fi 6E (802.11ax)	Wi-Fi 7 (8	302.11be)
Indoor	Outdoor	Indoor	Indoor	Outdoor
R850	T750SE	R760	R770	T670
R750	T750	R560	R670	
R650	T350C			
R550	T350SE			
R350	T350D			
R350e				
H550				
H350				

The following lists the supported AP models in this SmartZone release when placed in an AP Zone that uses an older AP version.

ATTENTION

The R730 AP must be removed from the AP Zone before upgrading the AP Zone to the AP firmware version 6.1.1 or later.

ATTENTION

For APs that are not compatible with R7.1.0, it is essential to maintain them with AP firmware versions of R6.1, 6.1.1, 6.1.2, and 7.0.0 and its subsequent patches. The upgrade of the Zone for APs that are not supported in R6.1, 6.1.1, 6.1.2, and 7.0.0 and its subsequent patches is not feasible.

Wi-Fi 6 (802.11ax) (supported on R6.1.0, 6.1.1, and 6.1.2)	Wi-Fi 5 (802.11ac Wave 2)		
	Indoor	Outdoor	
T750SE	R720	T811CM	
7750	R710	T710S	
T350SE	R610	T710	
T350D	R510	T610S	
T350C	R320	T610	
R850	M510	T3105	
R760 (not supported on R6.1.0)	H510	T310N	
R750	H320	T310D	
R730	C110	T310C	
R650		T305I	
R560 (not supported on R6.1.0)		Т305Е	
R550		E510	
R350			
H550			
H350			

ATTENTION

AP R310 is Wave 1 and supports WPA3 – this is the one exception, the rest of the APs that support WPA3 are IEEE 802.11ac Wave 2 or IEEE 802.11ax.

Unsupported AP Models

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

TABLE 4 Unsupported AP Models

Unsupported AP Models				
SC8800-S	SC8800-S-AC	ZF2741	ZF2741-EXT	ZF2942
ZF7025	ZF7321	ZF7321-U	ZF7341	ZF7343
ZF7343-U	ZF7351	ZF7351-U	ZF7363	ZF7363-U
ZF7441	ZF7761-CM	ZF7762	ZF7762-AC	ZF7762-S
ZF7762-S-AC	ZF7762-T	ZF7962	ZF7781CM	ZF7982
ZF7782-S	ZF7782-E	ZF7782	ZF7372-E	ZF7372
ZF7352	ZF7055	R300	R310	R700
C500	H500	R600	R500	R310
R500E	T504	T300	T300E	T301N
T301S	FZM300	FZP300		

Supported ICX Models

The following ICX switch models can be managed from SmartZone:

TABLE 5 ICX Firmware Versions Compatible with SmartZone

ICX Model	First Supported FastIron Release	Last Supported FastIron Release
ICX 7150 ¹	08.0.80a	09.0.10a and subsequent patches
ICX 7150-C08P, -C08PT, -24F, -10ZP	08.0.92	09.0.10a and subsequent patches
ICX 7250	08.0.80a	09.0.10a and subsequent patches
ICX 7450	08.0.80a	09.0.10a and subsequent patches
ICX 7550	08.0.95a	-
ICX 7650	08.0.80a	-
ICX 7750	08.0.80a	08.0.95 and subsequent patches
ICX 7850	08.0.90	-
ICX 7850-48C	09.0.10a	-
ICX 8200 ²	10.0.00	-
ICX 8200-24ZP, -48ZP2, -24FX, -24F, -48F, -C08ZP	10.0.10	-

The following table defines ICX and SmartZone release compatibility.

¹ SmartZone does not support ICX 7150-ES models.

² SmartZone does not currently support the ICX 8200-24PV and ICX 8200-C08PFV models. Support for these models will be added in a future release.

NOTE

ICX switches must be running FastIron 08.0.80a at a minimum to connect to SmartZone. An ICX switch running unsupported firmware can still connect to the SmartZone controller. After the switch is connected, you must upgrade it to a firmware version that is compatible with the SmartZone controller version. This can be achieved using the switch firmware upgrade option in the Switch Group or by selecting one or more switches and performing the upgrade.

NOTE

FastIron 09.0.10a and later releases support management by SmartZone 6.1 and later.

NOTE

ICX switches with FIPS mode enabled do not support management by SmartZone.

TABLE 6 ICX and SmartZone Release Compatibility Matrix

	SmartZone 5.1.1	SmartZone 5.1.2	SmartZone 5.2	SmartZone 5.2.1 / 5.2.2	SmartZone 6.0	SmartZone 6.1	SmartZone 6.1.1	SmartZone 6.1.2	SmartZone 7.0.0	SmartZone 7.1
FastIron 08.0.90a	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
FastIron 08.0.91	Yes	Yes	Yes	No	No	No	No	No	No	No
FastIron 08.0.92	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No
FastIron 08.0.95 and subsequent patches	No	No	No	No	Yes	Yes	Yes	Yes	No	No
FastIron 09.0.10a and subsequent patches	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
FastIron 10.0.00 and subsequent patches	No	No	No	No	No	No	Yes	Yes	Yes	Yes
FastIron 10.0.10 and subsequent patches	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
FastIron 10.0.20 and subsequent patches	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes

The following table provides details on switch management feature compatibility between ICX and SmartZone releases.

Supported ICX Models

TABLE 7 Switch Management Feature Compatibility Matrix

Feature	SmartZone 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		
Remote CLI Change	5.2.1 and later	08.0.90 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-144 / vSZ-E	5.1.2 and later	08.0.90a and later		
DNS-based SmartZone Discovery	5.1.2 and later	08.0.95c and later		
Download Syslogs for a Selected Switch ³	5.2.1 and later	08.0.92 and later		
Switch Topology	5.2 and later	08.0.92 and later		
Designate a VLAN as Management VLAN	5.2.1 and later	08.0.92 and later ⁴		
Change Default VLAN	5.2.1 and later	08.0.95 and later		
Configure 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		
Geo Redundancy Active-Standby Mode	6.0 and later	08.0.95b and later		
Generic CLI Configuration	6.0 and later	08.0.95b and later		
Port-Level Override	6.0 and later	08.0.95b and later		
Port-Level Storm Control Configuration	6.1 and later	08.0.95 and later		
IPv6 Support (connection through static configuration only)	6.1 and later	09.0.10a and later		
Save Boot Preference	6.1 and later	09.0.10a and later		
Virtual Cable Testing	6.1 and later	09.0.10a and later		
Blink LEDs	6.1 and later	09.0.10a and later		
Send Event Email Notifications at Tenant Level	6.1 and later	09.0.10a and later		

 ³ To download system logs from SmartZone for a particular ICX switch, TFTP must be enabled.
 ⁴ FastIron 10.0.00 and later releases do not support management VLANs.

TABLE 7 Switch Management Feature Compatibility Matrix (continued)

Feature	SmartZone Release	ICX FastIron Release
Update the status of a Switch	6.1 and later	09.0.10a and later
Convert Standalone Switch	6.1 and later	09.0.10a and later
Flexible Authentication Configuration	6.1 and later	09.0.10a and later
Network Segmentation	6.1.1 and later	09.0.10d and later ⁵
Breakout Port Support	7.0.0 and later	09.0.10h and later
Enhancement in Firmware Upgrade Status	7.0.0 and later	09.0.10h and later
SmartZone Usernames in ICX Syslogs	7.0.0 and later	09.0.10h and later, 10.0.10c and later
Configuring Separate Authentication and Accounting in AAA server	7.0.0 and later	09.0.10h and later
Geo Redundancy Active-Active Mode	7.1.0 and later	10.0.20a and later
BGP EVPN VxLAN Management	7.1.0 and later	10.0.20a and later

Product Documentation

The product guides for R7.1.0 are updated. Refer to the New in this Document section in each publication for detailed changes.

TABLE 8 Product Guides

Category	Name of The Guide
User and Administrator Guides	RUCKUS SmartZone (ST-GA) SmartZone Upgrade Guide, 7.1.0
	RUCKUS SmartZone (LT-GA) Network Administration Guide, 7.1.0
	• RUCKUS SmartZone (LT-GA) Access and Security Services Guide, 7.1.0
	RUCKUS SmartZone (LT-GA) Controller Administration Guide, 7.1.0
	RUCKUS SmartZone (LT-GA) Troubleshooting and Diagnostics, 7.1.0
	• RUCKUS SmartZone (LT-GA) Tunnel and Data Plane, 7.1.0
Interface Guides	RUCKUS SmartZone (ST-GA) Tunnelling Interface Reference Guide, 7.1.0
	• RUCKUS SmartZone (ST-GA) Alarm and Event Reference Guide, 7.1.0
	RUCKUS SmartZone (ST-GA) AAA Interface Reference Guide, 7.1.0
	• RUCKUS SmartZone (ST-GA) Hotspot WISPr Interface Reference Guide, 7.1.0
	RUCKUS SmartZone (ST-GA) Hotspot 2.0 Reference Guide, 7.1.0
	• RUCKUS SmartZone (ST-GA) SNMP Reference Guide (SZ300/vSZ-H), 7.1.0
	• RUCKUS SmartZone (ST-GA) SNMP Reference Guide (SZ144/vSZ-E), 7.1.0
	• RUCKUS SmartZone (ST-GA) Command Reference Guide, 7.1.0
	RUCKUS SmartZone (ST-GA) Getting Started on SZ GPB/MQTT Interface, 7.1.0
Release Independent Guides	RUCKUS SmartZone 100, SmartZone 144 Getting Started Guide
	RUCKUS Virtual SmartZone Quick Setup Guide (vSZ)
	RUCKUS Virtual SmartZone Data Plane Configuration Guide
	RUCKUS Virtual SmartZone Getting Started Guide

⁵ As an exception, FastIron release 10.0.00 does not support this feature.

TABLE 8 Product Guides (continued)

Category	Name of The Guide	
API Reference Guide	RUCKUS SmartZone 7.1.0 (LT-GA) Public API Reference Guide (SZ144)	
	• RUCKUS SmartZone 7.1.0 (LT-GA) Public API Reference Guide (SZ300)	
	• RUCKUS SmartZone 7.1.0 (LT-GA) Public API Reference Guide (vSZ-E)	
	• RUCKUS SmartZone 7.1.0 (LT-GA) Public API Reference Guide (vSZ-H)	
	RUCKUS SmartZone 7.1.0 (LT-GA) Public API Reference Guide (ICX Management)	

Known Issues

This section outlines known behaviors and provides recommended workarounds, if available.

AP Limitations

Component/s	AP
Issue	AP-38228
Description	The radio of Band Steering and Transition Management (BTM) events are reported as 5GHz for the upper 5GHz band.

Component/s	AP
Issue	AP-35011
Description	Service validation consistently fails due to a Domain Name System (DNS) failure for APs that support only IPv6.

Component/s	AP
Issue	AP-28483
Description	Clients are disconnected due to excessive retries during roaming.

Component/s	AP
Issue	AP-32774
Description	Occasionally, in some dense deployments, client roaming events may fail to populate, which can result in missing events on the controller Event Log and on the RUCKUS AI Troubleshooting page.

Component/s	Control Plane
Issue	SCG-159040
Description	Self-sign Guest Pass creation fails if the special character '#' is used in the Guest Pass username credential.

Component/s	Control Plane
Issue	SCG-161322
Description	While executing the Administrator Authentication, Authorization, and Accounting (AAA) test using the Protected Extensible Authentication Protocol (PEAP), the Calling-Station-ID is incorrectly sent in the RADIUS Access-Request message.

Component/s	AP
Issue	AP-37777
Description	The downlink performance may be slightly reduced when using SoftGRE on the AP R670.

Component/s	AP
Issue	AP-37234
Description	AP channel recovery is not working as expected. APs remain limited in a 20MHz channel width after DFS radar signal disappears.

Component/s	AP
Issue	AP-37253
Description	Location-Based Services (LBS) is not supported on the 6GHz radio.

Component/s	AP
Issue	AP-35718, AP-32531, AP-35075
Description	An intermittent drop in Modulation and Coding Scheme (MCS) has been observed during longevity testing.

Component/s	AP
Issue	AP-35910
Description	During longevity tests, clients may disconnect, and the AP may not accept new client connections under certain conditions.
Workaround	Reboot the AP to restore normal operation.

Component/s	AP
Issue	SCG-151928
Description	It is recommended to use 802.3bt or direct current (DC) power for the R560, R760, and R770 APs when connecting a wired client to the AP. Using 802.3at power on the R560, R760, or R770 will disable the Ethernet 0 port.

Component/s	AP
Issue	AP-33568
Description	T670 and R670 APs do not support the thermal throttling mechanism.

Component/s	AP
Issue	SCG-142998
Description	For 802.11ax or later AP models: When the user selects the PoE Operating Mode as 802.3at, by design, the USB Port option is forcibly turned off (the toggle is grayed out and cannot be enabled). Subsequently, when the user changes the PoE Operating Mode to Auto, the USB Port toggle changes to edit mode; however, the controller web user interface does not automatically enable the USB Port option. If USB functionality is desired, you must manually enable the USB Port option.
Workaround	If USB functionality is desired, manually enable the USB Port option.

AP Limitations

Component/s	AP
Issue	SCG-142102
Description	There is a disparity in the Time To Live (TTL) definition between Link Layer Discovery Protocol (LLDP) version 0.7.1 and version 1.0.15 as outlined below:
	 LLDP 1.0.15 defines TTL as hold time multiplied by the interval (TTL = hold time * interval). In contrast, LLDP 0.7.1 defines TTL as equal to the hold time (TTL = hold time).
	• The default interval in LLDP 1.0.15 is set to 30 seconds. Following are the TTL examples in LLDP 1.0.15.
	• If hold time is set to 10 seconds, TTL is calculated as 30 * 10 = 300 seconds.
	• If hold time is set to 200 seconds, TTL is calculated as 30 * 200 = 6,000 seconds.
	• If hold time is set to 500 seconds, TTL is calculated as 30 * 500 = 15,000 seconds.
	• If hold time is set to 1000 seconds, TTL is calculated as 30 * 1000 = 30,000 seconds.

Component/s	AP
Issue	AP-26728
Description	The Deep Packet Inspection (DPI) system may be unable to detect or classify ongoing traffic during roaming because of the contextual information associated with the initial control flow.

Component/s	AP
Issue	AP-25573
Description	The Fast Transition (FT) framework mechanism does not support Pairwise Master Key - R1 (PMKR1) key re-dispatch to the Access Point (AP) that has newly joined the mobility domain.

Component/s	AP
Issue	AP-24758
Description	Uplink traffic associated with multicast, including protocols like Internet Group Management Protocol (IGMP) (224.0.0.22), may experience rate limiting. This restriction occurs because only certain IGMP control packets, such as <i>IGMP_MEMBERSHIP_REPORT</i> and <i>IGMP_HOST_LEAVE</i> , are recognized as known multicast traffic, leading to potential rate limitations.

Component/s	AP
Issue	AP-26297
Description	AP R560 does not support IEEE 802.3az Energy Efficient Ethernet (EEE).

Component/s	AP
Issue	AP-33444
Description	Under heavy load conditions, Wi-Fi 7 clients experience reduced throughput performance compared to Wi-Fi 6E clients on the same network.

Component/s	AP
Issue	SCG-143239
Description	The throughput of the 6GHz radio on the AP R560 or R760 decreases under heavy load conditions, particularly when Wi-Fi 6E clients are connected.

Component/s	AP
Issue	AP-32531
Description	Throughput performance may drop in certain conditions when a mix of scaled 802.11ac and 802.11ax clients connect to a Wi-Fi 7 AP.

Component/s	AP
Issue	SCG-146150
Description	AP R760 6Ghz radio supports up to 30 Microsoft Teams calls, encompassing both voice and video, without any lag.

Component/s	AP
Issue	AP-33145
Description	The AeroScout Wi-Fi 6E and Wi-Fi 7 APs are unable to send Tag reports.

Component/s	AP
Issue	AP-34774
Description	Random client roaming failures due to <i>Invalid FTIE</i> (Fast Transition Information Element) are observed when the AP is configured with WPA2/WPA3 mixed mode and 802.11r enabled. This behavior is not observed with WPA2 or WPA3 configurations.

Component/s	AP
Issue	AP-32419
Description	The downlink performance of R670 with 320MHz is slightly lower compared to the R770 performance.

Component/s	AP
Issue	AP-32827
Description	Downlink performance with RUCKUS GRE might be slightly lower than uplink performance for APs R670 or T670.

Component/s	AP
Description	When using Automated Frequency Coordination (AFC), the APs transmit power is capped by both Power Spectral Density (PSD) and Maximum Effective Isotropic Radiated Power (EIRP), using the lower of the two values. In some cases, the AP may assign Low Power (LP) in the U-NII-5 and U- NII-7 bands due to the Maximum EIRP returned in the AFC response. The Web UI displays LP instead of Standard Power (SP), which is normal under these conditions.

Component/s	AP
Description	AP R670 operates in low power indoor mode on channel 53, while AP R770 operates at standard power on the same channel. Make sure to collect the support log before rebooting the AP.

Component/s	Switches
Issue	FI-280394
Description	In the event that SmartZone users add, modify, or delete a static route for an ICX Switch, the ICX Switch will not display the SmartZone username in its syslog entries.

Known Issues

AP Limitations

Component/s	Switches
Issue	FI-273372
Description	If the ICX Switch platform 7750 has already been configured with port $1/2/1$ set to breakout mode, the breakout port $1/2/1$:1 might still retain its stack port configuration.

Component/s	Control Plane
Issue	SCG-161578
Description	When a device (User Equipment) connected to a wi-fi network (SSID) with the Single Accounting Session ID feature enabled moves between Access Points (APs), it sends an INTERIM-UPDATE and a START message to update the session status. If it moves repeatedly, a START message is sent, starting a new accounting session and changing the Accounting-Session-ID.

Multi-Link Operation (MLO)

Component/s	AP
Issue	AP-31300
Description	The Multicast Listener Discovery (MLD) MAC address and the Partner Link MAC address are identical.

Component/s	AP
Issue	AP-30749
Description	In Windows 11 devices with the BE200 chipset, during a successful MLO connection, the partner link Received Signal Strength Indicator (RSSI) is weak. This severely disrupts traffic flow on the secondary link, greatly diminishing the effectiveness of MLO.

Component/s	AP
Issue	AP-29341
Description	When connected to both 2.4GHz and 5GHz bands through MLO, the client fails to switch to the 2.4GHz band when the 5GHz signal weakens with distance from the AP. This causes a disconnection, as the client does not seamlessly transition to the stronger 2.4GHz link.

Component/s	AP
Issue	AP-37778
Description	The Multi-Link Operation (MLO) tag is included in the beacon on a Dynamic Pre-Shared Key 3 (DPSK3) Wireless Local Area Network (WLAN), even though MLO is disabled by default.

Component/s	AP
Issue	SCG-146645
Description	The <i>MQ Statistics</i> API CLI provides insights into various metrics related to messaging queues. When querying <i>MQ Statistics</i> for an MLO Client, the counters may display as zero, indicating no impact on the MLO client's connectivity.

Component/s	AP
Issue	AP-36456
Description	The Samsung S24 device disconnects from the MLO WLAN, showing an error that the <i>Previous authentication is no longer valid</i> when attempting to connect using 802.11ax APs.

Component/s	AP
Issue	SCG-146331
Description	<i>Google Pixel 8</i> phone experiences connection failures when attempting to connect as an MLO client with a partner link on an MLO WLAN configured with Open+OWE security and utilizing both 2.4GHz and 5GHz frequencies for MLO.

Component/s	AP
Issue	AP-34776
Description	The Stats command does not provide specific information regarding data transfer per link for MLO clients. Instead, it displays the overall data transfer for the client session, which is also reported in the controller user interface.

Component/s	AP
Issue	AP-31726
Description	MLO is not supported on mesh-enabled APs in this release.

Component/s	AP
Issue	SCG-145743
Description	 It is advised not to use iPerf 3 for Access Point (AP) QoS testing. Instead, it is recommended to utilize iPerf 2 for this purpose. The reason for avoiding iPerf 3 in AP QoS testing is that the initial packets transacted before the actual traffic starts are treated with best effort QoS. This leads to the fastpath being configured with an incorrect value, impacting subsequent QoS values. Using iPerf 2 is recommended to avoid this issue. When a non-default AP management VLAN (VLAN greater than 1) is assigned to a
	WLAN, it may result in all traffic on that WLAN egressing with video priority.

Component/s	Switch Management
Issue	FI-300729
Description	The switch overlay gateway configuration cannot be deleted.
Workaround	Reboot the switch and manually delete the overlay gateway configuration through the CLI console.

Component/s	System
Issue	SCG-153432
Description	The SZ300 controller system cannot manage more than 40 GB of Elasticsearch index data generated within a single day for the following reasons:
	 SZ300 has limited disk I/O bandwidth. When the Elasticsearch index exceeds 40 GB in a day, disk I/O reaches 100% utilization for approximately three hours during the Elasticsearch merge time (from 23:30 to 2:30).
	• This high I/O consumption can cause the system to slow down or hang, affecting overall functionality.
Workaround	Users must limit the number of persisted event codes by avoiding the persistence of all events. This will help prevent disk I/O exhaustion and ensure system stability.

Client Interoperability

Component/s	System
Issue	SCG-160739
Description	A small number of APs fail to reconnect on the first re-home attempt and take 15 minutes to re- home successfully to the active cluster on the second attempt.

Component/s	System
Issue	SCG-161594
Description	Configuring a 5GHz channel using the CLI mode with Dynamic Frequency Selection (DFS) enabled for United States country code results in an error.
Workaround	Configure the 5GHz channels in the controller web user interface.

Client Interoperability

NOTE

SmartZone controllers and RUCKUS 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	AP-31799
Description	In Samsung Galaxy Tab S8 devices, the client selects different Simultaneous Authentication of Equals (SAE) mechanisms (PWE or H2E) between the authentication and association packets, causing inconsistencies. This results in client connection failures.

Component/s	AP
Issue	AP-36295
Description	In Samsung Galaxy S24 Ultra devices, WLAN connectivity issues occur due to the absence of an IEEE 802.11be in the information element association request packet. As a result, the client's Radio Type displays a/n/ac/ax instead of a/n/ac/ax/be .

Component/s	AP
Issue	AP-29046
Description	Google Pixel 8 devices fail to establish MLO links when fast roaming is enabled. As a result, with fast roaming activated, Pixel 8 cannot leverage MLO features, restricting potential performance and reliability enhancements.

Component/s	AP
Issue	AP-34316
Description	Apple devices running the latest OS versions (iOS 18.x or MACos 15.x) do not transmit hostname information in the DHCP request when the hostname is changed to a non-default value.
Workaround	Use the default hostname for devices running these OS versions.

Component/s	AP
Issue	AP-32542

Component/s	AP
Description	Apple iPad and Samsung Galaxy S21 devices intermittently fail to execute Fast Transition (FT) roaming due to an <i>Invalid FTIE</i> error. This issue occurs when WPA2/WPA3 mixed mode is enabled with Pre-Shared Key (PSK) authentication and FT is enabled.
	NOTE If a client encounters this issue, the system falls back to executing a full authentication to roam to the target AP.

Component/s	AP
Issue	AP-37576
Description	When 6GHz is enabled, the Samsung S23 devices fails to connect to the Dynamic Segmentation and Authentication Enabled (DSAE) WLAN, which is configured with WPA2-WPA3 mixed mode and DPSK.
Workaround	Disable 6GHz when DSAE WLAN is configured with WPA2-WPA3 mixed mode and DPSK.

Component/s	AP
Issue	AP-34359
Description	A device equipped with the Qualcomm FastConnect 7800 Wi-Fi 7 chip and running driver version 3.1.0.1238 is unable to associate with the 6GHz radio on the R770 AP. This issue occurs specifically when the AP is configured for Austria.

Component/s	AP
Issue	AP-33390, SCG-146331
Description	Enabling Multi-Link Operation (MLO) with 802.11x is not recommended until all client vendors officially support 802.11x with MLO, due to limitations and inconsistent behavior across various vendors. This limitation does not apply to WPA3-SAE WLAN.

Component/s	AP
Issue	AP-27747
Description	When tested on 802.11ax APs, the device type for a OnePlus running Android 14 and an iPhone 13 is incorrectly identified as a tablet instead of a smartphone.

Changed Behavior

The following are the behavioral changes in this release.

Component/s	AP
Issue	ER-12755
Description	Added the option to disable image resizing when adding an indoor map for preventing image degradation.

Component/s	System
Issue	ER-14161
Description	Enhanced performance and memory usage of zone update.

Component/s	Control Plane
Issue	ER-13671
Description	Improved the Switch Management API to resolve the slowness experienced during switch operations executed through the Web user interface or CLI mode.

Component/s	Control Plane
Issue	ER-13972
Description	Updated the API documentation to reflect the validity of the Service Ticket for Public API version 11.1.

Component/s	System
Issue	ER-13302
Description	In the customer-uploaded Guest Pass HTML template, a new variable, GP_LOGO_BASE64 , is added to include the base64 string of the customer-uploaded Guest Portal logo.

Security Considerations

The following security fixes are included in this release.

Component/s	System
Issue	ER-13296
Description	Addressed vulnerabilities linked to National Institute of Standards and Technology (NIST) Common Vulnerability and Exposure (CVE) issue CVE-2024-21733 (Generation of Error Message Containing Sensitive Information vulnerability in Apache Tomcat.).

Component/s	AP
Issue	ER-14180
Description	APs sent malformed Link Layer Discovery Protocol (LLDP) packets, resulting in a Power over Ethernet (PoE) negotiation failure.

Component/s	AP
Issue	ER-14098
Description	The AP failed to update its configuration after being set up using the controller CLI command.

Component/s	AP
Issue	ER-13134
Description	All APs appeared offline because the RabbitMQ cluster failed to form due to a node being offline or on a prolonged network issue.

Component/s	AP
Issue	ER-14038

Component/s	AP
Description	Disabled client fingerprinting would incorrectly appear as <i>enabled</i> after refreshing the page.

Component/s	AP
Issue	ER-14097
Description	A client connection issue was reported on IEEE 802.11x WLAN due to RADIUS authentication failure when the end-user delayed entry of their username and password credentials.

Component/s	AP
Issue	ER-14041
Description	An invalid 6GHz channel was displayed though 6GHz was disabled.

Component/s	AP
Issue	ER-13634
Description	An unexpected 2.4GHz channel seen on the controller web user interface when the 2.4GHz radio was disabled.

Component/s	AP
Issue	ER-13602
Description	Incorrect LED status on APs R560/R760 when Mesh is enabled.

Component/s	AP
Issue	ER-13801
Description	Apple iOS devices could not authenticate when connected to a WebAuth WLAN.

Component/s	AP
Issue	ER-13772
Description	Resolved a target assertion issue that occurred when only the monitoring WLAN was active.

Component/s	AP
Issue	ER-14218
Description	Excessive ChannelFly Background Scan (Chanbkgndscan) and ChannelFly Background (Channelflybg) process logs, along with frequent Radio Management Plane (RPM) configuration saves, lead to flash memory corruption and a shortened lifespan. It is recommended not to reference the RPM key when updating the Signal-to-Noise Ratio (SNR) threshold through automatic channel selection.

Component/s	AP
Issue	ER-14076
Description	Chromebooks with OS version 126.0.6478.x were not identified during the DHCP procedure.

Component/s	AP
Issue	ER-14050

Component/s	AP
Description	Ethernet statistics showed all values as zeros when connected to a 2.5G Ethernet switch port.

Component/s	AP
Issue	ER-13981
Description	A kernel panic issue occurred during target recovery.

Component/s	AP
Issue	SCG-146726
Description	The communication between APs does not adhere to Bundesamt für Sicherheit in der Informationstechnik (BSI) compliance standards.

Component/s	AP
Issue	ER-13882
Description	The AP failed to report AeroScout T3/T2 tags accurately.

Component/s	AP
Issue	ER-13445
Description	AP failed to set Wi-Fi calling Tx priority for certain service providers.

Component/s	AP
Issue	ER-13461
Description	An unexpected authentication issue occurred before the session timeout was reached.

Component/s	AP
Issue	ER-13605
Description	Rx data packets failed to process on 802.11ax driver.

Component/s	AP
Issue	ER-13680
Description	AP was unable to migrate to a new controller node.

Component/s	AP
Issue	ER-13685, ER-12934
Description	5GHz channel could not be set due to radar detection.

Component/s	AP
Issue	ER-13728
Description	Packet drops occurred when both Wi-Fi Calling and Link Aggregation Control Protocol (LACP) features were enabled.

Component/s	AP
Issue	ER-13759, ER-14052
Description	The AP could disconnect from controller.

Component/s	AP
Issue	ER-13806
Description	An invalid AP neighbor report caused a kernel panic reboot on Wi-Fi 7 (IEEE 802.11be) APs.

Component/s	AP
Issue	ER-14051
Description	A client authentication issue involving multiple Pairwise Master Key Identifiers (PMKIDs) in a re- association message.

Component/s	AP
Issue	ER-14193
Description	The Electronic Shelf Label (ESL) module failed to enable on AP R670.

Component/s	AP
Issue	ER-14190
Description	No client Connection Events are displayed on the Troubleshooting page due to an exception caused by the presence of an @ symbol in the Account, Venue, or AP name.

Component/s	AP
Issue	ER-13721
Description	The U-NII-1 and U-NII-2A bands were unavailable on Wi-Fi 6 (IEEE 802.1ax) configured with the Indonesia country code.

Component/s	AP
Issue	AP-33056
Description	This issue was specific to channel 52 where an AP operating on this channel failed to switch to a new channel when a radar was detected. This problem affected both Wi-Fi 6E and Wi-Fi 7 APs.

Component/s	AP
Issue	AP-31384
Description	The BSS Priority feature did not function correctly with Wi-Fi 6E and Wi-Fi 7 APs. Due to this bug, all clients received the same airtime and performance, regardless of the configured BSS Priority.

Component/s	AP
Issue	AP-36960
Description	Downlink performance was slightly slower when using SoftGRE on the R770 AP.

Component/s	AP
Issue	AP-32006
Description	Apple devices are experiencing random client authentication failures with reason code 3 and unspecified reason when connected to WPA2/WPA3 mixed mode. This behavior is not observed with all Apple devices and does not occur with WPA2-only or WPA3-only configurations.

Component/s	AP
Issue	ER-14009
Description	Resolved an issue where the IP address of the user equipment was inaccurately reported as 0.0.0.0 via SNMP.

Component/s	AP
Issue	AP-34218
Description	Channels 100-140 were blocked for Nepal (NP), and channels 149-165 were blocked for Egypt (EG). This issue was specific to the R670 AP model.

Component/s	AP
Issue	SCG-146540
Description	Clients connected to the non-mesh interface of R560 or R760 Mesh APs experienced performance degradation.

Component/s	AP
Issue	AP-33800
Description	In high-density environments, an AP could store up to 20 neighbor entries in the Neighbor Discovery (NBRD) peer list. This limitation was consistent across all APs and was considered a legacy behavior.

Component/s	AP
Issue	AP-31501
Description	When back-to-back channel or channel bandwidth configurations were applied from the controller web interface, some blacklisted channels, such as 149-161, were enabled on the AP. This issue was specific to APs configured for 80MHz channelization on the upper band of 5GHz.

Component/s	AP
Issue	ER-13703
Description	The channelization of Wi-Fi 7 APs remained fixed at 20 MHz under certain conditions.

Component/s	AP
Issue	AP-33958
Description	Random client roaming failures were observed after roaming to the target AP, as the source AP de-authenticated the clients with <i>reason code 8</i> .

Component/s	AP
Issue	AP-33930
Description	Bidirectional performance with Low Bandwidth Operation (LBO) was slightly lower compared to uplink or downlink performance for AP R670.

Component/s	AP
Issue	AP-33344
Description	Random clients disconnect with reason code 4 (Client inactivity) were observed and were specific to Wi-Fi 7 APs.

Component/s	AP
Issue	AP-32474, AP-32965
Description	The available channel list on the Wi-Fi 6E AP operating in Norway did not include Channel 157.

Component/s	AP
Issue	SCG-157756
Description	Channels 169 and 173 at 20MHz could not be enabled by the user in the controller web user interface for Germany. This issue was specific to the T670 AP.

Component/s	AP
Issue	AP-34197, AP-35311
Description	Resolved an issue where downlink performance with SoftGRE was slightly lower than uplink for APs R670 or T670.

Component/s	AP
Issue	AP-33853, AP-33854
Description	A random target assert was observed when an MLO client disconnected from an OWE WLAN and connected to a new SSID with WPA3-SAE.

Component/s	AP
Issue	AP-34836
Description	Resolved an issue where the AP could go offline during the upgrade process.

Component/s	AP
Issue	AP-33920
Description	During bootup, the AP R670 requested 25.5W of power from the switch, and after bootup, it requested 25W. This change in power consumption could cause a reset in power mode, potentially resulting in connectivity loss for connected clients. This issue occurred randomly and was not limited to any specific switch model.

Component/s	AP
Issue	AP-33873
Description	The crashdump upload command failed to copy both <i>q6dumps</i> files from the <i>/tmp</i> (temporary) folder.

Component/s	AP
Issue	AP-33486
Description	Clients randomly failed to reconnect to the AP when using Multi-Link Operation (MLO) in 5GHz with 6GHz mode.

Component/s	AP
Issue	AP-32876, AP-33066, AP-33108, AP-30095, AP-32161, AP-32939
Description	The issue where channels 149-161 could not be configured arose because the AP CLI indicated that these channels were blocked, while the AP configuration through the controller's Web UI showed support for them. This inconsistency between the CLI and Web UI resulted in the channels being unavailable for configuration despite appearing functional in the UI.

Component/s	AP
Issue	AP-32811
Description	Channel 165 was accessible in the controller web interface when the AP Zone is configured with Israel as the country and Channel Width (CW) as 40/80MHz.

Component/s	AP
Issue	AP-32736
Description	In the controller web interface, there were a minor cosmetic issue where Channels 52–64 was marked as DFS for Hong Kong, but the AP considered them to be non-DFS.

Component/s	AP
Issue	AP-32049
Description	The AP randomly encountered a target assert error under heavy load conditions.

Component/s	AP
Issue	AP-31322
Description	The AP at times encountered a target assert error when collecting Wi-Fi statistics frequently from AP CLI.

Component/s	AP
Issue	AP-19942
Description	When SSID Radio Load (RL) was enabled on R560 or R760 or R770 APs with only one WLAN or Virtual Access Point (VAP) deployed, users at times experienced packet loss and reduced throughput in the uplink direction.

Component/s	AP
Issue	SCG-159402
Description	After executing multiple test cases, no logs were generated through log read.

Component/s	AP
Issue	SCG-159180
Description	Request to Send (RTS) frames will not comply with the BSS Minimum Rate Configuration in WLAN.

Component/s	AP
Issue	SCG-158601
Description	Target assert was observed at WLAN (wlan_buf_internal.c:915), causing the test automation to terminate in 2-5-6/2-5 mode.

Component/s	AP
Issue	AP-34348
Description	The issue of channels 149-161 being blocked for Iceland, specific to APs R670 and T670 configured in 2.4GHz-5GHz mode, is resolved.

Component/s	AP
Issue	AP-34259, AP-34258
Description	Resolved random kernel panics observed in high-density environments with a large number of clients roaming across Wi-Fi 7 APs.

Component/s	AP
Issue	AP-34081, AP-34080, AP-34078
Description	A cosmetic issue where U-NII-3 channels were incorrectly marked as non-DFS for the countries of Argentina (AR), New Zealand (NZ), and Australia (AU) is resolved.

Component/s	AP
Issue	AP-33764
Description	Resolved target assertion issues encountered in a high-scale environment.

Component/s	AP
Issue	AP-33461
Description	The issue involving Multi-Link Operation (MLO) formation inconsistencies with 2.4GHz and 6GHz bands on <i>Google Pixel</i> 8 is resolved.

Component/s	AP
Issue	AP-32729
Description	The kernel panic issue caused during a Dynamic Frequency Selection (DFS) channel change event is resolved.

Component/s	AP
Issue	AP-30718
Description	The log level for the monitor interface has been updated, with the default setting changed from debug to error to improve log management and reduce unnecessary debug output.

Component/s	AP
Issue	AP-31597, AP-30539
Description	The issue with Location Based Service (LBS) functionality on APs T670 and R670 is resolved.

Component/s	AP
Issue	SCG-157670
Description	The issue with Zero Touch Mesh discovery in standalone builds of APs T670 and R670 is resolved.

Component/s	AP
Issue	AP-34022
Description	A target assert was reported on R750 Density APs.

Component/s	AP
Issue	AP-33380
Description	Resolved discrepancies related to Tx Power support for countries in the 2-5-6 GHz mode, specifically affecting AP R670.

Component/s	AP
Issue	SCG-159467
Description	Rate limiting failed to occur when traffic was sent from a wired client connected to a Remote Access Point (RAP) to a wireless client on a Mesh AP. This issue was specific to Wi-Fi 7 AP models.

Component/s	AP
Issue	SCG-146685
Description	When the R770 MLO-2 2.4GHz and 5GHz active link was utilized on both the 2.4GHz and 5GHz bands, the single client Over-The-Air (OTA) downlink throughput on 5GHz was observed to be lower compared to the non-MLO 5GHz configuration.

Component/s	Control Plane
Issue	ER-12836
Description	CLI Guest passes counter did not match the count displayed in the controller web user interface.

Component/s	Control Plane
Issue	ER-13756
Description	Alarm SoftGRE unreachable (614) failed to clear automatically.

Component/s	Control Plane
Issue	ER-14029
Description	The cluster displayed an <i>Overloading</i> status in Switches, which caused the APs to be in a rejected state.

Component/s	Data Plane
Issue	ER-13434
Description	The controller web user interface displayed an inconsistency in the RUCKUS GRE tunnel results.

Component/s	Public API
Issue	ER-13604

Component/s	Public API
Description	The firstIndex field was incorrect in the query for Switch API.

Component/s	RUCKUS AI
Issue	ER-12927
Description	Resolved an issue that caused the Radio Access (RA) / Virtual Radio Unit Emulation (VRUE) test to fail.

Component/s	RUCKUS AI
Issue	ER-13611
Description	Incorrect RADIUS failure incidents were reported on the RUCKUS AI (RAI) cloud service.

Component/s	System
Issue	ER-14025
Description	The controller failed to forward SMTP/email notifications for Switch events.

Component/s	Switches
Issue	ER-14101
Description	Resolved the web user interface configuration error for ICX port configuration.

Component/s	System
Issue	ER-13924
Description	Failed configuration backup was not being deleted.

Component/s	System
Issue	ER-12631
Description	Resolved an issue of falsely triggered PSU related alarms.

Component/s	System
Issue	ER-13403
Description	Saving the variable <i>ueMac</i> for Group DPSK resulted in an error.

Component/s	System
Issue	ER-13404
Description	Controller upgrade failed if the Elasticsearch (ES) stalled in RED health status.

Component/s	System
Issue	ER-13465
Description	Enhanced the controller ChatBot error message to provide clearer information when file uploads to customer support fail due to a Domain Name System (DNS) issue.

Component/s	System
Issue	ER-13615
Description	When changing an OWE-Transition WLAN to another WLAN type with the encryption method set to <i>None</i> the system failed to delete its paired OWE WLAN.

Component/s	System
Issue	ER-13752
Description	The DELETE ServiceTicket option on the API returned an error stating Service Ticket does not exist.

Component/s	System
Issue	ER-13904
Description	A follower node failed to join the cluster due to an excessive number of uploaded firmware files for APs, Data Planes, and Switches.

Component/s	System	
Issue	ER-13930	
Description Resolved an issue with SNMP returning incorrect values.		

Component/s	System	
Issue	ER-13967	
Description	Resolved the misleading error message <i>Service is in maintenance and upgrading</i> , that appeared while ElasticSearch processed internal recovery tasks.	

Component/s	System	
Issue	ER-14096	
Description	The Captive Portal feature displayed text in English instead of German when a guest connected to the Wi-Fi with the German language setting enabled.	

Component/s	System		
Issue	ER-14087		
Description	The controller snapshot log could not be generated or downloaded due to the large size of the collected data.		

Component/s	UI/UX			
Issue	ER-13985			
Description	The error message Ambiguous method overloading for method was displayed when accessing the controller web user interface.			

Component/s	UI/UX		
Issue	SCG-159070		
Description	In the controller web interface, there was a cosmetic issue where the Tx Modulation and Coding Scheme (MCS) and Rx MCS for clients appeared the same for both 2.4GHz and 5GHz links.		

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	vSZ-E	
Latency	60ms	42ms	93ms	229ms	
Jitter	10ms	10ms	10ms	10ms	
Bandwidth	115Mbps	92Mbps	40.25Mbps	23Mbps	



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