Ruckus Wireless™ SmartZone™ 100

Command Line Interface Reference Guide for RuckOS 3.0

Part Number 800-70741-001 Rev A
Published December 2014

www.ruckuswireless.com

Copyright Notice and Proprietary Information

Destination Control Statement

Technical data contained in this publication may be subject to the export control laws of the United States of America. Disclosure to nationals of other countries contrary to United States law is prohibited. It is the reader’s responsibility to determine the applicable regulations and to comply with them.

Disclaimer

THIS DOCUMENTATION AND ALL INFORMATION CONTAINED HEREIN (“MATERIAL”) IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. RUCKUS AND ITS LICENSORS MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THE MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE, OR THAT THE MATERIAL IS ERROR-FREE, ACCURATE OR RELIABLE. RUCKUS RESERVES THE RIGHT TO MAKE CHANGES OR UPDATES TO THE MATERIAL AT ANY TIME.

Limitation of Liability

IN NO EVENT SHALL RUCKUS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR USE, INCURRED BY YOU OR ANY THIRD PARTY, WHETHER IN AN ACTION IN CONTRACT OR TORT, ARISING FROM YOUR ACCESS TO, OR USE OF, THE MATERIAL.

Trademarks

Ruckus Wireless, Ruckus, the bark logo, ZoneFlex, FlexMaster, ZoneDirector, SmartMesh, Channelfly, Smartcell, Dynamic PSK, and Simply Better Wireless are trademarks of Ruckus Wireless, Inc. in the United States and other countries. All other product or company names may be trademarks of their respective owners.

Contents

3 Configuration Commands

4 Configuration Commands

5 Debug Commands

6 Setup Commands

7 Show Commands

8 System Commands

Index

About This Guide

This *SmartZone™ (SZ) 100 Command Line Interface Reference Guide* contains the syntaxes and commands for configuring and managing the SmartZone from the command line interface.

This guide is written for service operators and system administrators who are responsible for managing, configuring, and troubleshooting Ruckus Wireless devices. Consequently, it assumes a basic working knowledge of local area networks, wireless networking, and wireless devices.

NOTE: This guide assumes that the SmartZone has already been installed as described in *Getting Started Guide*.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the Ruckus Wireless Support Web site at https://support.ruckuswireless.com/documents.

Document Conventions

Table 1 and Table 2 list the text and notice conventions that are used throughout this guide.

Table 1. Text conventions

Convention	Description	Example
`monospace`	Represents information as it appears on screen	`[Device name]>`
`monospace bold`	Represents information that you enter	`[Device name]>` **`set ipaddr 10.0.0.12`**
default font bold	Keyboard keys, software buttons, and field names	On the **Start** menu, click **All Programs**.
italics	Screen or page names	Click **Advanced Settings**. The *Advanced Settings* page appears.

Table 2. Notice conventions

Notice Type	Description
NOTE	Information that describes important features or instructions
CAUTION!	Information that alerts you to potential loss of data or potential damage to an application, system, or device
WARNING!	Information that alerts you to potential personal injury

Related Documentation

For a complete list of documents that accompany this release, refer to the Release Notes.

Documentation Feedback

Ruckus Wireless is interested in improving its documentation and welcomes your comments and suggestions. You can email your comments to Ruckus Wireless at:

docs@ruckuswireless.com

When contacting us, please include the following information:

- Document title
- Document part number (on the cover page)
- Page number (if appropriate)

For example:

- Ruckus Wireless SmartZone 100 Administrator Guide (Release 3.0)
- Part number: 800-70747-001
- Page 88

Introduction to the SmartZone Command Line Interface

1

In this chapter:

Overview of the SmartZone Command Line Interface

The SmartZone (SZ-100) command line interface (CLI) is a software tool that enables you to configure and manage SZ-100. Using the command line interface, you can issue commands from an operating system prompt, such as the Microsoft Windows command prompt or a Linux operating system terminal. Each command performs a specific action for configuring device settings or returning information about the status of a specific device feature.

Accessing the Command Line Interface

The SmartZone has a built-in command line interface (CLI) that you can use to configure SmartZone settings and manage access points. This section describes the requirements and the procedure for accessing the SmartZone CLI.

What You Will Need

To access the SmartZone CLI, you will need the following:

1. A computer that you want to designate as administrative computer
2. A network connection to SmartZone (if you want to use an SSH connection) or an RS-232 serial to RJ45 cable (if you want to use a serial connection)
3. An SSH (secure shell) client

Connect the Administrative Computer to SmartZone

Connect the administrative computer to SmartZone either through the network or directly using an RS-232 serial to RJ45 cable.

1. If you want to use an SSH connection, connect the administrative computer to the same subnet or broadcast domain as the Management (Web) interface of the SmartZone.
2. If you want to use a serial connection, make sure that both the administrative computer and the SmartZone are both powered on. And then, do the following:
   - Connect the RJ45 end of the cable to the port labeled |O|O| (console port) on the SmartZone. See Figure 1 for the location of the console port.
   - Connect the RS-232 end of the cable to a COM port on the administrative computer.

Figure 1. Location of console port

Start and Configure the SSH Client

Before starting this procedure, make sure that the SSH client is already installed on the administrative computer.

NOTE: The following procedure describes how to use PuTTY, a free and open source telnet/SSH client, to access the SmartZone CLI. If you are using a different SSH client, the procedure may be slightly different (although the connection settings should be the same). For more information on PuTTY, visit www.putty.org.

See the following sections depending on your connection method:

- Using SSH Connection
- Using Serial Connection

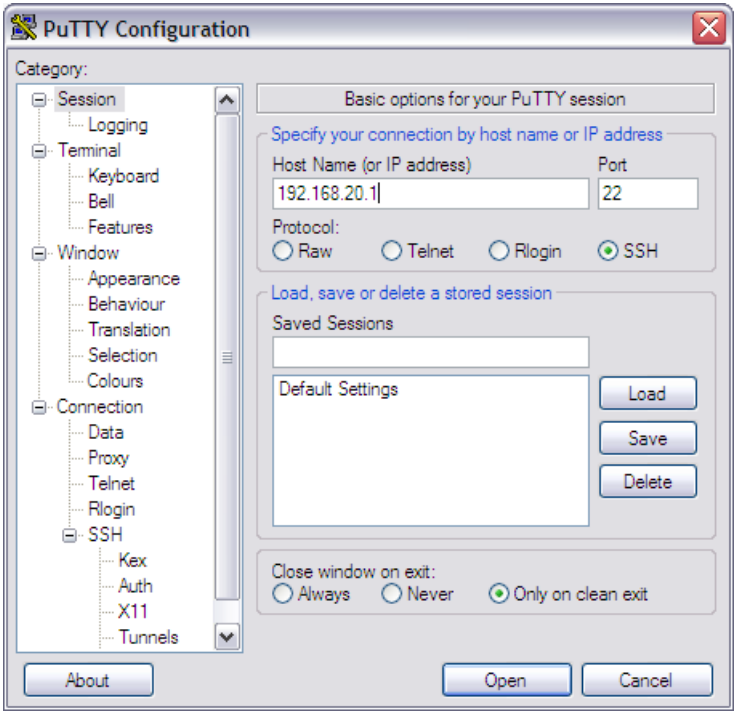
Using SSH Connection

If you have connected the administrative computer to the same subnet or broadcast domain as the Management (Web) interface of the SmartZone, follow these steps to start and configure the SSH client.

1 Start PuTTY. The PuTTY configuration dialog box appears, showing the *Session* screen as seen in Figure 2.

2 In *Connection type*, select SSH.

Figure 2. Selecting SSH as a connection type



3 Enter the IP address of the Management (Web) interface of the SmartZone in the *Host Name* (or IP address) field as seen in Figure 2.

4 Click Open. The PuTTY console appears and displays the login prompt. See Figure 6.

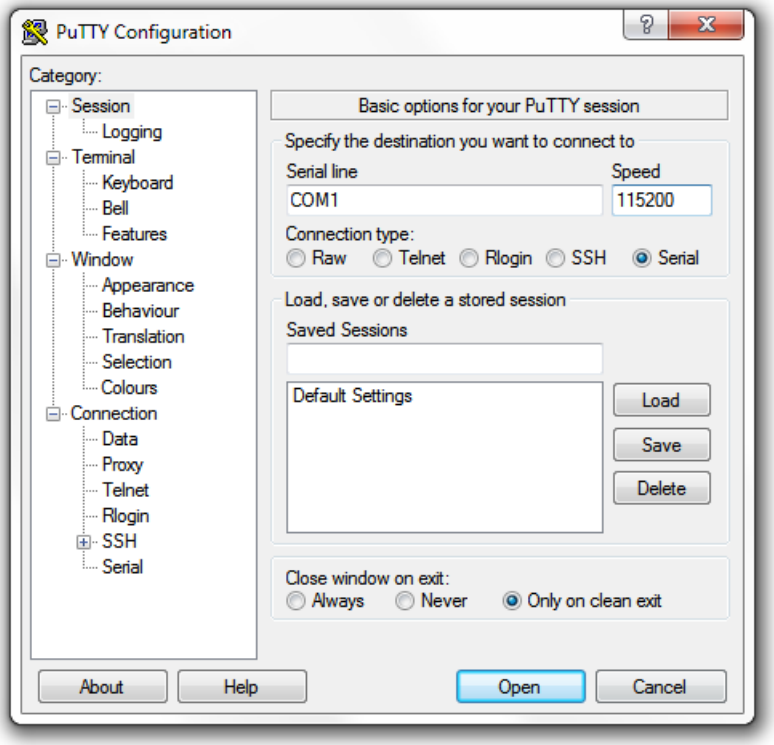
Using Serial Connection

If you have connected the administrative computer to the console port on the SmartZone using an RS-232 serial to RJ45 cable, follow these steps to start and configure the SSH client.

1 Start PuTTY. The PuTTY Configuration dialog box appears, showing the *Session* screen as seen in Figure 3.

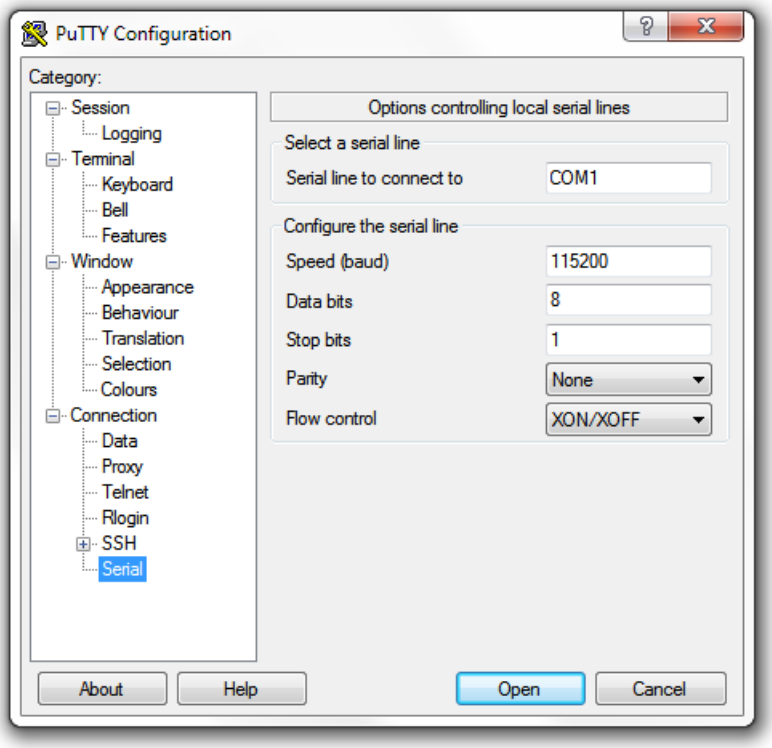
2 In *Connection* type, select Serial if you are connecting via serial cable.

Figure 3. Selecting serial as a connection type



3 Under Category, click Connection > Serial. The serial connection options appear on the right side of the dialog box, displaying PuTTY's default serial connection settings. See Figure 4.

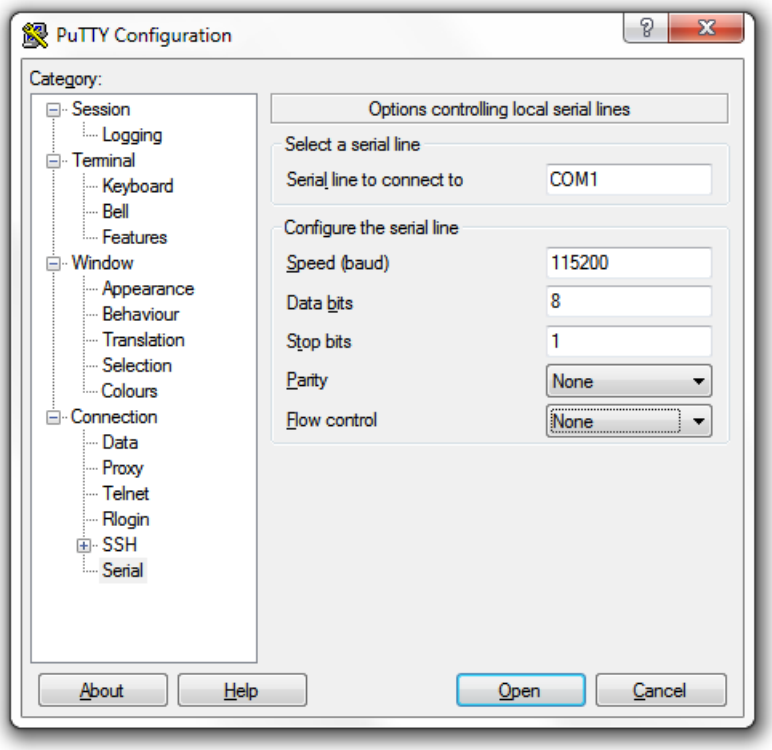
Figure 4. PuTTy's default serial connection setting



4 Configure the serial connection settings as follows. See Figure 5.

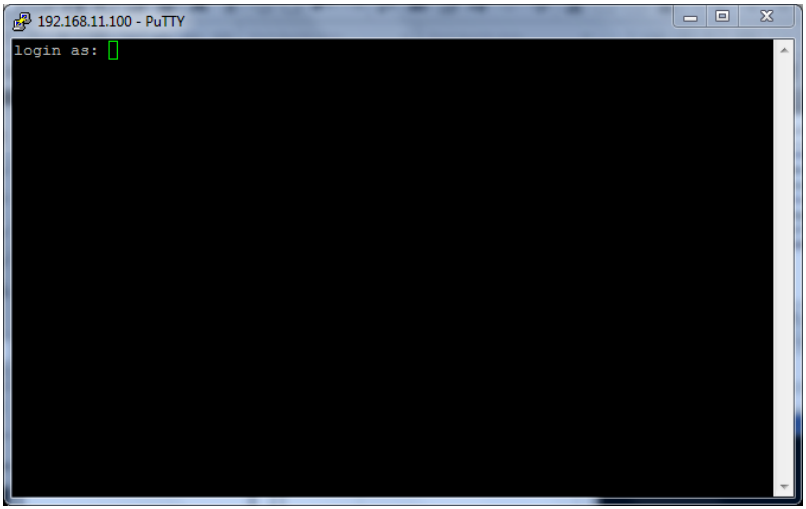
- Serial line to connect to: Type the COM port name to which you connected the RS-232 cable.
- Bits per second: 115200
- Data bits: 8
- Stop bits: 1
- Parity: None
- Flow control: None

Figure 5. PuTTY's serial connection settings for connecting to SmartZone



5 Click Open. The PuTTY console appears and displays the login prompt as seen in Figure 6.

Figure 6. PuTTY console displaying the login prompt



You have completed configuring the SSH client to connect to the SmartZone CLI.

Log On to CLI

The following describes the process for log on to the CLI.

- Log on to the SmartZone using putty/Xssh (any other application) using the user credentials of login name and password as given.

NOTE: You cannot use 'admin' as a password, which is used during the SmartZone installation procedure.

- The Ruckus Wireless SmartZone CLI welcome message appears with the CLI prompt as seen in Figure 7.

Figure 7. Welcome to SmartZone

```
#################################
#   Welcome to SmartZone 100    #
#################################


Please wait. CLI initializing...

Welcome to the Ruckus SmartZone 100 Command Line Interface
Version: 3.0.0.0.530

SZ100-Node1>
SZ100-Node1> en
Password: ********

SZ100-Node1# help
  backup-upgrade                Backup and upgrade system


  config                        Enter configuration mode


  debug                         Debug commands
```

- You are now logged into the SmartZone CLI as a user with limited privileges by looking at the CLI prompt. If you are in limited mode, the prompt appears as **ruckus>** (with a greater than sign). To view a list of commands that are available at the root level or user mode, enter **help** or? as seen in Figure 7 and Figure 8.

NOTE: To change the CLI prompt to a privileged mode, see step 5.

Figure 8. Using Show Commands

```
SZ100-Node1# show
  admin-activity          Show Administrator Activities
  alarm                   Show Alarms
  ap                      Show Access Point (AP) states
  ap-stats                Show Access Point (AP) statistics
  backup                  Show Backup versions
  backup-config           Show Backup configuration versions
  backup-config-state     Show backup configuration state
  backup-network          Show Backup network configuration versions
  backup-state            Show system backup state
  backup-upgrade-state    Show system backup & upgrade state
  client                  Show Current AP Associated Client sessions
  clock                   Show current GMT date time
  cluster                 Show system cluster settings
  cluster-node            Show Cluster node status
  cluster-state           Show system cluster state
  control-plane-stats     Show Control Plane statistics
  cpuinfo                 Show CPU usage status
  dhcp-relay-stats        Show DHCP Relay statistics
  diskinfo                Show Disk usage status
  event                   Show Events
  history                 Show command history
  interface               Show interface runtime status
--More-- [Press ESC or q to escape]
```

- As a user with limited privileges, you can view a history of commands that were previously executed and ping a device as seen in Figure 9.

Figure 9. Using the Ping command

```
SZ100-Node1> en
Password: ********

SZ100-Node1# show version
   Model                          : SZ124
   Serial #                       :   531336000194
   SZ Version                     : 3.0.0.0.530
   Control Plane Software Version : 3.0.0.0.1496
   Data Plane Software Version    : 3.0.0.0.157
   AP Firmware Version            : 3.0.0.0.360

SZ100-Node1# ping 100.31.1.41
PING 100.31.1.41 (100.31.1.41) 56(84) bytes of data.
64 bytes from 100.31.1.41: icmp_seq=1 ttl=64 time=0.014 ms
64 bytes from 100.31.1.41: icmp_seq=2 ttl=64 time=0.017 ms
64 bytes from 100.31.1.41: icmp_seq=3 ttl=64 time=0.017 ms
```

- If you want to run more commands, you need to switch to privileged mode by entering enable and the password at the root prompt as seen in Figure 10. The prompt changes from **ruckus>** to **ruckus#** (with a pound sign) as seen in Figure 10. Refer to enable command for details.

Figure 10. Changing to privileged mode

```
SZ100-Node1>          User mode prompt
SZ100-Node1> en
Password: ********

SZ100-Node1#          Privileged mode prompt
```

Configuration Commands

2

This chapter describes the commands that you can use to configure, enable, and disable various SZ-100 components. The following table lists the commands.

NOTE: For easy access and reading, the configuration chapter has been split into three chapters based on the alphabetical order of commands.

Table 3. Configuration commands

config	admin	config-admin-radius	ap	ap-auto-approve
ap-auto-tagging	ap-cert-check	ap-control-mgmt-tos	ap-group	ap-heartbeat
ap-portal-cert	ap-root-ca	ap-sci	bonjour-gateway	bonjour-policy
changepassword	clock	cluster-ip-list	common-settings	data-plane
device-policy	do	dp-group		

config

To execute commands in configuration mode, you need to change the mode to:

ruckus(config)#

Example

```
SZ100-Node1#
SZ100-Node1# config
SZ100-Node1(config)#
```

admin

To create or update the administrator's profile (including the email address, login ID and password), use the following command:

ruckus(config)# admin <name>

Once you enter the config-admin context, you can configure the rest of the administrator's profile (see example below).

Syntax Description

This command uses the following syntax:

name: Administrator user name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# admin joe
SZ100-Node1(config-admin)# email joe@company.com
SZ100-Node1(config-admin)# password admin!234
SZ100-Node1(config-admin)# phone 22870001
SZ100-Node1(config-admin)# real-name "Joe Admin"
SZ100-Node1(config-admin)# title CTO
SZ100-Node1(config-admin)# radius radius-1
SZ100-Node1(config-admin-radius)# ip 1.1.1.1
SZ100-Node1(config-admin-radius)# port 1813
SZ100-Node1(config-admin-radius)# realm tw1
SZ100-Node1(config-admin-radius)# shared-secret 11
Retype: **
SZ100-Node1(config-admin-radius)# exit
SZ100-Node1(config-admin)# exit
SZ100-Node1(config)#
```

Related Commands

Table 4 lists the related admin configuration commands.

Table 4. Commands related to ruckus(config-admin)

Syntax and Type	Parameters (if any)	Description
ruckus(config-admin)# do Type: Privileged		Executes the do command.
ruckus(config-admin)# email Type: Privileged	<email>	Sets the user's email details.
ruckus(config-admin)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-admin)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-admin)# help Type: Privileged		Displays the help.
ruckus(config-admin)# name Type: Privileged	<name>	Sets the account name.
ruckus(config-admin)# password Type: Privileged	<password>	Sets the password for user.
ruckus(config-admin)# phone Type: Privileged	<phone>	Sets the phone number of the user.
ruckus(config-admin)# real-name Type: Privileged	<name>	Sets the real name.
ruckus(config-admin)# role Type: Privileged	<name>	Sets the user role.
ruckus(config-admin)# title Type: Privileged	<text>	Sets the user's job title.

config-admin-radius

To configure the RADIUS server for administrators use the following command:

ruckus(config)# admin-radius

Syntax Description

This command uses the following syntax:

name: RADIUS server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config-admin)# radius radius-1
SZ100-Node1(config-admin-radius)# ip 1.1.1.1
SZ100-Node1(config-admin-radius)# port 1813
SZ100-Node1(config-admin-radius)# realm tw1
SZ100-Node1(config-admin-radius)# shared-secret 11
Retype: **
SZ100-Node1(config-admin-radius)# exit
```

Related Commands

Table 5 lists the related admin-radius-service configuration commands.

Table 5. Commands related to ruckus(config-radius-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-admin-radius)# backup Type: Privileged	ip <ip>: Sets the IP address of secondary RADIUS server port <port>: Sets the port of secondary RADIUS server shared-secret: Sets the shared secret of secondary RADIUS server request-timeout <seconds>: Sets the request timeout seconds for failover policy max-retry <number>: Sets the maximum number of retries for failover policy retry-prilnvl <minutes>: Sets the reconnect primary minutes for failover policy	Enables backup of RADIUS server.
ruckus(config-admin-radius)# do Type: Privileged		Executes the do command.
ruckus(config-admin-radius)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-admin-radius)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-admin-radius)# help Type: Privileged		Displays the help.

Table 5. Commands related to ruckus(config-radius-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-admin-radius)# ip Type: Privileged	<ip>	Sets the IP addresses of the primary RADIUS server.
ruckus(config-admin-radius)# name Type: Privileged	<name>	Sets the RADIUS server name.
ruckus(config-admin-radius)# port Type: Privileged	<port>	Sets the port addresses of the primary RADIUS server.
ruckus(config-admin-radius)# shared-secret Type: Privileged	<shared-secret> Shared secret between 1 and 255.	Sets the shared secret of the primary RADIUS server.
ruckus(config-admin-radius)# test Type: Privileged	<username> <password>	Tests the RADIUS server based on the user credentials.
ruckus(config-admin-radius)# type Type: Privileged	[radius | tacacs]]	Sets the admin authentication type,

ap

To update the AP configuration, use the following commands:

ruckus(config)# ap <mac>
ruckus(config)# ap pre-prov <import <ftp-url>> <export <ftp-url>>
ruckus(config)# ap swap <import <ftp-url>> <export <ftp-url>>

Syntax Description

This command uses the following syntax:

<mac> lock
- <mac>: AP MAC address
- lock: Lock AP

<mac> pre-prov
- <mac>: AP MAC address
- pre-prov: Update Pre-provision configuration

<mac> swap
- <mac>: AP MAC address
- swap: Update Swap configuration

<mac> ap pre-prov <import <ftp-url>> <export <ftp-url>>
- <mac>: AP MAC address
- pre-prov: Update Pre-provision configuration
- <import>: Import the pre-provision APs from a CSV file using FTP
- <ftp-url>: FTP URL, format: ftp://:@/
- export: Exports the pre-provision APs to a CSV file using FTP

<mac> ap swap <import <ftp-url>> <export <ftp-url>>
- <mac>: AP MAC address
- swap: Update Swap configuration
- <import>: Imports the pre-provision APs from a CSV file using FTP
- <ftp-url>: FTP URL, format: ftp://:@/
- export: Exports the pre-provision APs to a CSV file using FTP

Default

This command has no default settings.

Command Mode

Config

Example

```
ruckus(config)# ap mac
   SZ100-Node1(config)# ap A1:87:45:34:56:FE

ruckus(config)# ap pre-prov <export <ftp-url>>
   SZ100-Node1(config)# ap pre-prov import ftp://
   ruckus:ruckus1!@172.19.7.100/backup/AP_ad8745345

ruckus(config)# ap swap <import <ftp-url>>
   SZ100-Node1(config)# ap swap export ftp://
   ruckus:ruckus1!@172.19.7.100
```

Related Commands

- Table 6 lists the related ap profile configuration commands.
- Table 7 lists the related ap model configuration commands.
- Table 8 lists the related ap model lan1 configuration commands.

Table 6 lists the related ap profile configuration commands.

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# admin Type: Privileged	<logon> <password>	Sets the administrative logon credentials.
ruckus(config-ap)# admin-mode Type: Privileged	<locked> <unlocked>	Sets the administrative mode to either locked or unlocked.
ruckus(config-ap)# ap-logon Type: Privileged	<logon-id>	Sets the access point administration login credentials.
ruckus(config-ap)# ap-model Type: Privileged	<ap-model>	Sets the model specification (overrides the zone configuration).
ruckus(config-ap)# ap-password Type: Privileged	<password>	Sets the access point administrative password.
ruckus(config-ap)# bonjour-gateway Type: Privileged		Enables the bonjour gateway.

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# bonjour-policy Type: Privileged		Enables the bonjour policy.
ruckus(config-ap)# client-admission-control Type: Privileged	2.4g 5g 2.4g minClientCount <minClientCount> Min Client Count (Default: 10) 2.4g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 2.4g minClientThroughput <minClientThroughput>: Min Client Throughput (Default: 0.0Mbps) 5g minClientCount <minClientCount> Min Client Count (Default: 20) 5g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 5g minClientThroughput <minClientThroughput> Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-ap)# do Type: Privileged		Executes the do command.
ruckus(config-ap)# description Type: Privileged	<description>	Sets the model specification (overrides the zone configuration).

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap)# gps Type: Privileged	<latitude> <longitude>	Sets the GPS coordinates to latitude and longitude values.
ruckus(config-ap)# gps-latitude Type: Privileged	<gps-latitude>	Sets the GPS coordination latitude.
ruckus(config-ap)# gps-longitude Type: Privileged	<gps-longitude>	Sets the GPS coordination longitude.
ruckus(config-ap)# help Type: Privileged		Displays the help.
ruckus(config-ap)# hotspot20 Type: Privileged	<name> [swe | cze | spa | eng | chi | ger | fre | jpn | dan | tur | dut] <name>: Name swe: Swedish cze: Czech spa: Spanish eng: English chi: Chinese ger: German fre: French jpn: Japanese dan: Danish tur: Turkish dut: Dutch	Sets the hotspot 2.0 settings.

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# ip Type: Privileged	address <ip> <network-mask> <gateway> name-server <dns-server> secondary	Sets the IP address and primary and secondary DNS servers.
ruckus(config-ap)# location Type: Privileged	<location>	Sets the location.
ruckus(config-ap)# mesh Type: Privileged	[root | disable | auto | mesh]	Sets the mesh mode to either: • root: Root AP • disable: Disable • auto: Auto • mesh: Mesh AP
ruckus(config-ap)# model Type: Privileged		Sets the model specifications. It overrides the zone configuration.
ruckus(config-ap)# name Type: Privileged	<name>	Sets the AP name.
ruckus(config-ap)# no Type: Privileged	admin bonjour-gateway client-admission-control description hotspot20 ip <address> <name-server secondary> location	Disables the configuration. .....continued

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# no Type: Privileged	model override-client-admission-control override-smart-mon radio smart-mon swap-in-ap syslog uplink-ap	Disables the configuration.
ruckus(config-ap)# override-client-admission-control Type: Privileged	<2.4g> <5g>	Overrides the client admission control.
ruckus(config-ap)# override-smart-mon Type: Privileged		Overrides the smart monitor.
ruckus(config-ap)# radio Type: Privileged	2.4g channel <channel> 5g channel <channel> 2.4g channelization <channelization> 5g channelization <channelization> 2.4g tx-power <tx-power> 5g tx-power <tx-power> 2.4g wlan-service 5g wlan-service 2.4g wlan-group <name> 5g wlan-group <name> 2.4g roam [enable | disable] 5g roam [enable | disable]	Sets the radio channels.

Table 6. Commands related to ruckus(config-ap).

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# smart-mon Type: Privileged	interval <between 5-60> threshold <between 1-10>	Enables the smart monitor.
ruckus(config-ap)# swap-in-ap Type: Privileged	<mac>	Sets the AP Mac IP address for swap-in.
ruckus(config-ap)# syslog Type: Privileged	enable <ip> <port> - Enable the syslog server enable <ip> <port> [Local2 | Keep Original | Local1 | Local5 | Local6 | Local0 | Local7 | Local3 | Local4] [Error | Critical | Warning | All | Alert | Notice | Info | Emergency] disable - Disables the syslog server	Sets the syslog server.
ruckus(config-ap)# uplink Type: Privileged	[smart | manual]	Sets the uplink selection to either smart or manual.
ruckus(config-ap)# uplink-ap Type: Privileged		Sets the uplink to manual access point.
ruckus(config-ap)# zone Type: Privileged	<name>	Moves the access point to another zone.

Table 7 lists the related to ap-model configuration commands.

Table 7. Commands related to ruckus(config-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model)# ext-ant Type: Privileged	2.4g <number> - 2.4 with DBI number 2.4gg <number> [3 | 2] - 3/2 antennas 5g <number> - 5g with DBI number 5gg <number> [2 | 3] - 5gg with 2/3 antennas	Enables the external antenna.
ruckus(config-ap-model)# internal-heater Type: Privileged		Enables the internal heater.
ruckus(config-ap-model)# lan1 ruckus(config-ap-model)# lan2 ruckus(config-ap-model)# lan3 ruckus(config-ap-model)# lan4 ruckus(config-ap-model)# lan5 Type: Privileged		Sets the LAN configurations from 1 to 5.
ruckus(config-ap-model)# led Type: Privileged		Enables the status of LEDs.
ruckus(config-ap-model)# led-mode Type: Privileged		Sets the LED mode.
ruckus(config-ap-model)# lldp Type: Privileged		Enables link layer discovery protocol.
ruckus(config-ap-model)# lldp-ad-interval Type: Privileged	<seconds>	Sets the LLDP advertise interval.
ruckus(config-ap-model)# lldp-hold-time Type: Privileged	<seconds>	Sets the LLDP hold time.

Table 7. Commands related to ruckus(config-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model)# lldp-mgmt Type: Privileged		Enables LLDP management IP TLV.
ruckus(config-ap-model)# no Type: Privileged	ext-ant internal-heater lan1 lan2 lan3 lan4 lan5 led lldp lldp-mgmt poe-out-port radio-band	Disables or deletes the settings that have been configured.
ruckus(config-ap-model)# poe-out-port Type: Privileged		Enables the PoE out port.
ruckus(config-ap-model)# radio-band Type: Privileged	${value}	Switches the radio band.
ruckus(config-ap-model)# do Type: Privileged		Executes the do command.
ruckus(config-ap-model)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-model)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-model)# help Type: Privileged		Displays the help.

Table 8 lists the related to ap-model-lan1 configuration commands.

Table 8. Commands related to ruckus(config-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# 8021x Type: Privileged	<802.1x-type>	Sets 802.1x.
ruckus(config-ap-model-lan1)# acct-service Type: Privileged	<acct-service>	Sets the authentication service configurations.
ruckus(config-ap-model-lan1)# auth-service Type: Privileged	<auth-service>	Sets the authentication service configurations.
ruckus(config-ap-model-lan1)# mac-bypass Type: Privileged		Sets the MAC bypass.
ruckus(config-ap-model-lan1)# members Type: Privileged	<members>	Sets the AP model configurations.
ruckus(config-ap-model-lan1)# no Type: User	acct-service mac-bypass	Disables or deletes the settings that have been configured.
ruckus(config-ap-model-lan1)# supplicant Type: Privileged	mac custom <username> <password>	Sets the supplicant.
ruckus(config-ap-model-lan1)# type Type: Privileged	[trunk-port | access-port | general-port]	Sets the port type.
ruckus(config-ap-model-lan1)# vlan-untag-id Type: Privileged	<vlan-untag-id>	Sets the VLAN untag IID.
ruckus(config-ap-model-lan1)# do Type: Privileged		Executes the do command.

Table 8. Commands related to ruckus(config-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-model-lan1)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-model-lan1)# help Type: Privileged		Displays the help.

ap-auto-approve

To enable auto approve, use the following command:

ruckus(config)# ap-auto-approve

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-auto-approve
Successful operation
```

ap-auto-tagging

To setup critical access point auto tagging rules or to enable auto tagging critical access points, use the following command:

ruckus(config)# ap-auto-tagging

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-auto-tagging
SZ100-Node1(config-ap-auto-tagging)#
```

Related Commands

Table 9 lists the related to ap-auto-tagging configuration commands.

Table 9. Commands related to ruckus(config-ap-auto-tagging)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-auto-tagging)# do Type: Privileged		Executes the do command.
ruckus(config-ap-auto-tagging)# enable Type: Privileged		Enables the auto tagging for critical APs.
ruckus(config-ap-auto-tagging)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-auto-tagging)# exit Type: Privileged		Exits from the EXEC.

Table 9. Commands related to ruckus(config-ap-auto-tagging)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-auto-tagging)# help Type: Privileged		Displays the help.
ruckus(config-ap-auto-tagging)# no Type: Privileged	<enable>	Disables the auto tagging for critical APs.
ruckus(config-ap-auto-tagging)# rule Type: Privileged	<daily-threshold> - Traffic bytes exceeds threshold rule	Selects the auto tagging rule. To view this command the ap-auto-tagging should be enabled.
ruckus(config-ap-auto-tagging)# threshold Type: Privileged	<daily->	Disables the auto tagging for critical APs. To view this command the ap-auto-tagging should be enabled.
ruckus(config-ap-auto-tagging)# unit Type: Privileged	[m | g]	Sets the unit to either mega bytes or giga bytes.

ap-cert-check

To enable the access point certificate check, use the following command:

ruckus(config)# ap-cert-check

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-cert-check
Successful operation
```

ap-control-mgmt-tos

To enable the access control and management traffic type of service and values, use the following command:

ruckus(config)# ap-control-mgmt-tos <value>

Syntax Description

This command has no arguments or keywords.

Default

This command uses the following syntax:

value: TOS value

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-control-mgmt-tos 10
```

ap-group

To create or update the AP group configuration, use the following command:

ruckus(config)# ap-group <name>

Syntax Description

This command has no arguments or keywords.

Default

This command uses the following syntax:

name: Name of the AP group

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-control-mgmt-tos 10
```

Related Commands

- Table 10 lists the related to ap-group configuration commands.
- Table 11 lists the related ap-group-lldp configuration commands.

- Table 12 lists the related ap-group-port-setting configuration commands.
- Table 13 lists the commands related ap-model configuration commands.
- Table 14 lists the related ap-model-lan1 configuration commands.

Table 10 lists the related to ap-group configuration commands.

Table 10. Commands related to ruckus(config-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group)# channel Type: Privileged	2.4g ${value} 5g indoor ${value} 5g outdoor ${value}	Sets the channel.
ruckus(config-ap-group)# channelization Type: Privileged	2.4g [20 | 40] 5g [40 | 20]	Sets the channelization.
ruckus(config-ap-group)# client-admission-control Type: Privileged	2.4g 5g 2.4g minClientCount <minClientCount> Min Client Count (Default: 10) 2.4g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 2.4g minClientThroughput <minClientThroughput>: Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control. .....continued

Table 10. Commands related to ruckus(config-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group)# client-admission-control Type: Privileged	5g minClientCount <minClientCount> Min Client Count (Default: 20) 5g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 5g minClientThroughput <minClientThroughput> Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-ap-group)# description Type: Privileged	<text>	Sets the description.
ruckus(config-ap-group)# do Type: Privileged		Sets the do command
ruckus(config-ap-group)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-ap-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-group)# external-antenna Type: Privileged	<ap-model> 5g [disable | enable] <ap-model> 5g gain <gain> <ap-model> 2.4g gain <gain> <ap-model> 2.4g [enable | disable] <ap-model> 2.4g [3-antennas | 2-antennas] <ap-model> 5g [3-antennas | 2-antennas]	Sets the external antenna for specific AP model.

Table 10. Commands related to ruckus(config-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group)# help Type: Privileged		Displays the help message.
ruckus(config-ap-group)# internal-heater Type: Privileged	<ap-model> [enable | disable]	Sets the internal heater for specific AP model.
ruckus(config-ap-group)# lbs Type: Privileged		Enables the location based service.
ruckus(config-ap-group)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-ap-group)# led-mode Type: Privileged	<ap-model>	Sets the LED mode for specific AP model.
ruckus(config-ap-group)# lldp Type: Privileged	<ap-model> [enable | disable]	Sets the LLDP for a specific AP model.
ruckus(config-ap-group)# member Type: Privileged	add <ap-mac> move-to <apgroup-name> <ap-mac> remove <mac>	Sets the AP group member. It adds a new access point to current AP group. The AP Mac address removes the access point from the current AP group and moves it to other AP group.
ruckus(config-ap-group)# no Type: Privileged	channel 2.4g channel 5g indoor channel 5g outdoor channelization 2.4g channelization 5g client-admission-control	Disables / deletes the configuration settings. .....continued

Table 10. Commands related to ruckus(config-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group)# no Type: Privileged	description external-antenna <ap-model> 5g external-antenna <ap-model> 2.4g external-antenna ${model} internal-heater lbs led-mode lldp override-client-admission-control override-lbs poe-out port-setting radio-band status-leds tx-power 2.4g tx-power 5g wlan-group 2.4g wlan-group 5g	Disables / deletes the configuration settings.
ruckus(config-ap-group)# override-client-admission-control Type: Privileged	2.4g 5g	Overrides the client admission control settings.
ruckus(config-ap-group)# override-lbs Type: Privileged		Overrides the location based service to zone settings.
ruckus(config-ap-group)# poe-out Type: Privileged	<ap-model> [enable | disable]	Sets the PoE out port for a specific AP model.

Table 10. Commands related to ruckus(config-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group)# port-setting Type: Privileged	<ap-model>	Sets the port settings for specific AP model.
ruckus(config-ap-group)# radio-band Type: Privileged	<ap-model> [2.4g | 5g]	Switches the radio band for a specific AP model.
ruckus(config-ap-group)# status-leds Type: Privileged	<ap-model> [enable | disable]	Sets the status LED for specific AP model.
ruckus(config-ap-group)# tx-power Type: Privileged	2.4g ${value} 5g ${value}	Sets the TX power adjustment.
ruckus(config-ap-group)# wlan-group Type: Privileged	2.4g 5g	Sets the WLAN group configurations.

Table 11 lists the related ap-group-lldp configuration commands.

Table 11. Commands related to ruckus(config-ap-group-lldp)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group-lldp)# lldp-ad-interval Type: Privileged	<seconds>	Sets the LLDP advertise interval in seconds from the range 1 to 300.
ruckus(config-ap-group-lldp)# lldp-hold-time Type: Privileged	<seconds>	Sets the LLDP hold time in seconds from the range 60 to 1200.
ruckus(config-ap-group-lldp)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.

Table 12 lists the related ap-group-port-setting configuration commands.

Table 12. Commands related to ruckus(config-ap-group-port)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group-port-setting)# do Type: Privileged		Executes the do command.
ruckus(config-ap-group-port-setting)# dot1x Type: Privileged	authsvr [<authenticator server name>] accsvr <name> mac-auth-bypass [true | false] supplicant user-name [<user name> password <password> supplicant mac	Sets the 802.1x role.
ruckus(config-zone-ap-group-port-setting)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-group-port-setting)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-group-port-setting)# help Type: Privileged		Displays the help.

Table 12. Commands related to ruckus(config-ap-group-port)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-port-setting)# lan Type: Privileged	<port> <port> uplink [general | access | trunk] <port> untag <vlan> <port> member <vlan-members> <port> dot1x [auth-mac-based | disabled | auth-port-based | supplicant]	Enables or disable specific port.
ruckus(config-zone-ap-group-port-setting)# no Type: Privileged	dot1x accsvr lan <port>	Disables or deletes the configuration settings.

Table 13 lists the commands related ap-model configuration commands.

Table 13. Commands related to (config-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model)# do Type: Privileged		Executes the do command.
ruckus(config-zone-ap-model)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-model)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-model)# ext-ant Type: Privileged	2.4g <number> 2.4gg <number> [3 | 2] 5g <number> 5gg <number> [2 | 3]	Sets the external antenna.

Table 13. Commands related to (config-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-model)# help Type: Privileged		Displays the help.
ruckus(config-ap-model)# internal-heater Type: Privileged		Enables international heater.
ruckus(config-ap-model)# lan1 ruckus(config-ap-model)# lan2 ruckus(config-ap-model)# lan3 ruckus(config-ap-model)# lan4 ruckus(config-ap-model)# lan5 Type: Privileged		Sets the LAN configurations from 1 to 5.
ruckus(config-ap-model)# led Type: Privileged		Enables the status of led.
ruckus(config-ap-model)# led-mode Type: Privileged		Sets the led mode description.
ruckus(config-ap-model)# lldp Type: Privileged		Enables the Link Layer Discovery Protocol (LLDP).
ruckus(config-ap-model)# lldp-ad-interval Type: Privileged	<seconds>	Sets the LLDP advertise interval.
ruckus(config-ap-model)# lldp-hold-time Type: Privileged	<seconds>	Sets the LLDP hold time.
ruckus(config-ap-model)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.

Table 13. Commands related to (config-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model)# no Type: Privileged	ext-ant internal-heater lan1 lan2 lan3 lan4 lan5 led lldp lldp-mgmt poe-out-port radio-band	Disables or deletes the settings that have been configured.
ruckus(config-ap-model)# poe-out-port Type: Privileged		Enables the PoE out port.
ruckus(config-ap-model)# radio-band Type: Privileged	${value}	Switches the radio band.

Table 14 lists the related ap-model-lan1 configuration commands.

Table 14. Commands related to ruckus(config-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# 8021x Type: Privileged	<8021x-type>	Sets the 802.1x.
ruckus(config-ap-model-lan1)# acct-service Type: Privileged	<acct-service>	Sets the accounting service configurations.
ruckus(config-ap-model-lan1)# auth-service Type: Privileged	<auth-service>	Sets the authentication service configurations.

Table 14. Commands related to ruckus(config-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# do Type: Privileged		Executes the do command.
ruckus(config-ap-model-lan1)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-model-lan1)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-model-lan1)# help Type: Privileged		Displays the help.
ruckus(config-ap-model-lan1)# mac-bypass Type: Privileged		Sets the MAC authentication bypass.
ruckus(config-ap-model-lan1)# members Type: Privileged	<members>	Sets the members.
ruckus(config-ap-model-lan1)# no Type: Privileged	acct-service mac-bypass	Disables or deletes the settings that have been configured.
ruckus(config-ap-model-lan1)# supplicant Type: Privileged	mac custom <username> <password>	Sets the supplicant.
ruckus(config-ap-model-lan1)# type Type: Privileged	[trunk-port | access-port | general-port]	Sets the port type.
ruckus(config-ap-model-lan1)# vlan-untag-id Type: Privileged	<vlan-untag-id>	Sets the VLAN untag ID.

ap-heartbeat

To setup the access point heartbeat, use the following command:

ruckus(config)# ap-heartbeat <seconds>

Syntax Description

This command uses the following syntax:

seconds: Interval in seconds, which the AP sends the heartbeat to the SZ such as: 30, 60, 150 and 300

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-heartbeat 30
```

ap-portal-cert

To update the AP portal certificate configuration, use the following command:

ruckus(config)# ap-portal-cert

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-portal-cert
SZ100-Node1(config-ap-portal-cert)#
```

Related Commands

- Table 15 lists the related to ap-portal-cert configuration commands.
- Table 16 lists the related to ap-portal-cert-generate-csr configuration commands.

Table 15 lists the related to ap-portal-cert configuration commands.

Table 15. Commands related to ruckus(config-ap-portal-cert)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-portal-cert)# do Type: Privileged		Executes the do command.
ruckus(config-ap-portal-cert)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-portal-cert)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-portal-cert)# generate-csr Type: Privileged	<ftp-url> FTP URL, format: ftp:/<username>:<password>@<ftp-host>[/<dir-path>]	Generates the certificate signing request.
ruckus(config-ap-portal-cert)# help Type: Privileged		Displays the help.
ruckus(config-ap-portal-cert)# upload-cert Type: Privileged	<ftp-url> FTP URL, format: ftp:/<username>:<password>@<ftp-host>[/<dir-path>]	Uploads the certificate.

Table 16 lists the related to ap-portal-cert-generate-csr configuration commands.

Table 16. Commands related to ruckus(config-ap-portal-cert-generate-csr)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-portal-cert-generate-csr)# city Type: Privileged	<city>	Sets the city name.
ruckus(config-ap-portal-cert-generate-csr)# common-name Type: Privileged	<name>	Sets the domain name.
ruckus(config-ap-portal-cert-generate-csr)# country Type: Privileged	<country>	Sets the county.
ruckus(config-ap-portal-cert-generate-csr)# email Type: Privileged	<email>	Sets the email address.
ruckus(config-ap-portal-cert-generate-csr)# organization Type: Privileged	<organization>	Sets the organization name.
ruckus(config-ap-portal-cert-generate-csr)# state Type: Privileged	<state>	Sets the state name.
ruckus(config-ap-portal-cert-generate-csr)# unit Type: Privileged	<unit>	Sets the unit name.

ap-root-ca

To update the AP root CA, use the following command:

ruckus(config)# ap-root-ca <ftp-url>

Syntax Description

This command uses the following syntax:

ftp-url: AP Root CA file, FTP URL Format: ftp://<username>:<password>@<ip>/<file-path>)

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-root-ca ftp://
mahan:ruckus1!@172.19.7.100/backup/AP_ad87453456fe.csv
```

ap-sci

To enable the access point SCI, use the following command:

ruckus(config)# ap-sci enable

Syntax Description

This command uses the following syntax:

enable: Enables the AP SCI.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ap-sci enable
```

bonjour-gateway

To enable the bonjour-gateway, use the following command:

ruckus(config)# bonjour-gateway

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# bonjour-gateway
Bonjour service is enabled
```

bonjour-policy

To create or update the bonjour policy, use the following command:

ruckus(config)# bonjour-policy

Syntax Description

This command uses the following syntax:

name: Name of the bonjour-policy

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# bonjour-policy
```

Related Commands

Table 17 lists the related bonjour-policy configuration commands.

Table 17. Commands related to ruckus(config-bonjour-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bonjour-policy)# description Type: Privileged	<text>	Sets the description.
ruckus(config-bonjour-policy)# do Type: Privileged		Executes the do command.
ruckus(config-bonjour-policy)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-bonjour-policy)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-bonjour-policy)# help Type: Privileged		Displays the help.
ruckus(config-bonjour-policy)# name Type: Privileged	<name>	Sets the bonjour policy name.
ruckus(config-bonjour-policy)# no rule Type: Privileged	<priority>	Deletes the rules based on the rule priority.
ruckus(config-bonjour-policy)# rule Type: Privileged	<priority>	Sets the bonjour policy set of rules based on the rule priority.

Table 18 lists the related bonjour-policy-rule configuration commands.

Table 18. Commands related to ruckus(config-bonjour-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bonjour-policy-rule)# bridge-service Type: Privileged	airdisk airplay airport-management airprint airtunes apple-file-sharing apple-mobile-devices (Allows sync with iTunes over Wi-Fi) appletv icloud-sync itunes-remote itunes-sharing open-directory-master optical-disk-sharing other screen-sharing secure-file-sharing secure-shell workgroup-manager www-http www-https xgrid	Sets the bridge service.
ruckus(config-bonjour-policy-rule)# do Type: Privileged		Executes the do command.
ruckus(config-bonjour-policy-rule)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

Table 18. Commands related to ruckus(config-bonjour-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bonjour-policy-rule)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-bonjour-policy-rule)# from-vlan Type: Privileged	<int>	Sets the from VLAN.
ruckus(config-bonjour-policy-rule)# help Type: Privileged		Exits from the EXEC.
ruckus(config-bonjour-policy-rule)# notes Type: Privileged	<text>	Sets the notes.
ruckus(config-bonjour-policy-rule)# protocol Type: Privileged		Sets the bridge service when it is 'other'.
ruckus(config-bonjour-policy-rule)# to-vlan Type: Privileged	<int>	Sets the VLAN.

changepassword

To change the administrative password, use the following command:

ruckus(config)# changepassword <old password> <new password>

Syntax Description

This command uses the following syntax:

old password: Existing password

new password: Changed password.

The password must contain at least eight characters with at least one number, one letter, and one special character (~ ! @ # $ % ^ & * ( ) - _ = + [ ] { } \ | ; : ' " , . < > / ?) except ` or $(.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# changepassword
Old Password: ruckus1!
New Password:ruckus2!
```

clock

To update the system clock or the timezone configuration, use the following command:

ruckus(config)# clock timezone <timezone>

Syntax Description

This command uses the following syntax:

timezone: Sets the system clock timezone

<timezone>: Timezone name of the domain

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# clock timezone Africa/Nairobi
```

cluster-ip-list

To update the node IP address mapping list of the cluster configuration, use the following command:

ruckus(config)# cluster-ip-list <ip-mappings>

Syntax Description

This command uses the following syntax:

ip-mappings: Node IP mapping list, which is space separated.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# cluster-ip-list <old-ip>:<new-ip> <old-
ip2>:<new-ip2>
SZ100-Node1(config)# cluster-ip-list 172.19.18.96:172.19.13.56
172.19.15.67:172.19.10.07
```

common-settings

To update the common settings, use the following command:

ruckus(config)# common-settings

Syntax Description

This command uses the following syntax:

ip-mappings: Node IP mapping list, which is space separated.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# common-settings
SZ100-Node1(config-common-settings)#
```

Related Commands

- Table 19 lists the related common-settings configuration commands.
- Table 20 lists the related common-settings-aaa configuration commands.
- Table 21 lists the related common-settings-ap-group configuration commands.
- Table 22 lists the related ap-group-lldp configuration commands.
- Table 23 lists the related ap-group-port-setting configuration commands.
- Table 24 lists the commands related config-common-settings-ap-model configuration commands.
- Table 25 lists the related common-settings-ap-model-lan1 configuration commands.
- Table 26 lists the commands related config-common-settings-ap-tunnel-settings configuration commands.
- Table 27 lists the related common-settings-guest-access configuration commands.
- Table 28 lists the related common-settings-hotspot configuration commands.
- Table 29 lists the related common-settings-web-authentication configuration commands.
- Table 30 lists the related common-settings-wlan configuration commands.
- Table 31 lists the related common-settings-wlan-group configuration commands.
- Table 32 lists the related common-settings-wlan-scheduler configuration commands.

Table 19 lists the related common-settings configuration commands.

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# adj-threshold Type: Privileged	2.4g ${value} 5g ${value} Value is minimum = 1 and maximum = 100	Sets the adjacent radio threshold of the client load balancing.
ruckus(config-common-settings)# ap-firmware Type: Privileged	<ap-firmware>	Sets the AP firmware version.
ruckus(config-common-settings)# ap-logon Type: Privileged	<logon-id>	Sets the access point administration login credentials.
ruckus(config-common-settings)# ap-model Type: Privileged	<ap-model>	Sets the model specification.
ruckus(config-common-settings)# ap-password Type: Privileged	<password>	Sets the access point administrative password.
ruckus(config-common-settings)# ap-reboot-timeout Type: Privileged	default-gateway <hours>: Sets the default gateway timeout in hours. control-gateway [<hours and minutes>] Sets the control gateway timeout in hours and minutes.	Sets the AP reboot timeout.
ruckus(config-common-settings)# ap-tunnel-settings Type: Privileged		Sets the access point tunnel settings.
ruckus(config-common-settings)# background-scan Type: Privileged	2.4g <seconds> 5g <seconds>	Sets the background scanning.

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# band-balancing Type: Privileged	2.4g <int> 2.4G band <int>: Percentage of clients on 2.4G band	Sets the band balance.
ruckus(config-common-settings)# channel Type: Privileged	2.4g ${value} 5g indoor ${value} 5g outdoor ${value}	Sets the channel.
ruckus(config-common-settings)# channelization Type: Privileged	2.4g [20 | 40] 5g [40 | 20]	Sets the channelization.
ruckus(config-common-settings)# client-admission-control Type: Privileged	2.4g 5g 2.4g minClientCount <minClientCount> Min Client Count (Default: 10) 2.4g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 2.4g minClientThroughput <minClientThroughput>: Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control. .....continued

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# client-admission-control Type: Privileged	5g minClientCount <minClientCount> Min Client Count (Default: 20) 5g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 5g minClientThroughput <minClientThroughput> Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-common-settings)# country-code Type: Privileged	<country-code>	Sets the country code.
ruckus(config-common-settings)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-common-settings)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings)# headroom Type: Privileged	2.4g <client> 5g: 5 GHz radio	Sets the headroom (number of client) of the client load balancing.
ruckus(config-common-settings)# help Type: Privileged		Displays the help.
ruckus(config-common-settings)# indoor-channel Type: Privileged		Enables the indoor channels.

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# lbs Type: Privileged		Enables the location based service.
ruckus(config-common-settings)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-common-settings)# load-balancing Type: Privileged	2.4g 5g	Sets the client load balancing.
ruckus(config-common-settings)# mesh Type: Privileged		Enables mesh networking.
ruckus(config-common-settings)# mesh-name Type: Privileged	<name>	Sets the mesh name (ESSID).
ruckus(config-common-settings)# mesh-passphrase Type: Privileged	<passphrase>	Sets the mesh passphrase.
ruckus(config-common-settings)# mesh-uplink-selection Type: Privileged	[dynamic | static] dynamic: Use dynamic link metrics for automatic mesh uplink selection. static: Use static link metrics for automatic mesh uplink selection.	Sets the mesh uplink auto selection.

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# no Type: Privileged	background-scan band-balancing client-admission-control indoor-channel lbs load-balancing mesh roam smart-mon smart-roam-disconnect-event syslog-enabled timezone-dst	Disables or deletes various sub command.
ruckus(config-common-settings)# roam Type: Privileged	2.4g 5g	Sets the smart roam.
ruckus(config-common-settings)# rouge-ap-detection Type: Privileged	[disable | enable] - Disables or enables rogue access points report-all [disable | enable] - Enables or disables all rogue devices report-only-malicious [enable | disable] - Enables or disables only malicious rogue device types report-ssid-spoofing [disable | enable] - Enables or disables malicious rogue devices which have SSID spoofing	Sets the report rouge access point. .....continued

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# rouge-ap-detection Type: Privileged	report-same-network [enable | disable] - Enables or disables malicious rogue devices which have same network report-mac-spoofing [disable | enable] - Enables or disables malicious rogue devices which have MAC IP address spoofing protect-from-malicious [disable | enable] - Enables or disables the network from malicious rogue access points	Sets the report rouge access point.
ruckus(config-common-settings)# smart-mon Type: Privileged	interval <value> threshold <value>	Sets the smart monitor interval.
ruckus(config-common-settings)# smart-roam-disconnect-event Type: Privileged		Enables smart roam disconnect event.
ruckus(config-common-settings)# syslog-enabled Type: Privileged		Enables the external syslog server for APs for the specified zone.
ruckus(config-common-settings)# syslog-facility Type: Privileged	[Local6 | Keep Original | Local0 | Local5 | Local7 | Local1 | Local4 | Local3 | Local2]	Sets the syslog server facility,
ruckus(config-common-settings)# syslog-ip Type: Privileged	<ip>	Sets the IP address for the syslog server.
ruckus(config-common-settings)# syslog-port Type: Privileged	<port>	Sets the port number for the syslog server.

Table 19. Commands related to ruckus(config-common-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings)# syslog-priority Type: Privileged	[Alert | Info | Critical | Warning | Notice | Emergency | All | Error]	Sets the syslog server priority.
ruckus(config-common-settings))# timezone Type: Privileged	System - Follows the SZ time zone setting System [<time zone>] Select the time zone from system database User-defined [<time zone abbr.>] User defined time zone Time zone abbreviation (example: GMT, CST, EST)	Sets the timezone for zone.
ruckus(config-common-settings))# timezone-dst Type: Privileged	[<Start | End>] <order> <weekday> <month> <hour>	Sets the user defined timezone for daylight savings.
ruckus(config-common-settings)# timezone-gmt-offset Type: Privileged	[<hour | hour: minute>] For example, 8, -7:45	Sets the user defined timezone for GMT offset.
ruckus(config-common-settings)# tx-power Type: Privileged	2.4g ${value} 5g ${value} Value is minimum = 1 and maximum = 100	Sets the TX power adjustment.
ruckus(config-common-settings)# weak-bypass Type: Privileged	2.4g ${value} 5g ${value} Value is minimum = 1 and maximum = 100	Sets the weak bypass threshold of the client load balancing.

Table 20 lists the related common-settings-aaa configuration commands.

Table 20. Commands related ruckus(config-common-settings-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-settings-aaa)# admin-domain Type: Privileged		Enables the admin domain name.
ruckus(config-settings-aaa)# admin-domain-name Type: Privileged	<admin-domain>	Creates or updates the admin domain name.
ruckus(config-settings-aaa)# admin-password Type: Privileged	<admin-password>	Creates or updates the admin password.
ruckus(config-settings-aaa)# backup Type: Privileged	ip <ip>: Sets the IP address of secondary RADIUS server. port <port>: Sets the port of secondary RADIUS server. shared-secret: Sets the shared secret of secondary RADIUS server.	Enables backup of RADIUS support and set related settings.
ruckus(config-settings-aaa)# base-domain Type: Privileged	<base-domain>	Set the base domain.
ruckus(config-settings-aaa)# description Type: Privileged	<description>	Sets the description.
ruckus(config-settings-aaa)# do Type: Privileged		Executes the do command.
ruckus(config-settings-aaa)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

Table 20. Commands related ruckus(config-common-settings-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-settings-aaa)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-settings-aaa)# help Type: Privileged		Displays the help.
ruckus(config-settings-aaa)# global-catalog Type: Privileged		Enables the global catalog support.
ruckus(config-settings-aaa)# ip Type: Privileged	<ip>	Sets the IP addresses of the primary RADIUS server.
ruckus(config-settings-aaa)# key-attribute Type: Privileged	<key-attribute>	Sets the key attributes for the primary RADIUS server.
ruckus(config-settings-aaa)# no Type: Privileged	backup global-catalog no-response-fail	Disables or deletes configuration settings.
ruckus(config-settings-aaa)# no-response-fail Type: Privileged		Enables no response fail.
ruckus(config-settings-aaa)# password Type: Privileged	<password>	Sets the password for the primary RADIUS server.
ruckus(config-settings-aaa)# port Type: Privileged	<port>	Sets the port number of the primary RADIUS server.
ruckus(config-settings-aaa)# response-window Type: Privileged	<seconds>	Sets the response window.
ruckus(config-settings-aaa)# revive-interval Type: Privileged	<seconds>	Sets the revive interval.

Table 20. Commands related ruckus(config-common-settings-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-settings-aaa)# search-filter Type: Privileged	<search-filter>	Sets the search filter.
ruckus (config-settings-aaa)# shared-secret Type: Privileged	<shared-secret>	Sets the shared secret of the primary RADIUS server.
ruckus(config-settings-aaa)# test Type: Privileged	<username> <password>	Tests the connectivity of the AAA server.
ruckus(config-settings-aaa)# type Type: Privileged	[radius | radius-acct | LDAP | AD] radius: RADIUS type radius-acct: RADIUS accounting type LDAP: LDAP AD: Active Directory	Sets the RADIUS type.
ruckus(config-settings-aaa)# windows-domain Type: Privileged	<windows-domain>	Sets the windows domain name.
ruckus(config-settings-aaa)# zombie-period Type: Privileged	<seconds>	Sets the zombie period.

Table 21 lists the related common-settings-ap-group configuration commands.

Table 21. Commands related to ruckus(config-common-settings-ap-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# channel Type: Privileged	2.4g ${value} 5g indoor ${value} 5g outdoor ${value}	Sets the channel.
ruckus(config-common-settings-ap-group)# channelization Type: Privileged	2.4g [20 | 40] 5g [40 | 20]	Sets the channelization.
ruckus(config-common-settings-ap-group)# client-admission-control Type: Privileged	2.4g 5g 2.4g minClientCount <minClientCount> Min Client Count (Default: 10) 2.4g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 2.4gminClientThroughput <minClientThroughput>: Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control. .....continued

Table 21. Commands related to ruckus(config-common-settings-ap-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# client-admission-control Type: Privileged	5g minClientCount <minClientCount> Min Client Count (Default: 20) 5g maxRadioLoad <maxRadioLoad> Max Radio Load (Default: 75%) 5g minClientThroughput <minClientThroughput> Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-common-settings-ap-group)# description Type: Privileged	<text>	Sets the description.
ruckus(config-zone-ap-group)# do Type: Privileged		Executes the do command.
ruckus(config-zone-ap-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-group)# help Type: Privileged		Displays the help.

Table 21. Commands related to ruckus(config-common-settings-ap-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# external-antenna Type: Privileged	<ap-model> 5g [disable | enable] <ap-model> 5g gain <gain> <ap-model> 5g [3-antennas | 2-antennas] <ap-model> 2.4g gain <gain> <ap-model> 2.4g [enable | disable] <ap-model> 2.4g [2-antennas | 3-antennas]	Sets the external antenna for specific AP model.
ruckus(config-common-settings-ap-group)# internal-heater Type: Privileged	<ap-model> [enable | disable]	Sets the internal heater for specific AP model.
ruckus(config-common-settings-ap-group)# lbs Type: Privileged		Enables the location based service.
ruckus(config-common-settings-ap-group)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-common-settings-ap-group)# led-mode Type: Privileged	<ap-model>	Sets the LED mode for specific AP model.
ruckus(config-common-settings-ap-group)# lldp Type: Privileged	<ap-model> [enable | disable]	Sets the LLDP for a specific AP model.

Table 21. Commands related to ruckus(config-common-settings-ap-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# member Type: Privileged	add <ap-mac> move-to <name> <mac> remove <mac>	Sets the AP group member. It adds a new access point to current AP group. The AP Mac address removes the access point from the current AP group and moves it to other AP group.
ruckus(config-common-settings-ap-group)# no Type: Privileged	channel 2.4g channel 5g indoor channel 5g outdoor channelization 2.4g channelization 5g client-admission-control description external-antenna <ap-model> 5g external-antenna <ap-model> 2.4g internal heater	Disables / deletes the configuration settings. .....continued

Table 21. Commands related to ruckus(config-common-settings-ap-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# no Type: Privileged	lbs led-mode lldp override-client-admission-control override-lbs poe-out poe-port port-setting radio-band status-led tx-power 2.4g tx-power 5g wlan-group 2.4g wlan-group 5g	Disables / deletes the configuration settings.
ruckus(config-common-settings-ap-group)# override-client-admission-control Type: Privileged	2.4g 5g	Overrides the client admission control settings.
ruckus(config-common-settings-ap-group)# override-lbs Type: Privileged		Overrides the location based service to zone settings.
ruckus(config-common-settings-ap-group)# poe-out Type: Privileged	<ap-model> [enable | disable]	Sets the PoE out port for a specific AP model.
ruckus(config-common-settings-ap-group)# port-setting Type: Privileged	<ap-model>	Sets the port settings for specific AP model.
ruckus(config-common-settings-ap-group)# radio-band Type: Privileged	${value}	Switches the radio band for a specific AP model.

Table 21. Commands related to ruckus(config-common-settings-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-group)# status-leds Type: Privileged	<ap-model> [enable | disable]	Sets the status LED for specific AP model.
ruckus(config-common-settings-ap-group)# tx-power Type: Privileged	2.4g ${value} 5g ${value}	Sets the TX power adjustment.
ruckus(config-common-settings-ap-group)# wlan-group Type: Privileged	2.4g 5g	Sets the WLAN group configurations.

Table 22 lists the related ap-group-lldp configuration commands.

Table 22. Commands related to ruckus(config-ap-group-lldp)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group-lldp)# lldp-ad-interval Type: Privileged	<seconds>	Sets the LLDP advertise interval in seconds from the range 1 to 300.
ruckus(config-ap-group-lldp)# lldp-hold-time Type: Privileged	<seconds>	Sets the LLDP hold time in seconds from the range 60 to 1200.
ruckus(config-ap-group-lldp)# lldp-mgmt Type: Privileged	[enable | disable]	Enables or disables the LLDP management IP TLV.

Table 23 lists the related ap-group-port-setting configuration commands.

Table 23. Commands related to ruckus(config-ap-group-port-setting)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group-port-setting)# do Type: Privileged		Executes the do command.
ruckus(config-ap-group-port-setting)# dot1x Type: Privileged	authsvr [<authenticator server name>] accsvr <name> mac-auth-bypass [true | false] supplicant user-name [<user name> password <password> supplicant mac	Sets the 802.1x role.
ruckus(config-ap-group-port-setting)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ap-group-port-setting)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ap-group-port-setting)# help Type: Privileged		Displays the help.

Table 23. Commands related to ruckus(config-ap-group-port-setting)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-group-port-setting)# lan Type: Privileged	<port> <port> uplink [general | access | trunk] <port> untag <vlan> <port> member <vlan-members> <port> dot1x [auth-mac-based | disabled | auth-port-based | supplicant]	Enables or disable specific port.
ruckus(config-ap-group-port-setting)# no Type: Privileged	dot1x accsvr lan <port>	Disables or deletes the configuration settings.

Table 24 lists the commands related config-common-settings-ap-model configuration commands.

Table 24. Commands related to (config-config-common-settings-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-model)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings-ap-model)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-common-settings-ap-model)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings-ap-model)# help Type: Privileged		Displays the help.

Table 24. Commands related to (config-config-common-settings-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-model)# ext-ant Type: Privileged	2.4g <number> 2.4gg <number> [3 | 2] 3 antennas 2 antennas 5g <number> 5gg <number> [2 | 3] 2 antennas 3 antennas	Sets the external antenna.
ruckus(config-common-settings-ap-model)# internal-heater Type: Privileged		Enables international heater.
ruckus(config-common-settings-ap-model)# lan1 ruckus(config-common-settings-ap-model)# lan2 ruckus(config-common-settings-ap-model)# lan3 ruckus(config-common-settings-ap-model)# lan4 ruckus(config-common-settings-ap-model)# lan5 Type: Privileged		Sets the LAN configurations from 1 to 5.
ruckus(config-common-settings-ap-model)# led Type: Privileged		Enables the status of led.
ruckus(config-common-settings-ap-model)# led-mode Type: Privileged		Sets the led mode description.
ruckus(config-common-settings-ap-model)# lldp Type: Privileged		Enables the Link Layer Discovery Protocol (LLDP).

Table 24. Commands related to (config-config-common-settings-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-model)# lldp-ad-interval Type: Privileged	<seconds>	Sets the LLDP advertise interval.
ruckus(config-common-settings-ap-model)# lldp-hold-time Type: Privileged	<seconds>	Sets the LLDP hold time.
ruckus(config-common-settings-ap-model)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.
ruckus(config-common-settings-ap-model)# no Type: Privileged	ext-ant internal-heater lan1 lan2 lan3 lan4 lan5 led lldp lldp-mgmt poe-out-port radio-band	Disables or deletes the settings that have been configured.
ruckus(config-common-settings-ap-model)# poe-out-port Type: Privileged		Enables the PoE out port.
ruckus(config-common-settings-ap-model)# radio-band Type: Privileged	${value}	Switches the radio band.

Table 25 lists the related common-settings-ap-model-lan1 configuration commands.

Table 25. Commands related to ruckus(config-common-settings-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-model-lan1)# 8021x Type: Privileged	<8021x-type>	Sets the 802.1x.
ruckus(config-common-settings-ap-model-lan1)# acct-service Type: Privileged	<acct-service>	Sets the accounting service configurations.
ruckus(config-common-settings-ap-model-lan1)# auth-service Type: Privileged	<auth-service>	Sets the authentication service configurations.
ruckus(config-common-settings-ap-model-lan1)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings-ap-model-lan1)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-common-settings-ap-model-lan1)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings-ap-model-lan1)# help Type: Privileged		Displays the help.
ruckus(config-common-settings-ap-model-lan1)# mac-bypass Type: Privileged		Sets the MAC authentication bypass.
ruckus(config-common-settings-ap-model-lan1)# members Type: Privileged	<members>	Sets the members.
ruckus(config-common-settings-ap-model-lan1)# no Type: Privileged	acct-service mac-bypass	Disables or deletes the settings that have been configured.

Table 25. Commands related to ruckus(config-common-settings-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-model-lan1)# supplicant Type: Privileged	mac custom <username> <password>	Sets the supplicant.
ruckus(config-common-settings-ap-model-lan1)# type Type: Privileged	[trunk-port | access-port | general-port]	Sets the port type.
ruckus(config-common-settings-ap-model-lan1)# vlan-untag-id Type: Privileged	<vlan-untag-id>	Sets the VLAN untag ID.

Table 26 lists the commands related config-common-settings-ap-tunnel-settings configuration commands.

Table 26. Commands related to (config-config-common-settings-ap-tunnel-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-tunnel-settings)# gateway	<ip> [primary | secondary] <ip>: Gateway address primary: Primary gateway address secondary: Secondary gateway address	Sets the gateway address.
ruckus(config-common-settings-ap-tunnel-settings)# icmp-retry Type: Privileged	<retryTimes>	Sets the ICMP keep alive retry.
ruckus(config-common-settings-ap-tunnel-settings)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings-ap-tunnel-settings# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

Table 26. Commands related to (config-config-common-settings-ap-tunnel-settings)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-ap-tunnel-settings)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings-ap-tunnel-settings)# help Type: Privileged		Displays the help.
ruckus(config-common-settings-ap-tunnel-settings)# no Type: Privileged	gateway <seconds> tunnel-encryption tunnel-mtu	Disables various configuration settings.
ruckus(config-common-settings-ap-tunnel-settings)# tunnel-encryption Type: Privileged		Enables the tunnel encryption.
ruckus(config-common-settings-ap-tunnel-settings)# tunnel-mode Type: Privileged	[gre | gre-udp] gre: GRE gre-udp: GRE+UDP (Support for APs behind NAT.)	Sets the Ruckus tunnel mode.
ruckus(config-common-settings-ap-tunnel-settings)# tunnel-mtu Type: Privileged	auto: Enables auto discovery <manually-size>: Manual size is between 850 and 1500	Sets the tunnel MTU.
ruckus(config-common-settings-ap-tunnel-settings)# tunnel-type Type: Privileged	[ruckus-gre | soft-gre] ruckus-gre: Ruckus GRE soft-gre: Soft GRE	Sets the tunnel type.
ruckus(config-common-settings-ap-tunnel-settings)# udp-port Type: Privileged		Sets the data plane UDP port.

Table 27 lists the related common-settings-guest-access configuration commands.

Table 27. Commands related to ruckus (config-common-settings-guest-access)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-guest-access)# description Type: Privileged	<text>	Sets the description.
ruckus(config-common-settings-guest-access)# enable-terms-and-conditions Type: Privileged		Enables the web portal terms and conditions.
ruckus(config-common-settings-guest-access)# grace-period Type: Privileged	<minutes>	Sets the grace period.
ruckus(config-common-settings-guest-access)# language Type: Privileged		Sets the language.
ruckus(config-common-settings-guest-access)# no Type: Privileged	enable-terms-and-conditions sms-gateway terms-and-conditions	Disables the various options.
ruckus(config-common-settings-guest-access)# session-timeout Type: Privileged	<minutes>	Sets the session timeout as per the specified minutes.
ruckus(config-common-settings-guest-access)# sms-gateway Type: Privileged		Sets the guest pass for the SMS gateway.
ruckus(config-common-settings-guest-access)# start-page Type: Privileged	original redirect <start-url>: Redirects to the specified URL	Sets the start page.
ruckus(config-common-settings-guest-access)# terms-and-conditions Type: Privileged		Sets the terms and conditions for the web portal.

Table 27. Commands related to ruckus (config-common-settings-guest-access)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-guest-access)# title Type: Privileged		Sets the title for the web portal.

Table 28 lists the related common-settings-hotspot configuration commands.

Table 28. Commands related to ruckus(config-common-settings-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-hotspot)# description Type: Privileged	<text>	Sets the description.
ruckus(config-common-settings-hotspot)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings-hotspot)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-common-settings-hotspot)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings-hotspot)# help Type: Privileged		Displays the help.
ruckus(config-common-settings-hotspot)# grace-period Type: Privileged	<minutes>	Sets the grace period.
ruckus(config-common-settings-hotspot)# location-id Type: Privileged	<location-id>	Sets the location ID.
ruckus(config-common-settings-hotspot)# location-name Type: Privileged	<name>	Sets the location name.

Table 28. Commands related to ruckus(config-common-settings-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-hotspot)# logon-url Type: Privileged	internal external <logon-url> - Redirects unauthenticated user to the URL for authentication	Sets the logon URL.
ruckus(config-common-settings-hotspot)# no Type: Privileged	walled-garden <walled-garden-list>	Disables the accounting server / walled-garden list options.
ruckus(config-common-settings-hotspot)# session-timeout Type: Privileged	<minutes>	Sets the sessions timeout.
ruckus(config-common-settings-hotspot)# smart-client-support Type: Privileged	none enable only <instructions>	Sets the smart client support.
ruckus(config-common-settings-hotspot)# start-page Type: Privileged	original redirect <start-url>	Sets the start page.
ruckus(config-common-settings-hotspot)# walled-garden Type: Privileged	<walled-garden-list>	Enables Walled Garden. Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list

Table 29 lists the related common-settings-web-authentication configuration commands.

Table 29. Commands related to ruckus (config-common-settings-web-authentication)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-web-authentication)# description Type: Privileged	<text>	Sets the description.
ruckus(config-common-settings-web-authentication)# grace-period Type: Privileged	<minutes>	Sets the grace period.
ruckus(config-common-settings-web-authentication)# language Type: Privileged		Sets the language.
ruckus(config-common-settings-web-authentication)# session-timeout Type: Privileged	<minutes>	Sets the session timeout as per the specified minutes.
ruckus(config-common-settings-web-authentication)# start-page Type: Privileged	original redirect <start-url>	Sets the start page.

Table 30 lists the related common-settings-wlan configuration commands.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# access-network Type: Privileged		Enables tunnel WLAN traffic to the SZ.
ruckus(config-common-settings-wlan)# acct-delay-time Type: Privileged		Enables the acct-delay time.
ruckus(config-common-settings-wlan)# acct-interval Type: Privileged	<minutes>	Set the authentication service. Enables accounting interval to send interim updates.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# acct-service Type: Privileged	<name>	Sets the accounting service.
ruckus(config-common-settings-wlan)# acct-service-use-proxy Type: Privileged		Set the accounting service: Uses the SZ as proxy.
ruckus(config-common-settings-wlan)# acct-ttg-session Type: Privileged		Sets the accounting service. Enables accounting for TTG sessions.
ruckus(config-common-settings-wlan)# auth-method Type: Privileged	<name>	Sets the authentication method.
ruckus(config-common-settings-wlan)# auth-service Type: Privileged	<name>	Sets the authentication service.
ruckus(config-common-settings-wlan)# auth-service-use-proxy Type: Privileged		Sets the authentication service. Enables accounting for TTG sessions.
ruckus(config-common-settings-wlan)# auth-type Type: Privileged		Sets the authentication type.
ruckus(config-common-settings-wlan)# bss-minrate Type: Privileged	[5.5mbps | 24mbps | 12mbps | 1mbps | 2mbps]	Sets the BSS minimum rate.
ruckus(config-common-settings-wlan)# called-sta Type: Privileged		Sets the called STA ID.
ruckus(config-common-settings-wlan)# client-fingerprinting Type: Privileged		Sets the client fingerprinting.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# client-tx-rx-statistics Type: Privileged		Enables ignore statistics from unauthorized clients.
ruckus(config-common-settings-wlan)# description Type: Privileged	<text>	Sets the description.
ruckus(config-common-settings-wlan)# device-policy Type: Privileged	[<policy name>]	Sets the device policy.
ruckus(config-common-settings-wlan)# dgaf Type: Privileged		Disables downstream group-address frame forwarding.
ruckus(config-common-settings-wlan)# dhcp-option-82 Type: Privileged		Enables DHCP option 82.
ruckus(config-common-settings-wlan)# dhcp-option-82-format Type: Privileged	[ruckus-gre | soft-gre]	Enables DHCP option 82 format options.
ruckus(config-common-settings-wlan)# disable-band-balancing Type: Privileged		Disables radio band balancing on WLAN.
ruckus(config-common-settings-wlan)# disable-load-balancing Type: Privileged		Disables client load balancing on WLAN.
ruckus(config-common-settings-wlan)# disable-wlan Type: Privileged		Disables this WLAN service.
ruckus(config-common-settings-wlan)# dnlink-limit Type: Privileged		Sets the downlink rate limiting.
ruckus(config-zone-wlan)# do Type: Privileged		Executes the do command.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-wlan)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-wlan)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-wlan)# help Type: Privileged		Displays the help.
ruckus(config-common-settings-wlan)# enable-type Type: Privileged		Enables the WLAN service type.
ruckus(config-common-settings-wlan)# enc-algorithm Type: Privileged		Sets the encryption algorithm.
ruckus(config-common-settings-wlan)# enc-method Type: Privileged		Sets the encryption method.
ruckus(config-common-settings-wlan)# enc-passphrase Type: Privileged	<password>	Sets the encryption passphrase.
ruckus(config-common-settings-wlan)# enc-wep-key Type: Privileged	<wep-key-index> <wep-key> WEP key (HEX), length should be 10 (WEP-64) or 26 (WEP-128)	Sets WEP key (HEX).
ruckus(config-common-settings-wlan)# force-dhcp Type: Privileged	timeout <seconds> timeout: Sets the disconnect client timeout interval <seconds>: Sets the disconnect client timeout in intervals of 5 - 15 seconds	Sets the timeout for DHCP in seconds.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# guest-access Type: Privileged	<name>	Sets the guest access service.
ruckus(config-common-settings-wlan)# guest-access-auth-service Type: Privileged		Sets the authentication server.
ruckus(config-common-settings-wlan)# hide-ssid Type: Privileged		Hides SSID in beacon broadcast.
ruckus(config-common-settings-wlan)# hotspot Type: Privileged	<name>	Sets the hotspot service.
ruckus(config-common-settings-wlan)# hotspot2 Type: Privileged	<name>	Sets the hotspot 2.0 configuration.
ruckus(config-common-settings-wlan)# inactivity-timeout Type: Privileged	<number>	Sets the inactivity timeout. Terminates idle user sessions after the specified seconds of inactivity.
ruckus(config-common-settings-wlan)# l2-acl Type: Privileged	[<ACL name>]	Sets the layer 2 access control list.
ruckus(config-common-settings-wlan)# mac-802-11x-format Type: Privileged		Sets the MAC authentication. Sets the MAC address in 802.1X format.
ruckus(config-common-settings-wlan)# mac-auth Type: Privileged	<password>	Sets the MAC authentication.
ruckus(config-common-settings-wlan)# max-clients Type: Privileged	<number>	Sets the maximum clients. Allows clients per AP radio to associate with this WLAN. Range is between 1 and 512.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# mgmt-tx-rate Type: Privileged	[5.5mbps | 48mbps | 6mbps | 2mbps | 36mbps | 1mbps | 18mbps | 12mbps | 54mbps | 9mbps | 11mbps | 24mbps]	Sets the management Tx rates.
ruckus(config-common-settings-wlan)# no Type: Privileged	access-network acct-delay-time acct-service acct-service-use-proxy acct-ttg-session auth-service-use-proxy bss-minrate client-fingerprinting client-tx-rx-statistics device-policy dgaf dhcp-option-82 disable-band-balancing disable-load-balancing disable-wlan dnlink-limit force-dhcp hide-ssid l2-acl mac-802-11x-format mac-auth ofdm-only onboarding-auth-service-use-proxy	Disables or deletes the configurations that have been set. .....continued

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# no Type: Privileged	uplink-limit user-traffic-profile vlan-enabled wireless-client-isolation zero-it-activation zero-it-onboarding	Disables or deletes the configurations that have been set.
ruckus(config-common-settings-wlan)# ofdm-only Type: Privileged		Enables OFDM only.
ruckus(config-common-settings-wlan)# onboarding-auth-service Type: Privileged	<name>	Sets the onboarding authentication service.
ruckus(config-common-settings-wlan)# onboarding-auth-service-use-proxy Type: Privileged		Sets the onboarding authentication service using the SZ proxy server.
ruckus(config-common-settings-wlan)# priority Type: Privileged		Sets the priority as either low or high.
ruckus(config-common-settings-wlan)# proxy-arp Type: Privileged		Enables proxy ARP.
ruckus(config-common-settings-wlan)# radius-nas-id Type: Privileged	<number>	Sets the RADIUS NAS ID.
ruckus(config-common-settings-wlan)# radius-nas-max-retries Type: Privileged	<times>	Sets the maximum number of retries for RADIUS NAS.
ruckus(config-common-settings-wlan)# radius-nas-reconnect-primary Type: Privileged	<minutes>	Sets the reconnection to the primary RADIUS NAS.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# radius-nas-request-timeout Type: Privileged	<seconds>	Sets the RADIUS NAS request timeout.
ruckus(config-common-settings-wlan)# radius-nas-type Type: Privileged		Sets the RADIUS NAS type.
ruckus(config-common-settings-wlan)# roam Type: Privileged		Enables roaming.
ruckus(config-common-settings-wlan)# roam-factor Type: Privileged	2.4g <value> 5g <value>	Sets the roam factor.
ruckus(config-common-settings-wlan)# scheduler Type: Privileged	[<Profile name>]	Sets the WLAN scheduler profile.
ruckus(config-common-settings-wlan)# ssid Type: Privileged	<ssid>	Sets the WLAN SSID configuration.
ruckus(config-common-settings-wlan)# support-802-11d Type: Privileged		Enables support for 802.11d.
ruckus(config-common-settings-wlan)# uplink-limit Type: Privileged		Sets the uplink rate limiting.
ruckus(config-common-settings-wlan)# user-traffic-profile Type: Privileged		Sets the user traffic profile.
ruckus(config-common-settings-wlan)# vlan-enabled Type: Privileged		Enables dynamic VLAN.

Table 30. Commands related to ruckus(config-common-settings-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan)# vlan-id Type: Privileged	<vlan-id>	Sets the VLAN ID.
ruckus(config-config-common-settings-wlan)# web-authentication Type: Privileged	<name>	Sets the web authentication service.
ruckus(config-common-settings-wlan)# wireless-client-isolation Type: Privileged		Sets the wireless client isolation.
ruckus(config-common-settings-wlan)# zero-it-activation Type: Privileged		Enables zero-it activation (WLAN users are provided with wireless configuration installer after they log in).
ruckus(config-common-settings-wlan)# zero-it-onboarding Type: Privileged		Enables zero-it device registration from the guest portal.

Table 31 lists the related common-settings-wlan-group configuration commands.

Table 31. Commands related to ruckus(config-common-settings-wlan-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan-group)# description Type: Privileged	<text>	Sets the description,
ruckus(config-common-settings-wlan-group)# do Type: Privileged		Executes the do command.
ruckus(config-common-settings-wlan-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

Table 31. Commands related to ruckus(config-common-settings-wlan-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-common-settings-wlan-group)# help Type: Privileged		Displays the help.
ruckus(config-common-settings-wlan-group)# no Type: Privileged	wlan <name>	Disables or deletes the configuration settings.
ruckus(config-common-settings-wlan-group)# wlan Type: Privileged	<name> vlan <vlanTag> nasid <nasid> <name> nasid <nasid> vlan <vlanTag> <name> vlan <vlanTag> <name> nasid <nasid> <name>	Sets a WLAN in this group, or overrides the VLAN setting.

Table 32 lists the related common-settings-wlan-scheduler configuration commands.

Table 32. Commands related to ruckus (config-common-settings-wlan-scheduler)

Syntax and Type	Parameters (if any)	Description
ruckus(config-common-settings-wlan-scheduler)# description Type: Privileged	<text>	Sets the description,
ruckus(config-common-settings-wlan-scheduler)# schedule-data Type: Privileged	${state} ${weekday} ${from} ${to}	Sets the schedule table.

data-plane

To update the dataplane configuration, use the following command:

ruckus(config)# data-plane <name> <<name> forward-stp>

Syntax Description

This command uses the following syntax:

<name>: Name of the dataplane

forward-stp: Disables the STP package bridge

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# data-plane indus4d1
```

Related Commands

Table 33 lists the related data plane configuration commands

Table 33. Commands related to ruckus(config-data-plane)

Syntax and Type	Parameters (if any)	Description
ruckus(config-data-plane)# ip Type: Privileged	route <dest-network> <network-mask> <next-hop-ip> address dhcp address <ip> <mask> <gateway> secondary <ip> <mask> name-server <ip> secondary route <ip> <mask> <ip>	Sets the IP configuration commands.

Table 33. Commands related to ruckus(config-data-plane)

Syntax and Type	Parameters (if any)	Description
ruckus(config-data-plane)# no Type: Privileged	ip secondary ip name-server secondary ip route <dest-network> <network-mask> <nexth-op-ip> ip route <ip> <mask> <ip> vlan	Disables / deletes options.
ruckus(config-data-plane)# do Type: Privileged		Executes the do command.
ruckus(config-data-plane)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-data-plane)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-data-plane)# help Type: Privileged		Displays the help.
ruckus(config-data-plane)# vlan Type: Privileged	<vlan-id> secondary	Updates the VLAN configuration.

device-policy

To create or update the device policy configuration, use the following command:

ruckus(config)# device-policy <name>

Syntax Description

This command uses the following syntax:

<name>: Name of the device policy

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# device-policy dp1
SZ100-Node1(config-device-policy)#
```

Related Commands

- Table 34 lists the related device policy configuration commands.
- Table 35 lists the related device policy policy rule configuration commands

Table 34 lists the related device policy configuration commands

Table 34. Commands related to ruckus(config-device-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-device-policy)# default-action Type: Privileged	[allow | block]	Sets the default action to either allow or block.
ruckus(config-device-policy)# description Type: Privileged	<text>	Sets the description.
ruckus(config-device-policy)# do Type: Privileged		Executes the do command.
ruckus(config-device-policy)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

Table 34. Commands related to ruckus(config-device-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-device-policy)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-device-policy)# help Type: Privileged		Displays the help.
ruckus(config-device-policy# name Type: Privileged	<name>	Sets the device policy name.
ruckus(config-device-policy# no policy-rule Type: Privileged	<device type> android blackberry gaming iOS linux macOS printers voip windows	Removes the device type with its policy rules.
ruckus(config-device-policy)# policy-rule Type: Privileged		Sets the device policy rule.

Table 35 lists the related device-policy-policy-rule configuration commands.

Table 35. Commands related to ruckus(config-device-policy-policy rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-device-policy-policy-rule)# action Type: Privileged	[allow | block]	Sets the default action to either allow or block.
ruckus(config-device-policy-policy-rule)# description Type: Privileged	<text>	Sets the description.
ruckus(config-device-policy-policy-rule)# do Type: Privileged		Executes the do command.
ruckus(config-device-policy-policy-rule)# downlink Type: Privileged	[<rate limiting>] Rate limiting (mbps)	Sets the downlink rate limiting.
ruckus(config-device-policy-policy-rule)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-device-policy-policy-rule)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-device-policy-policy-rule)# help Type: Privileged		Displays the help.
ruckus(config-device-policy-policy-rule)# no vlan Type: Privileged		Resets the VLAN number.

Table 35. Commands related to ruckus(config-device-policy-policy rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-device-policy-policy-rule)# type Type: Privileged	<device type> android blackberry gaming iOS linux macOS printers voip windows	Sets the device type.
ruckus(config-device-policy-policy-rule)# uplink Type: Privileged	[<rate limiting>] Rate limiting (mbps)	Sets the uplink rate limiting.
ruckus(config-device-policy-policy-rule)# vlan Type: Privileged	[<VLAN number>]	Sets the VLAN number.

do

To setup the do command, use the following command.

ruckus(config)# do

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# do
```

dp-group

To enable and set the data plane grouping, use the following command.

ruckus(config)# dp-group <dp-mac-group>

Syntax Description

This command uses the following syntax:

<dp-mac-group>: Dataplane groups, which is comma separated DP MAC addresses in a group. For example, 3 DP value is seen as “,”.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# dp-group dp1-172.19.7.100 dp2-172.19.8.120
```

Configuration Commands

3

This chapter describes the commands that you can use to configure, enable, and disable various SZ-100 ‘components. The following table lists the commands.

NOTE: For easy access and reading, the configuration chapter has been split into 3 chapters based on the alphabetical order of commands.

Table 36. Configuration commands

encrypt-mac-ip	end	event	event db-persistence	event email
event snmp-trap	event-email	exit	ftp-server	ftp-test
guest-access	help	hostname	hotspot	import-zdbackup
interface	ip	ip name-server	ip route	l2-acl
lbs-service	license	license cloud	license export	license import
license local	license sync-now	lineman	logging console	lwapp2scg
no admin	no admin-radius	no ap	no ap auto-tagging	no ap-cert-check
no ap-control-mgmt-tos	no ap-group	no ap-root-ca	no ap-sci	no bonjour-gateway
no bonjour-policy	no cls-sess	no control-plane	no data-plane	no device-policy
no dp-group	no encrypt-mac-ip	no event	no ftp-server	no guest-access
no ftp-server	no interface	no ip	no lineman	no logging
no non-proxy-aaa	no proxy-aaa	no report	no role	no snmp-trap
no snmp-v2-community	no snmp-v3-user	no user-agent-blacklist	no user-role	no user-traffic-profile

Table 36. Configuration commands

no web-authentication	no wlan	no wlan-group	no wlan-scheduler	non-proxy-aaa
northbound-authtype	northbound-portal	ntp-server	proxy-aaa	report
role				

encrypt-mac-ip

To enable encryption of MAC and IP address for WISPr enriched URL, use the following command.

ruckus(config)# encrypt-mac-ip

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# encrypt-mac-ip
Successful operation
```

end

To end the current session and returns to privileged EXEC mode, use the following command.

ruckus(config)# end

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# end
```

event

To update the event notification configuration, use the following command.

ruckus(config)# event <eventCode>

Syntax Description

This command uses the following syntax:

<eventCode>: Single configuration event notification

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# event 1002
```

Related Commands

Table 37 lists the related event configuration commands.

Table 37. Commands related to ruckus(config-event)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event)# db-persistence Type: Privileged		Enables the data blade persistence for the event.
ruckus(config-event)# do Type: Privileged		Executes the do command.
ruckus(config-event)# email Type: Privileged		Enables the email notification.

Table 37. Commands related to ruckus(config-event)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-event)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-event)# help Type: Privileged		Displays the help.
ruckus(config-event)# no Type: Privileged	db-persistence email snmp-trap	Enables the SNMP trap.
ruckus(config-event)# snmp-trap Type: Privileged		Enables the SNMP trap.

event db-persistence

To enable data base persistence for the event, use the following command.

ruckus(config)# event db-persistence

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# event db-persistence
No.  Event Code  Category Type Description Severity SNMP Email
DB Persistence
----- ----------- ----------------------- ----------------------
  1    103        AP Communication        AP managed
This event occurs when AP is approby the SmartZone. Informational
Disabled    Disabled    Enabled
                                                              ved
```

```
  2    105       AP Communication       AP rejected
This event occurs when AP is rejected by the SmartZone.Minor
Enabled     Disabled    Enabled
  3    106       AP Communication       AP firmware updated
This event occurs when AP successfully updates its firmware.
Informational  Disabled    Disabled    Enabled

   4     107         AP Communication         AP firmware update
failed   This event occurs when the AP fails to update its firmware.
Major           Enabled     Disabled    Enabled
                                                                  s
  5    108       AP Communication       Updating AP firmware...
This event occurs when AP is updating its firmware. Informational
Disabled    Disabled    Enabled

   6     109         AP Communication         Updating AP
configuration...  This event occurs when the AP is updating its
configuration. Informational  Disabled   Disabled   Enabled

   7     110         AP Communication         AP configuration
updated     This event occurs when the AP has successfully updated
its configuration Informational  Disabled   Disabled   Enabled
Please choose Event Codes (separated by ',') to enable DB persistence
events:
```

event email

To enable event triggers for selected email notification, use the following command.

ruckus(config)# event email <eventCode>

Syntax Description

This command has no arguments or keywords.

Command Mode

Config

Example

```
SZ100-Node1(config)# event email
No.  Event Code  Category Type Description Severity SNMP Email
DB Persistence
----- ----------- ------------------------ ----------------------
```

```
1     103          AP Communication          AP managed This event
occurs when AP is approved by the SmartZone Informational  Enabled
Enabled    Enabled .

  2    105        AP Communication        AP rejected
This event occurs when AP is rejected by SmartZone Minor
Enabled      Enabled      Enabled

  3    106        AP Communication        AP firmware updated
This event occurs when AP successfully updates its firmware
Informational  Enabled      Enabled      Enabled

Please choose Event Codes (separated by ',') to enable Event to
trigger Email:
```

event snmp-trap

To enable the events to trigger the SNMP trap, use the following command.

ruckus(config)# event snmp-trap <eventCode>

Syntax Description

This command has no arguments or keywords.

Command Mode

Config

Example

```
SZ100-Node1(config)# event snmp-trap
No.   Event Code  Category Type Description Severity SNMP Email
DB Persistence
----- ----------- ------------------------ ----------------------
1     103          AP Communication          AP managed This event
occurs when AP is approved by the SmartZone Informational  Enabled
Enabled    Enabled .

2    105        AP Communication        AP rejected
This event occurs when AP is rejected by SmartZone Minor
Enabled      Enabled      Enabled

3    106        AP Communication        AP firmware updated
This event occurs when AP successfully updates its firmware
Informational  Enabled      Enabled      Enabled
```

```
Please choose Event Codes (separated by ',') to enable Event to
trigger SNMP Trap:
```

event-email

To setup the event to email services, use the following command.

ruckus(config)# event-email <eventCode>

Syntax Description

This command has no arguments or keywords.

Command Mode

Config

Example

```
SZ100-Node1(config)# event-email
SZ100-Node1(config-event-email)#
```

Related Commands

Table 38 lists the related event-email configuration commands.

Table 38. Commands related to ruckus(config-event-email)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event-email)# do Type: Privileged		Enables the do command.
ruckus(config-event-email)# enable Type: Privileged		Enables the email notifications for events.
ruckus(config-event-email)# end: Privileged		End the current configuration session and returns to the privileged EXEC mode.
ruckus(config-event-email)# exit Privileged		Exit from the EXEC.
ruckus(config-event-email)# help Privileged		Display the help message.

Table 38. Commands related to ruckus(config-event-email)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event)# mail-to Type: Privileged	<email>	Sets the email address configuration.
ruckus(config-event)# no Type: Privileged	enable mail-to	Disables various options.

exit

To exit from the EXEC, use the following command.

ruckus(config)# exit

Syntax Description

This command has no arguments or keywords.

Command Mode

Config

Example

```
SZ100-Node1(config)# exit
```

ftp-server

To update the FTP server for uploading reports configuration, use the following command.

ruckus(config)# ftp-server <name>

Once you enter the config-ftp-server context, you can configure the rest of the FTP server settings (see example below).

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

config

Example

```
SZ100-Node1(config)# ftp-server f1
SZ100-Node1(config-ftp-server)#
SZ100-Node1(config-ftp-server)# host 1.1.1.1
SZ100-Node1(config-ftp-server)# port 21
SZ100-Node1(config-ftp-server)# username test
SZ100-Node1(config-ftp-server)# password test
Retype: ****
SZ100-Node1(config-ftp-server)# exit
SZ100-Node1(config)#
```

Related Commands

Table 39 lists the related ftp-server commands.

Table 39. Commands related to ruckus(config-ftp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ftp-server)# do Type: Privileged		Executes the do command.
ruckus(config-ftp-server)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ftp-server)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ftp-server)# help Type: Privileged		Displays the help.
ruckus(config-ftp-server)# host Type: Privileged	<ip>	Sets the FTP server IP address.
ruckus(config-ftp-server)# password Type: Privileged	<password>	Sets the FTP password.
ruckus(config-ftp-server)# port Type: Privileged	<port>	Sets the FTP server port.
ruckus(config-ftp-server)# remote-directory Type: Privileged	<directory>	Sets the FTP remote directory.

Table 39. Commands related to ruckus(config-ftp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ftp-server)# test Type: Privileged		Test the FTP settings.
ruckus(config-ftp-server)# username Type: Privileged	<username>	Sets the user name.

ftp-test

To test the FTP server connection, use the following command.

ruckus(config)# ftp-test <name>

Syntax Description

This command uses the following syntax:

<name>: FTP server name

Default

This command has no default settings.

Command Mode

config

Example

```
SZ100-Node1(config)# ftp-test FTP-SERVER
Fail to connection to FTP server
```

guest-access

To create or update the guest access configuration, use the following command.

ruckus(config)# guest-access <name>

Syntax Description

This command uses the following syntax:

<name>: Name of the guest

Default

This command has no default settings.

Command Mode

config

Example

```
SZ100-Node1(config)# guest-access dominic
SZ100-Node1(config-guest-access)#
```

Related Commands

Table 40 lists the related guest access configuration commands.

Table 40. Commands related to ruckus (config-guest-access)

Syntax and Type	Parameters (if any)	Description
ruckus(config-guest-access)# description Type: Privileged	<text>	Sets the description.
ruckus(config-guest-access)# do Type: Privileged		Executes the do command.
ruckus(config-guest-access)# enable-terms-and-conditions Type: Privileged		Enables the web portal terms and conditions.
ruckus(config-guest-access)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-guest-access)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-guest-access)# grace-period Type: Privileged	<minutes>	Sets the grace period.
ruckus(config-guest-access)# help Type: Privileged		Displays the help.
ruckus(config-guest-access)# language Type: Privileged		Sets the language.
ruckus(config-guest-access)# name Type: Privileged	<name>	Sets the guess access service name.

Table 40. Commands related to ruckus (config-guest-access)

Syntax and Type	Parameters (if any)	Description
ruckus(config-guest-access)# no Type: Privileged	enable-terms-and-conditions sms-gateway terms-and-conditions	Disables the web portal terms and conditions.
ruckus(config-guest-access)# session-timeout Type: Privileged	<minutes>	Sets the session timeout as per the specified minutes.
ruckus(config-guest-access)# sms-gateway Type: Privileged	<disabled>	Sets the guest pass for the SMS gateway.
ruckus(config-guest-access)# start-page Type: Privileged	original redirect <start-url>	Sets the start page.
ruckus(config-guest-access)# terms-and-conditions Type: Privileged		Sets the web portal terms and conditions.
ruckus(config-guest-access)# title Type: Privileged		Sets the title for the web portal.

help

To display the help message, use the following command.

ruckus(config)# help

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# help
```

admin Create/Update Administrator account configuration
admin-radius Create/Update RADIUS server for Administrators
ap-auto-approve Enable AP auto approve

hostname

To change the hostname, use the following command.

ruckus(config)# hostname <hostname>

Syntax Description

This command uses the following syntax:

hostname: Changed hostname

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# hostname
```

hotspot

To create or update the hotspot (WISPr) configuration, use the following command.

ruckus(config)# hotspot profile <name>

Syntax Description

This command uses the following syntax:

name: Name of the WISPr hotspot profile

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# hotspot hsp1
SZ100-Node1(config-hotspot)#
```

Related Commands

Table 41 lists the related hotspot configuration commands.

Table 41. Commands related to ruckus(config-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hotspot)# description Type: Privileged	<text>	Sets the description.
ruckus(config-hotspot)# do Type: Privileged		Executes the do command.
ruckus(config-hotspot)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hotspot)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hotspot)# grace-period Type: Privileged	<minutes>	Sets the EAP-SIM MAP version.
ruckus(config-hotspot)# help Type: Privileged		Displays the help.
ruckus(config-hotspot)# location-id Type: Privileged	<location-id>	Sets the location ID.
ruckus(config-hotspot)# location-name Type: Privileged	<location-name>	Sets the location name.
ruckus(config-hotspot)# logon-url Type: Privileged	internal external <logon-url> <logon-url>: Redirects unauthenticated user to the URL for authentication	Sets the logon model.
ruckus(config-hotspot)# name Type: Privileged		Renames the hotspot profile.

Table 41. Commands related to ruckus(config-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hotspot)# no walled-garden Type: Privileged	<walled-garden-list>	Disables the walled garden configurations.
ruckus(config-hotspot)# session-timeout Type: Privileged	<minutes>	Sets the session timeout. Defined in minutes.
ruckus(config-hotspot)# smart-client-support Type: Privileged	enable none only <instructions> Only smart client allowed with instructions for enabling users to log on using the smart client application	Sets the smart client support.
ruckus(config-hotspot)# start-page Type: Privileged	original redirect <start-url> <start-url>: Redirects to the defined URL	Sets the start page.
ruckus(config-hotspot)# walled-garden Type: Privileged	<walled-garden-list>	Enables walled garden. Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list.

import-zdbackup

To import the ZD backup, use the following command.

ruckus(config)# import-zdbackup import <ftp-url>

Syntax Description

This command uses the following syntax:

import: Import ZD backup from FTP server

<ftp-url>: FTP URL, format: ftp://<username>:<password>@<ftp-host>/<file-path>

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# import-zdbackup import ftp://
dm:ruckus1!@172.19.7.100/backup/AP_ad87453456fe.csv
```

interface

To setup the interface configuration, use the following command.

ruckus(config)# interface <ap-tunnel-data>

ruckus(config)# interface <mgmt-and-ap-control>

ruckus(config)# interface <user-defined <name>>

Syntax Description

This command has no arguments or keywords.

Default

cluster

cluster: Cluster interface

control

control: Control interface

management

management: Management interface

mgmt-and-ap-control

mgmt-and-ap-control: Management & AP Control

ap-tunnel-data

ap-tunnel-data: AP Tunnel Data

mgmt-or-ap-tunnel

mgmt-or-ap-tunnel: Management/AP Tunnel Traffic

user-defined <name>

user-defined: User defined interface

<name>: User defined interface name.

Command Mode

Config

Example

```
SZ100-Node1(config)# interface
ap-tunnel-data          AP Tunnel Data
mgmt-and-ap-control     Management & AP Control
user-defined            User defined interface

SZ100-Node1(config)# interface ap-tunnel-data
SZ100-Node1(config-if)#
data-plane   Update Data Plane configuration
do Do command
end End the current configuration session and return to privileged
EXEC mode
exit Exit from the EXEC
help Display this help message
ip Update IP configuration
no Disable and delete commands ned UD1
```

Related Commands

- Table 42 lists the related interface-ap-tunnel-data and mgmt-and-ap-control configuration commands.
- Table 43 lists the related interface-user-defined configuration commands.

Table 42 lists the related interface-ap-tunnel-data and mgmt-and-ap-control configuration commands.

Table 42. Commands related to ruckus(config-interface-ap-tunnel-data and mgmt-and-ap-control)

Syntax and Type	Parameters (if any)	Description
ruckus(config-if)# data-plane Type: Privileged		Updates the data plane configuration
ruckus(config-if)# do Type: Privileged		Executes the do command.
ruckus(config-if)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-if)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-if)# help Type: Privileged		Displays the help.
ruckus(config-if)# ip Type: Privileged	<address>	Sets the IP address.
ruckus(config-if)# no data-plane Type: Privileged	<name>	Disables the data-plane

Table 43 lists the related interface-user-defined configuration commands.

Table 43. Commands related to ruckus(config-interface-user-defined)

Syntax and Type	Parameters (if any)	Description
ruckus(config-if)# do Type: Privileged		Executes the do command.
ruckus(config-if)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-if)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-if)# help Type: Privileged		Displays the help.
ruckus(config-if)# interface Type: Privileged	[control | management]	Sets the physical interface such as control and management interface. Executed in conjunction with user defined sub command.
ruckus(config-if)# name Type: Privileged		Renames the user-define interface.
ruckus(config-if)# ip Type: Privileged	<address>	Sets the IP address for the user defined interface.
ruckus(config-if)# service Type: Privileged	<any> <hotspot>	Sets the service.
ruckus(config-if)# vlan Type: Privileged	<vlan-id>	Sets the VLAN ID for the interface.

ip

To setup the IP address, use the following command.

ruckus(config)# ip

Syntax Description

This command uses the following syntax:

name-server Set name server
route Set static routes

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ip
name-server     Set name server
route           Set static routes
```

ip name-server

To setup the name server configuration, use the following command.

ruckus(config)# ip name-server <ip>

Syntax Description

This command uses the following syntax:

ip: Primary DNS server
ip: Secondary DNS server

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ip name-server ip 172.19.13.56
Successful operation
```

ip route

To setup the static rule configuration, use the following command.

ruckus(config)# ip route <ip> <mask> <ip> <interface> <metric>

Syntax Description

This command uses the following syntax:

<ip> <mask> <ip> <interface> <metric>

<ip>: Destination network IP address

<mask>: Destination network mask

<ip>: Next hop IP address

<interface>: Interface

<metric>: Distance metric for this route

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ip route ip 193.12.30.10
```

l2-acl

To create or update the L2ACL configuration, use the following command.

ruckus(config)# l2-acl <name>

Syntax Description

This command uses the following syntax:

<name> : L2ACL name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# l2-acl l2
SZ100-Node1(config-l2-acl)#
```

Related Commands

Table 44 lists the related to l2-acl configuration commands.

Table 44. Commands related to ruckus(config-l2-acl)

Syntax and Type	Parameters (if any)	Description
ruckus(config-l2-acl)# action Type: Privileged	[allow | block]	Sets the handling action to allow or block.
ruckus(config-l2-acl)# description Type: Privileged	<text>	Sets the description.
ruckus(config-l2-acl)# do Type: Privileged		Executes the do command.
ruckus(config-l2-acl)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-l2-acl)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-l2-acl)# help Type: Privileged		Displays the help.
ruckus(config-l2-acl)# mac Type: Privileged	${value}	Sets the MAC value.
ruckus(config-l2-acl)# name Type: Privileged	<name>	Sets the name of the L2ALC.
ruckus(config-l2-acl)# no mac Type: Privileged	${value}	Disables the MAC value.

lbs-service

To create and update the Location Based Service (LBS) configuration, use the following command.

ruckus(config)# lbs-service

Syntax Description

This command uses the following syntax:

name: LBS venue name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# lbs-service
<name>     LBS venue name
SZ100-Node1(config)# lbs-service n3
```

Related Commands

Table 45 lists the related lbs-service configuration command

Table 45. Commands related to ruckus(config-lbs-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-lbs-service)# do Type: Privileged		Sets the do command.
ruckus(config-lbs-service)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-lbs-service)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-lbs-service)# help Type: Privileged		Displays the help message.
ruckus(config-lbs-service)# host Type: Privileged	<IP address> <domain name>	Sets the server address.

Table 45. Commands related to ruckus(config-lbs-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-lbs-service)# password Type: Privileged	<password>	Sets the password.
ruckus(config-lbs-service)# port Type: Privileged	<port>	Sets the port number.
ruckus(config-lbs-service)# venue Type: Privileged	<venue>	Sets the LBS venue.

license

To enable the cloud license server, use the following command.

ruckus(config)# license cloud

ruckus(config)# license import

ruckus(config)# license export

ruckus(config)# license local

ruckus(config)# license sync-now

Syntax Description

This command uses the following syntax:

enable: Enables the cloud license server

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license
cloud Enable Cloud License Server
export Export Licenses
import Import Licenses
local Enable Local License Server, Format: <local-server> <port>
sync-now Sync License with Server
```

license cloud

To enable the cloud license server, use the following command.

ruckus(config)# license cloud <enable>

Syntax Description

This command uses the following syntax:

enable: Enables the cloud license server

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license cloud enable
Are you sure you want to change the license server configuration?
All current license data will be wipe out!! (or input 'no' to
cancel)? [yes/no]
```

license export

To setup the export licenses, use the following command.

ruckus(config)# license export <ftp-url> | <ftp-url> <name>

Syntax Description

This command uses the following syntax:

ftp-url: License file. FTP URL format is, ftp://<username>:<password>@<ip>/<file-path>

<name>: Sets the control plane

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license export ftp://dm:ruckus1!@172.19.7.100
```

license import

To setup the import licenses, use the following command.

ruckus(config)# license import <ftp-url> | <ftp-url> <name>

Syntax Description

This command uses the following syntax:

ftp-url: License file. FTP URL format is, ftp://<username>:<password>@<ip>/<file-path>

<name>: Sets the control plane

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license import ftp://dm:ruckus1!@172.19.7.100
```

license local

To enable the local license server, use the following command.

ruckus(config)# license local <local-server> <port>

Syntax Description

This command uses the following syntax:

<local-server>: Sets the local license server IP address or the domain name

<port>: Sets the local license server port number

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license local 172.19.7.100 80
```

license sync-now

To synchronize licenses, use the following command.

ruckus(config)# license sync-now

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# license sync-now
```

lineman

To setup the workflow URL, use the following command.

ruckus(config)# lineman <workflow-file> | <workflow-url>

Syntax Description

This command uses the following syntax:

<workflow-file>: Uploads the workflow file

<workflow-url>: Set the workflow URL

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# lineman workflow-file ftp://
dm:ruckus1!@172.19.7.100
```

logging console

To enable service logging on the console, use the following command.

ruckus(config)# logging console cli [error | info] | cli debug | <name>

Syntax Description

This command uses the following syntax:

cli [error | info]

cli: Enables CLI logging

error: Error level

info: Information level

cli debug

cli: Enables CLI logging

debug: Debug level

<name> : System service name. Enables logging for a system service.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# cli
2014-11-14 11:17:11,932 wsg.cli[main] INFO  c.r.w.c.g.ShellRunner[-
1] - Read line:
SZ100-Node1(config)# logging console
2014-11-14 11:17:24,683 wsg.cli[CliSessionTimeout] INFO
c.r.w.c.Context[-1] - sleep interrupted
2014-11-14 11:17:24,684 wsg.cli[main] INFO  c.r.w.c.g.Shell[-1] -
Input command: help logging console
2014-11-14 11:17:24,684 wsg.cli[main] INFO  c.r.w.c.g.Shell[-1] -
Executing command (help): com.ruckuswireless.wsg.cli.command.Help-
Command; options: [logging, console]
2014-11-14 11:17:24,687 wsg.cli[main] INFO  c.r.w.c.c.CommandOp-
tionsMixin[-1] - Starting to cache validation status
2014-11-14 11:17:24,689 wsg.cli[main] INFO  c.r.w.c.c.CommandOp-
tionsMixin[-1] - Finished to cache validation status
```

```
2014-11-14 11:17:24,690 wsg.cli[main] INFO  c.r.w.c.c.CommandOp-
tionsMixin[-1] - Starting to cache validation status
2014-11-14 11:17:24,700 wsg.cli[main] INFO  c.r.w.c.c.CommandOp-
tionsMixin[-1] - Finished to cache validation status
```

lwapp2scg

To update the LWAPP to SZ configurations, use the following command.

ruckus(config)# lwapp2scg

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# lwapp2scg
2014-11-14 11:19:35,252 wsg.cli[main] INFO c.r.w.c.g.ShellRunner[-
1] - Read line: lwapp2scg
2014-11-14 11:19:35,254 wsg.cli[CliSessionTimeout] INFO
c.r.w.c.Context[-1] - sleep interrupted
2014-11-14 11:19:35,254 wsg.cli[main] INFO  c.r.w.c.g.Shell[-1] -
Input command: lwapp2scg
2014-11-14 11:19:35,254 wsg.cli[main] INFO  c.r.w.c.g.Shell[-1] -
Executing command (noCommandName-Ymfv4Ftq3X): com.ruckuswire-
less.wsg.cli.command.configure.ConfigureComplexCommand; options:
[lwapp2scg]
2014-11-14 11:19:35,255 wsg.cli[main] INFO  c.r.w.c.c.c.Configure-
ComplexCommand[-1] - Complex command and the invoked function is
'lwapp2scg'; options: []
2014-11-14 11:19:35,259 wsg.cli[main] INFO  c.r.w.c.c.Configure-
ComplexCommandOptionsSupport[-1] - Use RESTFul resource to query
the config model object
2014-11-14 11:19:35,261 wsg.cli[main] INFO  c.r.w.c.r.RESTUtils[-
1] - 1th do HTTP action (Path: api/sz/globalSettings/system/
lwapp2scg)
```

```
2014-11-14 11:19:35,263 wsg.cli[main] INFO  c.r.w.c.r.RESTUtils[-
1] - HTTP Action: GET https://100.31.1.41:8443/wsg/api/sz/global-
Settings/system/lwapp2scg
2014-11-14 11:19:35,329 wsg.cli[main] INFO  c.r.w.c.r.RESTUtils[-
1] - HTTP Response Status: 200
2014-11-14 11:19:35,337 wsg.cli[main] INFO  c.r.w.c.c.Configure-
ComplexCommandOptionsSupport[-1] - Prepare to update a model
object, so get it first
2014-11-14 11:19:35,340 wsg.cli[main] INFO c.r.w.c.c.c.s.Lwapp2Sc-
gConfigCommand[-1] - setDefaultValue...
2014-11-14 11:19:35,348 wsg.cli[main] INFO c.r.w.c.c.c.s.Lwapp2Sc-
gConfigCommand[-1] - No key defined in com.ruckuswire-
less.wsg.cli.command.configure.system.Lwapp2ScgConfigCommand.
2014-11-14 11:19:35,349 wsg.cli[main] INFO  c.r.w.c.Context[-1] -
Current command is noCommandName-R1ykVtG30W (com.ruckuswire-
less.wsg.cli.command.configure.system.Lwapp2ScgConfigCommand)
```

Related Commands

Table 46 lists the related lwapp2scg configuration command

Table 46. Commands related to ruckus(config-lwapp2scg).

Syntax and Type	Parameters (if any)	Description
ruckus(config-lwapp2scg)# acl-ap Type: Privileged	mac <ApMac>: Sets the AP MAC address. Use commas to separate the addresses. For example: 1a:2b:3c:4d:5f:60,11:22:33:44:55:66 serial <SerialNumber>: Sets the serial number. Use commas to separate the serial numbers. For example: 12345678901 2,98765432 1021	Sets the ACL AP.
ruckus(config-lwapp2scg)# do Type: Privileged		Sets the do command
ruckus(config-lwapp2scg)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.

Table 46. Commands related to ruckus(config-lwapp2scg).

Syntax and Type	Parameters (if any)	Description
ruckus(config-lwapp2scg)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-lwapp2scg)# help Type: Privileged		Displays the help message.
ruckus(config-lwapp2scg)# no Type: Privileged		Deletes the AP ACL.
ruckus(config-lwapp2scg)# pasv-port Type: Privileged	<port> <port> - Sets it to minimum and maximum port.	Set the dynamic data transmission port range to minimum and maximum.
ruckus(config-lwapp2scg)# policy Type: Privileged	<accept> Accept by ACL AP list <accept-all> Accept all <deny> Deny by ACL AP list <deny-all> Deny all	Sets the ACL policy.

no admin

To delete the administrator, use the following command.

ruckus(config)# no admin <username>

Syntax Description

This command uses the following syntax:

username: Name of the administrator to be deleted

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no admin adam
```

no admin-radius

To delete RADIUS servers configurations for administrators, use the following command.

ruckus(config)# no admin-radius <name>

Syntax Description

This command uses the following syntax:

name: AAA server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no admin-radius aaa1
```

no ap

To delete the lock or unlock the access point, use the following command.

ruckus(config)# no ap <mac> lock

Syntax Description

This command uses the following syntax:

mac: AP MAC address
lock: Unlock AP

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap 50:A7:33:24:EA:00
```

no ap auto-approve

To disable AP auto approve, use the following command.

ruckus(config)# no ap auto-approve

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-auto-approve
```

no ap auto-tagging

To disable auto tagging of critical access points, use the following command.

ruckus(config)# no ap auto-tagging <enable>

Syntax Description

This command uses the following syntax:

enable: Disable the auto tagging for critical access point

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-auto-tagging enable
```

no ap-cert-check

To disable the access point certificate check, use the following command.

ruckus(config)# no ap-cert-check

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-cert-check
```

no ap-control-mgmt-tos

To disable the access point control management traffic type of service, use the following command.

ruckus(config)# no ap-control-mgmt-tos

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-control-mgmt-tos
```

no ap-group

To disable or delete the AP group, use the following command.

ruckus(config)# no ap-group ${apGroupName} | <name>

Syntax Description

This command uses the following syntax:

ap-group ${apGroupName}?

ap-group:

${apGroupName}?:

<name>: AP Group name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-group ap3
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no ap-root-ca

To disable or delete the access point root ca, use the following command.

ruckus(config)# no ap-root-ca

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-root-ca
```

no ap-sci

To disable the access point SCI configurations, use the following command.

ruckus(config)# no ap-sci <enable>

Syntax Description

This command uses the following syntax:

enable: Disables the AP SCI.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ap-sci enable
```

no bonjour-gateway

To disable the bonjour gateway configuration, use the following command.

ruckus(config)# no bonjour-gateway

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no bonjour-gateway
```

no bonjour-policy

To delete the bonjour policy configuration, use the following command.

ruckus(config)# no bonjour-policy <name>

Syntax Description

This command uses the following syntax:

name: Name of the bonjour policy to be deleted.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no bonjour-policy n1
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no cls-sess

To delete Q-in-Q layer 3 profile configurations, use the following command.

ruckus(config)# no cls-sess msisdn <msisdn>

Syntax Description

This command uses the following syntax:

msisdn: msisdn

<msisdn>: The length of MSISDN should be between 10 to15 digits.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no cls-sess msisdn 1234567
```

no control-plane

To remove the control plane from the cluster configuration, use the following command.

ruckus(config)# no control-plane <name>

Syntax Description

This command uses the following syntax:

name: Control plane name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no control-plane cp1
```

no data-plane

To disable the STP package bridge of the local dataplane configuration, use the following command.

ruckus(config)# no data-plane <name> forward-stp

Syntax Description

This command uses the following syntax:

name: Dataplane name
forward-stp: Disables the STP package bridge

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no data-plane name indus7-d1
```

no device-policy

To delete the device policy configuration, use the following command:

ruckus(config)# device-policy <name>

Syntax Description

This command uses the following syntax:

<name>: Name of the device policy

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no device-policy dp1
```

no dp-group

To disable the data plane grouping, use the following command.

ruckus(config)# no dp-group

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no dp-group
```

no encrypt-mac-ip

To disable the encryption of MAC and IP address, use the following command.

ruckus(config)# no encrypt-mac-ip

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no encrypt-mac-ip
Do you want to continue to disable (or input 'no' to cancel)? [yes/
no]
```

no event

To disable the trigger to SNMP trap/email configuration, use the following command.

ruckus(config)# no event <snmp-trap> <email> <db-persistence>

Syntax Description

This command uses the following syntax:

snmp-trap: Disables the trigger to SNMP trap

email: Disables the to trigger email

db-persistence: Disables DB persistence for the even

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no event email 305, 214, 113
```

no ftp-server

To delete FTP server, use the following command.

ruckus(config)# no ftp-server <FTPname>

Syntax Description

This command uses the following syntax:

<FTPname>: Name of the FTP server

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ftp-server ftp1
```

no guest-access

To delete the guest access configuration, use the following command.

ruckus(config)# guest-access ${guestAccessName}? | <name>

Syntax Description

This command uses the following syntax:

<name>: Name of the guest

guest-access ${guestAccessName}?

Default

This command has no default settings.

Command Mode

config

Example

```
SZ100-Node1(config)# no guest-access dominic
```

no hotspot

To delete the hotspot (WISPr) configuration, use the following command.

ruckus(config)# no hotspot ${hotspotName}? | <name>

Syntax Description

This command uses the following syntax:

hotspot ${hotspotName}?

name: Name of the WISPr hotspot profile

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no hotspot htsp1
```

no interface

To disable an interface configuration, use the following command.

ruckus(config)# no interface <user-defined <name>>

Syntax Description

This command uses the following syntax:

user-defined: User defined interface

name: User defined interface name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no interface user-defined UD1
```

no ip

To remove all IP address static routes, use the following command.

ruckus(config)# no ip <route> <route <dest-network> <network-mask> <nexth-op-ip> [cluster | management | control]> <name-server secondary>

Syntax Description

This command uses the following syntax:

route: Deletes static routes

route <ip> <mask> <ip> <interface>

route: Deletes static routes

<ip>: Destination network IP address

<mask>: Destination network mask

<ip>: Next hop IP address

<interface>: Interface

name-server secondary

name-server: Deletes all name servers

secondary: Deletes secondary name server

separate-access-core enable

separate-access-core: Separates the access and core gateway

enable: Disables the access and core gateway

control-nat: Deletes the NAT IP address

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no ip route ip 193.12.30.10
```

no l2-acl

To disables the layer 2 Access Control List (ACL) configuration, use the following command.

ruckus(config)# no l2-acl <name>

Syntax Description

This command uses the following syntax:

<name>: Layer 2 Access Control List name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no l2-acl n3
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no lineman

To disables the lineman application configuration, use the following command.

ruckus(config)# no lineman <workflow-url>

Syntax Description

This command uses the following syntax:

<workflow-url>: Set the workflow URL

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no lineman workflow-url ftp://
dm:ruckus1!@172.19.7.100
```

no logging

To disable service logging settings, use the following command.

ruckus(config)# no logging <console cli>

Syntax Description

This command uses the following syntax:

console: Disables all services that logon to the console and reverts to default settings.

cli: Disables the CLI logging on the console and changes the default log level

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no logging console cli
```

no non-proxy-aaa

To disable the non proxy AAA server settings, use the following command.

ruckus(config)# no non-proxy-aaa non-proxy-aaa ${aaaName}?| <name>

Syntax Description

This command uses the following syntax:

non-proxy-aaa ${aaaName}?

<name>: Proxy AAA server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no non-proxy-aaa nam3
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no proxy-aaa

To disable the proxy AAA server settings, use the following command.

ruckus(config)# no proxy-aaa <name>

Syntax Description

This command uses the following syntax:

<name>: Proxy AAA server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no proxy-aaa
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no report

To delete reports, use the following command.

ruckus(config)# no report <report-title>

Syntax Description

This command uses the following syntax:

report-title: Report to be deleted

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no report dns-report
```

no role

To delete all administrator roles except the default administrator role, use the following command.

ruckus(config)# no role <name>

Syntax Description

This command uses the following syntax:

name: Name of the role to be deleted

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no role rm34
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no snmp-trap

To disable SNMP trap configuration, use the following command.

ruckus(config)# no snmp-trap

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no snmp-trap 113
Do you want to continue to disable (or input 'no' to cancel)? [yes/
no]
```

no snmp-v2-community

To delete SNMPv2 community, use the following command.

ruckus(config)# no snmp-v2-community <community>

Syntax Description

This command uses the following syntax:

community: Community name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)#snmpno snmp-v2-community cm2
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no snmp-v3-user

To delete SNMPv3 user configuration, use the following command.

ruckus(config)# no snmp-v3-user <user>

Syntax Description

This command uses the following syntax:

user: User name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no snmp-v3-user ud11
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no user-agent-blacklist

To delete the user agent blacklisted, use the following command.

ruckus(config)# no user-agent-blacklist <name>

Syntax Description

This command uses the following syntax:

name: Name of the user agent which is blacklisted

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no user-agent-blacklist userb1
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no user-role

To delete all users except the default user, use the following command.

ruckus(config)# no user-role <name>

Syntax Description

This command uses the following syntax:

name: Name of the user role

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no user-role userr1
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no user-traffic-profile

To delete all users traffic profiles, use the following command.

ruckus(config)# no user-traffic-profile <name>

Syntax Description

This command uses the following syntax:

name: Name of the user traffic profile

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no user-traffic-profile userp1
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no web-authentication

To delete all web authentication, use the following command.

ruckus(config)# no web-authentication ${webAuthenticationName}?| <name>

Syntax Description

This command uses the following syntax:

name: Name of the user traffic profile

web-authentication ${webAuthenticationName}?

Default

This command has no default settings

Command Mode

Config

Example

```
SZ100-Node1(config)# no web-authentication
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no wlan

To delete all WLAN, use the following command.

ruckus(config)# no wlan ${wlanName}?| <name>

Syntax Description

This command uses the following syntax:

name: WLAN name

wlan ${wlanName}?

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no wlan
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no wlan-group

To delete all WLAN group, use the following command.

ruckus(config)# no wlan-group ${wlanGroupName}?| <name>

Syntax Description

This command uses the following syntax:

name: WLAN name

wlan-group ${wlanGroupName}?

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no wlan-group
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

no wlan-scheduler

To delete all WLAN group, use the following command.

ruckus(config)# no wlan-scheduler ${wlanSchedulerName}?

Syntax Description

This command uses the following syntax:

wlan-scheduler ${wlanSchedulerName}?

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# no wlan-scheduler
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

non-proxy-aaa

To create or update the non-proxy AAA server configuration settings, use the following command.

ruckus(config)# non-proxy-aaa <name>

Syntax Description

This command uses the following syntax:

<name>: Proxy AAA server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# non-proxy-aaa
SZ100-Node1(config-non-proxy-aaa)#
```

Related Commands

Table 47 lists the related config-non-proxy-aaa configuration commands.

Table 47. Commands related ruckus(config-non-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-non-proxy-aaa)# admin-domain Type: Privileged		Sets the admin domain.
ruckus(config-non-proxy-aaa)# admin-domain-name Type: Privileged	<admin-domain>	Creates or updates the admin domain name.
ruckus(config-non-proxy-aaa)# admin-password Type: Privileged	<admin-password>	Creates or updates the admin password.
ruckus(config-non-proxy-aaa)# base-domain Type: Privileged	<base-domain>	Set the base domain.
ruckus(config-non-proxy-aaa)# backup Type: Privileged	ip <ip>: Sets the IP address of secondary RADIUS server port <port>: Sets the port of secondary RADIUS server shared-secret: Sets the shared secret of secondary RADIUS server	Enables backup of the RADIUS support.
ruckus(config-non-proxy-aaa)# base-domain Type: Privileged	<base-domain>	Sets the base domain.
ruckus(config-non-proxy-aaa)# description Type: Privileged	<description>	Sets the description.
ruckus(config-non-proxy-aaa)# do Type: Privileged		Executes the do command.

Table 47. Commands related ruckus(config-non-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-non-proxy-aaa)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-non-proxy-aaa)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-non-proxy-aaa)# help Type: Privileged		Displays the help.
ruckus(config-non-proxy-aaa)# global-catalog Type: Privileged		Enables the global catalog support.
ruckus(config-non-proxy-aaa)# ip Type: Privileged	<ip>	Sets the IP addresses of the primary RADIUS server.
ruckus(config-non-proxy-aaa)# key-attribute Type: Privileged	<key-attribute>	Sets the key attributes for the primary RADIUS server.
ruckus(config-non-proxy-aaa)# no Type: Privileged	backup global-catalog no-response-fail	Sets the RADIUS server name.
ruckus(config-non-proxy-aaa)# name Type: Privileged		Sets the RADIUS server name.
ruckus(config-non-proxy-aaa)# no-response-fail Type: Privileged		Enables the no response fail setting.
ruckus(config-non-proxy-aaa)# password Type: Privileged	<password>	Sets the password.
ruckus(config-non-proxy-aaa)# port Type: Privileged	<port>	Sets the port number of the primary RADIUS server.

Table 47. Commands related ruckus(config-non-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-non-proxy-aaa)# response-window Type: Privileged	<seconds>	Sets the response window.
ruckus(config-non-proxy-aaa)# revive-interval Type: Privileged	<seconds>	Sets the revive interval.
ruckus(config-non-proxy-aaa)# search-filter Type: Privileged	<search-filter>	Sets the search filter.
ruckus(config-non-proxy-aaa)# shared-secret Type: Privileged		Sets the shared secret of the primary RADIUS server.
ruckus(config-non-proxy-aaa)# test Type: Privileged	<username> <password>	Sets the test AAA server.
ruckus(config-non-proxy-aaa)# windows-domain Type: Privileged	<windows-domain>	Sets the windows domain.
ruckus(config-non-proxy-aaa)# zombie-period Type: Privileged	<seconds>	Sets the zombie period.

northbound-authtype

Sets the RADIUS authentication type to northbound portal interface, use the following command.

ruckus(config)# northbound-authtype <PAP>|<CHAP>

Syntax Description

This command uses the following syntax:

PAP: Password authentication protocol

CHAP: Challenge handshake authentication protocol

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# northbound-authtype PAP
SZ100-Node1(config)# northbound-authtype CHAP
```

northbound-portal

To enable the northbound portal interface and set the password, use the following command.

ruckus(config)# northbound-portal <password>

Syntax Description

This command uses the following syntax:

password: Password for the northbound portal interface

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# northbound-portal ruckus1!
```

ntp-server

To update the NTP server configuration, use the following command.

ruckus(config)# ntp-server <ntp-server>

Syntax Description

This command uses the following syntax:

ntp-server: NTP server IP/domain name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# ntp-server host 172.19.13.53
```

proxy-aaa

To create or update the proxy AAA server configuration settings, use the following command.

ruckus(config)# proxy-aaa <name>

Syntax Description

This command uses the following syntax:

<name>: Proxy AAA server name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# proxy-aaa
SZ100-Node1(config-proxy-aaa)#
```

Related Commands

Table 48 lists the related config-proxy-aaa configuration commands.

Table 48. Commands related ruckus(config-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-proxy-aaa)# backup Type: Privileged	ip <ip>: Sets the IP address of secondary RADIUS server port <port>: Sets the port of secondary RADIUS server shared-secret: Sets the shared secret of secondary RADIUS server	Enables backup of the RADIUS support.
ruckus(config-proxy-aaa)# description Type: Privileged	<description>	Sets the description.
ruckus(config-proxy-aaa)# do Type: Privileged		Executes the do command.
ruckus(config-proxy-aaa)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-proxy-aaa)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-proxy-aaa)# help Type: Privileged		Displays the help.
ruckus(config-proxy-aaa)# ip Type: Privileged	<ip>	Sets the IP addresses of the primary RADIUS server.
ruckus(config-proxy-aaa)# mor Type: Privileged	[<0 or 10-4096>] Maximum outstanding requests per server	Sets the maximum outstanding requests per server.
ruckus(config-proxy-aaa)# no Type: Privileged	backup no-response-fail	Disables various options

Table 48. Commands related ruckus(config-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-proxy-aaa)# no-response-fail Type: Privileged		Enables no response fail settings.
ruckus(config-proxy-aaa)# name Type: Privileged		Sets the RADIUS server name.
ruckus(config-aaa)# port Type: Privileged	<port>	Sets the port number of the primary RADIUS server.
ruckus(config-proxy-aaa)# response-window Type: Privileged	<seconds>	Sets the response window.
ruckus(config-proxy-aaa)# revive-interval Type: Privileged	<seconds>	Sets the revive interval.
ruckus(config-proxy-aaa)# sanity-timer Type: Privileged	<seconds>	Sets the sanity timer.
ruckus(config-proxy-aaa)# shared-secret Type: Privileged		Sets the shared secret of the primary RADIUS server.
ruckus(config-proxy-aaa)# test Type: Privileged	<username> <password>	Sets the RADIUS server using login credentials.
ruckus(config-proxy-aaa)# threshold Type: Privileged	[<10-90 %>] Percentage of maximum number of outstanding requests.	Sets the percentage of maximum number of outstanding requests.
ruckus(config-proxy-aaa# type Type: Privileged	[radius | radius-acct | LDAP | AD] radius: RADIUS type radius-acct: RADIUS accounting type LDAP: LDAP AD: Active Directory	Sets the RADIUS type.

Table 48. Commands related ruckus(config-proxy-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-proxy-aaa)# zombie-period Type: Privileged	<seconds>	Sets the zombie period.

report

To create or update the report configurations, use the following command.

ruckus(config)# report <title>

Syntax Description

This command uses the following syntax:

title: Name of the report

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# report rep01
```

Related Commands

Table 49 lists the related report configuration command.

Table 49. Commands related to ruckus(config-report)

Syntax and Type	Parameters (if any)	Description
ruckus(config-report)# csv-format Type: Privileged		Sets the output of the report in CSV format.
ruckus(config-report)# description Type: Privileged	<text>	Sets the description.
ruckus(config-report)# do Type: Privileged		Executes the do command.
ruckus(config-report)# email Type: Privileged	<email>	Sets the email notification.

Table 49. Commands related to ruckus(config-report)

Syntax and Type	Parameters (if any)	Description
ruckus(config-report)# enable-export Type: Privileged		Enables the export report results to the FTP server.
ruckus(config-report)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-report)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-report)# export Type: Privileged	<ftp-url> - FTP URL format is: ftp://<username>:<password>@<ftp-host>[/<dir-path>]	Sets the export report results to FTP server.
ruckus(config-report)# export-test Type: Privileged		Tests the FTP server.
ruckus(config-report)# help Type: Privileged		Displays the help.
ruckus(config-report)# no Type: Privileged	csv-format email enable export export pdf-format resource-filter schedule	Disables and deletes commands.
ruckus(config-report)# pdf-format Type: Privileged		Sets the outputs of the report in a PDF format.
ruckus(config-report)# resource-filter Type: Privileged	ggsn <ggsn-ip> ssid <ssid> radio ${value} device plane <name> device domain <name> device zone <name> device ap <name>	Sets the resource filter criteria.

Table 49. Commands related to ruckus(config-report)

Syntax and Type	Parameters (if any)	Description
ruckus(config-report)# schedule Type: Privileged	monthly <date-of-month> hour <hour> minute <minute> weekly <date-of-week> hour <hour> minute <minute> daily <hour> minute <minute> hourly <minute>	Sets the schedule.
ruckus(config-report)# time-filter Type: Privileged	monthly months <months> daily days <days> hourly days <days> hourly hours <hours> 15min hours <hours> 5min hours <hours> time-period hours <hours>	Sets the time filter.
ruckus(config-report)# tittle Type: Privileged	<title>	Sets the report title.

Table 49. Commands related to ruckus(config-report)

Syntax and Type	Parameters (if any)	Description
ruckus(config-report)# type Type: Privileged	<client-number> < client-number-vs-air-time> <continuously-disconnected-aps> <failed-client-associations> <new-client-associations> <system-resource-utilization> <tx-rx-bytes>	Sets the report type.

role

To create or update the role configuration, use the following command.

ruckus(config)# role <name>

Syntax Description

This command uses the following syntax:

name: Define the role name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# role admin01
```

Related Commands

Table 50 lists the related role configuration commands.

Table 50. Commands related to ruckus(config-role).

Syntax and Type	Parameters (if any)	Description
ruckus(config-role)# capabilities Type: Privileged	administration configuration device monitor reports <capabilities-depth-1>	Sets the capabilities details.
ruckus(config-role)# description Type: Privileged	<text>	Sets the description for the assigned role.
ruckus(config-role)# do Type: Privileged		Executes the do command.
ruckus(config-role)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-role)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-role)# help Type: Privileged		Displays the help.
ruckus(config-role)# no Type: Privileged	administration configuration device monitor reports <capabilities-depth-1>	Disables the capabilities assigned.

Configuration Commands

4

This chapter describes the commands that you can use to configure, enable, and disable various SZ-100 components. The following table lists the commands.

NOTE: For easy access and reading, the configuration chapter has been split into 3 chapters based on the alphabetical order of commands.

Table 51. Configuration commands

sms-server	smtp-server	snmp-trap	snmp-v2-community	snmp-v3-user
syslog-server	user-agent-blacklist	user-role	user-traffic-profile	web-cert
wlan	wlan-group	wlan-scheduler		

sms-server

To enable SMS server configurations, use the following command.

ruckus(config)# sms-server

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# sms-server
```

Related Commands

Table 52 lists the related sms-server configuration commands.

Table 52. Commands related to ruckus(config-sms-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-sms-server)# account-side Type: Privileged	<sid>	Sets the account SID, which is a 34 character string that uniquely identifies this account. The enable commands set this command.
ruckus(config-sms-server)# auth-token Type: Privileged	<token>	Sets the authorization token identifier. The enable commands set this command.
ruckus(config-sms-server)# do Type: Privileged		Executes the do command.
ruckus(config-sms-server)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-sms-server)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-sms-server)# enable Type: Privileged		Enables the SMS server.

Table 52. Commands related to ruckus(config-sms-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-sms-server)# from Type: Privileged	<from>	Sets the sender's mail address.
ruckus(config-sms-server)# help Type: Privileged		Displays the help.
ruckus(config-sms-server)# no enable Type: Privileged		Disables the SMS server.
ruckus(config-sms-server)# server-name Type: Privileged	<server-name>	Sets the server name.

smtp-server

To update the SMTP server configurations, use the following command.

ruckus(config)# smtp-server

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ30(config)# smtp-server
```

Related Commands

Table 53 lists the related smtp-server configuration commands.

Table 53. Commands related to ruckus(config-smtp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-smtp-server)# do Type: Privileged		Executes the do command.

Table 53. Commands related to ruckus(config-smtp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-smtp-server)# enable Type: Privileged		Enables the SMTP server.
ruckus(config-smtp-server)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(diagnostic)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-smtp-server)# from Type: Privileged	<mail>	Sets the sender's mail address.
ruckus(config-smtp-server)# help Type: Privileged		Displays the help.
ruckus(config-smtp-server)# host Type: Privileged	<host>	Sets the SMTP server IP address or domain name.
ruckus(config-smtp-server)# no Type: Privileged	enable: Disables SMTP Server password: Removes password start-tls: Disables STARTTLS encryption tls: Disables TLS encryption username: Removes the username	Disables TLS or STARTTLS encryption commands.
ruckus(config-smtp-server)# password Type: Privileged	<password>	Sets the password.
ruckus(config-smtp-server)# port Type: Privileged	<port>	Sets the port number.
ruckus(config-smtp-server)# start-tls Type: Privileged		Enables STARTTLS encryption. The TLS commands set this command.

Table 53. Commands related to ruckus(config-smtp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-smtp-server)# test Type: Privileged		Tests the SMTP settings. The TLS commands set this command.
ruckus(config-smtp-server)# tls Type: Privileged		Enables TLS encryption.
ruckus(config-smtp-server)# to Type: Privileged	<mail>	Sets the receiver's email address.
ruckus(config-smtp-server)# username Type: Privileged	<username>	Sets the logon name.

snmp-trap

To enable SNMP traps, use the following command.

ruckus(config)# snmp-trap

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# snmp-trap
```

snmp-v2-community

Sets the SNMPv2 community, use the following command.

ruckus(config)# snmp-v2-community <community>

Syntax Description

This command uses the following syntax:

community: Community name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# snmp-v2-community comm3
```

Related Commands

Table 54 lists the related snmp-v2-community configuration commands.

Table 54. Commands related to ruckus(config-snmp-v2-community)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v2-community)# do Type: Privileged		Executes the do command.
ruckus(config-snmp-v2-community)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-snmp-v2-community)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-snmp-v2-community)# help Type: Privileged		Displays the help.

Table 54. Commands related to ruckus(config-snmp-v2-community)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v2-community)# no Type: Privileged	read: Disables read privilege trap: Disables trap privilege trap-target <ip> <port>: Deletes trap target IP address and port write: Disables write privilege	Disables various options.
ruckus(config-snmp-v2-community)# read Type: Privileged		Enables the read privileges.
ruckus(config-snmp-v2-community)# trap Type: Privileged		Enables trap privileges.
ruckus(config-snmp-v2-community)# trap-target Type: Privileged	<ip> <port>	Enables trap target by setting the IP address and port. The trap command sets this command.
ruckus(config-snmp-v2-community)# write Type: Privileged		Enables the write privileges.

snmp-v3-user

Sets the SNMPv3 user configuration, use the following command.

ruckus(config)# snmp-v3-user <user>

Syntax Description

This command uses the following syntax:

user: User name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# snmp-v3-user user
SZ100-Node1(config-snmp-v3-user)#
```

Related Commands

Table 55 lists the related config-snmp-v3-user configuration commands.

Table 55. Commands related to ruckus(config-snmp-v3-user)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v3-user)# auth Type: Privileged	md5 <auth-password> none sha <auth-password>	Sets SNMPv3 user authentication.
ruckus(config-snmp-v3-user)# do Type: Privileged		Executes the do command.
ruckus(config-snmp-v3-user)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-snmp-v3-user)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-snmp-v3-user)# help Type: Privileged		Displays the help.

Table 55. Commands related to ruckus(config-snmp-v3-user)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v3-user)# no Type: Privileged	read: Disables read privilege trap: Disables trap privilege trap-target <ip> <port>: Deletes trap target IP address and port write: Disables write privilege	Disables various options.
ruckus(config-snmp-v3-user)# privacy Type: Privileged	none: Set to none des <privacy-phrase>: DES privacy phrase aes <privacy-phrase>: AES privacy phrase	Sets the user privacy. The auth-md5 command sets this command.
ruckus(config-snmp-v3-user)# read Type: Privileged		Enables read privileges.
ruckus(config-snmp-v3-user)# trap Type: Privileged		Enables trap privileges.
ruckus(config-snmp-v3-user)# trap-target Type: Privileged	<ip> <port>	Enables trap target by setting the IP address and port. The trap command sets this command.
ruckus(config-snmp-v3-user)# write Type: Privileged		Enables write privileges.

syslog-server

To update the syslog server configurations, use the following command.

ruckus(config)# syslog-server

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# user-agent-blacklist name
SZ100-Node1(config-user-agent-blacklist)#
```

Related Commands

Table 56 lists the relate syslog-server configuration commands.

Table 56. Commands related to ruckus(config-syslog-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-syslog-server)# do Type: Privileged		Executes the do command.
ruckus(config-syslog-server)# enable Type: Privileged		Enables sending events to the remote syslog server.
ruckus(config-syslog-server)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-syslog-server)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-syslog-server)# facility Type: Privileged	[Local1 | Local2 | Local4 | Local3 | Local7 | Local0 | Local5 | Local6]	Sets the facility to send events from the remote syslog server to the local systems.

Table 56. Commands related to ruckus(config-syslog-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-syslog-server)# filter Type: Privileged	[all | severity | exclude-client] <filter>	Sets the settings for filtering events to either all or events above a certain severity level or events except client associate/ disassociate.
ruckus(config-syslog-server)# filter-severity Type: Privileged	[Critical | Debug | Info | Major | Minor | Warning <filter-severity>	Sets the event severity filter settings. Command filter <severity> sets this command. The filter severity is based on severity.
ruckus(config-syslog-server)# help Type: Privileged		Displays the help.
ruckus(config-syslog-server)# host Type: Privileged	<ip>	Sets the syslog server IP address.
ruckus(config-syslog-server)# no Type: Privileged	<enable>	Disables the syslog server.
ruckus(config-syslog-server)# ping Type: Privileged		Pings the syslog server.
ruckus(config-syslog-server)# port Type: Privileged	<port>	Sets the syslog server port.
ruckus(config-syslog-server)# priority Type: Privileged	[Critical | Debug | Info | Major | Minor | Warning <event severity> <syslog-priority>	Sets the priority for events. The event severity and syslog-severity is based on priority.

user-agent-blacklist

To create and update the user agent blacklisted configuration, use the following command.

ruckus(config)# user-agent-blacklist <name>

Syntax Description

This command uses the following syntax:

name: Name of the user agent blacklisted

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ30(config)# user-agent-blacklist user-agent-blacklist
SZ30(config-user-agent-blacklist)#
```

Related Commands

Table 57 lists the related user-agent-blacklist configuration commands.

Table 57. Commands related to ruckus(config-user-agent-blacklist)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-agent-blacklist)# do Type: Privileged		Sets the do command.
ruckus(config-user-agent-blacklist)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-user-agent-blacklist)# error Type: Privileged	<error>	Sets the error code between 400 and 599.
ruckus(config-user-agent-blacklist)# error-message Type: Privileged	<error message>	Sets the error message.

Table 57. Commands related to ruckus(config-user-agent-blacklist)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-agent-blacklist)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-user-agent-blacklist)# help Type: Privileged		Displays the help.
ruckus(config-user-agent-blacklist)# name Type: Privileged	<name>	Sets the user agent name who is blacklisted.
ruckus(config-user-agent-blacklist)# pattern Type: Privileged	<pattern>	Sets the user agent pattern

user-role

To create and update the user role configuration, use the following command.

ruckus(config)# user-role <name>

Syntax Description

This command uses the following syntax:

name: Name of the user role

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# user-role user-adam
SZ100-Node1(config-user-role)#
```

Related Commands

Table 58 lists the related user-role configuration commands.

Table 58. Commands related to ruckus(config-user-role)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-role)# allow-wlan-type Type: Privileged	<all>: Allows zero IT access to all WLANs <wlans>: Allows zero IT access to selected WLANs	Sets the allowed resources.
ruckus(config-user-role)# customize-group-attr Type: Privileged	non-proxy <name> aaa <name> <text> radius-nonproxy proxy-aaa <name> <text> accounting-proxy radius-proxy	Adds the customized group attribute value for various AAA servers.
ruckus(config-user-role)# description Type: Privileged	<description>	Sets the description.
ruckus(config-user-role)# do Type: Privileged		Sets the do command.
ruckus(config-user-role)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-user-role)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-user-role)# group-attr Type: Privileged	<text>	Sets the default group attribute value.
ruckus(config-user-role)# help Type: Privileged		Displays the help.
ruckus(config-user-role)# max-devices Type: Privileged	<max-devices>	Sets the number for maximum devices allowed (1-10).

Table 58. Commands related to ruckus(config-user-role)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-role)# no Type: Privileged	customize-group-attr description	Disables the override on the specified settings.

user-traffic-profile

To create and update the user traffic profile configuration, use the following command.

ruckus(config)# user-traffic-profile <name>

Syntax Description

This command uses the following syntax:

name: Name of the user traffic profile

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config-user-traffic-profile)#
SZ100-Node1(config-user-traffic-profile)#
```

Related Commands

- Table 59 lists the related user-traffic-profile configuration commands.
- Table 60 lists the related user-traffic-profile-acl configuration commands.

Table 59 lists the related user-traffic-profile configuration commands.

Table 59. Commands related to (config-user-traffic-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile)# acl Type: Privileged		Sets the network access control list.

Table 59. Commands related to (config-user-traffic-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile)# default-action Type: Privileged	<default-action>	Sets the default action.
ruckus(config-user-traffic-profile)# description Type: Privileged	<description>	Sets the description.
ruckus(config-user-traffic-profile)# do Type: Privileged		Sets the do command.
ruckus(config-user-traffic-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-user-traffic-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-user-traffic-profile)# help Type: Privileged		Displays the help.
ruckus(config-user-traffic-profile)# name Type: Privileged	<name>	Sets the number for maximum devices allowed.
ruckus(config-user-traffic-profile)# no Type: Privileged	<acl>	Disables the override on the specified settings.

Table 60 lists the related user-traffic-profile-acl configuration commands.

Table 60. Commands related to ruckus(config-user-traffic-profile-acl)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile-acl)# action Type: Privileged	<action>	Sets the handling action.
ruckus(config-user-traffic-profile-acl)# description Type: Privileged	<description>	Sets the description.
ruckus(config-user-traffic-profile-acl)# destination-ip Type: Privileged	network [<Network Address>] subnet-mask <subnet-mask> - Sets the destination subnet host [<Host IP Address>] - Sets the destination host	Sets the destination IP address.
ruckus(config-user-traffic-profile-acl)# destination-port Type: Privileged	[<Port Number>] - Sets the destination port number range [<Port Number>] [<Port Number>] - Sets the destination port range	Sets the destination port number.
ruckus(config-user-traffic-profile-acl)# direction Type: Privileged	${value}	Sets the traffic direction.
ruckus(config-user-traffic-profile-acl)# do Type: Privileged		Sets the do command.
ruckus(config-user-traffic-profile-acl)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-user-traffic-profile-acl)# exit Type: Privileged		Exits from the EXEC.

Table 60. Commands related to ruckus(config-user-traffic-profile-acl)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile-acl)# help Type: Privileged		Displays the help.
ruckus(config-user-traffic-profile-acl)# protocol Type: Privileged	<protocol> Value should be in the range of 1 to 255	Sets the protocol.
ruckus(config-user-traffic-profile-acl)# source-ip Type: Privileged	network [<Network Address>] subnet-mask <subnet-mask> - Sets the source subnet host [<Host IP Address>] - Sets the source host	Sets the matching source IP address.
ruckus(config-user-traffic-profile-acl)# source-port Type: Privileged	[<Port Number>] - Sets the destination port number range [<Port Number>] [<Port Number>] - Sets the destination port range	Sets the source port number.

web-authentication

To create or update the web authentication configurations, use the following command.

ruckus(config)# web-authentication <name>

Syntax Description

This command uses the following syntax:

name: Web authentication name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# web-authentication webab1
```

Related Commands

Table 61 lists the related web-authentication configuration commands.

Table 61. Commands related to ruckus (config-web-authentication)

Syntax and Type	Parameters (if any)	Description
ruckus(config-web-authentication)# description Type: Privileged	<text>	Sets the description.
ruckus(config-web-authentication)# grace-period Type: Privileged	<minutes>	Sets the grace period.
ruckus(config-web-authentication)# language Type: Privileged		Sets the language.
ruckus(config-web-authentication)# session-timeout Type: Privileged	<minutes>	Sets the session timeout as per the specified minutes.

Table 61. Commands related to ruckus (config-web-authentication)

Syntax and Type	Parameters (if any)	Description
ruckus(config-web-authentication)# start-page Type: Privileged	original redirect <start-url>	Sets the start page.

web-cert

Sets the web certification configurations, use the following command.

ruckus(config)# web-cert

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# web-cert
SZ100-Node1(config-web-cert)#
```

Related Commands

- Table 62 lists the related web-cert configuration commands.
- Table 63 lists the related web-cert-generate-csr configuration commands.

Table 62 lists the related web-cert configuration commands.

Table 62. Commands related to ruckus(config-web-cert)

Syntax and Type	Parameters (if any)	Description
ruckus(config-web-cert)# do Type: Privileged		Executes the do command.
ruckus(config-web-cert)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-web-cert)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-web-cert)# generate-csr Type: Privileged	<ftp-url>: FTP URL format is: ftp://<username>:<password>@ <ftp-host>[/<dir-path>]	Generates the certificate signing request.
ruckus(diagnostic)# help Type: Privileged		Displays the help.
ruckus(config-web-cert)# upload-cert Type: Privileged	<ftp-url>: FTP URL format is: ftp://<username>:<password>@ <ftp-host>[/<dir-path>]	Uploads the certificate.

Table 63 lists the related web-cert-generate-csr configuration commands.

Table 63. Commands related to ruckus(config-web-cert-generate-csr)

Syntax and Type	Parameters (if any)	Description
ruckus(config-web-cert-generate-csr)# citged	<city>	Sets the city.
ruckus(config-web-cert-generate-csr)# common-name Type: Privileged	<name>	Sets the domain name.
ruckus(config-web-cert-generate-csr)# country Type: Privileged	<country>	Sets the country.
ruckus(config-web-cert-generate-csr)# do Type: Privileged		Executes the do command.
ruckus(config-web-cert-generate-csr)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-web-cert-generate-csr)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-web-cert-generate-csr)# email Type: Privileged	<email>	Sets the email address.
ruckus(config-web-cert-generate-csr)# help Type: Privileged		Displays the help.
ruckus(config-web-cert-generate-csr)# organization Type: Privileged	<organization>	Sets the organization.
ruckus(config-web-cert-generate-csr)# state Type: Privileged	<state>	Sets the state.

Table 63. Commands related to ruckus(config-web-cert-generate-csr)

Syntax and Type	Parameters (if any)	Description
ruckus(config-web-cert-generate-csr)# unit Type: Privileged	<organization-unit>	Sets the organization unit.

wlan

To create or update the WLAN configurations, use the following command.

ruckus(config)# wlan <name>

Syntax Description

This command uses the following syntax:

<name>: WLAN name / ESSID

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# wlan wan1
```

Related Commands

Table 64 lists the related wlan configuration commands.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# access-network Type: Privileged		Enables tunnel WLAN traffic to the SZ.
ruckus(config-wlan)# acct-delay-time Type: Privileged		Enables the acct-delay time.
ruckus(config-wlan)# acct-interval Type: Privileged	<minutes>	Set the authentication service. Enables accounting interval to send interim updates.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# acct-service Type: Privileged	<name>	Sets the accounting service.
ruckus(config-wlan)# acct-service-use-proxy Type: Privileged		Set the accounting service: Uses the SZ as proxy.
ruckus(config-wlan)# acct-ttg-session Type: Privileged		Sets the accounting service. Enables accounting for TTG sessions.
ruckus(config-wlan)# auth-method Type: Privileged	<name>	Sets the authentication method.
ruckus(config-wlan)# auth-service Type: Privileged	<name>	Sets the authentication service.
ruckus(config-wlan)# auth-service-use-proxy Type: Privileged		Sets the authentication service. Enables accounting for TTG sessions.
ruckus(config-wlan)# auth-type Type: Privileged		Sets the authentication type.
ruckus(config-wlan)# bss-minrate Type: Privileged	[5.5mbps | 24mbps | 12mbps | 1mbps | 2mbps]	Sets the BSS minimum rate.
ruckus(config-wlan)# called-sta Type: Privileged		Sets the called STA ID.
ruckus(config-wlan)# client-fingerprinting Type: Privileged		Sets the client fingerprinting.
ruckus(config-wlan)# client-tx-rx-statistics Type: Privileged		Enables ignore statistics from unauthorized clients.
ruckus(config-wlan)# description Type: Privileged	<text>	Sets the description.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# device-policy Type: Privileged	[<Policy Name>]	Sets the device policy.
ruckus(config-wlan)# dgaf Type: Privileged		Disables downstream group-address frame forwarding.
ruckus(config-wlan)# dhcp-option-82 Type: Privileged		Enables DHCP option 82.
ruckus(config-wlan)# dhcp-option-82-format Type: Privileged	[ruckus-gre | soft-gre]	Enables DHCP option 82 format options.
ruckus(config-wlan)# disable-band-balancing Type: Privileged		Disables radio band balancing on WLAN.
ruckus(config-wlan)# disable-load-balancing Type: Privileged		Disables client load balancing on WLAN.
ruckus(config-wlan)# disable-wlan Type: Privileged		Disables this WLAN service.
ruckus(config-wlan)# dnlink-limit Type: Privileged		Sets the downlink rate limiting.
ruckus(config-wlan)# do Type: Privileged		Executes the do command.
ruckus(config-wlan)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-wlan)# enable-type Type: Privileged		Enables the WLAN service type.
ruckus(config-wlan)# enc-algorithm Type: Privileged		Sets the encryption algorithm.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# enc-method Type: Privileged		Sets the encryption method.
ruckus(config-wlan)# enc-passphrase Type: Privileged	<password>	Sets the encryption passphrase.
ruckus(config-wlan)# enc-wep-key Type: Privileged	<wep-key-index> <wep-key> WEP key (HEX), length should be 10 (WEP-64) or 26 (WEP-128)	Sets WEP key (HEX).
ruckus(config-wlan)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-wlan)# force-dhcp Type: Privileged	timeout <seconds> timeout: Sets the disconnect client timeout interval <seconds>: Sets the disconnect client timeout in intervals of 5 - 15 seconds	Sets the timeout for DHCP in seconds.
ruckus(config-wlan)# guest-access Type: Privileged	<name>	Sets the guest access service.
ruckus(config-wlan)# guest-access-auth-service Type: Privileged		Sets the authentication server.
ruckus(config-wlan)# help Type: Privileged		Displays the help.
ruckus(config-wlan)# hide-ssid Type: Privileged		Hides SSID in beacon broadcast.
ruckus(config-wlan)# hotspot Type: Privileged	<name>	Sets the hotspot service.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# hotspot2 Type: Privileged	<name>	Sets the hotspot 2.0 configuration.
ruckus(config-wlan)# inactivity-timeout Type: Privileged	<number>	Sets the inactivity timeout. Terminates idle user sessions after the specified seconds of inactivity.
ruckus(config-wlan)# l2-acl Type: Privileged	[<ACL Name>]	Sets the layer 2 access control list.
ruckus(config-wlan)# mac-802-11x-format Type: Privileged		Sets the MAC authentication. Sets the MAC address in 802.1X format.
ruckus(config-wlan)# mac-auth Type: Privileged	<password>	Sets the MAC authentication.
ruckus(config-wlan)# max-clients Type: Privileged	<number>	Sets the maximum clients. Allows clients per AP radio to associate with this WLAN. Range is between 1 and 512.
ruckus(config-wlan)# mgmt-tx-rate Type: Privileged	[5.5mbps | 48mbps | 6mbps | 2mbps | 36mbps | 1mbps | 18mbps | 12mbps | 54mbps | 9mbps | 11mbps | 24mbps]	Sets the management Tx rates.
ruckus(config-wlan)# no Type: Privileged	access-network acct-delay-time acct-service acct-service-use-proxy acct-ttg-session auth-service-use-proxy bss-minrate client-fingerprinting client-tx-rx-statistics	Disables or deletes the configurations that have been set. .....continued

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# no Type: Privileged	device-policy dgaf dhcp-option-82 disable-band-balancing disable-load-balancing disable-wlan dnlink-limit force-dhcp hide-ssid l2-acl mac-802-11x-format mac-auth ofdm-only onboarding-auth-service-use-proxy proxy-arp roam support-802-11d uplink-limit user-traffic-profile vlan-enabled wireless-client-isolation zero-it-activation zero-it-onboarding	Disables or deletes the configurations that have been set.
ruckus(config-wlan)# ofdm-only Type: Privileged		Enables OFDM only.
ruckus(config-wlan)# onboarding-auth-service Type: Privileged	<name>	Sets the onboarding authentication service.
ruckus(config-wlan)# onboarding-auth-service-use-proxy Type: Privileged		Sets the onboarding authentication service using the SZ proxy server.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# priority Type: Privileged		Sets the priority as either low or high.
ruckus(config-wlan)# proxy-arp Type: Privileged		Enables proxy ARP.
ruckus(config-wlan)# radius-nas-id Type: Privileged	<number>	Sets the RADIUS NAS ID.
ruckus(config-wlan)# radius-nas-max-retries Type: Privileged	<times>	Sets the maximum number of retries for RADIUS NAS.
ruckus(config-wlan)# radius-nas-reconnect-primary Type: Privileged	<minutes>	Sets the reconnection to the primary RADIUS NAS.
ruckus(config-wlan)# radius-nas-request-timeout Type: Privileged	<seconds>	Sets the RADIUS NAS request timeout.
ruckus(config-wlan)# radius-nas-type Type: Privileged		Sets the RADIUS NAS type.
ruckus(config-wlan)# roam Type: Privileged		Enables roaming.
ruckus(config-wlan)# roam-factor Type: Privileged	2.4g <value> 5g <value>	Sets the roam factor.
ruckus(config-wlan)# scheduler Type: Privileged	[<profile name>]	Sets the WLAN scheduler profile.
ruckus(config-wlan)# ssid Type: Privileged	<ssid>	Sets the WLAN SSID configuration.
ruckus(config-wlan)# support-802-11d Type: Privileged		Enables support for 802.11d.
ruckus(config-wlan)# uplink-limit Type: Privileged		Sets the uplink rate limiting.

Table 64. Commands related to ruckus(config-wlan)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan)# user-traffic-profile Type: Privileged		Sets the user traffic profile.
ruckus(config-wlan)# vlan-enabled Type: Privileged		Enables dynamic VLAN.
ruckus(config-wlan)# vlan-id Type: Privileged	<vlan-id>	Sets the VLAN ID.
ruckus(config-wlan)# web-authentication Type: Privileged	<name>	Sets the web authentication service.
ruckus(config-wlan)# wireless-client-isolation Type: Privileged		Sets the wireless client isolation.
ruckus(config-wlan)# zero-it-activation Type: Privileged		Enables zero-it activation (WLAN users are provided with wireless configuration installer after they log in).
ruckus(config-wlan)# zero-it-onboarding Type: Privileged		Enables zero-it device registration from the guest portal.

wlan-group

To create or update the WLAN group configurations, use the following command.

ruckus(config)# wlan-group <name>

Syntax Description

This command uses the following syntax:

<name>: WLAN group name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# wlan-group wan1
```

Related Commands

Table 65 lists the related wlan-group configuration commands.

Table 65. Commands related to ruckus(config-wlan-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan-group)# description Type: Privileged	<text>	Sets the description,
ruckus(config-wlan-group)# do Type: Privileged		Executes the do command.
ruckus(config-wlan-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-wlan-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-wlan-group)# help Type: Privileged		Displays the help.
ruckus(config-wlan-group)# no Type: Privileged	wlan <name>	Disables or deletes the configuration settings.

Table 65. Commands related to ruckus(config-wlan-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan-group)# wlan Type: Privileged	<name> vlan <vlanTag> nasid <nasid> <name> nasid <nasid> vlan <vlanTag> <name> vlan <vlanTag> <name> nasid <nasid> <name>	Sets a WLAN in this group, or overrides the VLAN setting.

wlan-scheduler

To create or update the WLAN scheduler configurations, use the following command.

ruckus(config)# wlan-scheduler <name>

Syntax Description

This command uses the following syntax:

<name>: WLAN scheduler name

Default

This command has no default settings.

Command Mode

Config

Example

```
SZ100-Node1(config)# wlan-scheduler wan1
```

Related Commands

Table 66 lists the related wlan-scheduler configuration commands.

Table 66. Commands related to ruckus (config-wlan-scheduler)

Syntax and Type	Parameters (if any)	Description
ruckus(config-wlan-scheduler)# description Type: Privileged	<text>	Sets the description,
ruckus(config-wlan-scheduler)# schedule-data Type: Privileged	${state} ${weekday} ${from} ${to}	Sets the schedule table.

Debug Commands

5

This chapter describes the commands that you can use to debug the SZ-100. The following table lists the commands.

Table 67. Debug commands

debug	ap-subnet-discovery	apcli	delete	diagnostic
do	end	exit	export log	help
no ap-subnet-discovery	no screen-pagination	no ssslv3	screen-pagination	show
sslv3				

debug

To execute commands in debug mode, you need to change the mode to:

ruckus(debug)#

Example

```
SZ100-Node1# debug
SZ100-Node1(debug)#
```

ap-subnet-discovery

To enable AP subnet discover service, use the following command:

ruckus(debug)# ap-subnet-discovery

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# ap-subnet-discovery
Shutting down Avahi daemon: [  OK  ]
Starting Avahi daemon... [  OK  ]
Successful operation
```

apcli

To run AP CLI debug script management, use the following command:

ruckus(debug)# apcli

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# apcli
SZ100-Node1(debug-apcli)#
```

Related Commands

Table 68 lists the related debug apcli configuration commands.

Table 68. Commands related to ruckus(debug-apcli)

Syntax and Type	Parameters (if any)	Description
ruckus(debug-apcli)# do Type: Privileged		Executes the do command.
ruckus(debug-apcli)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(debug-apcli)# execute Type: Privileged		Executes the API CLI script.
ruckus(debug-apcli)# exit Type: Privileged		Exits from the EXEC.
ruckus(debug-apcli)# help Type: Privileged		Displays the help.
ruckus(debug-apcli)# show Type: Privileged	diagnostic-script schedule	Shows the diagnostic script or the schedule script.
ruckus(debug-apcli)# show-execution-status Type: Privileged		Shows the script execution summary.
ruckus(debug-apcli)# upload Type: Privileged	<ftp-url>	Uploads the API CLI script from a remote FTP server.

delete

To delete a debug script that has been uploaded to the SZ, use the following command:

ruckus(debug)# delete <script-name>

Syntax Description

This command uses the following syntax:

script-name: Name of the debug script that you want to delete

Default

This command has no default settings.

Command Mode

privileged

Example

```
SZ100-Node1(debug)# delete spn-1test
```

diagnostic

To run debug diagnostic script management, use the following command:

ruckus(debug)# diagnostic

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# diagnostic
SZ100-Node1(debug-diagnostic)#
```

Related Commands

Table 69 lists the related debug diagnostic commands.

Table 69. Commands related to ruckus(debug-diagnostic)

Syntax and Type	Parameters (If Any)	Description
ruckus(debug-diagnostic)# delete Type: Privileged	<name>	Deletes a diagnostic script. Specify the script name.
ruckus(debug-diagnostic)# do Type: Privileged		Executes the do command.
ruckus(debug-diagnostic)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(debug-diagnostic)# execute Type: Privileged	<name> <params>	Executes a diagnostic script. Specify the script name.
ruckus(debug-diagnostic)# exit Type: Privileged		Exits from the EXEC.
ruckus(debug-diagnostic)# help Type: Privileged		Displays the help.
ruckus(debug-diagnostic)# no Type: Privileged	<schedule>	Disables the scheduled script.
ruckus(debug-diagnostic)# schedule Type: Privileged	<name>	Schedules a script to run with arguments.
ruckus(debug-diagnostic)# show Type: Privileged	diagnostic-script schedule	Shows the diagnostic or the schedule script. Specify the script name and its parameters.
ruckus(debug-diagnostic)# upload Type: Privileged	<ftp-url>: FTP URL format is: ftp://<username>:<password>@<ftp-host>/<file-path>	Uploads a diagnostic script from a remote FTP server.

do

To run the debug do command:

ruckus(debug)# do

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# do
```

end

To end the current configuration session and returns to privileged exec mode, use the following command:

ruckus(debug)# end

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# end
```

exit

To exit from the exec mode, use the following command:

ruckus(debug)# exit

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# exit
```

export log

To export the local system logs to external FTP server, use the following command:

ruckus(debug)# export log <ftp-url> <ftp-url> app <name>

Syntax Description

This command uses the following syntax:

<ftp-url> - FTP URL, Format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]]

app: Application

<name>: Application name

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# export log ftp://mahan:ruckus1!@172.19.7.100
```

help

To display the command line interface help, use the following command:

ruckus(debug)# help

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# help
```

no ap-subnet-discovery

To disable the AP subnet discovery service, use the following command:

ruckus(debug)# no ap-subnet-discovery

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# no ap-subnet-discovery
```

no screen-pagination

To disable the screen pagination, use the following command:

ruckus(debug)# no screen-pagination

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# no screen-pagination
```

no ssslv3

To disable the SSLv3 support, use the following command:

ruckus(debug)# no sslv3

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# no sslv3
```

screen-pagination

To enable the screen pagination, use the following command:

ruckus(debug)# screen-pagination

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# screen-pagination
```

show

To enable the screen pagination, use the following command:

ruckus(debug)# screen-pagination <ap-subnet-discovery-status > | <sslv3-state>

Syntax Description

This command uses the following syntax:

ap-subnet-discovery-status: Shows the AP subnet discovery service status

sslv3-state: Shows the SSLv3 support state

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# show ap-subnet-discovery-status
enabled 1

SZ100-Node1(debug)# show sslv3-state
SLv3 support: disabled
```

sslv3

To enable the SSLV3 support, use the following command:

ruckus(debug)# sslv3

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Debug

Example

```
SZ100-Node1(debug)# sslv3
Successful operation
```

Setup Commands

6

This chapter describes the commands that you can use Sets up the SZ-100 commands covered include:

- rbddump
- setup

rbddump

To display the board data of the SZ, use the following command:

ruckus# rbddump

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# rbddump
name:      Gallus
magic:     35333131
cksum:     b19
rev:       5.4
Serial#:   531336000194
Customer ID: ruckus
Model:     sz124
V54 Board Type: Undef
V54 Board Class: AP71
Random#:   0000 0000 0000 0000 0000 0000 0000 0000
symimgs:   no
ethport:   0
V54 MAC Address Pool:  yes, size 32, base 24:C9:A1:3F:06:10
```

```
major:     0
minor:     0
pciId:     0000
dblade0:     yes 24:C9:A1:3F:06:20
dblade1:     yes 24:C9:A1:3F:06:28
eth0:      yes 24:C9:A1:3F:06:10
eth1:      yes 24:C9:A1:3F:06:11
eth2:       -  24:C9:A1:3F:06:12
eth3:       -  24:C9:A1:3F:06:13
eth4:       -  24:C9:A1:3F:06:14
eth5:       -  24:C9:A1:3F:06:15
uart0:     no
sysled:    no, gpio 0
sysled2:   no, gpio 0
sysled3:   no, gpio 0
sysled4:   no, gpio 0
Fixed Ctry Code:  no
Antenna Info:  no, value 0x00000000
Local Bus:  disabled
factory:   yes, gpio 8
serclk:    internal
cpufreq:   calculated 0 Hz
sysfreq:   calculated 0 Hz
memcap:    disabled
watchdg:   enabled
```

setup

Sets up the SZ network interface settings, use the following command:

ruckus# setup

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ# setup
Stopping crond: [  OK  ]

##################################################
Start SZ104 setup process:
##################################################

************************************
Port Grouping Configuration
************************************
1. One Port Group
    [ETH 1-4] Management/AP Tunnel Traffic

2. Two Port Group
    [ETH 1-2] Port Group 1: Management & AP Control
    [ETH 3-4] Port Group 2: AP Tunnel Data
************************************
Select Port Grouping Configuration (1/2) [1]2
Current network settings:

************************************
Port Group 1: Management & AP Control:
************************************
IP TYPE              :
IP Address           :
Netmask              :
Gateway              :
Default Gateway      :
************************************

************************************
IP address setup for Port Group 1: Management & AP Control
************************************
1. MANUAL
2. DHCP
************************************
Select IP configuration: (1/2) 2
```

```
************************************
Port Group 1: Management & AP Control:
************************************
IP Address           : 182.21.160.67
Netmask              : 255.255.255.240
Gateway              : 182.21.160.65
************************************
Are these correct? (y/n): y
Execute networking configuration of Port Group 1: Management & AP
Control!
Save networking configuration of Port Group 1: Management & AP
Control!
Primary DNS: 4.2.2.2
Secondary DNS: 172.19.0.5

************************************
IP address setup for Port Group 2: AP Tunnel Data
************************************
1. MANUAL
2. DHCP
************************************
Select IP configuration: (1/2) 2

************************************
Interface            : DataPlane0
Type                 : dhcp
************************************
Are these correct? (y/n): y
Execute dataplane networking configuration of Port Group 2: AP
Tunnel Data!
Save dataplane networking configuration of Port Group 2: AP Tunnel
Data!
(C)reate a new cluster or (J)oin an exist cluster: (c/j) c
Cluster Name ([a-zA-Z0-9_-]): ruckController Description: SZ104 for
FT
```

Show Commands

7

This chapter describes the commands that you can use to view information about the various components of SZ-100. The following table lists the various show commands.

NOTE: Use the "`do show`" command to use show commands in either user or privileged mode.

Table 70. Show commands

show admin-activity	show alarm	show ap	show ap-stats	show backup
show backup-config	show backup-config-state	show backup-network	show backup-state	show backup-upgrade-state
show client	show clock	show cluster	show cluster-node	show cluster-state
show control-plane-stats	show cpuinfo	show dhcp-relay-stats	show diskinfo	show event
show history	show interface	show internal-subnet	show ip	show license
show meminfo	show ntp	show radius-proxy-stats	show report-result	show rogue-aps
show running-config	show service	show upgrade-history	show upgrade-state	show version

show admin-activity

To view the activities of an administrator account, use the following command:

ruckus# show admin-activity

Syntax Description

This command uses the following syntax:

admin <username>

admin: Filtered by user

<username>: User name

ip <ip>

ip: Filtered by browser IP

<ip>: Browser IP

resource <resource> <action>

resource: Filtered by resource

<resource>: Resource

<action>: Resource action

datetime <from-time> <to-time>

datetime: Filtered by datetime

<from-time>: From time

<to-time>: To time

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show admin-activity SZ_admin
No.   Datetime                Administrator  Browser IP
Action       Resource         Description
----- ------------------------ -------------- -------------------
1    2014-09-11 17:27:33 GMT  admin        172.19.10.9
Log on        Administrator       Administrator [admin] logged on
from CLI
```

```
  2    2014-09-11 16:53:26 GMT  admin        172.19.10.9
Log on         Administrator       Administrator [admin] logged on
from CLI

  3    2014-09-11 16:52:41 GMT  admin        172.19.10.9
Create      System         System configuration backup created.

  4    2014-09-11 16:51:27 GMT  admin        172.19.10.9
Log on         Administrator       Administrator [admin] logged on
from CLI
```

show alarm

To see the outstanding access point alarms, use the following command:

ruckus# show alarm

Syntax Description

This command uses the following syntax:

category <alarm-category>

category: Filtered by alarm category

<alarm-category>: Alarm category

control-plane <name>

control-plane: Control Plane

<name>: Plane name

data-plane <name>

data-plane: Data Plane

<name>: Plane name

ap-mac <value>

ap-mac: AP MAC address

<value>: Filter Value

status [outstanding | cleared]

status: Filtered by Status

outstanding: Outstanding

cleared: Cleared

ack-time <ack-from-time> <ack-to-time>

ack-time: Filtered by Acknowledge Time

<ack-from-time>: From time

<ack-to-time>: To time

datetime <from-time> <to-time>

datetime: Filtered by Datetime

<from-time>: From time

<to-time>: To time

severity [minor | info | major | critical | warn]

severity: Filtered by Severity

minor: Minor

info: Informational

major: Major

critical: Critical

warn: Warning

type <alarm-type>

type: Filtered by Type

<alarm-type>: Alarm type

Default

This command has no default settings.

Command Mode

privileged

Example

```
SZ30# show alarm category session control-plane indus7-c
```

show ap

To display details about a particular access point, use the following command:

ruckus# show ap <mac> <mac> mesh [downlinks | neighbors | topology]

Syntax Description

This command uses the following syntax:

show ap: Displays a list of MAC addresses of managed access points

show ap <mac>: Displays information about the access point with the MAC address you specified

show <mac> mesh [downlinks | neighbors | topology]: Displays the following information:

<mac>: AP MAC address

mesh: AP Mesh stats

downlinks: Show AP Mesh downlinks

neighbors: Show AP Mesh neighbors

topology: Show AP Mesh topology

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show ap
1: 00:0C:29:02:7C:E1
2: 00:0C:29:01:B7:E1

SZ30# show ap 00:0C:29:02:7C:E1
General Information
----------------------------------
AP MAC Address : 00:0C:29:02:7C:E1
AP Name : Sim-10191
Description :
Serial Number : 870731467648
Location :
GPS Coordinates : 40.831,-76.457
Firmware Version : 9.4.0.2.81
IP Address : 4.112.40.32
External IP Address : 10.2.4.112:54188
Model : ZF7343
Mesh Role (Hops) : Disabled

Status Summary
----------------------------------
Connection Status : Connect
Uptime : 21d 5h 6m
Configuration Status: Up-to-date
AP Zone : sim-zone-10
```

```
Control Plane : SZ186
Data Plane :
Associated Clients : 4

Sensor Information
-----------------------------------
Sensor Available : Disabled
Mounting Direction :
Current Temperature :
Highest Temp Since Bootup :
Lowest Temp Since Bootup :
```

show ap-stats

To display the AP statistics, use the following command:

ruckus# show ap-stats

Syntax Description

This command uses the following syntax:

<mac> type [ap-traffic | client-count | client-association] ap period [30-d | 8-h | 24-h | 7-d]

- <mac>: AP MAC address
- type: Statistics data type
- ap-traffic: AP Traffic
- client-count: Client count
- client-association: Client associations
- ap: Per AP
- period: Statistics period
- 30-d: 30 days
- 8-h: 8 hours
- 24-h: 24 hours
- 7-d: 7 days

<mac> type [ap-traffic | client-association | client-count] radio [2.4g | 5g] period [8-h | 30-d | 7-d | 24-h]

- <mac>: AP MAC address
- type: Statistics data type

ap-traffic: AP Traffic

client-association: Client associations

client-count: Client count

radio: Per Radio

2.4g: 2.4 GHz radio

5g: 5 GHz radio

period: Statistics period

8-h: 8 hours

30-d: 30 days

7-d: 7 days

24-h: 24 hours

<mac> type [client-association | client-count | ap-traffic] wlan <ssid> period [30-d | 24-h | 8-h | 7-d]

<mac>: AP MAC address

type: Statistics data type

client-association: Client associations

client-count: Client count

ap-traffic: AP Traffic

wlan: WLAN

<ssid>: WLAN SSID

period: Statistics period

30-d: 30 days

24-h: 24 hours

8-h: 8 hours

7-d: 7 days

<mac> type [client-association | client-count | ap-traffic] wlan <ssid> radio [2.4g | 5g] period [7-d | 24-h | 8-h | 30-d]

<mac>: AP MAC address

type: Statistics data type

client-association: Client associations

client-count: Client count

ap-traffic: AP Traffic

wlan: WLAN
<ssid>: WLAN SSID
radio: Per Radio
2.4g: 2.4 GHz radio
5g: 5 GHz radio
period: Statistics period
7-d: 7 days
24-h: 24 hours
8-h: 8 hours
30-d: 30 days

<mac> type client-os
<mac>: AP MAC address
type: Statistics data type
client-os: Client OS types

<mac> type client-os wlan <ssid>
<mac>: AP MAC address
type: Statistics data type
client-os: Client OS types
wlan: WLAN
<ssid>: WLAN SSID

<mac> type rks-gre period [7-d | 30-d | 8-h | 24-h]
<mac>: AP MAC address
type: Statistics data type
rks-gre: Ruckus GRE tunnel usage
period: Statistics period
7-d: 7 days
30-d: 30 days
8-h: 8 hours
24-h: 24 hours

<mac> type air-time radio [2.4g | 5g] period [8-h | 30-d | 7-d | 24-h]
<mac>: AP MAC address
type: Statistics data type

air-time: Air Time

radio: Per Radio

2.4g: 2.4 GHz radio

5g: 5 GHz radio

period: Statistics period

8-h: 8 hours

30-d: 30 days

7-d: 7 days

24-h: 24 hours

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show ap-stats A1:87:45:34:56:FE
```

show backup

To display a list of available system backup versions, use the following command:

ruckus# show backup

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup
No.  Created on          Patch Version        File Size
----- ---------------------------- -------------------------
 1  2014-07-16 22:47:04 GMT   3.0.0.0.277       837.9MB
 2  2014-07-26 16:23:00 GMT   3.0.0.0.308       895.2MB
```

```
 3  2014-07-26 19:45:17 GMT   3.0.0.0.308       892.9MB
 4  2014-08-01 18:00:38 GMT   3.0.0.0.327       938.9MB
 5  2014-08-02 17:02:09 GMT   3.0.0.0.327       920.4MB
 6  2014-08-12 14:25:52 GMT   3.0.0.0.338       998.2MB
 7  2014-08-27 15:05:05 GMT   3.0.0.0.351        1GB
 8  2014-09-04 12:19:54 GMT   3.0.0.0.371       1.1GB
9 2014-09-10 18:37:55 GMT 3.0.0.0.394 1.1GB
idx version date
-----------------------------------------
1 1.1.0.0.207 2012-10-16 06:46:07 GMT
2 1.1.0.0.209 2012-10-17 05:20:51 GMT
```

show backup-config

To display a list of available configuration backup versions, use the following command:

ruckus# show backup-config

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup-config
No.   Created on                  Version        CP Version
DP Version     Created By  Backup Elapsed  File Size
----- --------------------------- -------------- -------------
  1    2014-09-11 16:52:41 GMT    3.0.0.0.401    3.0.0.0.1164
3.0.0.0.130    admin       1               249.8KB

  2    2014-07-22 15:30:43 GMT    3.0.0.0.308    3.0.0.0.863
3.0.0.0.94     admin       1               156.5KB

  3    2014-07-17 21:28:50 GMT    3.0.0.0.308    3.0.0.0.863
3.0.0.0.94     admin       1               153.9KB
```

```
  4    2014-07-15 13:02:58 GMT    3.0.0.0.277   3.0.0.0.769
3.0.0.0.82     admin       1               110KB

  5    2014-07-11 16:00:27 GMT    3.0.0.0.277   3.0.0.0.769
3.0.0.0.82     admin       1               107.8KB
```

show backup-config-state

To display the status of the available configuration backup, use the following command:

ruckus# show backup-config-state

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup-config-state
Operation :  Successful
Progress Status :  Completed
```

show backup-network

To display backup network configuration versions, use the following command:

ruckus# show backup-network

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup-network
No.  Created on          Patch Version        File Size
----- ---------------------------- --------------------------
   1     2014-09-11 16:53:26 GMT       3.0.0.0.401 1.2KB
```

show backup-state

To display the system backup state, use the following command:

ruckus# show backup-state

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup-state
No running configuration
```

show backup-upgrade-state

To display the system backup system backup and upgrade state, use the following command:

ruckus# show backup-upgrade-state

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show backup-upgrade-state
No running configuration
```

show client

To display current AP associated client sessions, use the following command:

ruckus# show client <client-mac>

Syntax Description

This command uses the following syntax:

<client-mac>: Client MAC IP address

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show client 00:03:00:15:40:08
General Information
-----------------------------------
STA MAC Address : 00:03:00:15:40:08
IP Address : 1.21.64.8
User Name :
```

```
Auth Method : NONE
Encryption Method :
Connected Since :
OS Type :
Host Name :
Status : Unauthorized
AP Zone : Antonio-Sim
Access Point : Sim-21
-----------------------------------
Channel : 0
VLAN : 1
SNR (dB) : 32
Packets from Client : 0
Bytes from Client : 67.3K
Packets to Client : 0
Bytes to Client : 134.6K
Dropped Packets to Client : 427.9K
# of Events
Critical : 0
Major : 0
Minor : 0
Warning : 0
Informational : 0
```

show clock

To display the current GMT date and time, use the following command:

ruckus# show clock

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show clock
2014-09-11 17:47:34 GMT
```

show cluster

To display the system cluster settings, use the following command:

ruckus# show cluster

Syntax Description

This command uses the following syntax:

<name>: Name of the cluster
<ip-list>: Cluster node IP list

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show cluster 172.17.22.11
```

show cluster-node

To display the cluster node status, use the following command:

ruckus# show cluster-node <name>

Syntax Description

This command uses the following syntax:

<name>: Name of the node

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show cluster-node ez1
```

show cluster-state

To display the system cluster state, use the following command:

ruckus# show cluster-state

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show cluster-state
Current Node Status : In service
Cluster Status      : In service
Cluster Operation   : None
System Mode         : None
Cluster Node Information
-------------------------------------------------------------
   No.   Name                      Role
   ----- ------------------------- -----------
   1     NTeja1-C                  LEADER
```

show control-plane-stats

To display control plane status, use the following command:

ruckus# show control-plane-stats <name>

Syntax Description

This command uses the following syntax:

<name> type [memory | disk | cpu] period [7-d | 30-d | 24-h | 8-h]

<name>: Controlplane name

type: Statistics data type

memory: Memory usage

disk: Disk usage

cpu: CPU usage

period: Statistics period

7-d: 7 days

30-d: 8 hours

24-h: 24 hours

8-h: 8 hours

<name> type port <name> period [8-h | 30-d | 24-h | 7-d]

<name>: Controlplane name

type: Statistics data type

port: Port usage

<name>: Port name

period: Statistics period

8-h: 8 hours

30-d: 30 days

24-h: 24 hours

7-d: 7 days

<name> type interface <type> period [24-h | 7-d | 8-h | 30-d]

<name>: Control Plane name

type: Statistics data type

interface: Interface usage

<type>: Interface type

period: Statistics period

24-h: 24 hours

7-d: 7 days

8-h: 8 hours

30-d: 30 days

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show control-plane-stats indus7-c
```

show cpuinfo

To display the current CPU usage status, use the following command:

ruckus> show cpuinfo

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show cpuinfo
processor       : 0
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 1
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 2
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 3
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 4
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 5
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 6
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
processor       : 7
model name      : Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz
Cpu(s): 51.0%us,  0.2%sy,  0.0%ni, 48.1%id,  0.8%wa,  0.0%hi,
0.0%si,  0.0%st
```

show dhcp-relay-stats

To display a list of DHCP relay statistics, use the following command:

ruckus# show dhcp-relay-stats

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show dhcp-relay-stats
```

show diskinfo

To display the current disk usage on the SmartZone, use the following command:

ruckus> show diskinfo

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show diskinfo
Filesystem            Size  Used Avail Use% Mounted on
/dev/sda3              20G  2.1G   17G  12% /
/dev/mapper/vg00-lv00 242G   22G  208G  10% /data
tmpfs                 1.0G  812K  1.0G   1% /tmp
/dev/sda1             9.9G  151M  9.2G   2% /boot_mbr
```

show event

To see events based on staging zones, use the following command:

ruckus# show event

Syntax Description

This command uses the following syntax:

category <event-category>

category: Filtered by event category

<event-category>: Event category

control-plane <name>

control-plane: Control Plane

<name>: Plane name

data-plane <name>

data-plane: Data Plane

<name>: Plane name

ap-mac <value>

ap-mac: AP MAC address

<value>: Filter Value

<client-mac>

<client-mac>: Client MAC address

datetime <from-time> <to-time>

datetime: Filtered by Datetime

<from-time>: From time

<to-time>: To time

severity [minor | warn | debug | major | critical | info]

severity: Filtered by Severity

minor: Minor

warn: Warning

debug: Debug

major: Major

critical: Critical

info: Informational

type <event-type>

type: Filtered by Type

<event-type>: Event type

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show event A1:87:45:34:56:FE
```

show history

To display a list of CLI commands that have recently been executed, use the following command:

ruckus# show history

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show history
0.  en
1.  config
2.  helop
3.  help
4.  exit
5.  help
6.  ping host
7.  ping 172.19.10.9
8.  setup
9.  show clock
10.  show cpuinfo
11.  show diskinfo
```

```
12.  show meminfo
13.  show version
```

show interface

To display the interface runtime status, use the following command:

ruckus# show interface

Syntax Description

This command uses the following syntax:

cluster

cluster: Cluster interface

control

control: Control interface

management

management: Management interface

mgmt-or-ap-tunnel

mgmt-or-ap-tunnel: Management/AP Tunnel Traffic

mgmt-and-ap-control

mgmt-and-ap-control: Management & AP Control

ap-tunnel-data

ap-tunnel-data: AP Tunnel Data

user-defined

user-defined: User defined interface

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show interfaces
====================================================
Interfaces
------------------------------------------------------------
   Interface     : Management & AP Control
   IP Mode       : Static
```

```
IP Address    : 172.19.10.9
Subnet Mask   : 255.255.0.0
Gateway       : 172.19.10.254

Interface     : AP Tunnel Data
IP Mode       : Static
IP Address    : 121.0.0.5
Subnet Mask   : 255.255.255.0
Gateway       : 121.0.0.1

Primary DNS Server        : 172.19.0.5
Secondary DNS Server      : 4.2.2.2

User Defined Interfaces
-------------------------------------------------------------
IP Address           : 172.19.10.91
Subnet Mask          : 255.255.0.0
Gateway              :
VLAN                 : 1
Physical Interface   : Control
```

show internal-subnet

To display the runtime internal subnet prefix, use the following command:

ruckus# show internal-subnet

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show internal-subnet
Internal Subnet Prefix: 10.254.1
```

show ip

To display information about SmartZone static route, use the following command:

ruckus# show ip <route static>

Syntax Description

This command uses the following syntax:

route: IP routing table

static: Static routes

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show ip route static
Static Routes
-------------------------------------------------------------
No.   Network Address     Subnet Mask        Gateway
Interface           Metric
----- ------------------- ------------------- ----------------
1     10.1.31.0           255.255.255.0       172.19.9.1
Control             0
```

show license

To display information about the current SmartZone license, use the following command:

ruckus# show license

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show license
License Summary
-------------------------------------------------------------
No.   License Type              #of Units Total          #of
Units Consumed       #of Units Available
- ------------------------ ----------------------- ---------
   1     WiFi Controller License   50                      1
(2%)                   49 (98%)
   2     AP Direct Tunnel License  10                      0
(0%)                   10 (100%)
-------------------------------------------------------------
   License Information
-------------------------------------------------------------
   Copy/paste this URL to activate your product today.
   https://support.ruckuswireless.com/activate

   Installed Licenses
-----------------------------------------------------------------------------------------
  No.  SZ Node     Feature       Capacity Description
Start Date                   Status  Expiration Date
----- -------------- ----------------- --------- --------------
1     NTeja1         CAPACITY-RXGW-DE  10        Default AP
Direct Tunnel Lic  2014-08-12 GMT         valid  Permanent
FAULT ense for SZ100
```

show meminfo

To view the current memory usage status, use the following command:

ruckus> show meminfo

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Enable

Example

```
SZ30# show meminfo
MemTotal: 32775708 kB
MemFree: 13928668 kB
Buffers: 181264 kB
Cached: 785124 kB
SwapCached: 0 kB
total used free shared    buffers     cached
Mem: 32775708   18847040   13928668 0 181264     785124
-/+ buffers/cache:   17880652 14895056
Swap: 4194296 0    4194296
```

show ntp

To view the NTP status, use the following command:

ruckus# show ntp <associations>

Syntax Description

This command uses the following syntax:

associations: NTP peer status.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show ntp associations
remote       refid    st t when poll reach  delay  offset  jitter
==============================================================
 123.108.200.163 .INIT.         16 u    - 1024    0    0.000
0.000   0.000
*LOCAL(0)        .LOCL.         12 l   18   64  377    0.000
0.000   0.000
```

show radius-proxy-stats

To view statistics of RADIUS proxy on SmartZone, use the following command:

ruckus# show radius-proxy-stats

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show radius-proxy-stats
No.   MVNO Account   Control Plane  AAA IP            Created
On                 Last Modified On NAS Type      Auth
Accounting  ACCESS Request  ACCESS Challenge  ACCESS Accept
ACCESS Reject  Account Request  Accounting Response  CoA (AAA)
DM (AAA)    DM (NAS)    Dropped requests due to rate Limiting
(Auth/Acc)  AP Accounting  AP Accounting Request/Response  CoA
(NAS)   CoA Autz Only
------------ ----------- --------------
1     Super INDUS7-C 104.0.0.10 2014-04-18 11:22:18 GMT 2014-
04-24 13:33:17 GMT Ruckus AP 76/0/0 59/11 112/112 0/0 76/76
0/0 178/178 118/118 0/0/0 0/0/0 0/0/0 12/65 59/12 178/118 0/0/
0 0/0/0
```

show report-result

To view report results or to view a specific report, use the following command:

ruckus# show report-result <report-title>

Syntax Description

This command uses the following syntax:

report-title: Report title

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show report-result report1
No.Date and Time Title Report Template Result Links Status Time
Taken
---------- ------------- ------------------------------------
1 2014-04-25 09:02:26 GMT Report1Client Number CSV Success 43ms
2 2014-04-25 00:00:02 GMT Report1 Client Number CSV Success  19ms
3 2014-04-24 00:00:02 GMT Report1 Client Number CSV Success  23ms
4 2014-04-23 00:00:02 GMT Report1 Client Number CSV Success  20ms
```

show rogue-aps

To view the rouge access points, use the following command:

ruckus# show rouge-aps rogueMac ${rogueMac}

ruckus# show rouge-aps type [MaliciousAP(SSID-spoof) | Ad-hoc | Rogue | MaliciousAP(Same-Network) | MaliciousAP(MAC-spoof) | RogueAPtimeout]

Syntax Description

This command uses the following syntax:

rogueMac ${rogueMac}

rogueMac: Rogue Mac

${rogueMac}:

type [MaliciousAP(SSID-spoof) | Ad-hoc | Rogue | MaliciousAP(Same-Network) | MaliciousAP(MAC-spoof)]

type: Rogue Type

MaliciousAP(SSID-spoof): Malicious AP (SSID-spoof)

Ad-hoc: Ad-hoc

Rogue: Rogue

MaliciousAP(Same-Network): Malicious AP (Same-Network)

MaliciousAP(MAC-spoof): Malicious AP (MAC-spoof)

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show rogue-aps type type
No data found
```

show running-config

To view the current system configuration, use the following commands:

ruckus# show running-config

Syntax Description

This command uses the following syntax:

ap <mac>

ap: Show AP configurations

<mac>: AP MAC IP address

ap-heartbeat

ap-heartbeat:

ap-auto-tagging

ap-auto-tagging: Show critical AP auto tagging rules configurations

ap-cert-check

ap-cert-check:

ap-root-ca

ap-root-ca:

dhcp-service <name>

dhcp-service:

<name>: DHCP service name

lbs-service <name>

lbs-service:

<name>: LBS service name

sms-server

sms-server: Enable SMS server configurations

admin <username>

admin:

<username>: User name

admin-radius <name>

admin-radius:

<name>: RADIUS server name

role <name>

role:

<name>: Role name

user-role <name>

user-role:

<name>: User role name

cluster-node <name>

cluster-node: Show cluster node configurations

<name>: Cluster node name

cluster-node <name> ip route static

cluster-node: Show cluster node configurations

<name>: Cluster node name

ip: Show cluster node IP configurations

route: Show cluster node routing configurations

static: Show static routes

cluster-node <name> interface user-defined <name>

cluster-node: Show cluster node configurations

<name>: Cluster node name

interface: Show interface configurations

user-defined: Show user defined interface configurations

```
    <name>: User defined interface name
cluster-node <name> interface ${ifName}
    cluster-node: Show cluster node configurations
    <name>: Control plane name
    interface: Show interface configurations
    ${ifName}:
snmp-trap
    snmp-trap:
snmp-v2-community <snmp-community>
    snmp-v2-community: Show SNMPv2 community configurations
    <snmp-community>: SNMPv2 community
event
    event: Show Events configurations
event ${eventCode}
    event:
    ${eventCode}:
event email
    event:
    email:
snmp-v3-user <snmp-user>
    snmp-v3-user: Show SNMPv3 user configurations
    <snmp-user>: SNMPv3 User
interface ${ifName}?
    interface:
    ${ifName}?:
interface user-defined <name>
    interface:
    user-defined: Show user defined interface configurations
    <name>: User defined interface name
ip route static
    ip: Show control plane IP configurations
    route: Show control plane routing configurations
    static: Show static routes
```

internal-subnet

internal-subnet: Show internal subnet prefix

proxy-aaa <name>

proxy-aaa: Show proxy AAA server configurations

<name>: Proxy AAA server name

user-traffic-profile <name>

user-traffic-profile:

<name>: User traffic profile name

ntp-server

ntp-server:

lineman

lineman:

smtp-server

smtp-server

ftp-server <name>

ftp-server:

<name>: FTP name

syslog-server

syslog-server:

northbound-portal

northbound-portal: Show northbound portal interface configurations

web-cert

web-cert:

ap-portal-cert

ap-portal-cert:

user-agent-blacklist <name>

user-agent-blacklist: Show user agent black list configurations

<name>: User agent black name

lwapp2scg

lwapp2scg: Show LWAPP2SCG configuration

encrypt-mac-ip

encrypt-mac-ip:

ap-control-mgmt-tos

ap-control-mgmt-tos:
license
license:
report <report-title>
report:
<report-title>: Report title
non-proxy-aaa <name>
non-proxy-aaa: Show non proxy AAA server configurations
<name>: Non proxy AAA server name
hotspot <name>
hotspot: Show WISPr (hotspot) configurations
<name>: WISPr (hotspot) name
guest-access <name>
guest-access: Show guest access configurations
<name>: Guest access name
web-authentication <name>
web-authentication: Show web authentication configurations
<name>: Web authentication name
wlan-scheduler <name>
wlan-scheduler: Show WLAN scheduler profile configurations
<name>: WLAN scheduler name
wlan <name>
wlan: Show WLAN configurations
<name>: WLAN name
ap-group <name>
ap-group: Show AP group configurations
<name>: AP group name
wlan-group <name>
wlan-group: Show WLAN group configurations
<name>: WLAN group name
common-settings
common-settings: Show wireless network common configurations
common-settings [ap-model | ap-tunnel-settings | ap-sci]

common-settings: Show wireless network common configurations
ap-model: Show AP model setting
ap-tunnel-settings: Show AP tunnel settings
ap-sci: Show AP SCI
common-settings [ap-model | ap-tunnel-settings | ap-sci] ${apModel}?
common-settings: Show wireless network common configurations
ap-model: Show AP model setting
ap-tunnel-settings: Show AP tunnel settings
ap-sci: Show AP SCI
${apModel}?:
bonjour-gateway
bonjour-gateway: Show bonjour gateway
bonjour-policy <name>
bonjour-policy: Show bonjour policy
<name>: Policy name
ap-list
ap-list: Show AP configurations list
hotspot-v2-sp <name>
hotspot-v2-sp: Show hotspot 2.0 service provider profile configurations
<name>: Service provider profile name
hotspot-v2-op <name>
hotspot-v2-op: Show hotspot 2.0 operator profile configurations
<name>: Operator profile name
device-policy <name>
device-policy: Show device policy
<name>: Policy name
l2-acl <name>
l2-acl: Show Layer 2 Access Control list
<name>: ACL name

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show running-config license
   License Server Configuration
  ------------------------------------------------------------
   Cloud License Server : Enabled

SZ30# show running-config user-role
  No.  User Role Name           Description
   ----- ------------------------------- ----------------------
    1     Default Allow Access to All WLANs

SZ30# show running-config user-traffic-profile
  No.  Name                  Default Action Description
   ----- ----------------------------- -------------------------
    1     Factory Default Allow The default UTP package
```

show service

To view the system service state, use the following command:

ruckus# show service

Syntax Description

This command uses the following syntax:

name: System service name

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show service
No.  Application Name      Health Status   Log Level   # of Logs
----- ------------------------ ------------------ ------------- ---
  1    API                  Online         WARN        2
  2    AUT                  Online         WARN        1
  3    CNR                  Online         DEBUG       10
```

```
4    CaptivePortal        Online        WARN       2
5    Cassandra            Online                   3
6    Communicator         Online        DEBUG      11
7    Configurer           Online        DEBUG      22
8    Diagnostics                                   1
9    ElasticSearch        Online                   15
10   EventReader          Online        WARN       2
11   Greyhound            Online        WARN       2
12   MemProxy             Online        WARN       1
13   Memcached            Online                   1
14   Monitor              Online        DEBUG      6
15   Mosquitto            Online                   0
16   Mqttclient           Online        WARN       12
17   NC                   Online        WARN       5
18   Northbound           Online        DEBUG      4
19   RadiusProxy          Online        WARN       4
```

show upgrade-history

To display system upgrade history, use the following command:

ruckus# show upgrade-history

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show upgrade-history
No.  Start time SmartZone System Version  Control Plane version
Data Plane version  AP Firmware version  File name Elapsed
----- ------------------------ ------------------------- -----
   1     2014-09-10 18:43:01 GMT  3.0.0.0.394->3.0.0.0.401
3.0.0.0.1156->3.0.0.0.1 3.0.0.0.128->3.0.0 3.0.0.0.260->3.0.0.
SZ-installer_3.0  17m 47s 164 .0.130          0.266
.0.0.401.ximg
```

```
   2     2014-09-04 12:24:13 GMT  3.0.0.0.371->3.0.0.0.394
3.0.0.0.1072->3.0.0.0.1 3.0.0.0.122->3.0.0 3.0.0.0.244->3.0.0.
SZ-installer_3.0  19m 10s 156                  .0.128
0.260                .0.0.394.ximg

   3     2014-08-27 15:09:09 GMT  3.0.0.0.351->3.0.0.0.371
3.0.0.0.996->3.0.0.0.10 3.0.0.0.114->3.0.0 3.0.0.0.232->3.0.0.
SZ-installer_3.0  18m 32s 72 .0.122           0.244
.0.0.371.ximg

   4     2014-08-12 14:30:24 GMT  3.0.0.0.338->3.0.0.0.351
3.0.0.0.952->3.0.0.0.99 3.0.0.0.106->3.0.0 3.0.0.0.216->3.0.0.
SZ-installer_3.0  38m 15s
```

show upgrade-state

To display the system upgrade state, use the following command:

ruckus# show upgrade-state

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ30# show upgrade-state
```

show version

To view the SmartZone version, use the following command:

ruckus# show version

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Enable

Example

```
SZ30# ruckus> show version
Model                           : SZ124
Serial #                        :   531336000194
SZ Version                      : 3.0.0.0.530
Control Plane Software Version  : 3.0.0.0.1496
Data Plane Software Version     : 3.0.0.0.157
AP Firmware Version             : 3.0.0.0.360
```

System Commands

8

This chapter describes the commands that you can use to configure administrative and system settings on the SmartZone. The following table list the system commands.

Table 71. System commands

?	backup	backup config	backup network	backup-upgrade
cluster in-service	config	copy	copy backup	copy backup-config
copy backup-network	copy client	copy report-result	delete backup	delete backup-config
delete backup-network	delete client	diagnostic	enable	enable <new-password>
exit	help	logout	no service	ping
reload	reload ap	reload now	remote ap-cli	restore config
restore local	restore network	service restart	service start	set-factory
shutdown	shutdown now	upgrade		

?

To display commands that are available on the command line, use the following command:

ruckus# ?

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1#
backup              Backup system or configuration
backup-upgrade      Backup and upgrade system
cluster             Cluster commands
config              Enter configuration mode
copy                Copy commands
debug               Debug commands
delete              Delete commands
diagnostic          Diagnostic commands
enable              Modify enable password
exit                Exit from the EXEC
help                Display this help message
logout              Exit from the EXEC
no                  No commands
ping                Send ICMP echo request to network host
rbddump             Dump Rbd board data
reload              Reload system
remote              Remote commands
restore             Restore system
service             Service commands
set-factory         Set Factory
show                Show system information
shutdown            Shutdown system
traceroute         Print the route packets take to network host
upgrade             Upgrade system
```

backup

To backup the SmartZone whole cluster system, use the following command:

ruckus# backup

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1#
Please note that event, alarm and statistic data will be deleted
from the backup file after 7 days. Do you want to backup whole
system (or input 'no' to cancel)? [yes/no]
```

backup config

To backup SmartZone configuration, use the following command:

ruckus# backup config

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# backup config
Do you want to backup configurations (or input 'no' to cancel)?
[yes/no] yes
Starting to backup configurations...
Successful operation
```

backup network

To backup SmartZone network configuration, use the following command:

ruckus# backup network

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# backup network
Do you want to backup network configurations (or input 'no' to
cancel)? [yes/no] yes
Starting to backup network configurations...
Successful operation
```

backup-upgrade

To backup and upgrade the SmartZone whole cluster system, use the following command:

ruckus# backup-upgrade <ftp-url>

Syntax Description

This command uses the following syntax:.

<ftp-url> : Upgrade file. The FTP URL format: ftp://<username>:<pass-word>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# backup-upgrade ftp://mahan:ruckus1!@172.19.7.100/
backup/AP_ad87453456fe.csv
```

cluster in-service

To restore the cluster to a normal state, use the following command:

ruckus# cluster in-service

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# cluster in-service
% Unable to change the cluster state back to service. Reason:
Only Network Partition State can change to In Service State!.
```

config

To change to configuration mode, use the following command:

ruckus# config

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# config
SZ30(config)#
```

NOTE: To view configuration commands, see Configuration Commands chapters.

---

copy

To copy backup, backup-config, or backup-network file from external FTP server, use the following command:

ruckus# copy backup
ruckus# copy backup-config
ruckus# copy backup-network
ruckus# copy client
ruckus# copy report-result
ruckus# copy <ftp-url>

Syntax Description

This command uses the following syntax:

backup: Backup file. FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

backup-config: Backup of the configuration file. The FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

backup-network: Backup of the network configuration file. The FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

client: Copy AP Clients Statistics to external FTP server

report-result: Copy Report Result to external FTP server

<ftp-url>: Copy file from external FTP server, Format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy ftp://test:testpwd@172.17.22.11 backup
SZ100-Node1# copy ftp://test:testpwd@172.17.22.11/SmartZone-
config backup-config
SZ100-Node1# copy ftp://test:testpwd@172.17.22.11/SmartZone-
network backup-network
```

copy backup

To copy backup file to external FTP server, use the following command:

ruckus# copy backup <ftp-url>

Syntax Description

This command uses the following syntax:

<ftp-url>: FTP directory. FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy backup ftp://test:testpwd@172.17.22.11
```

copy backup-config

To copy backup configuration file to external FTP server, use the following command:

ruckus# copy backup-config <ftp-url>

Syntax Description

This command uses the following syntax:

<ftp-url>: FTP directory. FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy backup-config ftp://
test:testpwd@172.17.22.11/SmartZone-config
```

copy backup-network

To copy backup network configuration file to external FTP server, use the following command:

ruckus# copy backup-network <ftp-url>

Syntax Description

This command uses the following syntax:

<ftp-url>: FTP directory. FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy backup-network ftp://
test:testpwd@172.17.22.11/SmartZone-network
```

copy client

To copy AP client statistics to external FTP server, use the following command:

ruckus# copy client <name> <ftp-url>

Syntax Description

The command uses the following syntax:

<name> <ftp-url>

<name>: AP Zone name

<ftp-url>: FTP directory, FTP URL Format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy client test Zone ftp://
test:testpwd@172.17.22.11
```

copy report-result

To copy report result to external FTP server, use the following command:

ruckus# copy report-result <name> <ftp-url>

Syntax Description

The command uses the following syntax:

<name> <ftp-url>

<name>: Report name

<ftp-url>: FTP directory, FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy report-result SmartZone report ftp://
test:testpwd@172.17.22.11
```

copy ftp-url

To copy files from external FTP server, use the following command:

ruckus# copy ftp-url <name> <ftp-url>

Syntax Description

The command uses the following syntax:

<ftp-url>: FTP directory, FTP URL format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]]

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# copy ftp://test:testpwd@172.17.22.11
```

delete backup

To delete certain or all backup files, use the following command:

ruckus# delete backup <version>

Syntax Description

This command uses the following syntax:

<version>: Backup version

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# delete backup
SZ100-Node1# delete backup 1
```

delete backup-config

To delete certain or all backup configuration files, use the following command:

ruckus# delete backup-config <version>

Syntax Description

This command uses the following syntax:

<version>: Backup configuration version

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# delete backup-config
SZ100-Node1# delete backup-config 1
```

delete backup-network

To delete certain or all backup network configuration files, use the following command:

ruckus# delete backup-network <version>

Syntax Description

This command uses the following syntax:

<version>: Backup network configuration version

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# delete backup-network
SZ100-Node1# delete backup-network 1
```

delete client

To delete AP client, use the following command:

ruckus# delete client <client-mac>

Syntax Description

This command uses the following syntax:

<client-mac>: Client Mac address

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# delete client A1:87:45:34:56:FE
```

diagnostic

To run diagnostic commands, use the following command:

ruckus# diagnostic

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# diagnostic
SZ100-Node1(diagnostic)#
```

Related Commands

Table 72 lists the related diagnostic commands.

Table 72. Commands related to ruckus(diagnostic)

Syntax and Type	Parameters (If Any)	Description
ruckus(diagnostic)# copy snapshot Type: Privileged	<ftp-url>: FTP directory URL, Format: ftp://<username>:<password>@<ftp-host>[/<dir-path>]	Copy snapshot to external FTP server.
ruckus(diagnostic)# delete snapshot Type: Privileged	${snapshotName}	Deletes all snapshot.
ruckus(diagnostic)# do Type: Privileged		Executes the do command.

Table 72. Commands related to ruckus(diagnostic)

Syntax and Type	Parameters (If Any)	Description
ruckus(diagnostic)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(diagnostic)# execute all Type: Privileged		Executes all cases.
ruckus(diagnostic)# execute case Type: Privileged	<name>: Case name	Executes the specified case.
ruckus(diagnostic)# exit Type: Privileged		Exits from the EXEC.
ruckus(diagnostic)# help Type: Privileged		Displays the help.
ruckus(diagnostic)# remote-packet-capture-disable Type: Privileged		Disables the remote packet capture.
ruckus(diagnostic)# remote-packet-capture-enable Type: Privileged		Enables the remote packet capture.
ruckus(diagnostic)# show case Type: Privileged		Shows the case.
ruckus(diagnostic)# show ipmi Type: Privileged	[health | sensors | sel] health: Shows the BMC basic health sensors: Shows the hardware sensors, fru, LEDs information sel: Shows the system event log records	Shows IPMI information.
ruckus(diagnostic)# show snapshot Type: Privileged		Show snapshot files.
ruckus(diagnostic)# show version Type: Privileged		Shows the version.

enable

To enable privileged commands on the command line interface, use the following command:

ruckus# enable

Syntax Description

This command uses the following syntax:

password: Password to change the mode.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# enable
Old Password:
New Password:
```

SZ30> enable

```
SZ100-Node1# config
SZ100-Node1(config)#
```

enable <new-password>

To setup or update the SmartZone administrator password, use the following command:

ruckus# enable <new-password>

Syntax Description

This command uses the following syntax:

new-password: The new SmartZone administrator password that you want to set.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# enable password!356
Retype: ************
Enable password updated
```

exit

To exit from EXEC, use the following command:

ruckus# exit

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

User

Example

```
SZ100-Node1# exit
```

help

To display the command line interface help, use the following command:

ruckus# help

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

User

Example

```
SZ100-Node1# help
backup-upgrade Backup and upgrade system
config Enter configuration mode
debug Debug commands
```

logout

To exit from EXEC, use the following command:

ruckus# logout

Syntax Description

This command has no arguments or keywords

Default

This command has no default settings.

Command Mode

User

Example

```
SZ100-Node1# logout
```

no service

To stop all SmartZone services, use the following command:

ruckus# no service

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# no service
Please note that this command will cause current SSH connection
closed for SSH restart. Do you want to stop all services (yes/
no)? yes
Stopping all services...
Connection to 10.2.6.230 closed by remote host.
```

ping

To send an ICMP echo request to the network host, use the following command:

ruckus# ping <host>

Syntax Description

This command uses the following syntax:

<ip>: IP address

Default

This command has no default settings.

Command Mode

User

Example

```
SZ100-Node1# ping 172.19.10.9
Start ping server (172.19.10.9) for 3 times...
PING 172.19.10.9 (172.19.10.9) 56(84) bytes of data.
64 bytes from 172.19.10.9: icmp_seq=1 ttl=64 time=0.016 ms
64 bytes from 172.19.10.9: icmp_seq=2 ttl=64 time=0.014 ms
64 bytes from 172.19.10.9: icmp_seq=3 ttl=64 time=0.017 ms

--- 172.19.10.9 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2001ms
rtt min/avg/max/mdev = 0.014/0.015/0.017/0.004 ms
```

reload

To reload the SmartZone after 30 seconds, use the following command:

ruckus# reload <seconds>

Syntax Description

This command uses the following syntax:

seconds: Indicate the number of seconds before SmartZone reboots itself.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# reload <60>
Do you want to reboot system (yes/no)? yes
Server would be rebooted in 60 seconds.
Broadcast message from admin (Tue June 18 15:11:24 2013):
The system is going down for reboot NOW!
```

reload ap

To reboot an access point, use the following command:

ruckus# reload <mac>

Syntax Description

This command uses the following syntax:

mac: AP Mac address

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# reload ap 00:1c:2d:ee:ff:cc
Success to trigger AP (00:1c:2d:ee:ff:cc) reboot.
```

reload now

To reload the system immediately, use the following command:

ruckus# reload now

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# reload now
```

remote ap-cli

To display the name and firmware version of a remote access point, use the following command:

ruckus# remote ap-cli <mac> <command>

Syntax Description

This command uses the following syntax:

mac: MAC address of the access point

command: Command that retrieves the access point name and firmware version, double-quoted

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# remote ap-cli 74:91:1A:2A:DB:80 "get version"
Ruckus 7962 Multimedia Hotzone Wireless AP
Version: 1.1.0.0.151
OK
```

restore

To restore the entire cluster configuration, use the following command:

ruckus# restore

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# restore config
No.  Created on          Patch Version        File Size
----- ---------------------------- -------------------------
1 2014-11-14 06:38:41 GMT 3.0.0.0.530 1.1GB
2 2014-11-17 12:33:50 GMT 3.0.0.0.534 1.2GB
Please choose a backup to restore or 'No' to cancel:
```

restore config

To restore a configuration backup file that you uploaded to the FTP server, use the following command:

ruckus# restore config

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# restore config
No.  Created on          Patch Version        File Size
----- ---------------------------- -------------------------
 1  2014-10-17 12:32:14 GMT   3.0.0.0.479       160.3KB
Please choose a backup to restore or 'No' to cancel:
```

restore local

To restore the current system without a system integrity test, use the following command:

ruckus# restore local

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# restore local
No.  Created on          Patch Version        File Size
---- ---------------------------- ---------------------------
 1  2014-11-14 06:38:41 GMT   3.0.0.0.530        1.1GB
 2  2014-11-17 12:33:50 GMT   3.0.0.0.534        1.2GB
Please choose a backup to restore or 'No' to cancel:
```

restore network

To restore the network configuration, use the following command:

ruckus# restore network

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# restore network
```

service restart

To restart all the SmartZone services, use the following command:

ruckus# service restart

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# service restart
Please note that this command will cause current SSH connection
closed for SSH restart. Do you want to restart all services (yes/
no)? yes
Restarting all services...
```

service start

To start all the SmartZone services, use the following command:

ruckus# service start

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# service start
Please note that this command will cause current SSH connection
closed for SSH restart. Do you want to start all services (yes/
no)? yes
Starting all services...
wait for (cassandra,communicator,eventreader,freera-
dius,memcached,monitor,northbound,repcached,scheduler,tomcat)
Up!
wait for (cassandra,communicator,eventreader,freera-
dius,memcached,monitor,northbound,repcached,scheduler,tomcat)
Up!
wait for (communicator,eventreader,freera-
dius,memcached,monitor,northbound,repcached,scheduler,tomcat)
Up!
wait for (communicator,eventreader,monitor,north-
bound,repcached,scheduler,tomcat) Up!
wait for (communicator,eventreader,monitor,north-
bound,repcached,scheduler,tomcat) Up!
wait for (communicator,eventreader,monitor,north-
bound,repcached,scheduler,tomcat) Up!
```

```
wait for (communicator,eventreader,monitor,north-
bound,repcached,scheduler,tomcat) Up!
wait for (communicator,eventreader,northbound,tomcat) Up!
All services are up!
ruckus# Connection to 10.2.6.230 closed by remote host.
```

set-factory

To reset to factory settings of the SmartZone system, use the following command:

ruckus# set-factory

CAUTION! Resetting a node to factory settings will erase all of its system configuration settings, backup files, and cluster settings. Before resetting a node to factory settings, Ruckus Wireless strongly recommends that you export all of the backup files on the SmartZone to an FTP server using either the web interface or CLI.

NOTE: For information on how to use the SmartZone web interface to reset a node to factory settings, see the *SmartCell Gateway 200 Administrator Guide*.

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# set-factory
```

NOTE: For Show commands refer to the chapter Show Commands

---

shutdown

To shutdown the SmartZone gracefully after 30 seconds, use the following command:

ruckus# shutdown <seconds>

Syntax Description

This command uses the following syntax:

seconds: Indicates the number of seconds before SmartZone shutdowns.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# shutdown 10
Do you want to shutdown system
Server would be shutdown in 10 seconds
```

shutdown now

To shutdown the SmartZone immediately, use the following command:

ruckus# shutdown now

Syntax Description

This command has no arguments or keywords.

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# shutdown now
Do you want to shutdown system?
Server would be shutdown in 30 seconds
```

traceroute

To print the route packets that are taken to the network host, use the following command:

ruckus# traceroute <options>

Syntax Description

This command uses the following syntax:

-4 Use IPv4

-6 Use IPv6

-d --debug Enable socket level debugging

-F --dont-fragment Do not fragment packets

-f first_ttl --first=first_ttl Start from the first_ttl hop (instead from 1)

-g gate,. --gateway=gate,...

Route packets through the specified gateway

(maximum 8 for IPv4 and 127 for IPv6)

-I --icmp Use ICMP ECHO for tracerouting

-T --tcp Use TCP SYN for tracerouting

-i device --interface=device

Specify a network interface to operate with

-m max_ttl --max-hops=max_ttl

Set the max number of hops (max TTL to be reached). Default is 30

-N squeries --sim-queries=squeries

Set the number of probes to be tried simultaneously (default is 16)

-n Do not resolve IP addresses to their domain names

-p port --port=port Set the destination port to use. It is either initial udp port value for "default" method (incremented by each probe, default is 33434), or initial seq for "icmp" (incremented as well, default from 1), or some constant destination port for other methods (with default of 80 for "tcp", 53 for "udp", etc.)

-t tos --tos=tos Set the TOS (IPv4 type of service) or TC (IPv6 traffic class) value for outgoing packets -l flow_label --flowlabel=flow_label Use specified flow_label for IPv6 packets -w waittime --wait=waittime

Set the number of seconds to wait for response to a probe (default is 5.0). Non-integer (float point) values allowed too

-q nqueries --queries=nqueries Set the number of probes per each hop. Default is 3

-r Bypass the normal routing and send directly to a host on an attached network

-s src_addr --source=src_addr Use source src_addr for outgoing packets

-z sendwait --sendwait=sendwait Minimal time interval between probes (default 0).

If the value is more than 10, then it specifies a number in milliseconds, else it is a number of seconds (float point values allowed too)

-e --extensions Show ICMP extensions (if present), including MPLS

-A --as-path-lookups Perform AS path lookups in routing registries and print results directly after the corresponding addresses

-M name --module=name Use specified module (either builtin or external) for traceroute operations. Most methods have their shortcuts (`-I' means `-M icmp' etc.)

-O OPTS,... --options=OPTS,.. Use module-specific option OPTS for the traceroute module. Several OPTS allowed, separated by comma. If OPTS is "help", print info about available options

--sport=num Use source port num for outgoing packets. Implies `-N 1'

-U --udp Use UDP to particular port for tracerouting (instead of increasing the port per each probe), default port is 53

-UL Use UDPLITE for tracerouting (default dest port is 53)

-P prot --protocol=prot Use raw packet of protocol prot for tracerouting

--mtu Discover MTU along the path being traced. Implies `-F -N 1'

--back Guess the number of hops in the backward path and print if it differs

-V --version Print version info and exit

--help Read this help and exit

Arguments:

+ host The host to traceroute to

packetlen The full packet length (default is the length of an IP header plus 40). Can be ignored or increased to a minimal allowed value

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# traceroute
```

upgrade

To upgrade the SmartZone system, use the following command:

ruckus# upgrade <ftp-url>

Syntax Description

This command uses the following syntax:

<ftp-url>: Upgrade file. FTP URL format is: ftp://<username>:<password>@<ip>[/<file-path>].

Default

This command has no default settings.

Command Mode

Privileged

Example

```
SZ100-Node1# upgrade ftp://mahan:ruckus1!@172.19.7.100
```

Index

Symbols

A

B

C

S

U

W