

# RUCKUS SmartZone 300 and Virtual SmartZone- High-Scale Command Reference Guide, 5.2.2

Supporting SmartZone 5.2.2

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## Document Conventions

The following table lists the text conventions that are used throughout this guide.

**TABLE 1** Text Conventions

Convention	Description	Example
monospace	Identifies command syntax examples	<code>device(config)# interface ethernet 1/1/6</code>
<b>bold</b>	User interface (UI) components such as screen or page names, keyboard keys, software buttons, and field names	On the <b>Start</b> menu, click <b>All Programs</b> .
<i>italics</i>	Publication titles	Refer to the <i>RUCKUS Small Cell Release Notes</i> for more information.

## Notes, Cautions, and Safety Warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

### NOTE

A NOTE provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

### ATTENTION

An ATTENTION statement indicates some information that you must read before continuing with the current action or task.



### CAUTION

A CAUTION statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.



### DANGER

A DANGER statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

## Command Syntax Conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
<b>bold text</b>	Identifies command names, keywords, and command options.

## Preface

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Convention	Description
<i>italic text</i>	Identifies a variable.
[ ]	Syntax components displayed within square brackets are optional.  Default responses to system prompts are enclosed in square brackets.
{x  y  z}	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member</i> { <i>member</i> ...}.
\	Indicates a "soft" line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

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You can email your comments to RUCKUS at [#Ruckus-Docs@commscope.com](mailto:#Ruckus-Docs@commscope.com).

When contacting us, include the following information:

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

For example:

- RUCKUS SmartZone Upgrade Guide, Release 5.0
- Part number: 800-71850-001 Rev A
- Page 7

## RUCKUS Product Documentation Resources

Visit the RUCKUS website to locate related documentation for your product and additional RUCKUS resources.

Release Notes and other user documentation are available at <https://support.ruckuswireless.com/documents>. You can locate the documentation by product or perform a text search. Access to Release Notes requires an active support contract and a RUCKUS Support Portal user account. Other technical documentation content is available without logging in to the RUCKUS Support Portal.

White papers, data sheets, and other product documentation are available at <https://www.ruckuswireless.com>.

## Online Training Resources

To access a variety of online RUCKUS training modules, including free introductory courses to wireless networking essentials, site surveys, and products, visit the RUCKUS Training Portal at <https://training.ruckuswireless.com>.

# Contacting RUCKUS Customer Services and Support

The Customer Services and Support (CSS) organization is available to provide assistance to customers with active warranties on their RUCKUS products, and customers and partners with active support contracts.

For product support information and details on contacting the Support Team, go directly to the RUCKUS Support Portal using <https://support.ruckuswireless.com>, or go to <https://www.ruckuswireless.com> and select **Support**.

## What Support Do I Need?

Technical issues are usually described in terms of priority (or severity). To determine if you need to call and open a case or access the self-service resources, use the following criteria:

- Priority 1 (P1)—Critical. Network or service is down and business is impacted. No known workaround. Go to the **Open a Case** section.
- Priority 2 (P2)—High. Network or service is impacted, but not down. Business impact may be high. Workaround may be available. Go to the **Open a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Go to the **Self-Service Resources** section.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Go to the **Self-Service Resources** section.

## Open a Case

When your entire network is down (P1), or severely impacted (P2), call the appropriate telephone number listed below to get help:

- Continental United States: 1-855-782-5871
- Canada: 1-855-782-5871
- Europe, Middle East, Africa, Central and South America, and Asia Pacific, toll-free numbers are available at <https://support.ruckuswireless.com/contact-us> and Live Chat is also available.
- Worldwide toll number for our support organization. Phone charges will apply: +1-650-265-0903

We suggest that you keep a physical note of the appropriate support number in case you have an entire network outage.

## Self-Service Resources

The RUCKUS Support Portal at <https://support.ruckuswireless.com> offers a number of tools to help you to research and resolve problems with your RUCKUS products, including:

- Technical Documentation—<https://support.ruckuswireless.com/documents>
- Community Forums—<https://forums.ruckuswireless.com/ruckuswireless/categories>
- Knowledge Base Articles—<https://support.ruckuswireless.com/answers>
- Software Downloads and Release Notes—[https://support.ruckuswireless.com/#products\\_grid](https://support.ruckuswireless.com/#products_grid)
- Security Bulletins—<https://support.ruckuswireless.com/security>

Using these resources will help you to resolve some issues, and will provide TAC with additional data from your troubleshooting analysis if you still require assistance through a support case or RMA. If you still require help, open and manage your case at [https://support.ruckuswireless.com/case\\_management](https://support.ruckuswireless.com/case_management).



# About This Guide

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## About This Guide

This *SmartZone 300 (SZ300) and Virtual SmartZone High-Scale (vSZ-H) Command Reference Guide* contains the syntaxes and commands for configuring and managing the SZ300/ vSZ-H (collectively referred to as “the controller” throughout this guide) from the command line interface.

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

### NOTE

If release notes are shipped with your product and the information there differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the support site at <https://support.ruckuswireless.com/contact-us>

## What's New in this Document

The following commands in the table below were added and removed as part of release 5.2.2.

**TABLE 2** Commands added as part of release 5.2.2

Command Name	Description
firmware-download-limit	Specify the limited number of firmware download connection and the download speed.
no firmware-download-limit	Reset the limited number of firmware download connection to 300 and no limit to download speed.

**TABLE 3** Commands removed as part release 5.2.2

Command Name
ruckus(config)# ip control-nat
ruckus(config)# ip internal-subnet
ruckus(config)# ip ipv6-route
ruckus(config)# ip name-server
ruckus(config)# ip name-server-ipv6
ruckus(config)# ip route





# Introduction to the Controller Command Line Interface

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## Overview of the Controller Command Line Interface

The Controller command line interface (CLI) is a software tool that enables you to configure and manage SmartCell Gateway 200 and Virtual SmartZone High-Scale. 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 controller has a built-in command line interface (CLI) that you can use to configure controller settings and manage access points. This section describes the requirements and the procedure for accessing the controller CLI.

## What You Will Need

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

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

## Connect the Administrative Computer to the Controller

Connect the administrative computer to controller 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 controller.

2. If you want to use a serial connection, make sure that both the administrative computer and the controller 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 controller. 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 SCG200 Location of console port



FIGURE 2 SZ300 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 controller 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](http://www.putty.org).

See the following sections depending on your connection method:

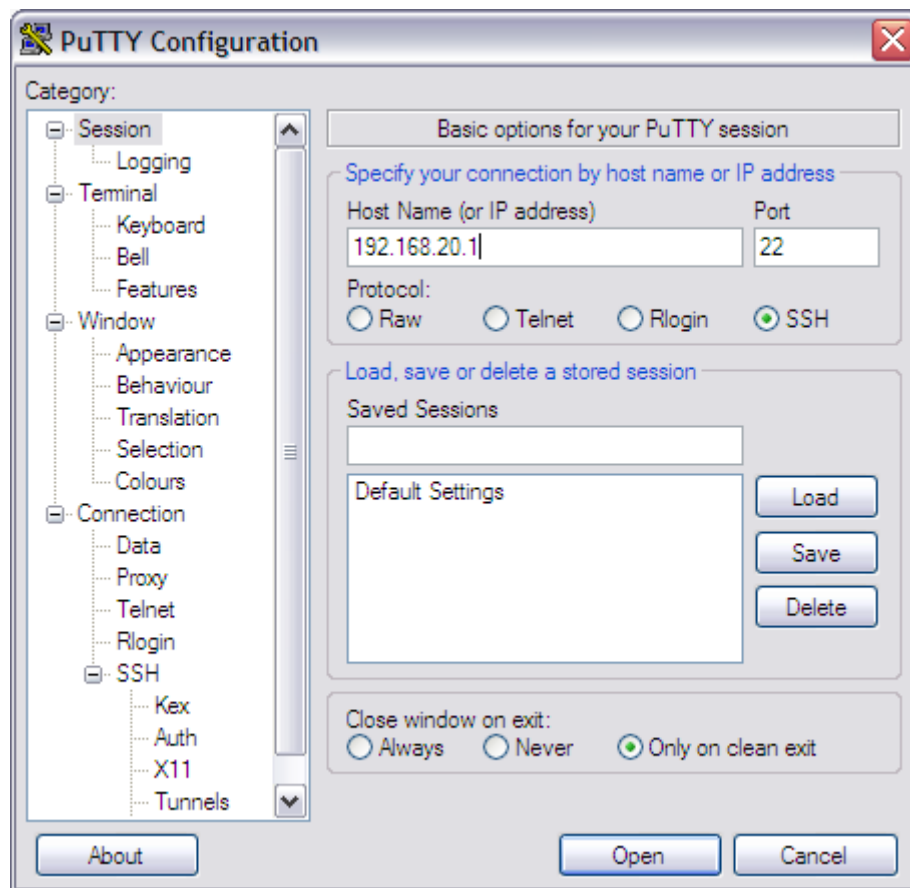
- [Using SSH Connection](#) on page 19
- [Using Serial Connection](#) on page 20

## Using SSH Connection

If you have connected the administrative computer to the same subnet or broadcast domain as the Management (Web) interface of the controller, 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 **SSH**.

**FIGURE 3** Selecting SSH as a connection type



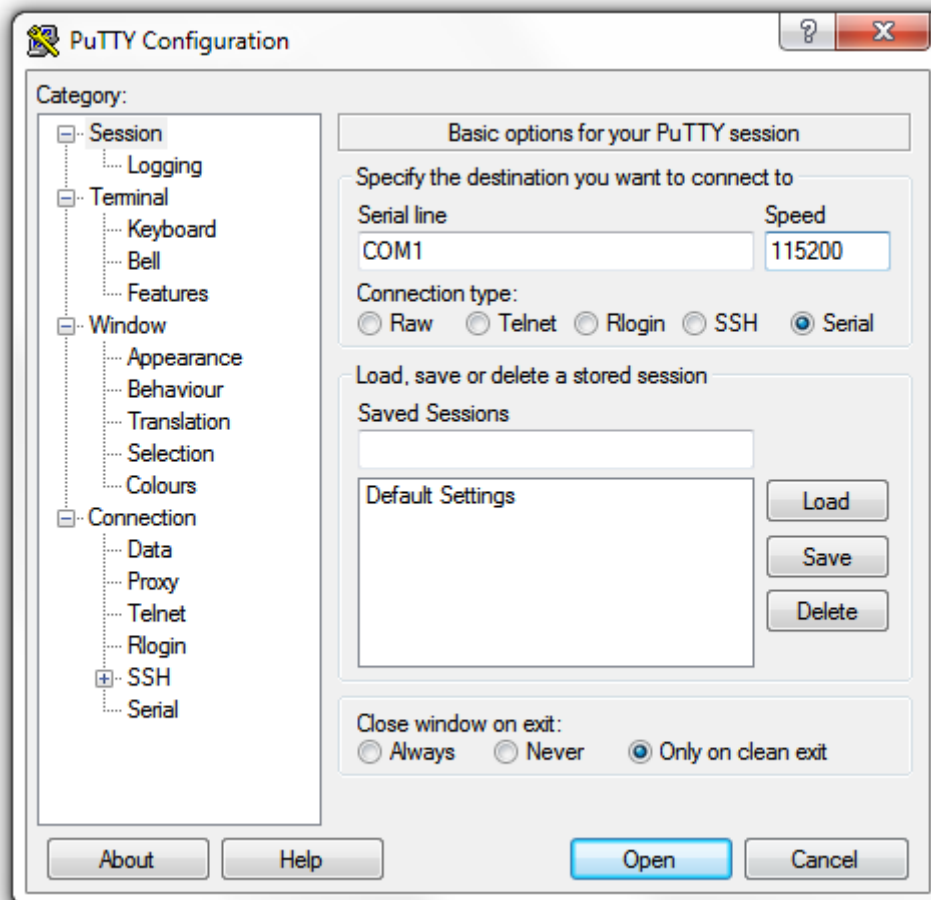
3. Enter the IP address of the Management (Web) interface of the controller in the **Host Name** (or IP address) field as seen in [Figure 3](#).
4. Click **Open**. The **PuTTY console** appears and displays the login prompt. See [Figure 7](#) on page 23.

## Using Serial Connection

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

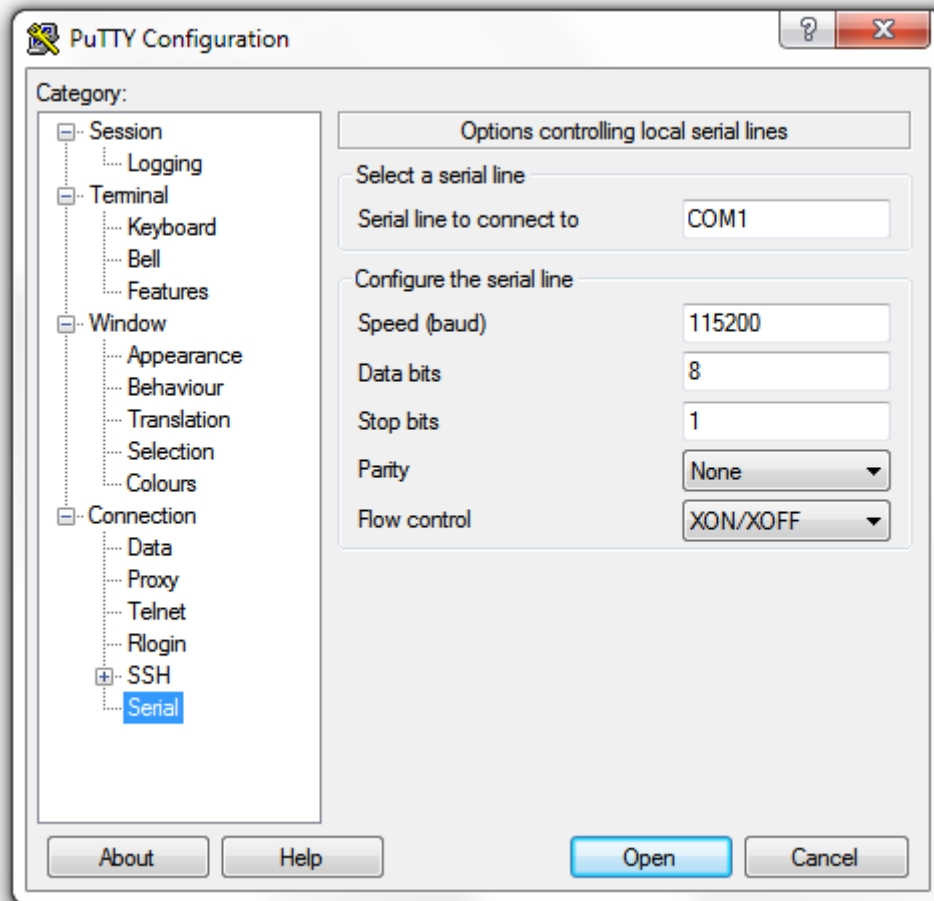
1. Start PuTTY. The PuTTY Configuration dialog box appears, showing the **Session** screen as seen in Figure 4.
2. In **Connection** type, select **Serial** if you are connecting via serial cable.

**FIGURE 4** Selecting serial as a connection type



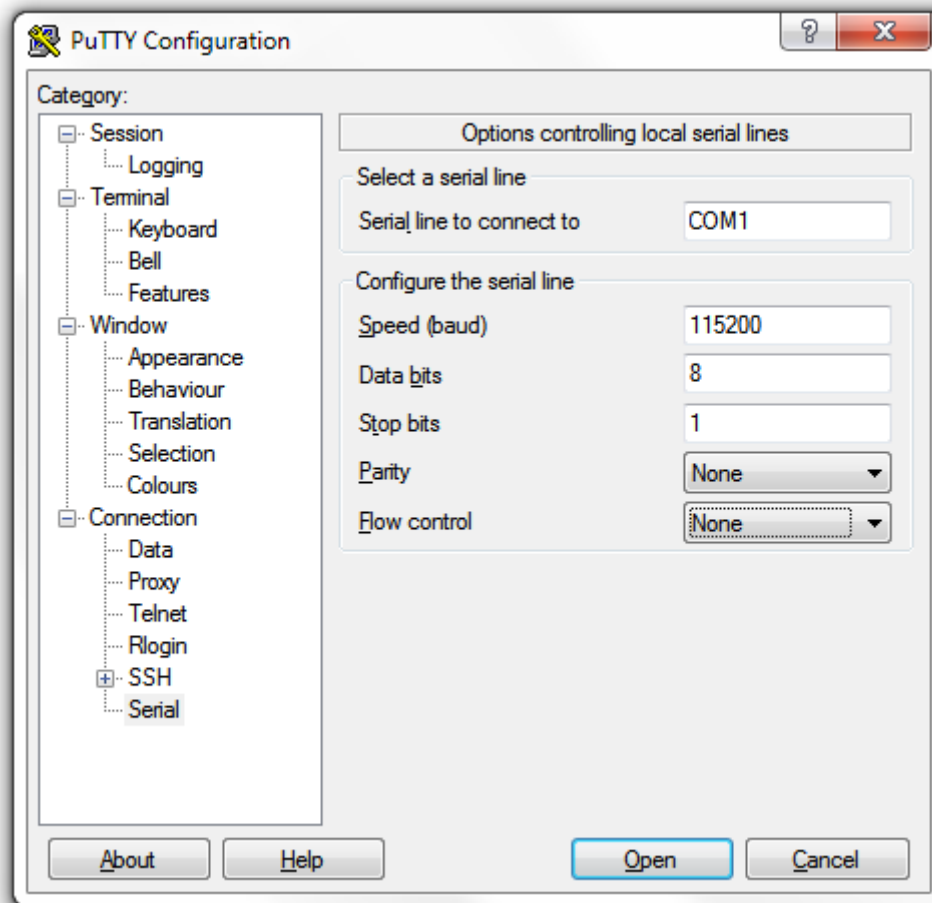
- Under Category, click **Connection > Serial**. The serial connection options appear on the right side of the dialog box, displaying PuTTY's default serial connection settings. See [Figure 5](#).

**FIGURE 5** PuTTY's default serial connection setting



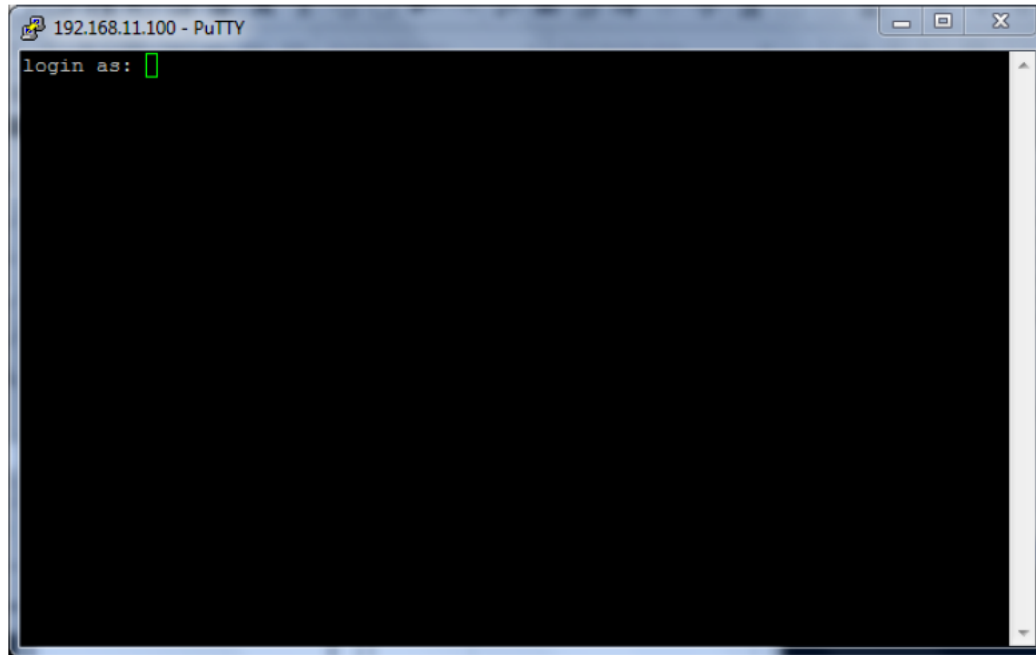
4. Configure the serial connection settings as follows. See [Figure 6](#).
  - Serial line to connect to: Type the COM port name to which you connected the RS-232 cable.
  - Bits per second: 115200
  - Data bits: 8
  - Stop bits: 1
  - Parity: None
  - Flow control: None

**FIGURE 6** PuTTY's serial connection settings for connecting to controller



5. Click **Open**. The PuTTY console appears and displays the login prompt as seen in [Figure 7](#).

**FIGURE 7** PuTTY console displaying the login prompt



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

## Log On to CLI

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

- Log on to the controller 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 controller installation procedure.

- The controller CLI welcome message appears with the CLI prompt as seen below.

**FIGURE 8** Logging into CLI

```
login as: admin
#####
#       Welcome to SmartZone 300       #
#####
admin@10.174.84.201's password:
Last successful login: 2019-11-13 04:38:46
Last successful login from: 10.174.84.233
Failed login attempts since last successful login: 0
Account privilege changes: No
Please wait. CLI initializing...

Welcome to the Ruckus SmartZone 300 Command Line Interface
Version: 5.2.0.0.592

NODE-63>
enable          exit          help          logout        ping
ping6          show          traceroute    traceroute6
```

- You are now logged into the controller 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 **?**.

**NOTE**

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

**FIGURE 9** Using show commands

```
NODE63# show meminfo
Total Memory: 127.9 GB
Used Memory: 19.4 GB
Free Memory: 108.6 GB

NODE63# show diskinfo
Total Disk: 1.01504 TB
Used Disk: 111.7 GB
Free Disk: 927.7 GB
```

- 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 10](#).



FIGURE 10 Using system commands

```
set-1> show
  clock      Show current GMT date time
  cpuinfo    Show CPU usage status
  diskinfo   Show Disk usage status
  meminfo    Show Memory usage status
  version    Show system version

set-1> ping 172.19.13.60
PING 172.19.13.60 (172.19.13.60) 56(84) bytes of data.
64 bytes from 172.19.13.60: icmp_seq=1 ttl=64 time=0.015 ms
64 bytes from 172.19.13.60: icmp_seq=2 ttl=64 time=0.019 ms
64 bytes from 172.19.13.60: icmp_seq=3 ttl=64 time=0.021 ms
64 bytes from 172.19.13.60: icmp_seq=4 ttl=64 time=0.020 ms
64 bytes from 172.19.13.60: icmp_seq=5 ttl=64 time=0.018 ms

--- 172.19.13.60 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.015/0.018/0.021/0.005 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 11. The prompt changes from ruckus> to ruckus# (with a pound sign) as seen in Figure 11. Refer to enable on page 541 command for details.

FIGURE 11 Changing to privileged mode

```
INDUS4> en
Password: *****

INDUS4# config

INDUS4 (config) #
```



# Configuration Commands (a - d)

---

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## Introduction

This chapter describes the commands that you can use to configure, enable, and disable various controller 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.

## config

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

**ruckus(config)#**

## Example

```
ruckus# config  
ruckus(config)#
```

# acct-profile

To create or update the accounting service profile configuration, use the following command:

```
ruckus(config)# acct-profile name
```

## Syntax Description

This command uses the following syntax:

```
name  
Accounting service profile name
```

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# acct-profile rad-profile
```

## Related Commands

- [Table 4](#) lists the related **acct-profile** configuration commands.
- [Table 5](#) lists the related **acct-profile-realm** configuration commands.
- 

[Table 4](#) lists the related **acct-profile** configuration commands.

**TABLE 4** Commands related to ruckus(config-acct-profile).

Syntax and Type	Parameters (if any)	Description
ruckus(config-acct-profile)# default Type: Privileged	<b>no-match-realm</b> <i>acct name</i> <b>no-realm</b> <i>acct name</i>	Set the default service. No matching or no realm found based on the default accounting service and accounting service name.
ruckus(config-acct-profile)# description Type: Privileged	<i>text</i>	Set the description.
ruckus(config-acct-profile)# do Type: Privileged		Executes the do command.
ruckus(config-acct-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-acct-profile)# exit Type: Privileged		Exits from the EXEC.

## Configuration Commands (a - d)

### acct-profile

**TABLE 4** Commands related to ruckus(config-acct-profile). (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-acct-profile)# help Type: Privileged		Displays the help.
ruckus(config-acct-profile)# name Type: Privileged	<i>name</i>	Sets the accounting service profile name.
ruckus(config-acct-profile)# no Type: Privileged	<b>realm name</b>	Disables the realm based on the realm name.
ruckus(config-acct-profile)# realm Type: Privileged	<i>realm</i>	Set the accounting service realm.

Table 5 lists the related **acct-profile-realm** configuration commands.

**TABLE 5** Commands related to ruckus(config-acct-profile-realm)

Syntax and Type	Parameters (if any)	Description
ruckus(config-acct-profile-realm)# acct-service Type: Privileged	<i>name</i>	Sets the accounting service.
ruckus(config-acct-profile-realm)# do Type: Privileged		Executes the do command.
ruckus(config-acct-profile-realm)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-acct-profile-realm)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-acct-profile-realm)# help Type: Privileged		Displays the help.
ruckus(config-acct-profile-realm)# name Type: Privileged	<i>name</i>	Sets the realm name.

## ad-service

To create or update the active directory service configuration, use the following command:

```
ruckus(config)# ad-service name
```

### Syntax Description

This command uses the following syntax:

*name*

Active service directory name

### Default

This command has no default settings.

### Command Mode

Config

### Usage Guidelines

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

### Example

```
ruckus(config)# ad-service ads
ruckus(config-ad-service)#
```

### Related Commands

Table 7 on page 33 lists the related **ad-service** configuration commands.

**TABLE 6** Commands related to ruckus(config-ad-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ad-service)# admin-domain-name Type: Privileged	<i>domain-name</i>	Sets the administrator domain name. This field is applicable on executing the group attribute command.
ruckus(config-ad-service)# admin-password Type: Privileged	<i>password</i>	Sets the administrator domain password. This field is applicable on executing the group attribute command.
ruckus(config-ad-service)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-ad-service)# do Type: Privileged		Executes the do command.
ruckus(config-ad-service)# email Type: Privileged	<i>email</i>	Sets the user's email details.

**TABLE 6** Commands related to ruckus(config-ad-service) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ad-service)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ad-service)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ad-service)# friendly-name Type: Privileged	<i>friendly-name</i>	Sets friendly name for the active service directory.
ruckus(config-ad-service)# global-catalog Type: Privileged	<i>friendly-name</i>	Enables the global catalog support
ruckus(config-ad-service)# group-attrs Type: Privileged	<i>attr-value</i> : Group attribute value <i>user-role</i> : User Role	Sets the user traffic profile mapping.
ruckus(config-ad-service)# help Type: Privileged		Displays the help.
ruckus(config-ad-service)# ip-address Type: Privileged	<i>ip</i> : Sets the primary server IP address	Sets the primary service IP address.
ruckus(config-ad-service)# name Type: Privileged	<i>name</i>	Sets the active directory service name.
ruckus(config-ad-service)# no Type: Privileged	<i>global-catalog</i> <i>group-attrs attr-value</i>	Disables the commands.
ruckus(config-ad-service)# port Type: Privileged	<i>port</i>	Sets the primary server port.
ruckus(config-ad-service)# windows-domain-name Type: Privileged	<i>domain-name</i> : Example: dc=domain, dc=ruckuswireless, dc=com	Sets the windows domain name
ruckus(config-ad-service)# test Type: Privileged	<i>username</i> <i>password</i>	Tests the AAA Server
ruckus(config-ad-service)# title Type: Privileged	<i>text</i>	Sets the user's job title.



# 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
```

## Syntax Description

This command uses the following syntax:

```
name  
Administrator user name
```

## Default

This command has no default settings.

## Command Mode

Config

## Usage Guidelines

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

## Example

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

## Related Commands

Table 7 lists the related **admin** configuration commands.

**TABLE 7** Commands related to ruckus(config-admin)

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

## Configuration Commands (a - d)

admin

**TABLE 7** Commands related to ruckus(config-admin) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-admin)# email Type: Privileged	<i>email</i>	Set 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)# password Type: Privileged	<i>password</i>	Set the password for user.
ruckus(config-admin)# phone Type: Privileged	<i>phone</i>	Set the phone number of the user.
ruckus(config-admin)# real-name Type: Privileged	<i>name</i>	Set the real name of the user.
ruckus(config-admin)# title Type: Privileged	<i>text</i>	Set the user's job title.

## 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

```
ruckus(config)# admin-radius aaa-auth
```

### Related Commands

Table 8 lists the related **config-admin-radius** configuration commands.

**TABLE 8** Commands related to ruckus(config-admin-radius)

Syntax and Type	Parameters (if any)	Description
ruckus(config-admin-radius)# backup Type: Privileged	<b>ip ip</b> : Sets the IP address of secondary RADIUS server <b>port port</b> : Sets the port of secondary RADIUS server <b>shared-secret</b> : Sets the shared secret of secondary RADIUS server <b>request-timeout seconds</b> : - Sets the request timeout in seconds for failover policy <b>max-retry number</b> : Sets the maximum number of retries for failover policy <b>retry-prilnvl minutes</b> : Sets the reconnect to primary server in minutes for failover policy	Enables RADIUS backup.
ruckus(config-admin-radius)# do Type: Privileged		Executes the do command.

**TABLE 8** Commands related to ruckus(config-admin-radius) (continued)

Syntax and Type	Parameters (if any)	Description
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.
ruckus(config-admin-radius)# ip Type: Privileged	<i>ip</i>	Sets the IP addresses of the primary RADIUS server.
ruckus(config-admin-radius)# name Type: Privileged	<i>name</i>	Sets the RADIUS server name.
ruckus(config-admin-radius)# no Type: Privileged	<b>backup</b>	Disables the command.
ruckus(config-admin-radius)# port Type: Privileged	<i>port</i>	Sets the port addresses of the primary RADIUS server.
ruckus(config-admin-radius)# realm Type: Privileged	<i>realms</i> : Multiple realms supported. Use a comma (,) to separate realms (example:home1,home2)	Sets the realms.
ruckus(config-admin-radius)# service Type: Privileged	<i>services</i> : Multiple services supported. Use a comma (,) to separate services (example:home1,home2)	Sets the services.
ruckus(config-admin-radius)# shared-secret Type: Privileged	<i>shared-secret</i> : Shared secret between 1 and 255.	Sets the shared secret of the primary RADIUS server.
ruckus(config-admin-radius)# test Type: Privileged	<i>username password</i> [ PAP   CHAP ]	Tests the RADIUS server based on the user credentials and protocol settings.
ruckus(config-admin-radius)# type Type: Privileged	[ radius   tacacs ]	Sets the admin authentication type,

# adv-forwarding-profile

To enter the advanced (mixed mode) profile configuration, use the following command:

```
ruckus(config)# adv-forwarding-profile <name>
```

## Syntax Description

This command uses the following syntax:

```
name
    Profile server name
```

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# adv-forwarding-profile ttg-pdg
```

## Related Commands

The [Table 9](#) lists related adv-forwarding-profile configuration commands.

The [Table 10](#) lists the related adv-forwarding-profile-apn configuration commands.

**TABLE 9** Commands related to ruckus(config-adv-forwarding-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-adv-forwarding-profile)# apn Type: Privileged	<i>nioi</i> <apn> <i>ni</i> <apn>	Creates or updates the forwarding policy for APN configuration commands.
ruckus(config-adv-forwarding-profile)# default Type: Privileged		Sets the APN default settings.
ruckus(config-adv-forwarding-profile)# description Type: Privileged	<text>	Sets the description. Length is between 1 and 128.
ruckus(config-adv-forwarding-profile)# do Type: Privileged		Executes the do command.
ruckus(config-adv-forwarding-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-adv-forwarding-profile)# exit Type: Privileged		Exits from the EXEC.

**TABLE 9** Commands related to ruckus(config-adv-forwarding-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-adv-forwarding-profile)# help Type: Privileged		Displays the help.
ruckus(config-adv-forwarding-profile)# name Type: Privileged	<name>	Enter the advanced (mixed mode) profile name
ruckus(config-adv-forwarding-profile)# no Type: Privileged	apn <apn> realm <realm>	Delete forwarding policies for APN or default APNs for realm.
ruckus(config-adv-forwarding-profile)# realm Type: Privileged	<realm> : Multiple realms supported. Use a comma (,) to separate realms (example:home1,home2)	Creates or updates the default APN for realm.

**TABLE 10** Commands related to ruckus(adv-forwarding-profile-apn)

Syntax and Type	Parameters (if any)	Description
ruckus(adv-forwarding-profile-apn)# do Type: Privileged		Executes the do command.
ruckus(adv-forwarding-profile-apn)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(adv-forwarding-profile-apn)# exit Type: Privileged		Exits from the EXEC.
ruckus(adv-forwarding-profile-apn)# help Type: Privileged		Displays the help.
ruckus(adv-forwarding-profile-apn)# profile Type: Privileged		Sets the forwarding service profile. To view this command run the route-type command.
ruckus(adv-forwarding-profile-apn)# route-type Type: Privileged	Bridge L2oGRE	Sets the route type to either Bridge or L2oGRE.

## ap

To update the AP configuration, use the following commands:

```
ruckus(config)# ap mac
```

```
ruckus(config)# ap apMac pre-prov
```

```
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

**apMac pre-prov**

*mac*  
AP MAC address

**pre-prov**  
Updates pre-provision configuration

**mac swap**

*mac*  
AP MAC address

**swap**  
Updates swap configuration

**mac trigger-swap**

*mac*  
AP MAC address

**trigger-swap**  
Trigger swap action

**mac move zone name**

*mac*  
AP MAC address

**move**  
Move AP

**zone**  
Target AP zone

*name*  
AP zone name

## Configuration Commands (a - d)

ap

### **mac trigger-prefer-node**

*mac*

AP MAC address

**trigger-prefer-node**

Trigger preferred node

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# ap mac
ruckus(config)# ap A1:87:45:34:56:FE
ruckus(config)# ap pre-prov <export <ftp-url>>
ruckus(config)# ap pre-prov import ftp://ruckus:ruckus1!@172.19.7.100/backup/AP_ad8745345
ruckus(config)# ap swap <import <ftp-url>>
ruckus(config)# ap swap export ftp://ruckus:ruckus1!@172.19.7.100
```

## Related Commands

- [Table 11](#) lists the related **ap profile** configuration commands.
- [Table 12](#) lists the related **ap model** configuration commands.
- [Table 13](#) lists the related **ap model lan1** configuration commands.
- [Table 13](#) lists the related **ap pre-prov** configuration commands.

[Table 11](#) lists the related **ap profile** configuration commands.

**TABLE 11** Commands related to ruckus(config-ap)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# admin Type: Privileged	<i>logon password</i>	Sets the administrative logon credentials.
ruckus(config-ap)# admin-mode Type: Privileged	<i>locked unlocked</i>	Sets the administrative mode to either locked or unlocked.
ruckus(config-ap)# ap-logon Type: Privileged	<i>logon-id</i>	Sets the access point administration login credentials.
ruckus(config-ap)# ap-model Type: Privileged	<i>ap-model</i>	Sets the model specification (overrides the zone configuration).
ruckus(config-ap)# ap-password Type: Privileged	<i>password</i>	Sets the access point administrative password.
ruckus(config-ap)# area-code Type: Privileged	<i>areacode</i>	Sets the user location information of LAC or TAC.



**TABLE 11** Commands related to ruckus(config-ap) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# bonjour-gateway Type: Privileged		Enables the bonjour gateway.
ruckus(config-ap)# bonjour-policy Type: Privileged		Enables the bonjour policy.
ruckus(config-ap)# channel-evaluation-interval Type: Privileged	<i>seconds</i> : The interval value (60~3600 secs)	Sets the channel evaluation interval.
ruckus(config-ap)# channel-select-mode Type: Privileged	<b>2.4g</b> <i>\$(value)</i> : 2.4GHz radio <b>5g</b> <i>\$(value)</i> : 5GHz radio	Automatically adjusts the AP channels.
ruckus(config-ap)# channelfly-mtbc Type: Privileged	<b>2.4g</b> <i>number</i> : 2.4GHz radio <i>number</i> : MTBC value range:100-1440 <b>5g</b> <i>number</i> : 5GHz radio <i>number</i> : MTBC value range:100-1440	Set MTBC value of Channelfly.
ruckus(config-ap)# client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b> <b>2.4g minClientCount</b> <i>minClientCount</i> Min Client Count (Default: 10) <b>2.4g maxRadioLoad</b> <i>maxRadioLoad</i> Max Radio Load (Default: 75%) <b>2.4g minClientThroughput</b> <i>minClientThroughput</i> : Min Client Throughput (Default: 0.0Mbps) <b>5g minClientCount</b> <i>minClientCount</i> Min Client Count (Default: 20) <b>5g maxRadioLoad</b> <i>maxRadioLoad</i> Max Radio Load (Default: 75%) <b>5g minClientThroughput</b> <i>minClientThroughput</i> Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-ap)# description Type: Privileged	<i>description</i>	Sets the model specification (overrides the zone configuration).
ruckus(config-ap)# device-ip-mode Type: Privileged	[ <b>ipv6</b>   <b>ipv4</b>   <b>dual</b> ]	Sets the device IP mode.
ruckus(config-ap)# do Type: Privileged		Executes the do command.
ruckus(config-ap)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-ap)# exit Type: Privileged		Exits from the EXEC.

**TABLE 11** Commands related to ruckus(config-ap) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# gps Type: Privileged	<i>latitude longitude</i>	Sets the GPS coordinates to latitude and longitude values.
ruckus(config-ap)# gps-latitude Type: Privileged	<i>gps-latitude</i>	Sets the GPS coordination latitude.
ruckus(config-ap)# gps-longitude Type: Privileged	<i>gps-longitude</i>	Sets the GPS coordination longitude.
ruckus(config-ap)# help Type: Privileged		Displays the help.
ruckus(config-ap)# hotspot20 Type: Privileged	<i>name [ swe   cze   spa   eng   chi   ger   fre   jpn   dan   tur ]</i>  <i>name</i> : Name  <b>swe</b> : Swedish  <b>cze</b> : Czech  <b>spa</b> : Spanish  <b>eng</b> : English  <b>chi</b> : Chinese  <b>ger</b> : German  <b>fre</b> : French  <b>jpn</b> : Japanese  <b>dan</b> : Danish  <b>tur</b> : Turkish	Sets the hotspot 2.0 settings.
ruckus(config-ap)# ip Type: Privileged	<b>address</b> <i>ip network-mask gateway</i> <b>name-server</b> <i>dns-server secondary</i>	Sets the IP address and primary and secondary DNS servers.
ruckus(config-ap)# ip6 Type: Privileged	<b>address</b> <i>ipgateway</i> : <b>address</b> : Set IPv6 address <i>ip</i> : Static IPv6 address <i>gateway</i> : Gateway <b>name-server</b> <i>dns-server secondary</i> <b>name-server</b> : Set primary and secondary DNS server <i>dns-server</i> : DNS server <b>secondary</b> : Secondary DNS server	Sets the AP IPv6 network settings.
ruckus(config-ap)# location Type: Privileged	<i>location</i>	Sets the location.
ruckus(config-ap)# location-additional-info Type: Privileged	<i>text</i>	Sets the additional information for location.

**TABLE 11** Commands related to ruckus(config-ap) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# mesh Type: Privileged	[ <b>disable</b>   <b>mesh</b>   <b>root</b>   <b>auto</b> ]	Sets the mesh mode to either:  disable: Disable  mesh: Mesh AP  root: Root AP  auto: Auto
ruckus(config-ap)# model Type: Privileged		Sets the model specifications. It overrides the zone configuration.
ruckus(config-ap)# name Type: Privileged	<i>name</i>	Sets the AP name.
ruckus(config-ap)# no Type: Privileged	<b>admin</b> <b>bonjour-gateway</b> <b>channel-evaluation-interval</b> <b>channel-select-mode</b> <b>client-admission-control</b> <b>description</b> <b>gps</b> <b>hotspot20</b> <i>ip address name-server secondary</i> <i>ip6 address name-server secondary</i> <b>location</b> <b>location-additional-info</b> <b>model</b> <b>override-client-admission-control</b> <b>override-smart-mon</b> <b>override-mgmt-ap-vlan</b> <b>override-channel-select-mode</b> <b>override-client-admission-control</b> <b>override-syslog-opt</b> <b>override-zone-location</b> <b>no protection-mode</b> <b>override-zone-location-additional-info</b> <b>radio</b> <b>recovery-ssid</b> <b>smart-mon</b> <b>swap-in-ap</b> <b>syslog</b> <b>uplink-ap</b> <b>venue-profile</b>	Disables the configuration.

**TABLE 11** Commands related to ruckus(config-ap) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# override-ap-mgmt-vlan Type: Privileged	<i>vlanTag</i> : VLAN tag (1-4094) enter 'keep' to retain the APs setting.	Overrides AP Management VLAN
ruckus(config-ap)# override-channel-select-mode Type: Privileged	<b>2.4g</b> : 2.4GHz radio <b>5g</b> : 5 GHZ radio	Overrides Auto Channel Selection Mode and Channelfly MTBC.
ruckus(config-ap)# override-client-admission-control Type: Privileged	<b>2.4g 5g</b>	Overrides the client admission control.
ruckus(config-ap)# override-smart-mon Type: Privileged		Overrides the smart monitor.
ruckus(config-ap)# override-syslog-opt Type: Privileged		Overrides the Syslog option.
ruckus(config-ap)# override-zone-location Type: Privileged		Overrides the zone location settings.
ruckus(config-ap)# override-zone-location-additional-info Type: Privileged		Overrides the zone's additional information setting on location.
ruckus(config-ap)# protection-mode Type: Privileged	2.4g \${value}	Overrides the protection mode on 2.4 GHz radio
ruckus(config-ap)# radio Type: Privileged	<b>2.4g channel</b> <i>channel</i> <b>5g channel</b> <i>channel</i> <b>2.4g channelization</b> <i>channelization</i> <b>5g channelization</b> <i>channelization</i> <b>2.4g tx-power</b> <i>tx-power</i> <b>5g tx-power</b> <i>tx-power</i> <b>2.4g wlan-service</b> <b>5g wlan-service</b> <b>2.4g wlan-group</b> <i>name</i> <b>5g wlan-group</b> <i>name</i> <b>2.4g roam</b> [ <b>enable</b>   <b>disable</b> ] <b>5g roam</b> [ <b>enable</b>   <b>disable</b> ] <b>2.4g roam-macfilt-time</b> <i>seconds (0-600)</i> Smart roam MAC filter time in seconds <b>5g roam-macfilt-time</b> <i>seconds (0-600)</i> Smart roam MAC filter time in seconds	Sets the radio channels.
ruckus(config-ap)# recovery-ssid-enabled Type: Privileged	<b>disable</b>	Overrides the enable recovery SSID broad case.
ruckus(config-ap)# smart-mon Type: Privileged	<b>interval</b> <i>between 5-60</i> <b>threshold</b> <i>between 1-10</i>	Enables the smart monitor.
ruckus(config-ap)# swap-in-ap Type: Privileged	<i>mac</i>	Sets the AP Mac IP address for swap-in.

**TABLE 11** Commands related to ruckus(config-ap) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap)# syslog Type: Privileged	<b>enable ip port</b> : Enable the syslog server  <b>enable ip port [ Local2   Keep Original   Local1   Local5   Local6   Local0   Local7   Local3   Local4 ] [ Error   Critical   Warning   All   Alert   Notice   Info   Emergency ]</b>  <b>disable</b> : Disables the syslog server	Sets the syslog server.
ruckus(config-ap)# uplink Type: Privileged	[ <b>smart</b>   <b>manual</b> ]	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)# venue-profile Type: Privileged	<i>name</i>	Sets the venue profile
ruckus(config-ap)# zone Type: Privileged	<i>name</i>	Move the access point to another zone.

Table 12 lists the related to **ap-model** configuration commands.

**TABLE 12** Commands related to ruckus(config-ap-model)

Syntax and Type	Parameters (if any)	Description
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)# ext-ant Type: Privileged	<b>2.4g number</b> : 2.4 with DBI number <b>2.4gg number [ 3   2 ]</b> : 3/2 antennas <i>numbers</i> : DBI number  <b>5g number</b> : 5g with DBI number <b>5gg number [ 2   3 ]</b> : 5gg with 2/3 antennas	Enables the external antenna.
ruckus(config-ap-model)# help Type: Privileged		Displays the help.
ruckus(config-ap-model)# internal-heater Type: Privileged		Enables the internal heater.

**TABLE 12** Commands related to ruckus(config-ap-model) (continued)

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

**TABLE 12** Commands related to ruckus(config-ap-model) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model)# radio-band Type: Privileged	<i>\$value</i>	Switches the radio band.
ruckus(config-ap-model)# usb Type: Privileged		Enables the USB port.
ruckus(config-ap-model)# usb-software Type: Privileged	<i>\$value</i>	Sets the AP USB software package.

Table 13 lists the related to **ap-model-lan1** configuration commands.

**TABLE 13** Commands related to ruckus(config-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# 8021x Type: Privileged	<i>802.1x-type</i>	Sets 802.1x.
ruckus(config-ap-model-lan1)# acct-service Type: Privileged	<i>acct-service</i>	Sets the authentication service configurations.
ruckus(config-ap-model-lan1)# auth-service Type: Privileged	<i>auth-service</i>	Sets the authentication service configurations.
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 bypass.
ruckus(config-ap-model-lan1)# members Type: Privileged	<i>members</i>	Sets the AP model configurations.
ruckus(config-ap-model-lan1)# no Type: User	<b>acct-service</b> <b>mac-bypass</b> <b>overwrite</b>	Disables or deletes the settings that have been configured.
ruckus(config-ap-model-lan1)# overwrite Type: Privileged		Enable overwriting of VLAN
ruckus(config-ap-model-lan1)# profile Type: Privileged	<i>profile</i> : Ethernet port profile	Sets Ethernet port profile
ruckus(config-ap-model-lan1)# supplicant Type: Privileged	<b>mac</b> <b>custom username password</b>	Sets the supplicant.
ruckus(config-ap-model-lan1)# type Type: Privileged	[ <b>trunk-port</b>   <b>access-port</b>   <b>general-port</b> ]	Sets the port type.

**TABLE 13** Commands related to ruckus(config-ap-model-lan1) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-model-lan1)# vlan-untag-id Type: Privileged	<i>untag-id</i> :VLAN untag ID	Sets the VLAN untag ID.
ruckus(config-ap-model-lan1)# vlan-members Type: Privileged	<i>members</i> : VLAN members	Sets the VLAN members.

Table 14 lists the related to **ap-pre-prov** configuration commands.

**TABLE 14** Commands related to ruckus(config-ap-pre-prov)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ap-pre-prov)# ip6 Type: Privileged		Sets IPV6 network settings.
ruckus(config-ap-pre-prov)# ip6 address Type: Privileged	<i>ip</i> : IP address <i>gateway</i> : Gateway	Sets the IPV6 address and gateway.
ruckus(config-ap-pre-prov)# ip6 name-server Type: Privileged	<i>primary-dns</i> : Primary DNS. <i>secondary-dns</i> : Secondary DNS	Sets the primary or secondary DNS.



## 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 enable
```

```
ruckus(config)# ap-auto-tagging rule daily-threshold threshold [ g | m ]
```

### Syntax Description

This command uses the following syntax:

#### enable

Enable the auto tagging critical APs

#### rule

Select the auto tagging rule

#### *daily-threshold*

Daily traffic bytes that exceeds the threshold rule

#### **g**

Threshold value in gigabytes

#### **m**

Threshold value in megabytes

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ap-auto-tagging enable
ruckus(config)# ap-auto-tagging rule daily-threshold 90 g
```

### Related Commands

Table 15 lists the related to **ap-auto-tagging** configuration commands.

**TABLE 15** 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.

## Configuration Commands (a - d)

### ap-auto-tagging

**TABLE 15** Commands related to ruckus(config-ap-auto-tagging) (continued)

Syntax and Type	Parameters (if any)	Description
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.
ruckus(config-ap-auto-tagging)# help Type: Privileged		Displays the help.
ruckus(config-ap-auto-tagging)# no Type: Privileged	<b>enable</b>	Disables the auto tagging for critical APs.
ruckus(config-ap-auto-tagging)# rule Type: Privileged	<i>daily-threshold</i>	Sets the auto tagging rule to daily traffic bytes, which exceeds the threshold rule.
ruckus(config-ap-auto-tagging)# threshold Type: Privileged	<i>threshold</i>	Sets the threshold value.
ruckus(config-ap-auto-tagging)# unit Type: Privileged	[ <b>m</b>   <b>g</b> ]	Sets the unit to either megabytes or gigabytes.

## 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 the default settings of enable.

### Command Mode

Config

### Example

```
ruckus(config)# ap-cert-check Successful operation
```

## ap-certificate-reset

To reset the access point certificate request that failed to update the certificate, use the following command:

```
ruckus(config)# ap-certificate-reset
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ap-certificate-reset
```

# ap-cert-expired-check

To enable checking of AP expired certificate use the following command:

## Syntax

```
ruckus(config)# ap-cert-expired-check
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# ap-cert-expired-check
```

## Related Command

```
ruckus(config)#no ap-cert-expired-check
```

Disables the checking of AP expired certificates.

## 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 uses the following syntax:

*value*

TOS value

### Default

**This command has no default settings**

### Command Mode

Config

### Example

```
ruckus(config)# ap-control-mgmt-tos 10
```

## 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 controller such as: 30, 60, 150 and 300

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ap-heartbeat 30
```

## ap-internal-subnet

To set the tunnel internal subnet use the following command:

### Syntax

```
ruckus(config)# ap-internal-subnet < ip >
```

### Syntax Description

This command has the below arguments or keywords:

ip : IP address of the subnet in the format 10.X.0.0

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ap-internal-subnet 10.0.0.0
```



## ap-zone-aggregate

To enable AP zone aggregation, use the following command:

```
ruckus(config)# ap-zone-aggregate enable
```

### Syntax Description

This command uses the following syntax:

**enable**

Enables AP zone aggregation.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ap-zone-aggregate enable
```

## auth-profile

To enter authentication service profile configuration, use the following command:

```
ruckus(config)# auth-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Authentication service profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# auth-profile aaa-auth
```

### Related Commands

- [Table 16](#) lists the related **auth profile** configuration commands.
- [Table 17](#) lists the related **auth profile realm** configuration commands.

[Table 16](#) lists the related **auth-profile** configuration commands.

**TABLE 16** Commands related to ruckus(config-auth-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-auth-profile)# aaa-interim-acct-interval Type: Privileged	<i>seconds</i>	Sets the interim accounting interval for hosted AAA server.
ruckus(config-auth-profile)# aaa-session-idle-timeout Type: Privileged	<i>seconds</i>	Set the session idle timeout for hosted AAA server.
ruckus(config-auth-profile)# aaa-session-timeout Type: Privileged	<i>seconds</i>	Set the session timeout for hosted AAA server
ruckus(config-auth-profile)# aaa-support Type: Privileged		Enables hosted AAA support.
ruckus(config-auth-profile)# default Type: Privileged		Sets default services.

**TABLE 16** Commands related to ruckus(config-auth-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-auth-profile)# description Type: Privileged	<i>text</i>	Sets the descriptions.
ruckus(config-auth-profile)# do Type: Privileged		Executes the do command.
ruckus(config-auth-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-auth-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-auth-profile)# gpp-support Type: Privileged		Enables 3GPP support.
ruckus(config-auth-profile)# help Type: Privileged		Displays the help.
ruckus(config-auth-profile)# no Type: Privileged	<b>aaa-support</b> <b>gpp-support</b> <b>realm realm</b>	Disables the commands.
ruckus(config-auth-profile)# realm Type: Privileged	<i>realm</i>	Sets the realm.
ruckus(config-auth-profile)# sgsn-mcc Type: Privileged	<i>mcc</i>	Sets the mobile country code.
ruckus(config-auth-profile)# sgsn-mnc Type: Privileged	<i>mnc</i>	Sets the mobile network code.

Table 17 lists the related **auth-profile-realm** configuration commands.

**TABLE 17** Commands related to ruckus(config-auth-profile-realm)

Syntax and Type	Parameters (if any)	Description
ruckus(config-auth-profile-realm)# auth-method Type: Privileged		Sets the authorization method.
ruckus(config-auth-profile-realm)# auth-service Type: Privileged	<i>name</i>	Sets the authentication service.
ruckus(config-auth-profile-realm)# dynamic-vlan Type: Privileged	<i>vlan-id</i>	Sets the dynamic VLAN ID.
ruckus(config-auth-profile-realm)# do Type: Privileged		Executes the do command.
ruckus(config-auth-profile-realm)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-auth-profile-realm)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-auth-profile-realm)# help Type: Privileged		Displays the help.

## bridge-profile

To create or update the bridge profile configuration, use the following command:

```
ruckus(config)# bridge-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Authorization service profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# bridge-profile auth-prof
```

### Related Commands

- [Table 18](#) lists the related **bridge-profile** configuration commands.
- [Table 18](#) lists the related **bridge-profile-dhcp-option82** configuration commands.

[Table 18](#) lists the related **bridge-profile** configuration commands.

**TABLE 18** Commands related to ruckus(config-bridge-profile) configuration

Syntax and Type	Parameters (if any)	Description
ruckus(config-bridge-profile)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-bridge-profile)# dhcp-option-82 Type: Privileged		Enables the DHCP Option 82.
ruckus(config-bridge-profile)# dhcp-relay Type: Privileged		Enables the DHCP relay. It also enable DHCP Option 82, DHCP server 1and 2,
ruckus(config-bridge-profile)# dhcp-server1 Type: Privileged	<i>ip</i>	Sets the DHCP Server 1
ruckus(config-bridge-profile)# dhcp-server2 Type: Privileged	<i>ip</i>	Sets the DHCP Server 1
ruckus(config-bridge-profile)# do Type: Privileged		Executes the do command.

**TABLE 18** Commands related to ruckus(config-bridge-profile) configuration (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bridge-profile)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-bridge-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-bridge-profile)# help Type: Privileged		Displays the help.
ruckus(config-bridge-profile)# name Type: Privileged	<i>name</i>	Set the authentication service profile name
ruckus(config-bridge-profile)# no Type: Privileged	<b>dhcp-option82</b> <b>dhcp-relay</b> <b>dhcp-server2</b> <b>relay-both</b>	Disables DHCP Option 82, DHCP Relay or deletes DHCP Server 2
ruckus(config-bridge-profile)# relay-both Type: Privileged		Enables sending DHCP requests to both the servers simultaneously.

Table 19 lists the related **bridge-profile-dhcp-option82** configuration commands.

**TABLE 19** Commands related to ruckus(config-bridge-profile-dhcp-option82)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bridge-profile-dhcp-option82)# do Type: Privileged		Executes the do command.
ruckus(config-bridge-profile-dhcp-option82)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-bridge-profile-dhcp-option82)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-bridge-profile-dhcp-option82)# help Type: Privileged		Displays the help.
ruckus(config-bridge-profile-dhcp-option82)# no Type: Privileged	<b>subopt1</b> <b>subopt150</b> <b>subopt151</b> <b>subopt2</b>	Disables various options
ruckus(config-bridge-profile-dhcp-option82)# subopt1 Type: Privileged	[ <b>ap-info</b>   <b>ap-ssid</b>   <b>ap-mac</b> ]	Enables subopt-1
ruckus(config-bridge-profile-dhcp-option82)# subopt150 Type: Privileged		Enables subopt-150

**TABLE 19** Commands related to ruckus(config-bridge-profile-dhcp-option82) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-bridge-profile-dhcp-option82)# subtopt151 Type: Privileged	<b>essid</b> <b>area-name</b> <i>name</i>	Enables subopt-151
ruckus(config-bridge-profile-dhcp-option82)# subtopt2 Type: Privileged	[ <b>ap-essid</b>   <b>ue-essid</b>   <b>ue-mac</b>   <b>ap-mac</b> ]	Enables subopt-2

# calea

## Syntax Description

This command uses the following syntax:

**ruckus(config)# calea mac**

**ruckus(config)# calea server ip**

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# calea
```

## Related Commands

The following table lists the related calea-store configuration commands.

**TABLE 20** Commands related to ruckus(config-calea) configuration

Syntax and Type	Parameters (If Any)	Description
ruckus(config-calea)# mac Type: Privileged	<i>ftp-url</i>	Updates Calea UE MAC configuration.
ruckus(config-calea)# server-ip Type: Privileged	<i>ip</i>	Updates Calea server IP configuration.

## cert-store

To create or update certificate configurations, use the following command:

```
ruckus(config)# cert-store ap-cert name
```

```
ruckus(config)# cert-store cert name
```

```
ruckus(config)# cert-store csr name
```

```
ruckus(config)# cert-store hotspot-cert name
```

```
ruckus(config)# cert-storeweb-cert name
```

## Syntax Description

```
ruckus(config)# cert-store
```

This command uses the following syntax:

**ap-cert** *name*

Create / updates the AP port certificate

**cert** *name*

Create / updates the certificate configuration

**csr** *name*

Create / updates CSR (Certificate Signing Request) configuration

**hotspot-cert** *name*

Sets the hotspot certificate

**web-cert** *name*

Sets the management web certificate

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# cert-store cert apcert  
ruckus(config-cert)#
```

## Related Commands

[Table 21](#) lists the related **cert-store** configuration commands.



**TABLE 21** Commands related to ruckus(config-cert-store) configuration

Syntax and Type	Parameters (if any)	Description
ruckus(config-cert-store)# cert Type: Privileged	<i>ftp-url</i> <i>ftp-url</i> <b>append</b>	Uploads the certificate file.
ruckus(config-cert-store)# city Type: Privileged	<i>city</i>	Sets the city
ruckus(config-cert-store)# common-name Type: Privileged	<i>domain-name</i>	Sets the domain name
ruckus(config-cert-store)# country Type: Privileged	<i>country</i>	Sets the country.
ruckus(config-cert-store)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-cert-store)# do Type: Privileged		Executes the do command.
ruckus(config-cert-store)# email Type: Privileged	<i>email</i>	Sets the email address.
ruckus(config-cert-store)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-cert-store)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-cert-store)# help Type: Privileged		Displays the help.
ruckus(config-cert-store)# inter-cert Type: Privileged	<i>ftp-url</i>	Uploads the intermediate CA certificate.
ruckus(config-cert-store)# name Type: Privileged	<i>name</i>	Sets the certificate name.
ruckus(config-cert-store)# no Type: Privileged	<b>inter-cert</b> <b>root-cert</b>	Removes the certificates.
ruckus(config-cert-store)# organization Type: Privileged	<i>org</i>	Sets the organization.
ruckus(config-cert-store)# passphrase Type: Privileged	<i>passphrase</i>	Sets the key passphrase.
ruckus(config-cert-store)# private-key Type: Privileged	<b>upload</b> <i>ftp-url</i> <b>csr</b> <i>csr-name</i>	Sets the private key.
ruckus(config-cert-store)# root-cert Type: Privileged	<i>ftp-url</i>	Select the root certificate.
ruckus(config-cert-store)# server-cert Type: Privileged	<i>ftp-url</i>	Uploads the server certificate.
ruckus(config-cert-store)# state Type: Privileged	<i>state</i>	Sets the state

**TABLE 21** Commands related to ruckus(config-cert-store) configuration (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-cert-store)# unit Type: Privileged	<i>org-unit</i>	Sets the organization unit.

# changepassword

To change the administrative password, use the following command:

```
ruckus(config)# change 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

```
ruckus(config)# change Old Password: *****  
New Password:*****
```

## 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

```
ruckus(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 <old-ip> <new-ip> <old-ip2> <new-ip2>
```

### Syntax Description

This command uses the following syntax:

```
<old-ip><new-ip> <old-ip2><new-ip2>
```

The list of IP address mapping should be enclosed in double quotes.

### 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>"
```

```
SZ(config)# cluster-ip-list "192.168.1.107:192.168.1.50 192.168.1.108:192.162.1.51"  
This requires restarting all SmartZone services.  
Do you want to continue (or input 'no' to cancel)? [yes/no] yes
```

## cluster-name

To change the cluster name.

```
ruckus(config)# cluster-name < cluster-name>
```

## Syntax Description

This command uses the following syntax:

```
cluster-name  
New cluster name
```

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# cluster-name md  
This command will restart some services. Do you want to continue (or input 'no' to cancel)? [yes/no]
```

# cluster-redundancy

To create or update a cluster redundancy configuration, use the following command:

```
ruckus(config)# cluster-redundancy
```

## Syntax Description

This command has no arguments or keywords

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# cluster-redundancy
```

## Related Commands

The [Table 22](#) lists the related cluster-redundancy configuration commands.

**TABLE 22** Commands related to ruckus(config-cluster-redundancy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-cluster-redundancy)# do Type: Privileged		Executes the do command.
ruckus(config-cluster-redundancy)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-cluster-redundancy)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-cluster-redundancy)# get-ap-keep-connected-timeout Type: Privileged		Gets the AP connected timeout.
ruckus(config-cluster-redundancy)# get-mode Type: Privileged		Gets the redundancy mode of the standby cluster
ruckus(config-cluster-redundancy)# help Type: Privileged		Displays the help.
ruckus(config-cluster-redundancy)# set-ap-keep-connected-timeout Type: Privileged		Sets the AP connected timeout.

Configuration Commands (a - d)  
cluster-redundancy

**TABLE 22** Commands related to ruckus(config-cluster-redundancy) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-cluster-redundancy)# set-mode Type: Privileged	<b>backup</b> <b>monitor</b>	Switch redundancy mode of standby cluster to either backup or monitor mode.



## controller-description

To modify or update the controller description, use the following command:

```
ruckus(config)# controller-description <controller description>
```

### Syntax Description

This command uses the following syntax:

*controller-description*

Change the controller description

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# controller-description sz300  
This command will restart some services. Do you want to continue (or input 'no' to cancel)? [yes/no]
```

## data-plane

To update the data plane 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 data plane

**forward-stp**

Disables the STP package bridge

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# data-plane indus4d1
```

### Related Commands

Table 23 lists the related **data plane** configuration commands

**TABLE 23** Commands related to ruckus(config-data-plane)

Syntax and Type	Parameters (if any)	Description
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.

**TABLE 23** Commands related to ruckus(config-data-plane) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-data-plane)# ip Type: Privileged	<p><b>address dhcp</b>: Sets the IP address of the data plane</p> <p><b>address ip mask gateway</b>: Sets the IP address of the data plane</p> <p><b>secondary ip mask</b>: Sets the IP address for the secondary Interface</p> <p><b>name-server ip secondary</b>: Set the primary and secondary DNS servers</p> <p><b>route ip mask ip</b>: Sets the static routes</p>	Updates the IP configuration.
ruckus(config-data-plane)# natip Type: Privileged	<i>ip</i> : NAT IP	Updates NAT IP configuration
ruckus(config-data-plane)# no Type: Privileged	<p><i>ip</i></p> <p><b>secondary</b></p> <p><b>name-server secondary</b></p> <p><b>natip ip</b></p> <p><b>route ip mask ip</b></p> <p><b>vlan</b></p>	Disables / deletes options.
ruckus(config-data-plane)# vlan Type: Privileged	<i>vlan-id</i> <b>secondary</b>	Updates the VLAN configuration.

## days

Displays the number of days remaining for default certificate to expire.

### Syntax

**days**

### Modes

Configuration mode

### Examples

```
rkcli(config-cert)# days  
<days>           Expired days 124-1098 or default(824), works on Default Certificate only  
rkcli(config-cert)# days 512  
  
device(mode)# command executable
```

### History

Release version	Command history
5.2.1	This command was introduced.

## diameter-system-wide

To set the Diameter system wide configuration, use the following command:

```
ruckus(config)# diameter-system-wide
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# diameter-system-wide
ruckus(config-diameter-system-wide)#
```

### Related Commands

The tables below lists [Table 24](#) .

**TABLE 24** Commands related to ruckus(config-diameter-system-wide)

Syntax and Type	Parameters (if any)	Description
ruckus(config-diameter-system-wide)# do Type: Privileged		Executes the do command.
ruckus(config-diameter-system-wide)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-diameter-system-wide)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-diameter-system-wide)# help Type: Privileged		Displays the help.
ruckus(config-diameter-system-wide)# local-host-name Type: Privileged	<name>	Updates the local host name.
ruckus(config-diameter-system-wide)# local-realm-name Type: Privileged	<name>	Updates the local realm name.
ruckus(config-diameter-system-wide)# peer-timeout Type: Privileged	<seconds>	Updates the peer expiry time in seconds.

**TABLE 24** Commands related to ruckus(config-diameter-system-wide) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-diameter-system-wide)# retry-timeout Type: Privileged	<seconds>	Updates the connection retry time in seconds.
ruckus(config-diameter-system-wide)# watch-dog-timeout Type: Privileged	<seconds>	Updates the device watch dog time in seconds.

## dns-server-service

To create or update DNS server services, use the following command.

```
ruckus(config)# dns-server-service
```

### Syntax Description

This command has the following keywords:

*name*

DNS server service name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# dns-server-service xyz
```

## Configuration Commands (a - d)

do

# 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

```
ruckus(config)# do
```



# domain

To create or update the domain configuration, use the following command:

```
ruckus(config)# domain name
```

## Syntax Description

This command uses the following syntax:

*name*

Name of the domain

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# domain indusap1
```

## Related Commands

- [Table 25](#) lists the related **domain** configuration commands.
- [Table 26](#) lists the related **domain-zone** configuration commands.
- [Table 27](#) lists the related **domain-zone-aaa** configuration commands.
- [Table 28](#) lists the related **domain-zone-ap-group** configuration commands.
- [Table 29](#) lists the related **domain-zone-ap-snmp** configuration commands.
- [Table 30](#) lists the related **domain-zone-ap-group-lldp** configuration commands.
- [Table 32](#) lists the related **domain-zone-ap-model** configuration commands.
- [Table 33](#) lists the related **domain-zone-ap-model-lan1** configuration commands.
- [Table 34](#) lists the related **domain-zone-ap-registration-rule** configuration commands.
- [Table 35](#) lists the related **domain-zone-block-client** configuration commands.
- [Table 36](#) lists the related **domain-zone-bonjour-fencing-policy** configuration commands.
- [Table 44](#) lists the related **domain-zone-bonjour-policy-rule** configuration commands.
- [Table 39](#) lists the related **domain-zone-client-isolation-whitelist** configuration commands.
- [Table 42](#) lists the related **domain-zone-bonjour-policy** configuration commands.
- [Table 45](#) lists the related **domain-zone-device-policy** configuration commands.
- [Table 46](#) lists the related **domain-zone-device-policy rule** configuration commands.
- [Table 36](#) lists the related **domain-zone-ethernet-port-profile** configuration commands.

## Configuration Commands (a - d)

### domain

- [Table 49](#) lists the related **domain zone-guest-access** configuration commands.
- [Table 50](#) lists the related **domain-zone-hotspot** configuration commands.
- [Table 54](#) lists the related **domain-zone-l2-acl** configuration commands.
- [Table 56](#) lists the related **domain-zone-web-authentication** configuration commands.
- [Table 57](#) lists the related domain-zone-wechat configuration commands.
- [Table 58](#) lists the related **domain-zone-wlan-group** configuration commands.
- [Table 59](#) lists the related **domain-zone-wlan-scheduler** configuration commands.

[Table 25](#) lists the related to **domain** configuration commands.

**TABLE 25** Commands related to ruckus(config-domain)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain)# admin Type: Privileged	<i>username rolename</i>	Adds an administrator and assign a role in the current domain.
ruckus(config-domain)# description Type: Privileged	<i>text</i>	Sets the domain description.
ruckus(config-domain)# do Type: Privileged		Executes the do command.
ruckus(config-domain)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain)# help Type: Privileged		Displays the help.
ruckus(config-domain)# no Type: Privileged	<i>admin &lt;username&gt;</i> <i>zone &lt;name&gt;</i>	Disables and deletes command configuration.
ruckus(config-domain)# parent Type: Privileged	<i>name</i>	Sets the parent domain name.
ruckus(config-domain)# zone Type: Privileged	<i>name</i> : AP zone name <i>name template name</i> : Create from template <i>name clone name</i> : Clone from an existing AP zone <i>name ap-firmware ap-firmware</i> : Change AP firmware <i>name cluster-switch-over name</i> : Enable cluster switchover	Create or update an AP zone in the current domain.
ruckus(config-domain)# zone-zd Type: Privileged	<i>ap-firmware import ftp-url</i>	Create AP zone from ZD backup file.

[Table 26](#) lists the related **domain-zone** configuration commands.

**TABLE 26** Commands related to ruckus(config-domain-zone)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# aaa Type: Privileged	<i>name</i>	Creates or updates the AAA server configuration.
ruckus(config-domain-zone)# adj-threshold Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g</b> <i>\$(value)</i> Value is minimum = 1 and maximum = 100	Sets the adjacent radio threshold of the client load balancing.
ruckus(config-domain-zone)# ap-firmware Type: Privileged	<i>ap-firmware</i>	Sets the AP firmware.
ruckus(config-domain-zone)# ap-group Type: Privileged	<i>name</i>	Creates or updates the AP group configuration.
ruckus(config-domain-zone)# ap-ip-mode Type: Privileged	[ <b>ipv4</b>   <b>ipv6</b>   <b>dual</b> ]	Sets the AP IP mode to either IPv4 or IPv6.
ruckus(config-domain-zone)# ap-logon Type: Privileged	<i>logon-id</i>	Sets the login ID for the AP administrator.
ruckus(config-domain-zone)# ap-mgmt-vlan Type: Privileged	<i>lvlanTag</i> : VLAN Tag (1-4094); enter 'keep' to keep APs setting.	Sets the AP management VLAN.
ruckus(config-domain-zone)# ap-model Type: Privileged	<i>name</i>	Sets the AP model configuration.
ruckus(config-domain-zone)# ap-password Type: Privileged		Sets the password for the AP administrator.
ruckus(config-domain-zone)# ap-ping-latency-interval Type: Privileged	<i>enable</i> <i>disable</i>	Sets the AP latency detection by enabling or disabling the AP ping.
ruckus(config-domain-zone)# ap-reboot-timeout Type: Privileged	<b>default-gateway</b> [ <i>hours and minutes</i> ] : Sets the default gateway timeout in hours and minutes. <b>control-interface</b> <i>hours</i> : Sets the control interface timeout in hours.	Sets the AP reboot timeout.
ruckus(config-domain-zone)# ap-registration-rule Type: Privileged	<i>priority</i>	Creates or updates the AP registration rule configuration.
ruckus(config-domain-zone)# ap-snmp-options Type: Privileged		Sets the AP SNMP options.
ruckus(config-domain-zone)# background-scan Type: Privileged	<b>2.4g</b> <i>seconds</i> <b>5g</b> <i>seconds</i>	Sets the background scanning.
ruckus(config-domain-zone)# band-balancing Type: Privileged	<b>2.4g int 2.4g</b> 2.4G band <i>int</i> : Percentage of clients on 2.4G band	Sets the band balance.
ruckus(config-domain-zone)# block-client Type: Privileged	<i>mac</i> : Client MAC Address	Sets to block clients.
ruckus(config-domain-zone)# bonjour-gateway Type: Privileged		Enables the bonjour gateway.

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# bonjour-policy Type: Privileged	<i>name</i>	Creates or updates the bonjour policy.
ruckus(config-domain-zone)# channel Type: Privileged	<b>2.4g</b> <i>channel</i> <b>5g indoor</b> <i>channel</i> <b>5g outdoor</b> <i>channel</i>	Sets the channel.
ruckus(config-domain-zone)# channel-evaluation-interval Type: Privileged	<i>seconds</i> : The interval value (Range: 60~3600 sec)	Sets the channel evaluation interval.
ruckus(config-domain-zone)# channel-range Type: Privileged	<b>2.4g</b> [ <i>channel</i>   <b>all</b> ] <b>5g indoor</b> [ <i>channel</i>   <b>all</b> ] <b>5g outdoor</b> [ <i>channel</i>   <b>all</b> ]	Sets the channel range.
ruckus(config-domain-zone)# channel-select-mode Type: Privileged	<b>2.4g</b> <i>value</i> <b>5g</b> <i>value</i>	Set a mode to automatically adjust AP channels.
ruckus(config-domain-zone)# channelfly-mtbc Type: Privileged	<b>2.4g</b> <i>number</i> : MTBC value (Range: 100~1440) <b>5g</b> <i>number</i>	Sets the MTBC value of ChannelFly.
ruckus(config-domain-zone)# channelization Type: Privileged	<b>2.4g</b> [ <b>20</b>   <b>40</b> ] <b>5g</b> [ <b>40</b>   <b>20</b> ]	Sets the channelization.
ruckus(config-domain-zone)# client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b> <b>2.4g minClientCount</b> <i>minClientCount</i> <b>2.4g maxRadioLoad</b> <i>maxRadioLoad</i> <b>2.4g minClientThroughput</b> <i>minClientThroughput</i> <b>5g minClientCount</b> <i>minClientCount</i> <b>5g maxRadioLoad</b> <i>maxRadioLoad</i> <b>5g minClientThroughput</b> <i>minClientThroughput</i>	Enables the client admission control.
ruckus(config-domain-zone)# client-isolation-whitelist Type: Privileged	<i>name</i> : Client isolation whitelist name	Creates or updates the client isolation whitelist.
ruckus(config-domain-zone)# country-code Type: Privileged	<i>country-code</i>	Sets the country code.
ruckus(config-domain-zone)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-domain-zone)# device-policy Type: Privileged	<i>name</i>	Sets the device policy.
ruckus(config-domain-zone)# dfs-channel Type: Privileged		Enable DFS channels for the US country code.
ruckus(config-domain-zone)# diffserv Type: Privileged	<i>name</i>	Creates or updates the diff server profile.

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone)# dos-protection Type: Privileged	<i>dosBarringPeriod</i> : DoS protection period <i>dosBarringThreshold</i> : DoS protection threshold <i>dosBarringCheckPeriod</i> : DoS protection checkperiod	Enables DoS (Denial-of-service) protection.
ruckus(config-domain-zone)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone)# ethernet-port-profile Type: Privileged	<i>name</i> :Ethernet Port Profile name.	Sets the Ethernet Port profile.
ruckus(config-domain-zone)# gps Type: Privileged	<i>latitude longitude</i>	Displays the help.
ruckus(config-domain-zone)# gps-altitude Type: Privileged	<i>altitude[floor   meters]</i> altitude value floor meters	Sets the GPS altitude.
ruckus(config-domain-zone)# guest-access Type: Privileged	<i>name</i>	Sets the guest access.
ruckus(config-domain-zone)# headroom Type: Privileged	<b>2.4g client</b> <b>5g</b> : 5 GHz radio	Sets the headroom (# of clients) of client load balancing.
ruckus(config-domain-zone)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone)# hotspot Type: Privileged	<i>name</i>	Creates or updates the WISPr hotspot configuration.
ruckus(config-domain-zone)# hotspot20-venue-profile Type: Privileged	<i>name</i>	Creates or updates the venue profile for hotspot release 2 configuration.
ruckus(config-domain-zone)# hotspot20-wlan-profile Type: Privileged	<i>name</i>	Creates or updates the WLAN profile for hotspot release 2 configuration.
ruckus(config-domain-zone)# indoor-channel Type: Privileged		Enables the indoor channels.
ruckus(config-domain-zone)# ipsec-profile Type: Privileged	<i>profile-name</i>	Sets the IPsec profile.
ruckus(config-domain-zone)# ipsec-tunnel-profile Type: Privileged	<i>\$(value)</i>	Sets the IPsec Tunnel Profile.

## Configuration Commands (a - d)

domain

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# l2-acl Type: Privileged	<i>name</i>	Sets the layer 2 access control list.
ruckus(config-domain-zone)# lbs Type: Privileged		Enables the location based service.
ruckus(config-domain-zone)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-domain-zone)# load-balancing Type: Privileged	<b>2.4g</b> <b>5g</b>	Sets the client load balancing.
ruckus(config-domain-zone)# location Type: Privileged	<i>text</i>	Sets the location.
ruckus(config-domain-zone)# location-additional-info Type: Privileged	<i>text</i>	Sets the additional information location.
ruckus(config-domain-zone)# mesh Type: Privileged		Enables mesh networking.
ruckus(config-domain-zone)# mesh-name Type: Privileged	<i>name</i>	Sets the mesh name (ESSID).
ruckus(config-domain-zone)# mesh-passphrase Type: Privileged	<i>mesh-passphrase</i>	Sets the mesh passphrase.
ruckus(config-domain-zone)# move Type: Privileged	<b>domain name</b>	Moves the zone to another domain.

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# no Type: Privileged	<b>aaa</b> <i>name</i> <b>ap-group</b> <i>name</i> <b>ap-registration-rule</b> <i>priority</i> <b>background-scan</b> <i>2.4g 5g</i> <b>band-balancing</b> <b>block-client</b> <b>bonjour-fencing</b> <b>bonjour-fencing-policy</b> <b>bonjour-gateway</b> <b>bonjour-policy</b> <b>channel-select-mode</b> <b>client-admission-control</b> <i>2.4g 5g</i> <b>client-isolation-whitelist</b> <b>description</b> <b>device-policy</b> <b>dfs-channel</b> <b>diffserv</b> <b>dos-protection</b> <b>ethernet-port-profile</b> <b>gps</b> <b>gps-altitude</b> <b>guest-access</b> <b>hotspot</b> <i>name</i> <b>hotspot20-venue-profile</b> <i>name</i> <b>hotspot20-wlan-profile</b> <b>indoor-channel</b> <b>ipsec-profile</b> <b>l2-acl</b> <b>lbs</b> <b>load-balancing</b> <b>location</b> <b>location-additional-info</b> <b>mesh</b> <b>protection-mode</b> <i>&lt;2.4g \${value}&gt;</i> <b>recovery-ssid</b> <b>roam</b> <b>soft-gre-profiles</b> <b>smart-mon</b> <b>smart-roam-disconnect-event</b> <b>syslog-enabled</b> <b>timezone-dst</b> <b>usb-software</b>	Disables and deletes commands.

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# node-affinity-profile Type: Privileged	<i>profile-name</i>	Sets the node affinity profile
ruckus(config-domain-zone)# protection-mode Type: Privileged	2.4g <i>\$(value)</i>	Overrides the protection mode on 2.4 GHz radio
ruckus(config-domain-zone)# recovery-ssid-enabled Type: Privileged	disable	Overrides the enable recovery SSID broad case.
ruckus(config-domain-zone)# rks-gre-profile Type: Privileged	<b>profile-name</b>	Sets the AP Ruckus GRE tunnel profile.
ruckus(config-domain-zone)# roam Type: Privileged	<b>2.4g</b> <b>5g</b>	Sets the smart roam.
ruckus(config-domain-zone)# rogue-ap-detection Type: Privileged	[ <b>disable</b>   <b>enable</b> ] : Disables or enables rogue access points  <b>report-all</b> [ <b>disable</b>   <b>enable</b> ] : Enables or disables all rogue devices  <b>report-only-malicious</b> [ <b>enable</b>   <b>disable</b> ] : Enables or disables only malicious rogue device types  <b>report-ssid-spoofing</b> [ <b>disable</b>   <b>enable</b> ] : Enables or disables malicious rogue devices which have SSID spoofing	Sets the report rogue access point.
ruckus(config-domain-zone)# rogue-ap-detection Type: Privileged	<b>report-same-network</b> [ <b>enable</b>   <b>disable</b> ] : Enables or disables malicious rogue devices which have same network  <b>report-mac-spoofing</b> [ <b>disable</b>   <b>enable</b> ] : Enables or disables malicious rogue devices which have MAC IP address spoofing  <b>protect-from-malicious</b> [ <b>disable</b>   <b>enable</b> ] : Enables or disables the network from malicious rogue access points	Sets the report rogue access point.
ruckus(config-domain-zone)# secondary-channel Type: Privileged	5g indoor [ <i>Secondary channel</i> ]  5g outdoor[ <i>Secondary channel</i> ]	Sets the secondary channel.
ruckus(config-domain-zone)# smart-mon Type: Privileged	<b>interval</b> <i>value</i>  <b>threshold</b> <i>value</i>	Sets the smart monitor interval.
ruckus(config-domain-zone)# smart-roam-disconnect-event Type: Privileged		Enables smart roam disconnect event.
ruckus(config-zone)# soft-gre-profiles Type: Privileged	<profile-name> <profile-name> <profile-name> - Select the first, second and third SoftGRE tunnel profile  <profile-name> <profile-name> - Select the first and second SoftGRE tunnel profile  <profile-name> - Select the first SoftGRE tunnel profile	Sets AP SoftGRE tunnel profiles



**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# syslog-enabled Type: Privileged		Enables the external syslog server for APs for the specified zone.
ruckus(config-domain-zone)# syslog-facility Type: Privileged	[ <b>Local6</b>   <b>Keep Original</b>   <b>Local0</b>   <b>Local5</b>   <b>Local7</b>   <b>Local1</b>   <b>Local4</b>   <b>Local3</b>   <b>Local2</b> ]	Sets the syslog server facility,
ruckus(config-domain-zone)# syslog-ip Type: Privileged	<i>ip</i>	Sets the IP address for the syslog server.
ruckus(config-domain-zone)# syslog-ip6 Type: Privileged	<i>ipv6</i>	Sets the IPv6 address for the syslog server.
ruckus(config-domain-zone)# syslog-port Type: Privileged	<i>port</i>	Sets the port number for the syslog server.
ruckus(config-domain-zone)# syslog-priority Type: Privileged	[ <b>Alert</b>   <b>Info</b>   <b>Critical</b>   <b>Warning</b>   <b>Notice</b>   <b>Emergency</b>   <b>All</b>   <b>Error</b> ]	Sets the syslog server priority.
ruckus(config-domain-zone)# timezone Type: Privileged	<b>System</b> : Follows the controller time zone setting  <b>System</b> [ <i>time zone</i> ]  Select the time zone from system database  <b>User-defined</b> [ <i>time zone abbr.</i> ]  User defined time zone  Time zone abbreviation (example: GMT, CST, EST)	Sets the timezone for zone.
ruckus(config-domain-zone)# timezone-dst Type: Privileged	[ <i>Start</i>   <i>End</i> ] <i>order weekday month hour</i>	Sets the user defined timezone for daylight savings.
ruckus(config-domain-zone)# timezone-gmt-offset Type: Privileged	[ <i>hour</i>   <i>hour:</i> ] <i>minute</i> : For example, 8, -7:45	Sets the user defined timezone for GMT offset.
ruckus(config-domain-zone)# tunnel-profile Type: Privileged	<i>profile-name</i>	Sets the AP GRE tunnel profile.
ruckus(config-domain-zone)# tunnel-type Type: Privileged	[ <b>gre</b>   <b>gre-udp</b> ]	Sets the tunnel type.
ruckus(config-domain-zone)# tx-power Type: Privileged	<b>2.4g</b> <i>\$(value)</i>  <b>5g</b> <i>\$(value)</i>  Value is minimum = 1 and maximum = 100	Sets the TX power adjustment.
ruckus(config-domain-zone)# usb-software Type: Privileged	<b>upload</b> <i>ftp-url</i>	Sets the AP USB software package.
ruckus(config-domain-zone)# venue-code Type: Privileged	<i>code</i> Venue Code	Sets the venue code.
ruckus(config-domain-zone)# venue-profile Type: Privileged	<i>name</i>	Sets the venue profile.

**TABLE 26** Commands related to ruckus(config-domain-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone)# vlan-overlapping Type: Privileged		Enables the overlapping of VLAN pooling.
ruckus(config-domain-zone)# vlan-pooling Type: Privileged	<i>name</i>	Creates or updates the VLAN pooling profile.
ruckus(config-domain-zone)# weak-bypass Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g</b> <i>\$(value)</i> Value is minimum = 1 and maximum = 100	Sets the weak bypass threshold of the client load balancing.
ruckus(config-domain-zone)# web-authentication Type: Privileged	<i>name</i>	Sets the web authentication.
ruckus(config-domain-zone)# wechat Type: Privileged	<i>name</i> : WeChat name	Create/update WeChat configuration.
ruckus(config-domain-zone)# wlan Type: Privileged	<i>name</i>	Creates or updates the WLAN/ ESSID configuration.
ruckus(config-domain-zone)# wlan-group Type: Privileged	<i>name</i>	Creates or updates the WLAN group configuration.
ruckus(config-domain-zone)# wlan-scheduler Type: Privileged	<i>name</i>	Creates or updates the WLAN scheduler configuration.

Table 27 lists the related **domain-zone-aaa** configuration commands.

**TABLE 27** Commands related ruckus(config-domain-zone-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-aaa)# admin-domain Type: Privileged		Enables the admin domain name.
ruckus(config-domain-zone-aaa)# admin-domain-name Type: Privileged	<i>admin-domain</i>	Creates or updates the admin domain.
ruckus(config-domain-zone-aaa)# admin-password Type: Privileged	<i>admin-password</i>	Creates or updates the admin password.
ruckus(config-domain-zone-aaa)# backup Type: Privileged	<b>ip</b> <i>ip</i> <b>ipv6</b> <i>ipv6</i> <b>port</b> <i>port</i> <b>shared-secret</b> <i>shared-secret</i>	Enables backup of RADIUS support and set related settings.
ruckus(config-domain-zone-aaa)# base-domain Type: Privileged	<i>base-domain</i>	Set the base domain.
ruckus(config-domain-zone-aaa)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-domain-zone-aaa)# do Type: Privileged		Executes the do command.

**TABLE 27** Commands related ruckus(config-domain-zone-aaa) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-aaa)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-aaa)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-aaa)# global-catalog Type: Privileged		Enables the global catalog support.
ruckus(config-domain-zone-aaa)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-aaa)# ip Type: Privileged	<i>ip</i>	Set IP addresses of primary RADIUS server.
ruckus(config-domain-zone-aaa)# ipv6 Type: Privileged	<i>ipv6</i>	Set IPv6 addresses of primary RADIUS server.
ruckus(config-domain-zone-aaa)# key-attribute Type: Privileged	<i>key-attribute</i>	Sets the key attributes for the primary RADIUS server.
ruckus(config-domain-zone-aaa)# no Type: Privileged	<b>backup</b> <b>global-catalog</b> <b>no-response-fail</b>	Disables or deletes configuration settings.
ruckus(config-domain-zone-aaa)# password Type: Privileged	<i>password</i>	Sets the password for the primary RADIUS server.
ruckus(config-domain-zone-aaa)# port Type: Privileged	<i>port</i>	Sets the port number of the primary RADIUS server.
ruckus(config-domain-zone-aaa)# search-filter Type: Privileged	<i>search-filter</i>	Sets the search filter.
ruckus(config-domain-zone-aaa)# shared-secret Type: Privileged	<i>shared-secret</i>	Sets the shared secret of the primary RADIUS server.
ruckus(config-domain-zone-aaa)# test Type: Privileged	<i>username password [ PAP   CHAP ]</i>	Tests the RADIUS server based on the user credentials and protocol settings.
ruckus(config-domain-zone-aaa)# test-acct Type: Privileged		Tests the accounting server.
ruckus(config-domain-zone-aaa)# type Type: Privileged	[ <b>radius   radius-acct   LDAP   AD</b> ]	Sets the RADIUS type.
ruckus(config-domain-zone-aaa)# windows-domain Type: Privileged	<i>windows-domain</i>	Sets the windows domain name.

Table 28 lists the related **domain-zone-ap-group** configuration commands.

**TABLE 28** Commands related to ruckus(config-domain-zone-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group)# ani-ofdm-level Type: Privileged	<i>ap-mode</i> : AP model name	Sets the AP adaptive noise immunity level for specific AP model.
ruckus(config-domain-zone-ap-group)# channel Type: Privileged		
ruckus(config-domain-zone-ap-group)# channel Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g indoor</b> <i>\$(value)</i> <b>5g outdoor</b> <i>\$(value)</i>	Sets the channel.
ruckus(config-domain-zone-ap-group)# channel-evaluation-interval Type: Privileged	<i>seconds</i> : The interval value (60~3600 secs)	Sets the channel evaluation interval.
ruckus(config-domain-zone-ap-group)# channel-range Type: Privileged	<b>2.4g</b> [ <i>channels</i>   <b>all</b> ]: 2.4GHz radio <b>5g indoor</b> [ <i>channels</i>   <b>all</b> ]: 5GHz radio <b>5g outdoor</b> [ <i>channels</i>   <b>all</b> ]: 5GHz radio	Set channel range.
ruckus(config-domain-zone-ap-group)# channel-select-mode Type: Privileged	<b>2.4g</b> <i>\$(value)</i> : 2.4GHz radio <b>5g</b> <i>\$(value)</i> : 5GHz radio	Automatically adjusts the AP channels.
ruckus(config-domain-zone-ap-group)# channelfly-mtbc Type: Privileged	<b>2.4g</b> <i>\$(number)</i> : 2.4GHz radio <i>number</i> : MTBC value range:100-1440 <b>5g</b> <i>\$(number)</i> : 5Hz radio <i>number</i> : MTBC value range:100-1440	Set MTBC value of Channelfly.
ruckus(config-domain-zone-ap-group)# channelization Type: Privileged	<b>2.4g</b> [ <b>20</b>   <b>40</b> ] <b>5g</b> [ <b>40</b>   <b>20</b> ]	Sets the channelization.
ruckus(config-domain-zone-ap-group)# client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b> <b>2.4g minClientCount</b> <i>minClientCount</i> Min Client Count (Default: 10) <b>2.4g maxRadioLoad</b> <i>maxRadioLoad</i> Max Radio Load (Default: 75%)	Enables the client admission control.

**TABLE 28** Commands related to ruckus(config-domain-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group)# client-admission-control  Type: Privileged	<b>2.4g minClientThroughput</b> <i>minClientThroughput</i> :  Min Client Throughput (Default: 0.0Mbps)  <b>5g minClientCount</b> <i>minClientCount</i>  Min Client Count (Default: 20)  <b>5g maxRadioLoad</b> <i>maxRadioLoad</i>  Max Radio Load (Default: 75%)  <b>5g minClientThroughput</b> <i>minClientThroughput</i>  Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-domain-zone-ap-group)# description  Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-ap-group)# do  Type: Privileged		Executes the do command.
ruckus(config-domain-zone-ap-group)# end  Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-ap-group)# exit  Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-ap-group)# external-antenna  Type: Privileged	<i>ap-model</i> <b>5g</b> [ <b>disable</b>   <b>enable</b> ]  <i>ap-model</i> <b>5g gain</b> <i>gain</i>  <i>ap-model</i> <b>2.4g gain</b> <i>gain</i>  <i>ap-model</i> <b>2.4g</b> [ <b>enable</b>   <b>disable</b> ]  <i>ap-model</i> <b>gain</b> <i>gain</i>  <i>ap-model</i> [ <b>disable</b>   <b>enable</b> ]  <i>ap-model</i> <b>2.4g</b> [ <b>3-antennas</b>   <b>2-antennas</b> ]  <i>ap-model</i> <b>5g</b> [ <b>3-antennas</b>   <b>2-antennas</b> ]	Sets the external antenna for specific AP model.
ruckus(config-domain-zone-ap-group)# gps  Type: Privileged	<i>latitude</i> <i>longitude</i>	Displays the help.
ruckus(config-domain-zone-ap-group)# gps-altitude  Type: Privileged	<i>altitude</i> [ <b>floor</b>   <b>meters</b> ]	Sets the GPS altitude.
ruckus(config-domain-zone-ap-group)# help  Type: Privileged		Displays the help.
ruckus(config-domain-zone-ap-group)# internal-heater  Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the internal heater for specific AP model.
ruckus(config-domain-zone-ap-group)# lbs  Type: Privileged		Enables the location based service.

**TABLE 28** Commands related to ruckus(config-domain-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-domain-zone-ap-group)# led-mode Type: Privileged	<i>ap-model</i>	Sets the LED mode for specific AP model.
ruckus(config-domain-zone-ap-group)# lldp Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the LLDP for a specific AP model.
ruckus(config-domain-zone-ap-group)# location Type: Privileged		Sets the location.
ruckus(config-domain-zone-ap-group)# location-additional-info Type: Privileged	<i>text</i>	Sets the additional information location.
ruckus(config-domain-zone-ap-group)# member Type: Privileged	<b>add</b> <i>ap-mac</i> <b>move-to</b> <i>apgroup-name ap-mac</i> <b>remove</b> <i>mac</i>	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-domain-zone-ap-group)# no Type: Privileged	<b>ani-ofdm-level</b> <b>channel 2.4g</b> <b>channel 5g indoor</b> <b>channel 5g outdoor</b> <b>channel-evaluation-interval</b> <b>channel-select-mode</b> <b>channel-range</b> <b>channelization 2.4g</b> <b>channelization 5g</b> <b>client-admission-control</b> <b>description</b> <b>external-antenna</b> <i>ap-model 5g</i> <b>external-antenna</b> <i>ap-model 2.4g</i> <b>gps</b> <b>internal heater</b> <b>lbs</b> <b>led-mode</b> <b>lldp</b> <b>location</b> <b>location-additional-info</b>	Disables / deletes the configuration settings.

**TABLE 28** Commands related to ruckus(config-domain-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group)# no Type: Privileged	<b>override-ap-mgmt-vlan</b> <b>override-channel-select-mode</b> <b>override-client-admission-control</b> <b>override-lbs</b> <b>override-zone-location</b> <b>override-zone-location-additional-info</b> <b>poe-operating-mode</b> <b>poe-out</b> <b>port-setting</b> <b>radio-band</b> <b>recovery-ssid</b> <b>status-leds</b> <b>tx-power 2.4g</b> <b>tx-power 5g</b> <b>usb-port</b> <b>usb-software</b> <b>venue-profile</b> <b>wlan-group 2.4g</b> <b>wlan-group 5g</b>	Disables / deletes the configuration settings.
ruckus(config-domain-zone-ap-group)# override-ap-mgmt-vlan Type: Privileged	<i>vlanTag</i>	Overrides the AP Management VLAN.
ruckus(config-domain-zone-ap-group)# override-channel-select-mode Type: Privileged	<b>2.4g</b> <b>5g</b>	Overrides auto channel selection mode and ChannelFly MTBC.
ruckus(config-domain-zone-ap-group)# override-client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b>	Overrides the client admission control settings.
ruckus(config-domain-zone-ap-group)# override-lbs Type: Privileged		Overrides the location based service to zone settings.
ruckus(config-domain-zone-ap-group)# override-zone-location Type: Privileged		Overrides the zone location setting.
ruckus(config-domain-zone-ap-group)# override-zone-location-additional-info Type: Privileged		Overrides the zone location additional information setting.
ruckus(config-domain-zone-ap-group)# poe-operating-mode Type: Privileged	<i>ap-model</i> : AP model name	Switches the PoE Operating Mode for specific AP model

**TABLE 28** Commands related to ruckus(config-domain-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group)# poe-out Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the PoE out port for a specific AP model.
ruckus(config-domain-zone-ap-group)# port-setting Type: Privileged	<i>ap-model</i>	Sets the port settings for specific AP model.
ruckus(config-domain-zone-ap-group)# protection-mode Type: Privileged	2.4g <i>{value}</i>	Overrides the protection mode on 2.4 GHz radio
ruckus(config-domain-zone-ap-group)# radio-band Type: Privileged	<i>ap-model</i> [ <b>2.4g</b>   <b>5g</b> ]	Switches the radio band for a specific AP model.
ruckus(config-domain-zone-ap-group)# recovery-ssid-enabled Type: Privileged	disable	Overrides the enable recovery SSID broad case.
ruckus(config-domain-zone-ap-group)# status-leds Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the status LED for specific AP model.
ruckus(config-domain-zone-ap-group)# tx-power Type: Privileged	<b>2.4g</b> <i>{value}</i> <b>5g</b> <i>{value}</i>	Sets the TX power adjustment.
ruckus(config-domain-zone-ap-group)# usb-port Type: Privileged	<i>ap-model</i> [ <b>disable</b>   <b>enable</b> ]	Sets the USB port for a specific AP model.
ruckus(config-domain-zone-ap-group)# usb-software Type: Privileged	<i>ap-model</i> :AP model name	Sets AP USB software package for a specific AP model
ruckus(config-domain-zone-ap-group)# venue-profile Type: Privileged	<i>name</i> : Venue profile	Sets the venue profile.
ruckus(config-domain-zone-ap-group)# wlan-group Type: Privileged	<b>2.4g</b> <b>5g</b>	Sets the WLAN group configurations.

Table 29 lists the related domain zone-ap-snmp-options configuration commands.

**TABLE 29** Commands related to ruckus(config-domain zone-ap-snmp configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-snmp)# ap-snmp Type: Privileged		Enables AP SNMP.
ruckus(config-domain-zone-ap-snmp)# no Type: Privileged	<b>ap-snmp</b> <b>snmp-v2-community</b> <i>name</i> <b>snmp-v3-username</b>	Disables the settings that have been configured with these commands.
ruckus(config-domain-zone-ap-snmp)# snmp-v2-community Type: Privileged	<i>name</i> : Community name	Adds or updates the AP SNMPv2 community.
ruckus(config-domain-zone-ap-snmp)# snmp-v3-user Type: Privileged	<i>name</i> : User name	Adds or updates the AP SNMPv3 user.

Table 30 lists the related domain-zone-ap-group-lldp configuration commands.



**TABLE 30** Commands related to ruckus(config-domain-zone-ap-group lldp)

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

Table 31 lists the related **domain-zone-ap-group-port-setting** configuration commands.

**TABLE 31** Commands related to ruckus(config-domain-zone-ap-group-port-setting)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-group-port-setting)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-ap-group-port-setting)# dot1x Type: Privileged	<b>authsvr</b> [ <i>Authenticator Server Name</i> ] <b>acsvr name</b> <b>mac-auth-bypass</b> [ <b>true</b>   <b>false</b> ] <b>supplicant user-name</b> [ <i>user name</i> <i>password password</i> ] <b>supplicant mac</b>	Sets the 802.1x role
ruckus(config-domain-zone-ap-group-port-setting)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-ap-group-port-setting)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-ap-group-port-setting)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-ap-group-port-setting)# lan Type: Privileged	<i>port</i> <b>port uplink</b> [ <b>general</b>   <b>access</b>   <b>trunk</b> ] <b>port untag</b> <i>vlan</i> <b>port member</b> <i>vlan-members</i> <b>port dot1x</b> [ <b>auth-mac-based</b>   <b>disabled</b>   <b>auth-port-based</b>   <b>supplicant</b> ]	Enables or disable specific port.
ruckus(config-domain-zone-ap-group-port-setting)# no Type: Privileged	<b>dot1x acsvr</b> <b>lan port</b>	Disables or deletes the configuration settings.

Table 32 lists the related to **zone-ap-model** configuration commands.

**TABLE 32** Commands related to ruckus(config-zone-ap-model)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-model)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-ap-model)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-ap-model)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-ap-model)# ext-ant Type: Privileged	<b>2.4g number</b> <b>2.4g number [ 3   2 ]</b> <b>5g number</b> <b>5gg number [ 2   3 ]</b>	Sets the external antenna.
ruckus(config-domain-zone-ap-model)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-ap-model)# internal-heater Type: Privileged		Enables international heater.
ruckus(config-domain-zone-ap-model)# lan1 ruckus(config-domain-zone-ap-model)# lan2 ruckus(config-domain-zone-ap-model)# lan3 ruckus(config-domain-zone-ap-model)# lan4 ruckus(config-domain-zone-ap-model)# lan5 Type: Privileged		Sets the LAN configurations from 1 to 5.
ruckus(config-domain-zone-ap-model)# led Type: Privileged		Enables the status of led.
ruckus(config-domain-zone-ap-model)# led-mode Type: Privileged		Sets the led mode description
ruckus(config-domain-zone-ap-model)# lldp Type: Privileged		Enables the Link Layer Discovery Protocol (LLDP).
ruckus(config-domain-zone-ap-model)# lldp-ad-interval Type: Privileged	<i>seconds</i>	Sets the LLDP advertise interval.
ruckus(config-domain-zone-ap-model)# lldp-hold-time Type: Privileged	<i>seconds</i>	Sets the LLDP hold time.
ruckus(config-domain-zone-ap-model)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.

**TABLE 32** Commands related to ruckus(config-zone-ap-model) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-model)# no Type: Privileged	<b>ext-ant</b> <b>internal-heater</b> <b>lan1</b> <b>lan2</b> <b>lan3</b> <b>lan4</b> <b>lan5</b> <b>led</b> <b>lldp</b> <b>lldp-mgmt</b> <b>poe-operating-mode</b> <b>poe-out-port</b> <b>radio-band</b> <b>usb-port</b> <b>usb-software</b>	Disables or deletes the settings that have been configured.
ruckus(config-domain-zone-ap-model)# poe-operating-mode Type: Privileged	<i>\${value}</i>	Switches the PoE mode
ruckus(config-domain-zone-ap-model)# poe-out-port Type: Privileged		Enables the PoE out port
ruckus(config-domain-zone-ap-model)# radio-band Type: Privileged	<i>\${value}</i>	Switches the radio band for a specific AP model.
ruckus(config-domain-zone-ap-model)# usb-port Type: Privileged		Enables USB port.
ruckus(config-domain-zone-ap-model)# usb-software Type: Privileged		Sets AP USB software package.

Table 33 lists the related **domain-zone-ap-model-lan1** configuration commands.

**TABLE 33** Commands related to ruckus(config-domain-zone-ap-model-lan1)

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

**TABLE 33** Commands related to ruckus(config-domain-zone-ap-model-lan1) (continued)

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

Table 34 lists the related **domain-zone-ap-registration-rule** configuration commands.

**TABLE 34** Commands related to ruckus(config-domain-zone-ap-registration-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-registration-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-ap-registration-rule)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-ap-registration-rule)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-ap-registration-rule)# exit Type: Privileged		Exits from the EXEC.

**TABLE 34** Commands related to ruckus(config-domain-zone-ap-registration-rule) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-registration-rule)# gps Type: Privileged	<i>latitude longitude distance</i>	Sets the GPS coordinates.
ruckus(config-domain-zone-ap-registration-rule)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-ap-registration-rule)# ip-range Type: Privileged	<i>ip ip</i>	Sets the IP address range from and to IP address.
ruckus(config-domain-zone-ap-registration-rule)# provision-tag Type: Privileged	<i>tag</i>	Sets the provision tags.
ruckus(config-domain-zone-ap-registration-rule)# subnet Type: Privileged	<i>ip mask</i>	Sets the subnet IP address and subnet mask.
ruckus(config-domain-zone-ap-registration-rule)# type Type: Privileged	[ <b>gps</b>   <b>provision-tag</b>   <b>ip-range</b>   <b>subnet</b> ]	Sets the rule type.

Table 35 lists the related domain-zone-block-client configuration commands.

**TABLE 35** Commands related to ruckus(config-domain-zone-block-client)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-block-client)# description Type: Privileged	<i>text</i>	Sets the description.

Table 36 lists the related domain-zone-bonjour-fencing-policy configuration commands.

**TABLE 36** Commands related to ruckus(config-domain-zone-bonjour-fencing-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone- bonjour-fencing-policy)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone- bonjour-fencing-policy)# no Type: Privileged	<b>description</b> <b>rulerule index</b>	Sets to delete sub commands.
ruckus(config-domain-zone- bonjour-fencing-policy)# rule Type: Privileged	<i>index: rule index</i>	Sets the bonjour fencing rule.

Table 37 lists the related domain-zone-bonjour-policy-rule configuration commands.

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**TABLE 37** Commands related to ruckus(config-domain-zone-bonjour-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-bonjour-policy-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-bonjour-policy-rule)# no Type: Privileged	<b>rule</b> <i>rule index</i>	Sets to delete sub commands.
ruckus(config-domain-zone-bonjour-policy-rule)# rule Type: Privileged	<i>index: rule index</i>	Sets the bonjour fencing rule.

Table 139 on page 374 lists the related **domain zone-bonjour-fencing-policy-rule** configuration commands.

**TABLE 38** Commands related to ruckus(config-domain-zone-bonjour-fencing-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# closest-ap Type: Privileged	<text>	Sets the configuration to the closest AP.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# description Type: Privileged	<text>	Sets the description.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# device-mac-list Type: Privileged	\$(value)	Lists the devices, which use MAC address.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# device-type Type: Privileged		Sets the device type.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# fence-range Type: Privileged		Sets the fence range.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# no Type: Privileged	<i>device-mac-list</i>	Disables the configuration.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# service-type Type: Privileged		Sets the service type.

Table 39 lists the related domain-zone-client-isolation-whitelist configuration commands.

**TABLE 39** Commands related to ruckus(config-zone-domain-client-isolation-whitelist)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-client-isolation-whitelist)# auto Type: Privileged		Enables the auto whitelist. Each entry must have an IP address in order to enable auto whitelist.
ruckus(config-domain-zone-client-isolation-whitelist)# description Type: Privileged	<i>text</i>	Sets the description.

**TABLE 39** Commands related to ruckus(config-zone-domain-client-isolation-whitelist) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-client-isolation-whitelist)# entry Type: Privileged	<i>index</i> : entry index	Sets the client isolation entry.
ruckus(config-domain-zone-client-isolation-whitelist)# no Type: Privileged	<b>auto</b> <b>description</b> <b>entry</b>	Sets to delete sub command

Table 40 lists the related domain **zone-ap-snmp-options-snmp-v2-community** configuration commands.

**TABLE 40** Commands related to ruckus(config-domain zone-ap-snmp-options-snmp-v2-community configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# no Type: Privileged	<b>notification</b> <b>notification-target</b> <b>read</b> <b>snmp-v2-community</b> <i>name</i> <b>snmp-v3-user</b> <i>name</i> <b>write</b>	Disables the settings that have been configured with these commands.
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# notification Type: Privileged		Enable notification privilege
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# notification-target Type: Privileged		Enable notification target configuration commands.
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# notification-type Type: Privileged		Sets the notification type
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# read Type: Privileged		Enable the read privilege.
ruckus(config-domain-zone-ap-snmp-options-snmp-v2-community)# write Type: Privileged		Enable the write privilege.

Table 41 lists the related **config-domain-zone-ap-snmp-options-snmp-v3-user** configuration commands.

**TABLE 41** Commands related to ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# auth Type: Privileged		Sets SNMPv3 user authentication.

**TABLE 41** Commands related to ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user configuration) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# no Type: Privileged	<b>notification'</b> <b>notification-target</b> <b>read</b> <b>write</b> <b>snmp-v3-user</b> <i>name</i>	Disables the settings that have been configured with these commands.
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# notification Type: Privileged		Enable notification privilege.
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# notification-target Type: Privileged		Enable notification target configuration commands.
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# notification-type Type: Privileged		Sets the notification type
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# privacy Type: Privileged	<b>none</b> <b>des</b> <i>privacy-phrase</i> : DES privacy phrase.	Set SNMPv3 user privacy.
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# read Type: Privileged		Enable the read privilege.
ruckus(config-domain-zone-ap-snmp-options-snmp-v3-user)# write Type: Privileged		Enable the write privilege.

Table 42 lists the related **domain-zone-bonjour-policy** configuration commands.

**TABLE 42** Commands related to ruckus(config-domain-zone-bonjour-policy)

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



**TABLE 42** Commands related to ruckus(config-domain-zone-bonjour-policy) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-bonjour-policy)# rule Type: Privileged	<i>priority</i>	Sets the bonjour policy set of rules based on the rule priority.

Table 44 lists the related **zone-bonjour-policy-rule** configuration commands.

**TABLE 43** Commands related to ruckus(config-domain-zone-bonjour-fencing-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# closest-ap Type: Privileged	<text>	Sets the configuration to the closest AP.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# description Type: Privileged	<text>	Sets the description.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# device-mac-list Type: Privileged	\${value}	Lists the devices, which use MAC address.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# device-type Type: Privileged		Sets the device type.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# fence-range Type: Privileged		Sets the fence range.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# no Type: Privileged	<i>device-mac-list</i>	Disables the configuration.
ruckus(config-domain-zone-bonjour-fencing-policy-rule)# service-type Type: Privileged		Sets the service type.

Table 44 lists the related **domain-zone-bonjour-policy-rule** configuration commands.

**TABLE 44** Commands related to ruckus(config-domain-zone-bonjour-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-bonjour-policy-rule)# bridge-service  Type: Privileged	<b>airdisk</b> <b>airplay</b> <b>airport-management</b> <b>airprint</b> <b>airtunes</b> <b>apple-file-sharing</b> <b>apple-mobile-devices</b> (Allows sync with iTunes over Wi-Fi) <b>appletv</b> <b>icloud-sync</b> <b>itunes-remote</b> <b>itunes-sharing</b> <b>open-directory-master</b> <b>optical-disk-sharing</b> <b>other</b> <b>screen-sharing</b> <b>secure-file-sharing</b> <b>secure-shell</b> <b>workgroup-manager</b> <b>www-http</b> <b>www-https</b> <b>xgrid</b>	Sets the bridge service.
ruckus(config-domain-zone-bonjour-policy-rule)# from-vlan  Type: Privileged	<i>int</i>	Sets the from VLAN.
ruckus(config-domain-zone-bonjour-policy-rule)# notes  Type: Privileged	<i>int</i>	Sets the notes.
ruckus(config-domain-zone-bonjour-policy-rule)# protocol  Type: Privileged		Sets the bridge service when it is 'other'.
ruckus(config-domain-zone-bonjour-policy-rule)# to-vlan  Type: Privileged	<i>int</i>	Sets the VLAN.

Table 45 lists the related **domain-zone-device-policy** configuration commands.

**TABLE 45** Commands related to ruckus(config-domain-zone-device-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-device-policy)# default-action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the default action to either allow or block.
ruckus(config-domain-zone-device-policy)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-device-policy)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-device-policy)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-device-policy)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-device-policy)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-device-policy)# no policy-rule Type: Privileged	<i>Device Type</i>	Deletes the device policy rules.
ruckus(config-domain-zone-device-policy)# policy-rule Type: Privileged		Sets the device policy.

Table 46 lists the related **domain-zone-device-policy-policy-rule** configuration commands.

**TABLE 46** Commands related to ruckus (config-domain-zone-device-policy-policy rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-device-policy-policy-rule)# action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the default action to either allow or block.
ruckus(config-domain-zone-device-policy-policy-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-device-policy-policy-rule)# downlink Type: Privileged	[ <i>Rate Limiting</i> ] Rate limiting (mbps)	Sets the downlink rate limiting.
ruckus(config-domain-zone-device-policy-policy-rule)# no vlan Type: Privileged		Resets the VLAN number.
ruckus(config-domain-zone-device-policy-policy-rule)# type Type: Privileged	[ <i>Device Type</i> ]	Sets the device type.
ruckus(config-domain-zone-device-policy-policy-rule)# uplink Type: Privileged	[ <i>Rate Limiting</i> ] Rate limiting (mbps)	Sets the uplink rate limiting.

**TABLE 46** Commands related to ruckus (config-domain-zone-device-policy-policy rule) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-device-policy-policy-rule)# vlan Type: Privileged	[ <i>VLAN Number</i> ]	Sets the VLAN number.

Table 47 lists the related **domain-zone-diffserv** configuration commands.

**TABLE 47** Commands related to ruckus(config-domain-zone-diffserv)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-diffserv)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-diffserv)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-diffserv)# downlink-diffserv Type: Privileged	<i>value</i>	Enables the tunnel diffserv downlink and sets the diffserv number.
ruckus(config-domain-zone-diffserv)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-diffserv)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-diffserv)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-diffserv)# no Type: Privileged	<b>description</b> <b>downlink-diffserv</b> <b>preserved-diffserv</b> <b>uplink-diffserv</b>	Disables various options.
ruckus(config-domain-zone-diffserv)# preserved-diffserv Type: Privileged	<i>value</i>	Adds the preserved diffserv number.
ruckus(config-domain-zone-diffserv)# uplink-diffserv Type: Privileged	<i>value</i>	Enables the tunnel diffserv uplink and sets the diffserv number.

Table 36 lists the related domain-zone-ethernet-port-profile configuration commands.

**TABLE 48** Commands related to ruckus(config-domain-ethernet-port-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ethernet-port-profile)# 8021x Type: Privileged	<i>text</i>	Sets the 802.1x.
ruckus(config-domain-zone-ethernet-port-profile)# 8021x-enable Type: Privileged		Enable 802.1x

**TABLE 48** Commands related to ruckus(config-domain-ethernet-port-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ethernet-port-profile)# acct-service Type: Privileged	<i>acct-service</i>	Sets the accounting service.
ruckus(config-domain-zone-ethernet-port-profile)# auth-service Type: Privileged	<i>auth-service</i>	Sets the authentication service.
ruckus(config-domain-zone-ethernet-port-profile)# client-visibility Type: Privileged		Enables client visibility regardless of 802.1X authentication
ruckus(config-domain-zone-ethernet-port-profile)# dvlan Type: Privileged		Enables the dynamic VLAN.
ruckus(config-domain-zone-ethernet-port-profile)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-ethernet-port-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-ethernet-port-profile)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-ethernet-port-profile)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-ethernet-port-profile)# guest-vlan Type: Privileged	<i>guest-vlan-id</i>	Enables the dynamic guest VLAN.
ruckus(config-domain-zone-ethernet-port-profile)# mac-bypass Type: Privileged		Enables the MAC authentication bypass.
ruckus(config-domain-zone-ethernet-port-profile)# no Type: Privileged	<b>8021x-enable</b> <b>acct-service</b> <b>client-visibility</b> <b>dvlan</b> <b>mac-bypass</b> <b>proxy-acct</b> <b>proxy-auth</b> <b>tunnel</b>	Disables various options.
ruckus(config-domain-zone-ethernet-port-profile)# proxy-acct Type: Privileged		Enables proxy accounting service.

**TABLE 48** Commands related to ruckus(config-domain-ethernet-port-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-ethernet-port-profile)# proxy-auth Type: Privileged		Enables proxy authentication service.
ruckus(config-domain-zone-ethernet-port-profile)# supplicant Type: Privileged	<b>mac</b> - MAC IP address <b>customusername</b> <b>password</b>	Sets the supplicant.
ruckus(config-domain-zone-ethernet-port-profile)# tunnel Type: Privileged		Enables tunnel.
ruckus(config-domain-zone-ethernet-port-profile)# type Type: Privileged		Sets the port type.
ruckus(config-domain-zone-ethernet-port-profile)# vlan-members Type: Privileged	<i>vlan-members</i>	Sets the VLAN members.
ruckus(config-domain-zone-ethernet-port-profile)# vlan-untag-id Type: Privileged	<i>vlan-untag-id</i>	Sets the VLAN members.

Table 49 lists the related **domain-zone-guest-access** configuration commands.

**TABLE 49** Commands related to ruckus (config-zone-guest-access)

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

**TABLE 49** Commands related to ruckus (config-zone-guest-access) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-guest-access)# logo Type: Privileged	<i>ftp-url</i> FTP URL, format: <i>ftp://username:password@ip/file-path</i>	Sets the logo.
ruckus(config-domain-zone-guest-access)# name Type: Privileged	<i>name</i>	Sets the guess access service name.
ruckus(config-domain-zone-guest-access)# no Type: Privileged	<b>enable-terms-and-conditions</b> <b>sms-gateway</b> <b>terms-and-conditions</b>	Disables the various options.
ruckus(config-domain-zone-guest-access)# session-timeout Type: Privileged	<i>minutes</i>	Sets the session timeout as per the specified minutes.
ruckus(config-domain-zone-guest-access)# sms-gateway Type: Privileged		Sets the guest pass for the SMS gateway.
ruckus(config-domain-zone-guest-access)# start-page Type: Privileged	<b>original</b> <b>redirect start-url</b>	Sets the start page.
ruckus(config-domain-zone-guest-access)# terms-and-conditions Type: Privileged		Sets the terms and conditions for the web portal.
ruckus(config-domain-zone-guest-access)# title Type: Privileged		Sets the title for the web portal.

Table 50 lists the related **domain-zone-hotspot** configuration commands.

**TABLE 50** Commands related to ruckus(config-domain-zone-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-hotspot)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-hotspot)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-hotspot)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-hotspot)# grace-period Type: Privileged	<i>minutes</i>	Sets the grace period.
ruckus(config-domain-zone-hotspot)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-hotspot)# https-redirect Type: Privileged	<i>enable</i>	If enabled, the AP tries to redirect the HTTPS requests to the hotspot portal.
ruckus(config-domain-zone-hotspot)# language Type: Privileged		Sets the portal language.

**TABLE 50** Commands related to ruckus(config-domain-zone-hotspot) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot)# location-id Type: Privileged	<i>location-id</i>	Sets the location ID.
ruckus(config-domain-zone-hotspot)# location-name Type: Privileged	<i>name</i>	Sets the location name.
ruckus(config-domain-zone-hotspot)# logo Type: Privileged	<i>ftp-url</i>	Sets the logo.
ruckus(config-domain-zone-hotspot)# logon-url Type: Privileged	<b>internal</b> <b>external</b> <i>logon-url</i>	Sets the logon model
ruckus(config-domain-zone-hotspot)# mac-address-format Type: Privileged		Sets the MAC address format.
ruckus(config-domain-zone-hotspot)# no Type: Privileged	<b>https-redirect</b> <b>show-terms-conditions</b> <b>walled-garden</b> <i>walled-garden-list</i> : Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list.	Disables the commands.
ruckus(config-domain-zone-hotspot)# session-timeout Type: Privileged	<i>minutes</i>	Sets the sessions timeout.
ruckus(config-domain-zone-hotspot)# show-terms-conditions Type: Privileged		Shows the terms and conditions.
ruckus(config-domain-zone-hotspot)# smart-client-support Type: Privileged	<b>none</b> <b>enable</b> <b>only</b> <i>instructions</i>	Sets the smart client support.
ruckus(config-domain-zone-hotspot)# start-page Type: Privileged	<b>original</b> <i>start-url</i>	Sets the start page.
ruckus(config-domain-zone-hotspot)# terms-conditions Type: Privileged	<b>redirect</b>	Sets the terms and conditions.
ruckus(config-domain-zone-hotspot)# title Type: Privileged	<i>title</i>	Sets the title.
ruckus(config-domain-zone-hotspot)# walled-garden Type: Privileged	<i>walled-garden-list</i>	Enables Walled Garden. Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list

Table 50 lists the related **domain-zone-hotspot20-venue-profile** configuration commands.



**TABLE 51** Commands related to ruckus(config-domain-zone-hotspot20-venue-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-venue-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-hotspot20-venue-profile)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-hotspot20-venue-profile)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-hotspot20-venue-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-hotspot20-venue-profile)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-hotspot20-venue-profile)# no Type: Privileged	<b>venue-names</b> <b>wan-at-capacity</b> <b>wan-sym-link</b>	Disables the commands.
ruckus(config-domain-zone-hotspot20-venue-profile)# venue-category Type: Privileged	<b>unspecified unspecified</b> <b>assembly [ coffee-shop   passenger-terminal   restaurant   bar   arena   library   place-of-worship   emergencycoordination-center   museum   stadium   convention-center   unspecified   amphitheater   amusement-park   theater   zoo-or-aquarium ]</b> <b>business [ unspecified   on   attorney-office   professional-office   research-and-development-facility   doctor-odontist-office   fire-station   post-office   bank ]</b> <b>educational [ unspecified   school-primary   university-or-college   school-secondary ]</b>	Sets the venue category

**TABLE 51** Commands related to ruckus(config-domain-zone-hotspot20-venue-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-venue-profile) Type: Privileged	<b>factory-and-industrial</b> [   <b>factory</b> ]  <b>institutional</b> [ <b>hospital</b>   <b>group-home</b>   <b>unspecified</b>   <b>prison-or-jail</b>   <b>long-term-care-facility</b>   <b>alcohol-and-drugrehabilitation-center</b> ]  <b>mercantile</b> [ <b>grocery-market</b>   <b>automotive-service-station</b>   <b>unspecified</b>   <b>retail-store</b>   <b>gas-station</b>   <b>shopping-mall</b> ]  <b>residential</b> [ <b>unspecified</b>   <b>private-residence</b>   <b>hotel-or-motel</b>   <b>dormitory</b>   <b>boarding-house</b> ]  <b>storage unspecified</b>  <b>utility-and-miscellaneous unspecified</b>  <b>vehicular</b> [ <b>train</b>   <b>airplane</b>   <b>ferry</b>   <b>a bus</b>   <b>motor-bike</b>   <b>unspecified</b>   <b>ship-or-boat</b> ]  <b>outdoor</b> [ <b>unspecified</b>   <b>city-park</b>   <b>bus-stop</b>   <b>traffic-control</b>   <b>rest-area</b>   <b>muni-mesh-network</b>   <b>kiosk</b> ]	Sets the venue category.
ruckus(config-domain-zone-hotspot20-venue-profile)# venue-names Type: Privileged	<i>language names</i>	Sets the venue-names.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-at-capacity Type: Privileged		Sets the WAN capacity.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-downlink-load Type: Privileged	<i>downlink-load</i> : Load between 1 and 255	Sets the WAN downlink load.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-downlink-speed Type: Privileged	<i>speed</i>	Sets the WAN downlink speed in (kbps).
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-link-status Type: Privileged	[ <b>link-up</b>   <b>link-test</b>   <b>link-down</b> ]	Sets the link status.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-load-duration Type: Privileged	<i>duration</i>	Sets the load measurement duration.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-sym-link Type: Privileged		Enables symmetric link.
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-uplink-load Type: Privileged	<i>uplink-load</i>	Sets the WAN uplink load.

**TABLE 51** Commands related to ruckus(config-domain-zone-hotspot20-venue-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-venue-profile)# wan-uplink-speed Type: Privileged	<i>speed</i> : Uplink speed in kbps	Sets the WAN uplink speed.

Table 52 lists the related **domain-zone-hotspot20-wlan-profile** configuration commands.

**TABLE 52** Commands related to ruckus(config-domain-zone-hotspot20-wlan-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-wlan-profile)# access-network-type Type: Privileged		Sets the access network type.
ruckus(config--domain-zone-hotspot20-wlan-profile)# asra Type: Privileged		Sets the ASRA profile.
ruckus(config--domain-zone-hotspot20-wlan-profile)# asra-dns-redirect Type: Privileged	<i>url</i>	Sets the ASRA DNS redirection.
ruckus(config--domain-zone-hotspot20-wlan-profile)# asra-http-redirect Type: Privileged		Sets the ASRA HTTP redirection.
ruckus(config--domain-zone-hotspot20-wlan-profile)# asra-online-signup Type: Privileged	<i>ssid</i>	Sets the ASRA online signup.
ruckus(config--domain-hotspot20-wlan-profile)# asra-terms-conditions Type: Privileged	<i>url</i>	Sets the ASRA terms and conditions.
ruckus(config--domain-zone-hotspot20-wlan-profile)# connect-capabilities Type: Privileged	[ <b>pptp</b>   <b>http</b>   <b>voip-6</b>   <b>ipsec-vpn</b>   <b>ikev2</b>   <b>ftp</b>   <b>tls</b>   <b>voip-17</b>   <b>icmp</b>   <b>ssh</b>   <b>esp</b> ] [ <b>open</b>   <b>unknown</b>   <b>closed</b> ]	Sets the connection capabilities.  pptp: Protocol Number:6 Port:1723 Protocol Name: Used by PPTP VPNs  http: Protocol Number:6 Port:80 Protocol Name: HTTP  voip-6: Protocol Number:6 Port:5060 Protocol Name: VoIP  ipsec-vpn: Protocol Number:17 Port:4500 Protocol Name: IPSec VPN  ikev2: Protocol Number:17 Port:500 Protocol Name: Used by IKEv2(IPSec VPN)  tls: Protocol Number:6 Port:443 Protocol Name: Used by TLS VPN  voip-17: Protocol Number:17 Port:5060 Protocol Name: VoIP  icmp: Protocol Number:1 Port:0 Protocol Name: ICMP

**TABLE 52** Commands related to ruckus(config-domain-zone-hotspot20-wlan-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config--domain-zone-hotspot20-wlan-profile)# connect-capabilities  Type: Privileged	[ <b>pptp</b>   <b>http</b>   <b>voip-6</b>   <b>ipsec-vpn</b>   <b>ikev2</b>   <b>ftp</b>   <b>tls</b>   <b>voip-17</b>   <b>icmp</b>   <b>ssh</b>   <b>esp</b> ] [ <b>open</b>   <b>unknown</b>   <b>closed</b> ]	ssh: Protocol Number:6 Port:22 Protocol Name: SSH esp: Protocol Number:50 Port:0 Protocol Name: ESP  open: Open unknown: Unknown closed: Closed
ruckus(config--domain-zone-hotspot20-wlan-profile)# cust-connect-capabilities  Type: Privileged	<i>protocol-name protocol-number</i>	Creates or updates the custom connection capabilities.
ruckus(config--domain-zone-hotspot20-wlan-profile)# description  Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-hotspot20-wlan-profile)# do  Type: Privileged		Executes the do command.
ruckus(config-domain-zone-hotspot20-wlan-profile)# end  Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-hotspot20-wlan-profile)# exit  Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-hotspot20-wlan-profile)# help  Type: Privileged		Displays the help.
ruckus(config-domain-zone-hotspot20-wlan-profile)# identity-providers  Type: Privileged	<i>identityProvider</i> <b>default</b>	Sets the identity providers.
ruckus(config-domain-zone-hotspot20-wlan-profile)# internet-option  Type: Privileged	<b>enable</b>	Enables the specified WLAN with Internet connectivity.
ruckus(config-domain-zone-hotspot20-wlan-profile)# ipv4-address  Type: Privileged	[ <b>port-restrict-address</b>   <b>single-nated-private-address</b>   <b>double-nated-private-address</b>   <b>port-restricted-addressdouble-nated-address</b>   <b>unknown</b>   <b>public-address</b>   <b>port-restricted-address-single-nated-address</b>   <b>not-available</b> ]	Sets the IPv4 address.
ruckus(config-domain-zone-hotspot20-wlan-profile)# ipv6-address  Type: Privileged	[ not-available   unknown   available ]	Sets the IPv6 address.
ruckus(config-domain-zone-hotspot20-wlan-profile)# name  Type: Privileged	<i>name</i>	Sets the hotspot 2.0 WLAN profile name.

**TABLE 52** Commands related to ruckus(config-domain-zone-hotspot20-wlan-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-wlan-profile)# no Type: Privileged	<b>asra</b> <b>asra-dns-redirect</b> <b>asra-http-redirect</b> <b>asra-online-signup</b> <b>asra-terms-conditions</b> <b>cust-connect-capabilities</b> <b>identity-providers</b> <b>internet-option</b>	Disables the commands.
ruckus(config-domain-zone-hotspot20-wlan-profile)# operator Type: Privileged	<i>name</i>	Sets the operator name.

Table 53 lists the related **domain-zone-hotspot20-wlan-profile-cust-connect-capabilities** configuration commands.

**TABLE 53** Commands related to ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# port Type: Privileged	<i>port</i>	Set the port number.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities)# protocol Type: Privileged	<i>protocol</i>	Sets the protocol number.
ruckus(config-domain-zone-hotspot20-wlan-profile-cust-connect-capabilities) status Type: Privileged	[ <b>closed</b>   <b>unknown</b>   <b>open</b> ]	Sets the status.

Table 54 lists the related **domain-zone-l2-acl** configuration commands.

**TABLE 54** Commands related to ruckus(config-domain-zone-l2-acl)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-l2-acl)# action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the handling action to allow or block.
ruckus(config-domain-zone-l2-acl)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-l2-acl)# mac Type: Privileged	<i>\${value}</i>	Sets the MAC value.
ruckus(config-domain-zone-l2-acl)# no mac Type: Privileged	<i>\${value}</i>	Disables the MAC value.

Table 55 lists the related **domain-zone-vlan-pooling** configuration commands.

**TABLE 55** Commands related to ruckus(config-domain-zone-vlan-pooling)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-vlan-pooling)# algo Type: Privileged	<b>mac-hash</b>	Sets the algorithm.
ruckus(config-domain-zone-vlan-pooling)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-vlan-pooling)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-vlan-pooling)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-vlan-pooling)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-vlan-pooling)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-vlan-pooling)# no Type: Privileged	<b>description</b> <b>pooling</b>	Disables various option
ruckus(config-domain-zone-vlan-pooling)# pooling Type: Privileged	<b>range</b> <i>start-value end-value</i> : VLAN range <b>single value</b> : Single VLAN ID	Adds the VLAN pooling.

Table 56 lists the related **domain-zone-web-authentication** configuration commands.

**TABLE 56** Commands related to ruckus (config-domain-zone-web-authentication)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-web-authentication)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-web-authentication)# grace-period Type: Privileged	<i>minutes</i>	Sets the grace period.

**TABLE 56** Commands related to ruckus (config-domain-zone-web-authentication) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-web-authentication)# language Type: Privileged		Sets the language.
ruckus(config-domain-zone-web-authentication)# session-timeout Type: Privileged	<i>minutes</i>	Sets the session timeout as per the specified minutes.
ruckus(config-domain-zone-web-authentication)# start-page Type: Privileged	<b>original</b> <b>redirect start-url</b>	Sets the start page.

Table 57 lists the related domain-zone-wechat configuration commands.

**TABLE 57** Commands related to ruckus(config-domain-zone-wechat)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-wechat)# authentication-url Type: Privileged	<i>text</i>	Sets the authentication URL.
ruckus(config-domain-zone-wechat)# Type: Privileged	<i>text</i>	Sets the black list.
ruckus(config-domain-zone-wechat)# Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-domain-zone-wechat)# dnat- destination Type: Privileged	<i>text</i>	
ruckus(config-domain-zone-wechat)# dnat-port- mapping Type: Privileged	<i>sourcedest</i>	Sets the DNAT destination.
ruckus(config-domain-zone-wechat)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-wechat)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-domain-zone-wechat)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-wechat)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-wechat)# grace- period Type: Privileged	<i>minutes</i>	Set the grace period as minutes.
ruckus(config-domain-zone-wechat)# no Type: Privileged	<b>dnat-port-mapping</b> <b>white-list</b>	Disables various options.
ruckus(config-domain-zone-wechat)# white-list Type: Privileged	<i>white-list</i> : Allow unauthorized destinations. Comma- separated IP, IP range, CIDR and regular expression domain name list.	Sets the white list.

Table 58 lists the related **domain-zone-wlan-group** configuration commands.

**TABLE 58** Commands related to ruckus(config-domain-zone-wlan-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-wlan-group)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-domain-zone-wlan-group)# do Type: Privileged		Executes the do command.
ruckus(config-domain-zone-wlan-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-domain-zone-wlan-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-domain-zone-wlan-group)# help Type: Privileged		Displays the help.
ruckus(config-domain-zone-wlan-group)# no Type: Privileged	<b>wlan name</b>	Disables or removes WLAN from this group.
ruckus(config-domain-zone-wlan-group)# wlan Type: Privileged	<i>name wlan vlanTag nasid nasid</i> <i>name nasid nasid wlan vlanTag</i> <i>name wlan vlanTag</i> <i>name nasid nasid</i> <i>name wlan-pooling vlanPooling</i> <i>name wlan-pooling vlanPooling nasid</i> <i>name</i>	Sets a WLAN in this group or overrides VLAN setting.

Table 59 lists the related **domain-zone-wlan-scheduler** configuration commands.

**TABLE 59** Commands related to ruckus (config-domain-zone-wlan-scheduler)

Syntax and Type	Parameters (if any)	Description
ruckus(config-domain-zone-wlan-scheduler)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-domain-zone-wlan-scheduler)# no Type: Privileged	<b>description</b> <b>schedule-data</b> [ <i>weekday</i>   <i>empty</i> ] [ <i>start time value</i>   <i>empty</i> ] [ <i>end time value</i> ]   <i>weekday</i>	Disables the commands.
ruckus(config-domain-zone-wlan-scheduler)# schedule-data Type: Privileged	[ <i>weekday</i>   <i>empty</i> ] [ <i>start time value</i>   <i>empty</i> ] [ <i>end time value</i> ] <i>weekday</i>	Sets the schedule table.



## dp-group

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

```
ruckus(config)# dp-mac-group dp1-mac, dp2-mac
```

### Syntax Description

This command uses the following syntax:

*dp-mac-group*

Data plane groups defined as DP MAC addresses in a group. For example, 3 data plane groups are configured as *dp1-mac*, *dp2-mac*, *dp3-mac*

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# dp-mac-group dp1-172.19.7.100,dp2-172.19.8.120
```



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## eap-aka

To create the EAP-AKA configuration, use the following command:

```
ruckus(config)# eap-aka
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# eap-aka  
ruckus(config-eap-aka)#
```

### Related Commands

The [Table 60](#) lists the related eap-aka configuration commands.

**TABLE 60** Commands related to ruckus(config-eap-aka)

Syntax and Type	Parameters (if any)	Description
ruckus(config-eap-aka)# active-secret Type: Privileged		Sets the EAP-AKA active secret key number.
ruckus(config-eap-aka)# cache-cleanup Type: Privileged		Enables cache cleanup setting.
ruckus(config-eap-aka)# cache-cleanup-time Type: Privileged	<hours> <minutes>	Sets the cache cleanup setting.
ruckus(config-eap-aka)# cache-history-len Type: Privileged	<history-length>	Sets the cache history length.
ruckus(config-eap-aka)# do Type: Privileged		Executes the do command.
ruckus(config-eap-aka)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-eap-aka)# exit Type: Privileged		Exits from the EXEC.

**TABLE 60** Commands related to ruckus(config-eap-aka) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-eap-aka)# fast-reauth Type: Privileged		Enables re-authentication support.
ruckus(config-eap-aka)# help Type: Privileged		Displays the help.
ruckus(config-eap-aka)# max-reauth Type: Privileged	<i>name</i>	Sets the maximum successive re-authentication..
ruckus(config-eap-aka)# no Type: Privileged	<i>cache-cleanup</i> <i>fast-reauth</i> <i>secret</i> <i>user-id-privacy</i>	Disable cache cleanup or fast-re-authentication or EAP-AKA secret key or user identity privacy support.
ruckus(config-eap-sim)# reauth-realm Type: Privileged	< <i>re-auth-realm</i> >	Sets the re-authentication realm.
ruckus(config-eap-aka)# secret Type: Privileged	<i>secret-key</i>	Adds the EAP-AKA secret key .
ruckus(config-eap-aka)# user-id-privacy Type: Privileged		Enables the user identity privacy support.

## eap-sim

To setup the EAP-SIM configuration, use the following command:

```
ruckus(config)# eap-sim
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# eap-sim  
ruckus(config-eap-sim)#
```

## Related Commands

The [Table 61](#) lists the related eap-sim configuration commands.

**TABLE 61** Commands related to ruckus(config-eap-sim)

Syntax and Type	Parameters (if any)	Description
ruckus(config-eap-sim)# active-secret Type: Privileged		Sets the EAP-SIM active secret key number.
ruckus(config-eap-sim)# cache-cleanup Type: Privileged		Enables cache cleanup setting.
ruckus(config-eap-sim)# cache-cleanup-time Type: Privileged	<hours> <minutes>	Sets the cache cleanup setting.
ruckus(config-eap-sim)# cache-history-len Type: Privileged	<history-length>	Sets the cache history length.
ruckus(config-eap-sim)# do Type: Privileged		Executes the do command.
ruckus(config-eap-sim)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-eap-sim)# exit Type: Privileged		Exits from the EXEC.



**TABLE 61** Commands related to ruckus(config-eap-sim) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-eap-sim)# fast-reauth Type: Privileged		Enables re-authentication support.
ruckus(config-eap-sim)# help Type: Privileged		Displays the help.
ruckus(config-eap-sim)# max-reauth Type: Privileged	<i>name</i>	Sets the maximum successive re-authentication.
ruckus(config-eap-sim)# no Type: Privileged	<i>cache-cleanup</i> <i>fast-reauth</i> <i>secret</i> <i>user-id-privacy</i>	Disable cache cleanup or fast-re-authentication or EAP-AKA secret key or user identity privacy support.
ruckus(config-eap-sim)# reauth-realm Type: Privileged	< <i>re-auth-realm</i> >	Sets the re-authentication realm.
ruckus(config-eap-sim)# secret Type: Privileged	<i>secret-key</i>	Adds the EAP-AKA secret key .
ruckus(config-eap-sim)# user-id-privacy Type: Privileged		Enables the user identity privacy support.

## encrypt-mac-ip

To enable encryption of MAC and IP address, 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

```
ruckus(config)# encrypt-mac-ip  
Successful operation
```

## encrypt-zone-name

To enable AP Zone name encryption for WISPr enriched URL, use the following command.

```
ruckus(config)# encrypt-zone-name
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# encrypt-zone-name  
Successful operation
```

Configuration Commands (e - r)  
end

## 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

```
ruckus(config)# end
```

## eth-port-validate-one-trunk

To update the validator for an AP with at least one trunk port, use the following command.

```
ruckus(config)# eth-port-validate-one-trunk
```

### Syntax Description

This command has the following keywords:

**disable**

Disable the validator for the AP with at least one trunk port

**enable**

Enable the validator for the AP with at least one trunk port

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# eth-port-validate-one-trunk
```

## 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

```
ruckus(config)# event 1002
```

## Related Commands

Table 62 lists the related **event** configuration commands.

**TABLE 62** 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.
ruckus(config-event)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-event)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-event)# help Type: Privileged		Displays the help.

**TABLE 62** Commands related to ruckus(config-event) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event)# no Type: Privileged	<b>db-persistence</b> <b>email</b> <b>snmp-trap</b>	Disables various options.
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

```
ruckus(config)# event db-persistence
No. Event Code Category      Type      Description
Severity
SNMP          Email      DB Persistence
-----
1  103          AP Communication  AP status changed to Managed  This event occurs when AP is appro
Informational
Enabled          Enabled      Enabled by the
SCG.
2  105          AP Communication  AP rejected                    This event occurs when AP is rejected
Minor
Enabled by the SCG.
3  106          AP Communication  AP firmware updated            This event occurs when AP successful
Informational
Enabled          updates the firmware details to the
SCG.
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 uses the following syntax:

*eventCode*

Single configuration event notification

### Command Mode

Config

### Example

```
ruckus(config)# event email 305, 214, 113
```

## 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 uses the following syntax:

*eventCode*

Single configuration event notification

### Command Mode

Config

### Example

```
ruckus(config)# event snmp-trap 305,114,102
```

## event-email

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

```
ruckus(config)# event-email eventCode
```

### Syntax Description

This command uses the following syntax:

*eventCode*

Single configuration event notification

### Command Mode

Config

### Example

```
ruckus(config)# event-email  
ruckus(config-event-email)#
```

### Related Commands

Table 63 lists the related **event-email** configuration commands.

**TABLE 63** 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)# mail-to Type: Privileged	<i>email</i>	Enables the email address configuration.
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.
ruckus(config-event)# no Type: Privileged	<b>enable</b> <b>mail-to</b> <b>email</b>	Disables various options.

## event-threshold

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

```
ruckus(config)# event-threshold threshold
```

### Syntax Description

This command uses the following syntax:

*threshold*

Single threshold event notification

### Command Mode

Config

### Example

```
ruckus(config)# event-threshold thres  
ruckus(config-event-threshold) #
```

### Related Commands

[Table 63](#) on page 139 lists the related **event-threshold** configuration commands.

**TABLE 64** Commands related to ruckus(config-event-threshold)

Syntax and Type	Parameters (if any)	Description
ruckus(config-event-threshold)# do Type: Privileged		Enables the do command.
ruckus(config-event-threshold)# end Type: Privileged		End the current configuration session and returns to the privileged EXEC mode.
ruckus(config-event-threshold)# exit Type: Privileged		Exit from the EXEC.
ruckus(config-event-threshold)# help Type: Privileged		Display the help message.
ruckus(config-threshold)# unit Type: Privileged		Sets the threshold unit.
ruckus(config-threshold)# value Type: Privileged	<i>value</i>	Sets the threshold value.

## 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

```
ruckus(config)# exit
```

## firmware-download-limit

Displays the firmware download limitations.

**ruckus(config)# firmware-download-limit** *integer* *speedlimit*

### Parameters

*integer*

Enter the number of input connections in integer from (0 ~ 65535) [suggestion: 300].

*speedlimit*

Enter the download speed limit in KB [suggestion: 256k].

#### NOTE

For the second requested value, if **0** is entered, then the download speed is unlimited.

### Default

This command has no default settings.

### Command Mode

config

### Usage Guidelines

This command allow users to limit concurrent connections and bandwidth for AP firmware download. The default concurrent connections for AP firmware download is 300 and the default bandwidth per AP firmware download connection is 0k bytes. Users can change the concurrent connections to the number between 0 and 65535 and bandwidth to the number between 0k and 2147483647k. However, users must be careful to update these parameters because it impacts the controller (SmartZone) network resources.

#### NOTE

Allocating too much bandwidth or too many concurrent connections for AP firmware download will impact other controller (SmartZone) services.

### Example

Below examples display the **config-firmware-download-limit** command to set the limitation of firmware download configuration.

```
LAB-SZ-01(config)# firmware-download-limit
The limited number of firmware download connection is 300 and the download speed per connection in not
limited.
Please input connections in integer(0 ~ 65535) [suggestion: 300]: 200
Please input download speed limit in KB [suggestion: 256k]: 500
Successful operation
% This configuration will take effect in a few minutes.
```

## 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 uses the following syntax:

*name*

Name of FTP server.

### Default

This command has no default settings.

### Command Mode

config

### Example

```
ruckus(config)# ftp-server ftp1
ruckus(config-ftp-server)# host 1.1.1.1
ruckus(config-ftp-server)# port 21
ruckus(config-ftp-server)# username test
ruckus(config-ftp-server)# password
Password: ****
Retype: ****
ruckus(config-ftp-server)# exit
ruckus(config)#
```

### Related Commands

Table 65 lists the related **ftp-server** commands.

**TABLE 65** 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)# enable Type: Privileged		Enable for uploading reports to the FTP server.
ruckus(config-ftp-server)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-ftp-server)# exit Type: Privileged		Exits from the EXEC.

## Configuration Commands (e - r)

### ftp-server

**TABLE 65** Commands related to ruckus(config-ftp-server) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ftp-server)# help Type: Privileged		Displays the help.
ruckus(config-ftp-server)# host Type: Privileged	<i>ip</i>	Sets the FTP server IP address.
ruckus(config-ftp-server)# no Type: Privileged	<b>enable</b>	Disables uploaded reports to the FTP server.
ruckus(config-ftp-server)# password Type: Privileged	<i>password</i>	Sets the FTP password.
ruckus(config-ftp-server)# port Type: Privileged	<i>port</i>	Sets the FTP server port.
ruckus(config-ftp-server)# protocol Type: Privileged	<i>protocol</i>	Sets the protocol.
ruckus(config-ftp-server)# remote-directory Type: Privileged	<i>directory</i>	Sets the FTP remote directory.
ruckus(config-ftp-server)# test Type: Privileged		Test the FTP settings.
ruckus(config-ftp-server)# username Type: Privileged	<i>username</i>	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

```
ruckus(config)# ftp-server FTP-SERVER  
Fail to connection to FTP server
```

## gateway-advance

To set the gateway server advance options, use the following command:

```
ruckus(config)# gateway-advance
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# gateway-advance  
ruckus(config-gateway-advance)#
```

### Related Commands

The [Table 66](#) lists the related gateway-advance configuration commands.

**TABLE 66** Commands related to ruckus(config-gateway-advance)

Syntax and Type	Parameters (if any)	Description
ruckus(config-gateway-advance)# allow-sess-on-acct-fail Type: Privileged		Allows session on accounting failure.
ruckus(config-gateway-advance)# do Type: Privileged		Executes the do command.
ruckus(config-gateway-advance)# ecgi-in-gtpv2-msg Type: Privileged		Includes ECGI in GTPV2 messages.
ruckus(config-gateway-advance)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-gateway-advance)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-gateway-advance)# gtp-nsapi Type: Privileged	<i>number</i>	Defines the number of GTP network service access point identifiers.
ruckus(config-gateway-advance)# gtpv2-interface-type Type: Privileged	<i>S2a</i> <i>S5_S8</i>	Sets the GTPV2 interface type.

**TABLE 66** Commands related to ruckus(config-gateway-advance) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-gateway-advance)# help Type: Privileged		Displays the help.
ruckus(config-gateway-advance)# imei-ie-in-gtp-msg Type: Privileged		Includes IMEI IE in GTP messages.
ruckus(config-gateway-advance)# no Type: Privileged	<i>allow-sess-on-acct-fail</i> <i>ecgi-in-gtpv2-msg</i> <i>imei-ie-in-gtp-msg</i> <i>scg-rai-in-gtpv2-msg</i> <i>scg-sai-in-gtpv2-msg</i> <i>tai-in-gtpv2-msg</i>	Disable the commands.
ruckus(config-gateway-advance)# scg-rai-in-gtpv2-msg Type: Privileged		Include SCG-RAI in GTPV2 messages.
ruckus(config-gateway-advance)# scg-sai-in-gtpv2-msg Type: Privileged		Includes SCG-SAI in GTPV2 messages.
ruckus(config-gateway-advance)# tai-in-gtpv2-msg Type: Privileged		Include TAI in GTPV2 messages.

## get raa counter

Displays increment in drop counters based on configured restricted access profile.

### Syntax

```
get raa counter{ blacklist | well-known-ports | internal-ports | all}
```

### Parameters

**blacklist**

Displays the blacklisted port details.

**well-known-ports**

Displays the blacklisted port details.

**internal-ports**

Displays the blacklisted port details. If configured in blacked list of restricted access profile.

**all**

Displays the details of all of the above.

### Modes

Configuration Mode.

## Examples

Below example displays the **get raa counters blacklist** details.

```
ruckus(config)# get raa counters blacklist
```

```
                RAA Counters - Blacklist
=====
SlNo   IP address                Port    Hits    Timestamp
-----
1      10.74.136.80              1       4       Wed Oct 16 05:55:06 2019
=====
```

```
2) rkscli: get raa counters well-known-ports
```

```
                RAA Counters - Well Known Ports
=====
SlNo   IP address                Port    Hits    Timestamp
-----
1      10.74.136.80              22     4       Wed Oct 16 05:56:57 2019
2      10.236.192.7              161    1       Tue Oct 15 17:21:01 2019
3      10.236.192.7              22     1       Tue Oct 15 17:21:00 2019
=====
```

```
3) rkscli: get raa counters internal-ports
```

```
                RAA Counters - Internal Ports
=====
SlNo   IP address                Port    Hits    Timestamp
-----
1      10.74.136.80              9997   2       Wed Oct 16 05:58:36 2019
=====
```

```
4) rkscli: get raa counters all
```

```
                RAA Counters - Blacklist
=====
```

Configuration Commands (e - r)

get raa counter

SlNo	IP address	Port	Hits	Timestamp
1	10.74.136.80	1	4	Wed Oct 16 05:55:06 2019

RAA Counters - Well Known Ports

SlNo	IP address	Port	Hits	Timestamp
1	10.74.136.80	22	4	Wed Oct 16 05:56:57 2019
2	10.236.192.7	161	1	Tue Oct 15 17:21:01 2019
3	10.236.192.7	22	1	Tue Oct 15 17:21:00 2019

RAA Counters - Internal Ports

SlNo	IP address	Port	Hits	Timestamp
1	10.74.136.80	9997	2	Wed Oct 16 05:58:36 2019

# get open-icx-management-status

Displays the status of open ICX management.

## Syntax

## Modes

Configuration mode

## Examples

```
rkcli(config)# open-icx-management-status
Successful Operation
rkcli(config)# get open-icx-management-status
Switch Port Opened

rkcli(config)# no get open-icx-management-status
Successful Operation
rkcli(config)# get open-icx-management-status
Switch Port Closed
```

## History

Release version	Command history
5.2.1	This command was introduced.

## Configuration Commands (e - r)

get raa

# get raa

Displays the status of the restricted access (enabled/disabled), the details of the ports (Well known and AP internal ports), blacklisted TCP and UDP, port range of the blacklisted TCP and UDP, IPv4 and IPv6 addresses configured in the whitelist, IPv4 and IPv6 list of subnet addresses configured in the whitelist.

## Syntax

**get raa**

## Modes

Configuration Mode

## Examples

Below example displays the **get raa**

```
ruckus(config)# get raa
=====RAA-Info=====
Status : Enabled
Well known ports : 80,22,443,161,23
AP internal ports : 8099,8100,9997,9998,8090,18301,53,19997,19998,18090,18099
TCP Port Blacklist : 1,10,2,3,4,5,6,9
UDP Port Blacklist : 1,2,3,7,8
IPv4 address whitelist : 1.1.1.1,10.174.120.222,10.74.137.253
IPv6 address whitelist : 2::2
IPv4 address/subnet whitelist : 3.3.3.3/8,5.5.5.5/16
IPv6 address/prefix whitelist : 6::6/128
=====

ruckus(config)# get raa
=====RAA-Info=====
Status: Disabled
=====
```



## ggsn-service

To create or update the APN resolution to GGSN / PGW configuration, use the following command:

```
ruckus(config)#ggsn-service <apn <name>>
ruckus(config)#ggsn-service <dns-retry <number>>
ruckus(config)#ggsn-service <dns-server <ip>>
ruckus(config)#ggsn-service <dns-timeout <seconds>>
ruckus(config)#ggsn-service <request-timer <seconds>>
ruckus(config)#ggsn-service <response-timer <seconds>>
ruckus(config)#ggsn-service <retry <number>>
```

## Syntax Description

This command uses the following syntax:

*apn <name>*

apn - Creates or updates the APN resolution to GGSN / PGW configuration  
name - Name of the APN

*dns-retry <number>*

dns-retry - Sets the number of DNS retry  
<number> - Number of DNS retries

*dns-server <ip> priority [down | up ]*

dns-server: Sets the DNS server  
<ip> DNS server IP address  
priority [down | up ]: Change DNS server priority by moving the priority either up or down.

*dns-timeout <seconds>*

dns-timeout: Sets the DNS response timeout in seconds  
<seconds>: DNS response timeout

*request-timer <seconds>*

request-timer: Sets the echo request timer in seconds  
<seconds>: Echo request timeout

*response-timer <seconds>*

response-timer: Sets the echo response timer in seconds  
<seconds>: Echo response timeout

*retry <number>*

retry: Sets the number of retries  
<number>: Number of retries

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# ggsn-service apn appl
ruckus(config)# ggsn-service dns-retry 10
ruckus(config)# ggsn-service dns-server host 1.1.1.1
ruckus(config)# ggsn-service dns-timeout 120
ruckus(config)# ggsn-service request-timer 90
ruckus(config)# ggsn-service response-timer 180
ruckus(config)# ggsn-service retry 05
```

## Related Commands

The [Table 67](#) lists the related ggsn-service-apn configuration commands.

**TABLE 67** Commands related to ruckus(config-ggsn-service-apn)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ggsn-service-apn)# ip Type: Privileged	<i>ip</i>	Sets the GGSN IP address.
ruckus(config-ggsn-service-apn)# do Type: Privileged		Executes the do command.
ruckus(config-ggsn-service-apn)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-ggsn-service-apn)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ggsn-service-apn)# help Type: Privileged		Displays the help.

## 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

```
ruckus(config)# help
```

## hlr-mnc-ndc

To setup the HLR service MNC to NDC mapping configuration, use the following command:

```
ruckus(config)# hlr-mnc-ndc
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# hlr-mnc-ndc  
ruckus(config-hlr-mnc-ndc)#
```

### Related Commands

The [Table 68](#) lists the related hlr-mnc-ndc configuration commands.

**TABLE 68** Commands related to ruckus(config-hlr-mnc-ndc)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-mnc-ndc)# do Type: Privileged		Executes the do command.
ruckus(config-hlr-mnc-ndc)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hlr-mnc-ndc)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hlr-mnc-ndc)# help Type: Privileged		Displays the help.
ruckus(config-hlr-mnc-ndc)# mcc Type: Privileged	<i>mcc</i>	Sets the mobile country code.
ruckus(config-hlr-mnc-ndc)# mnc Type: Privileged	<i>mnc</i>	Sets the mobile network code.
ruckus(config-hlr-mnc-ndc)# ndc Type: Privileged	<i>ndc</i>	Sets the network destination code.

## hlr-service

To create or update the HLR service configuration, use the following command:

```
ruckus(config)# hlr-servicename
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the HLR service.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# hlr-service
ruckus(config-hlr-service)#
```

### Related Commands

- The [Table 69](#) lists the related hlr-service configuration commands.
- The [Table 70](#) lists the related hlr-service-sccp-gtt configuration commands.
- The [Table 71](#) list the related hlr-service-ctp configuration commands.

**TABLE 69** Commands related to ruckus(config-hlr-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service)# auth-caching Type: Privileged		Enable authorization caching.
ruckus(config-hlr-service)# auth-map-version Type: Privileged	<i>version2</i> <i>version3</i>	Sets the authorization MAP version to either version two or three.
ruckus(config-hlr-service)# av-caching Type: Privileged		Enables AV caching.
ruckus(config-hlr-service)# cache-cleanup-time Type: Privileged	<i>daily &lt;hour&gt; &lt;minute&gt;</i>	Sets the cache cleanup time.
ruckus(config-hlr-service)# cache-history-time Type: Privileged	<i>seconds</i>	Sets the cache history in seconds.
ruckus(config-hlr-service)# default-point-code-format Type: Privileged	<i>dottetd</i> <i>integer</i>	Sets the default point code format.

**TABLE 69** Commands related to ruckus(config-hlr-service) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-hlr-service)# dest-gt-indicator Type: Privileged	1 2	Sets the destination global title indicator to: <ul style="list-style-type: none"> <li>• 1 - Global title Includes translation type only</li> <li>• 2 - Global title includes translation type, numbering plan, encoding scheme and nature of address indicator</li> </ul>
ruckus(config-hlr-service)# dest-nature-addr-indicator Type: Privileged	1 2 3 4 5	Sets the destination nature address indicator. <ul style="list-style-type: none"> <li>• 1 - Unknown</li> <li>• 2 - Subscriber number</li> <li>• 3 - Reserved for national use</li> <li>• 4 - National significant number</li> <li>• 5 - International number</li> </ul>
ruckus(config-hlr-service)# dest-numbering-plan Type: Privileged	1 2	Set the destination numbering plan to: <ul style="list-style-type: none"> <li>• 1 - ISDN Mobile Numbering Plan(Recommendations E.214)</li> <li>• 2 - ISDN/telephony Numbering Plan(Recommendations E.164)</li> </ul>
ruckus(config-hlr-service)# dest-translation-type Type: Privileged	<i>translation-type</i>	Sets the destination translation type.
ruckus(config-hlr-service)# do Type: Privileged		Executes the do command.
ruckus(config-hlr-service)# e164-address Type: Privileged	<i>e164-address</i>	Sets the address as per recommendations E.164.
ruckus(config-hlr-service)# eap-sim-map-version Type: Privileged	2 3	Sets the map version to two or three.
ruckus(config-hlr-service)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hlr-service)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hlr-service)# friendly-name Type: Privileged	<i>friendly-name</i>	Sets the HLR service name.
ruckus(config-hlr-service)# gt-point-code Type: Privileged	<i>point-code</i>	Sets the GT point code.
ruckus(config-hlr-service)# help Type: Privileged		Displays the help.
ruckus(config-hlr-service)# local-point-code Type: Privileged	<i>point-code</i>	Sets the local point code.
ruckus(config-hlr-service)# max-reuse- time Type: Privileged	<i>number</i>	Sets the maximum reuse time.

**TABLE 69** Commands related to ruckus(config-hlr-service) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service)# name Type: Privileged	<i>text</i>	Sets the HLR service name.
ruckus(config-hlr-service)# no Type: Privileged	<i>auth-caching</i> <i>av-caching</i> <i>sccp-gtt</i> <i>sctp</i> <i>source-has-point-code</i>	<ul style="list-style-type: none"> <li>Disables authorization caching</li> <li>Disables AV caching</li> <li>Deletes SCCP GTT</li> <li>Deletes SCTP association to the core network</li> <li>Disables source has point code</li> </ul>
ruckus(config-hlr-service)# routing-context Type: Privileged	<i>routing-context</i>	Sets the routing context.
ruckus(config-hlr-service)# sccp-gtt Type: Privileged	<i>gt-digits</i>	Creates or updates the SCCP GTT table configuration.
ruckus(config-hlr-service)# sctp Type: Privileged	<i>ip</i>	Sets the SCTP association to core network configuration.
ruckus(config-hlr-service)# sgsn-isdn-addr Type: Privileged	<i>sgsn-isdn-addr</i>	Sets the SGSN ISDN address.
ruckus(config-hlr-service)# source-gt-indicator Type: Privileged	1 2	Sets the source GT indicator to: <ul style="list-style-type: none"> <li>1 - Global title includes translation type only</li> <li>2 - Global title includes translation type, numbering plan, encoding scheme and nature of address indicator</li> </ul>
ruckus(config-hlr-service)# source-has-point-code Type: Privileged		Enables the source point code.
ruckus(config-hlr-service)# source-nature-addr-indicator Type: Privileged	1 2 3 4 5	Sets the source nature address of indicator to: <ul style="list-style-type: none"> <li>1: Unknown</li> <li>2: Subscriber Number</li> <li>3: Reserved for National Use</li> <li>4: National Significant Number</li> <li>5: International Number</li> </ul>
ruckus(config-hlr-service)# source-numbering-plan Type: Privileged	1 2	Set the source numbering plan to: <ul style="list-style-type: none"> <li>1 - ISDN Mobile Numbering Plan(Recommendations E.214)</li> <li>2 - ISDN/telephony Numbering Plan(Recommendations E.164)</li> </ul>
ruckus(config-hlr-service)# source-translation-type Type: Privileged	<i>type</i>	Sets the source translation type.

**TABLE 70** Commands related to ruckus(config-hlr-service-sccp-gtt)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service-sccp-gtt)# addr-indicator Type: Privileged	1 2	Sets the address indicator to: <ul style="list-style-type: none"> <li>1: Route on GT</li> <li>2: Route on SSN</li> </ul>

## Configuration Commands (e - r)

### hlr-service

**TABLE 70** Commands related to ruckus(config-hlr-service-sccp-gtt) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service-sccp-gtt)# do Type: Privileged		Executes the do command.
ruckus(config-hlr-service-sccp-gtt)# e164-address Type: Privileged	<i>e164-address</i>	Sets the address as per recommendations E.164.
ruckus(config-hlr-service-sccp-gtt)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hlr-service-sccp-gtt)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hlr-service-sccp-gtt)# gt-digits Type: Privileged	<i>digits</i>	Sets the GT digits.
ruckus(config-hlr-service-sccp-gtt)# gt-indicator Type: Privileged	1 2	Sets the source GT indicator to: <ul style="list-style-type: none"> <li>• 1 - Global title includes translation type only</li> <li>• 2 - Global title includes translation type, numbering plan, encoding scheme and nature of address indicator</li> </ul>
ruckus(config-hlr-service-sccp-gtt)# has-point-code Type: Privileged		Enables the HAS point code.
ruckus(config-hlr-service-sccp-gtt)# has-ssn Type: Privileged		Enables HAS upstream or downstream SSN
ruckus(config-hlr-service-sccp-gtt)# help Type: Privileged		Displays the help.
ruckus(config-hlr-service-sccp-gtt)# nature-addr-indicator Type: Privileged	1 2 3 4 5	Sets the destination nature address of indicator to: <ul style="list-style-type: none"> <li>• 1: Unknown</li> <li>• 2: Subscriber Number</li> <li>• 3: Reserved for National Use</li> <li>• 4: National Significant Number</li> <li>• 5: International Number</li> </ul>
ruckus(config-hlr-service-sccp-gtt)# no Type: Privileged	<i>has-point-code</i> <i>has-ssn</i>	<ul style="list-style-type: none"> <li>• Disable HAS point code</li> <li>• Disable HAS SSN</li> </ul>
ruckus(config-hlr-service-sccp-gtt)# numbering-plan Type: Privileged	1 2	Set the numbering plan to: <ul style="list-style-type: none"> <li>• 1 - ISDN Mobile Numbering Plan(Recommendations E.214)</li> <li>• 2 - ISDN/telephony Numbering Plan(Recommendations E.164)</li> </ul>
ruckus(config-hlr-service)# point-code Type: Privileged		Enables the point code.
ruckus(config-hlr-service-sccp-gtt)# translation-type Type: Privileged	<i>type</i>	Sets the translation type.



**TABLE 71** Commands related to ruckus(config-hlr-service-sctp)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-service-sctp)# adj-point-code Type: Privileged	<i>point-code</i>	Sets the adjacent point code.
ruckus(config-hlr-service-sctp)# dest-ip Type: Privileged	<i>ip</i>	Sets the destination IP address.
ruckus(config-hlr-service-sctp)# dest-port Type: Privileged	<i>port</i>	Sets the destination port.
ruckus(config-hlr-service-sctp)# do Type: Privileged		Executes the do command.
ruckus(config-hlr-service-sctp)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hlr-service-sctp)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hlr-service-sctp)# help Type: Privileged		Displays the help.
ruckus(config-hlr-service-sctp)# max-inbound-streams Type: Privileged	<i>number</i>	Sets the maximum inbound streams
ruckus(config-hlr-service-sctp)# max-outbound-streams Type: Privileged	<i>number</i>	Sets the maximum outbound streams
ruckus(config-hlr-service-sctp)# source-port Type: Privileged	<i>port</i>	Sets the source port.

## hlr-system-wide

To update HLR System Wide configuration, use the following command:

```
ruckus(config)# hlr-system-wide
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# hlr-system-wide  
ruckus(config-hlr-system-wide)#
```

### Related Commands

The [Table 72](#) lists the related hlr-system-wide configuration commands.

**TABLE 72** Commands related to ruckus(config-hlr-system-wide)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hlr-system-wide)# do Type: Privileged		Executes the do command.
ruckus(config-hlr-system-wide)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hlr-system-wide)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hlr-system-wide)# help Type: Privileged		Displays the help.
ruckus(config-hlr-system-wide)# local-network-indicator Type: Privileged	1 3	Sets the local network indicator to: <ul style="list-style-type: none"><li>• 1: International</li><li>• 3: National</li></ul>

# 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

```
ruckus(config)# hostname  
This command will restart some services. Do you want to continue (or input 'no' to cancel)? [yes/no]
```

## hotspot-profile

To create or update the Hotspot (WISPr) service profile configuration, use the following command.

```
ruckus(config)# hotspot profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the Hotspot (WISPr) service profile

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# hotspot htsp1
```

### Related Commands

Table 73 lists the related **hotspot-profile** configuration commands.

**TABLE 73** Commands related to ruckus(config-hotspot-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hotspot-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-hotspot-profile)# do Type: Privileged		Executes the do command.
ruckus(config-hotspot-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-hotspot-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-hotspot-profile)# grace-period Type: Privileged	<i>minutes</i>	Sets the EAP-SIM MAP version.
ruckus(config-hotspot-profile)# help Type: Privileged		Displays the help.
ruckus(config-hotspot-profile)# language Type: Privileged		Sets the portal language.

**TABLE 73** Commands related to ruckus(config-hotspot-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-hotspot-profile)# location-id Type: Privileged	<i>location-id</i>	Sets the location ID.
ruckus(config-hotspot-profile)# location-name Type: Privileged	<i>location-name</i>	Sets the location name.
ruckus(config-hotspot-profile)# logo Type: Privileged	<i>ftp-url</i>	Sets the operator logo.
ruckus(config-hotspot-profile)# logon-url Type: Privileged	<b>internal</b> <b>external</b> <i>logon-url</i> <i>logon-url</i> : Redirects unauthenticated user to the URL for authentication	Sets the logon model.
ruckus(config-hotspot-profile)# mac-address-format Type: Privileged		Sets the MAC address format.
ruckus(config-hotspot-profile)# name Type: Privileged		Renames the hotspot profile.
ruckus(config-hotspot-profile)# no Type: Privileged	<b>show-terms-conditions</b> <b>walled garden</b> <i>walled-garden-list</i> : Allows unauthorized destinations. Comma separated IP address, IP address range, CIDR and domain name list.	Disables the commands.
ruckus(config-hotspot-profile)# session-timeout Type: Privileged	<i>minutes</i>	Sets the session timeout. Defined in minutes.
ruckus(config-hotspot)# show-terms-conditions Type: Privileged		Shows the terms and conditions.
ruckus(config-hotspot-profile)# smart-client-support Type: Privileged	<b>none</b> <b>enable</b> <b>only</b> <i>instructions</i> only 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-profile)# start-page Type: Privileged	<b>original</b> <b>redirect</b> <i>start-url</i> <i>start-url</i> : Redirects to the defined URL	Sets the start page.
ruckus(config-hotspot)# terms-conditions Type: Privileged	<i>terms</i>	Sets the terms and conditions.
ruckus(config-hotspot)# title Type: Privileged	<i>title</i>	Sets the title.
ruckus(config-hotspot-profile)# walled-garden Type: Privileged	<i>walled-garden-list</i>	Enables walled garden. Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list.

# identity-provider

To create or update identity provider configuration, use the following command.

```
ruckus(config)# identity-provider name
```

## Syntax Description

This command uses the following syntax:

*name*

Name of the identity provider

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# identity-provider idwlan  
ruckus(config-identity-provider)#
```

## Related Commands

- [Table 74](#) lists the related **identity-provider** configuration commands.
- [Table 75](#) lists the related **identity-provider-acct-profile** configuration commands.
- [Table 76](#) lists the related **identity-provider-acct-profile-realm** configuration commands.
- [Table 77](#) lists the related **identity-provider-auth-profile** configuration commands
- [Table 78](#) lists the related **identity-provider-auth-profile-realm** configuration commands.
- [Table 79](#) lists the related **identity-provider-osu-enable** configuration commands.
- [Table 80](#) lists the related **identity-provider-realms** configuration commands.
- [Table 81](#) lists the related **identity-provider-realms-eaps** configuration commands.
- [Table 82](#) lists the related **identity-provider-realms-eaps-auth** configuration commands

[Table 74](#) lists the related **identity-provider** configuration commands.

**TABLE 74** Commands related to ruckus(config-identity-provider)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider)# acct-enable Type: Privileged		Enables accounting.
ruckus(config-identity-provider)# acct-profile Type: Privileged		Sets the accounting profile.

**TABLE 74** Commands related to ruckus(config-identity-provider) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider)# auth-profile Type: Privileged		Sets the authentication profile.
ruckus(config-identity-provider)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-identity-provider)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider)# home-ois Type: Privileged	<i>name 5-hex id1 id2 id3 id4 hex-value</i> <i>name 3-hex id1 id2 id3</i>	Sets the Home OIs.
ruckus(config-identity-provider)# name Type: Privileged	<i>name</i>	Sets the identity provider name.
ruckus(config-identity-provider)# no Type: Privileged	<b>acct-enable</b> <b>home-ois</b> <b>osu-enable</b> <b>plmns</b> <b>realm</b>	Disables the commands.
ruckus(config-identity-provider)# osu-enable Type: Privileged		Enables the online signup and provisioning.
ruckus(config-identity-provider)# plmns Type: Privileged	<i>mcc mnc</i>	Sets the PLMNs.
ruckus(config-identity-provider)# realms Type: Privileged	<i>name</i>	Sets the realms

Table 75 lists the related **identity-provider-acct-profile** configuration commands.

**TABLE 75** Commands related to ruckus(config-identity-provider-acct-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-acct-profile)# default Type: Privileged	<b>no-match-realm acct name</b> <b>no-realm acct name</b>	Sets the default service.
ruckus(config-identity-provider-acct-profile)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-identity-provider-acct-profile)# do Type: Privileged		Executes the do command.

**TABLE 75** Commands related to ruckus(config-identity-provider-acct-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-acct-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-acct-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-acct-profile)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-acct-profile)# no Type: Privileged	<b>realm name</b>	Disables the realm command.
ruckus(config-identity-provider-acct-profile)# realm Type: Privileged	<i>realm</i>	Sets the accounting service realm.

Table 76 lists the related **identity-provider-acct-profile-realm** configuration commands.

**TABLE 76** Commands related to ruckus(config-identity-provider-acct-profile-realm)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-acct-profile-realm)# acct-service Type: Privileged	<b>RAD_ACCT</b> : RADIUS type <b>na</b> : NA-Disabled <i>name</i> : Accounting service name	Sets the accounting service.
ruckus(config-identity-provider-acct-profile-realm)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-acct-profile-realm)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-acct-profile-realm)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-acct-profile-realm)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-acct-profile-realm)# name Type: Privileged	<i>name</i>	Sets the realm name.
ruckus(config-identity-provider-acct-profile)# realm Type: Privileged	<i>realm</i>	Sets the accounting service realm.

Table 77 lists the related **identity-provider-auth-profile** configuration commands.



**TABLE 77** Commands related to ruckus(config-identity-provider-auth-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-auth-profile)# aaa-interim-acct-interval Type: Privileged	<i>seconds</i>	Sets the accounting interim interval for the hosted AAA server.
ruckus(config-identity-provider-auth-profile)# aaa-session-idle-timeout Type: Privileged	<i>seconds</i>	Sets the idle session timeout for the hosted AAA server.
ruckus(config-identity-provider-auth-profile)# aaa-session-timeout Type: Privileged	<i>seconds</i>	Sets the session timeout for the hosted AAA server.
ruckus(config-identity-provider-auth-profile)# aaa-support Type: Privileged		Enables the hosted AAA server support.
ruckus(config-identity-provider-auth-profile)# default Type: Privileged	<b>no-match-realm acct name</b> : Set to either RADIUS, local-database, na (request rejected) or radius. Set the authentication service name. <b>no-realm acct name</b> : Sets the default authentication service.	Sets the default service.
ruckus(config-identity-provider-auth-profile)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-identity-provider-auth-profile)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-auth-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-auth-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-auth-profile)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-auth-profile)# gpp-support Type: Privileged		Sets the PLMN identifier.
ruckus(config-identity-provider-auth-profile)# no Type: Privileged	<b>aaa-support</b> <b>gpp-support</b> <b>realm</b>	Disables the commands.
ruckus(config-identity-provider-auth-profile)# realm Type: Privileged	<i>realm</i>	Sets the authentication service realm.
ruckus(config-identity-provider-auth-profile)# sgsn-mcc Type: Privileged	<i>mcc</i>	Sets the mobile country code.
ruckus(config-identity-provider-auth-profile)# sgsn-mnc Type: Privileged	<i>mnc</i>	Sets the mobile network code.

Table 78 lists the related **identity-provider-auth-profile-realm** configuration commands.

**TABLE 78** Commands related to ruckus(config-identity-provider-auth-profile-realm)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-auth-profile-realm)# auth-method Type: Privileged		Sets the authorization method.
ruckus(config-identity-provider-auth-profile-realm)# auth-service Type: Privileged	<b>RAD_AUTH:</b> Sets the RADIUS type <b>local-database:</b> Sets the service to local database <b>na:</b> Sets it to request rejected <b>name:</b> Sets the authentication Service name	Sets the authentication service.
ruckus(config-identity-provider-auth-profile-realm)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-auth-profile-realm)# dynamic-vlan Type: Privileged	<i>vlan-id</i>	Sets the dynamic VLAN ID.
ruckus(config-identity-provider-auth-profile-realm)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-auth-profile-realm)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-auth-profile-realm)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-auth-profile-realm)# name Type: Privileged	<i>name</i>	Sets the authentication service name.

Table 79 lists the related **identity-provider-osu-enable** configuration commands.

**TABLE 79** Commands related to ruckus(config-identity-provider-osu-enable)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-osu-enable)# common-icon Type: Privileged	<i>ftp-url</i>	Sets the common language icon.
ruckus(config-identity-provider-osu-enable)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-osu-enable)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-osu-enable)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-osu-enable)# help Type: Privileged		Displays the help.

**TABLE 79** Commands related to ruckus(config-identity-provider-osu-enable) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-osu-enable)# no Type: Privileged	<b>osu-auth-services</b> <b>service-descr</b> <b>whitelisted-domains</b>	Disables the commands
ruckus(config-identity-provider-osu-enable)# osu-auth-services Type: Privileged	<i>service-name local realm</i> <i>service-name</i> : Authentication services name <b>local</b> : Local database <i>realm</i> : Realm server <i>service-name remote realm</i> <b>remote</b> : Supports only RADIUS service <i>service-name local realm never</i> <i>service-name local realm hour</i> <i>expiration-value</i> : Local credential expiration, between 1 and 175200 <i>service-name local realm day</i> <i>expiration-value</i> : Local credential expiration, between 1 and 7300 <i>service-name local realm week</i> <i>expiration-value</i> : - Local credential expiration, between 1 and 1040 <i>service-name local realm month</i> <i>expiration-value</i> : Local credential expiration - between 1 and 240	Sets the OSU authentication services.
ruckus(config-identity-provider-osu-enable)# osu-cert Type: Privileged	<b>#{cert}</b>	Sets the OSU certificates.
ruckus(config-identity-provider-osu-enable)# osu-nai-realm Type: Privileged		Sets the OSU NAI realm.
ruckus(config-identity-provider-osu-enable)# osu-portal Type: Privileged	<b>internal</b> <i>osu-portal-profile</i> <b>external</b> <i>portal-url</i>	Sets the OSU portal.
ruckus(config-identity-provider-osu-enable)# provisioning-format Type: Privileged	<b>r2-r1-zeroit</b> <b>r2-r1-zeroit</b> : Hotspot 2.0 R2, Hotspot 2.0 R1 (Apple and Samsung) <b>r2-zeroit</b> : Hotspot 2.0 R2 only	Sets the provisioning format.
ruckus(config-identity-provider-osu-enable)# provisioning-protocol Type: Privileged	<b>all</b> <b>oma-dm</b> <b>soap-xml</b>	Sets the provisioning protocol.
ruckus(config-identity-provider-osu-enable)# provisioning-service Type: Privileged	<b>internal</b> <b>external</b> <i>service-url</i>	Sets the provisioning service.

**TABLE 79** Commands related to ruckus(config-identity-provider-osu-enable) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-osu-enable)# provisioning-service-url Type: Privileged	<i>url</i>	Sets the provisioning service URL.
ruckus(config-identity-provider-osu-enable)# provisioning-update-at Type: Privileged	<b>home-only</b> <b>home-roaming</b> <b>any</b>	Sets the provisioning update.
ruckus(config-identity-provider-osu-enable)# service-descr Type: Privileged	<i>language name icon-ftp-url</i> <i>language name description icon-ftp-url</i>	Sets the subscription description
ruckus(config-identity-provider-osu-enable)# whitelisted-domains Type: Privileged	<i>domain-name</i>	Sets the white listed domains.

Table 80 lists the related **identity-provider-realms** configuration commands.

**TABLE 80** Commands related to ruckus(config-identity-provider-realms)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-realms)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-realms)# eaps Type: Privileged	[ <b>#4</b>   <b>#2</b>   <b>#3</b>   <b>#1</b> ] <b>#4</b> : EAP method ID <b>#2</b> : EAP method ID <b>#3</b> : EAP method ID <b>#1</b> : EAP method ID	Creates or updates the EAP configuration.
ruckus(config-identity-provider-realms)# encoding Type: Privileged	[ <b>rfc-4282</b>   <b>utf-8</b> ]	Sets the encoding type.
ruckus(config-identity-provider-realms)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-realms)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-realms)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-realms)# name Type: Privileged	<i>name</i>	Sets the realm name.
ruckus(config-identity-provider-realms)# no Type: Privileged	<b>eaps</b>	Disables the command.

Table 81 lists the related **identity-provider-realms-eaps** configuration commands.

**TABLE 81** Commands related to ruckus(config-identity-provider-realms-eaps)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-realms-eaps)# auth Type: Privileged	[ <b>4</b>   <b>1</b>   <b>2</b>   <b>3</b> ] <b>4</b> : Authentication index <b>1</b> : Authentication index <b>2</b> : Authentication index <b>3</b> : Authentication index	Creates or updates the authentication information based on the index.
ruckus(config-identity-provider-realms-eaps)# do Type: Privileged		Executes the do command.
ruckus(config-identity-provider-realms-eaps)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-identity-provider-realms-eaps)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-identity-provider-realms-eaps)# help Type: Privileged		Displays the help.
ruckus(config-identity-provider-realms-eaps)# method Type: Privileged	[ <b>eap-aka-23</b>   <b>eap-tls</b>   <b>eap-mschap-v2</b>   <b>na</b>   <b>eap-aka-50</b>   <b>md5</b>   <b>eap-ttls</b>   <b>reserved</b>   <b>eap-sim</b>   <b>eap-cisco</b>   <b>peap</b> ] <b>eap-aka-23</b> : EAP-AKA <b>eap-tls</b> : EAP-Transport Layer Security (EAP-TLS) <b>eap-mschap-v2</b> : EAP-MSCHAP-V2 <b>na</b> : N/A <b>eap-aka-50</b> : EAP-AKA <b>md5</b> : MD5-Challenge <b>eap-ttls</b> : EAP-Tunneled Transport Layer Security (EAP-TTLS) <b>reserved</b> : Reserved for the Expanded Type <b>eap-sim</b> : EAP for GSM Subscriber Identity Module (EAP-SIM) <b>eap-cisco</b> : EAP-Cisco <b>peap</b> : Protected Extensible Authentication Protocol (PEAP)	Sets the EAP method.
ruckus(config-identity-provider-realms-eaps)# no Type: Privileged	<b>auth</b>	Disables the command.

Table 82 lists the related **identity-provider-realms-eaps-auth** configuration commands.

**TABLE 82** Commands related to ruckus(config-identity-provider-realms-eaps-auth)

Syntax and Type	Parameters (if any)	Description
ruckus(config-identity-provider-realms-eaps-auth)# info  Type: Privileged	<b>[ tunneled   credential   non-eap-inner   expand-inner-eap   inner-auth-eap   expand-eap ]</b>  <b>tunneled:</b> Tunneled EAP method credential type  <b>credential:</b> Credential type  <b>non-eap-inner:</b> Non EAP inner authentication type  <b>expand-inner-eap:</b> Expanded inner EAP method  <b>inner-auth-eap:</b> Inner authentication EAP method type  <b>expand-eap:</b> Expanded EAP method	Sets the authentication parameter type.
ruckus(config-identity-provider-realms-eaps-auth)# type  Type: Privileged	<i>type</i>	Sets the authentication type.
ruckus(config-identity-provider-realms-eaps-auth)# vendor-id  Type: Privileged	<i>vendor-id</i>	Sets the vendor ID.
ruckus(config-identity-provider-realms-eaps-auth)# vendor-type  Type: Privileged	<i>vendor-type</i>	Sets the vendor type.

## interface

To setup the interface configuration, use the following command.

```
ruckus(config)# interface cluster name
```

```
ruckus(config)# interface control
```

```
ruckus(config)# interface management
```

```
ruckus(config)# interface user-defined name
```

## Syntax Description

This command uses the following syntax:

**cluster***name*

**cluster**

Sets the cluster interface

*name*

Name of the cluster

**control**

Sets the interface control configuration

**management**

Sets the management interface configuration

**user-defined**

Sets the user defined interface configuration

**mgmt-and-ap-control**

Sets the management and AP control

**user-defined***name*

**user-defined**

Sets the user defined interface configuration

*name*

User defined interface name.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# interface management  
ruckus(config-if)# data-plane
```

## Related Commands

- [Table 83](#) lists the related **interface** configuration commands.
- [Table 83](#) lists the related **interface-user-defined** configuration commands.
- [Table 85](#) lists the related interface-management configuration commands

The following command lists the related **interface** configuration commands.

**TABLE 83** Commands related to ruckus(config-interface)

Syntax and Type	Parameters (if any)	Description
ruckus(config-interface)# data-plane Type: Privileged	<b>name forward-stp</b> <b>name:</b> Dataplane name: Dataplane name <b>forward-stp:</b> Disables the STP package bridge	Updates the dataplane configuration
ruckus(config-interface)# do Type: Privileged		Executes the do command.
ruckus(config-interface)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-interface)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-interface)# help Type: Privileged		Displays the help.
ruckus(config-interface)# interface Type: Privileged	<i>control</i>	Sets the physical interface such as control interface.
ruckus(config-interface)# name Type: Privileged		Renames the user-define interface.
ruckus(config-interface)# ip Type: Privileged	<b>address dhcp</b> <b>address:</b> Sets IP address of interface <b>dhcp:</b> IP address negotiated by DHCP <b>ipv6-address auto</b> <b>ipv6-address:</b> Sets the IPv6 address with prefix lengths of interface <b>auto:</b> IPv6 address negotiated by auto <b>address ip mask gateway</b> <b>address:</b> Sets IP address of interface <i>ip:</i> Static IP address <i>mask:</i> IP Subnet mask <i>gateway :</i> Gateway <b>ipv6-address ip gateway</b> <b>ipv6-address:</b> Sets IPv6 address of interface <i>ip:</i> Static IPv6 address <i>gateway:</i> Gateway	Sets the IP address.



**TABLE 83** Commands related to ruckus(config-interface) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-interface)# no data-plane Type: Privileged	<i>name</i>	Disables the data-plane
ruckus(config-interface)# service Type: Privileged	<i>hotspot</i>	Sets the services such as hotspot.
ruckus(config-interface)# vlan Type: Privileged	<i>vlan-id</i>	Sets the VLAN ID for the interface.

The following command lists the related **interface-user-defined** configuration commands.

**TABLE 84** Commands related to ruckus(config-interface-user-defined)

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

The following table lists the related interface-management configuration commands.

**TABLE 85** Commands related to ruckus(config-interface-user-defined)

Syntax and Type	Parameters (if any)	Description
ruckus(config-interface)# data-plane Type: Privileged	<i>name</i>	Updates the dataplane 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.

**TABLE 85** Commands related to ruckus(config-interface-user-defined) (continued)

Syntax and Type	Parameters (if any)	Description
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	<b>address:</b> Sets IP address of interface <b>ipv6-address:</b> Sets the IPv6 address with prefix lengths of interface	Sets the IP address for the management interface.
ruckus(config-if)# no Type: Privileged	<i>vlan-id</i>	Disables this command.

## ip control-nat

To set the control NAT IP configuration, use the following command.

```
ruckus(config)# ip control-nat ip
```

### Syntax Description

This command uses the following syntax:

*ip*

The Control NAT IP

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip control-nat
```

## ip default-gateway

To setup the default gateway configuration, use the following command.

```
ruckus(config)# ip default-gateway cluster
```

```
ruckus(config)# ip default-gateway control
```

```
ruckus(config)# ip default-gateway management
```

### Syntax Description

This command uses the following syntax:

**cluster**

Cluster interface

**control**

Control interface

**management**

Management interface

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip default-gateway control
```

## ip default-gateway-ipv6

To setup the default gateway configuration for IPv6, use the following command.

```
ruckus(config)# ip default-gateway-ipv6
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip default-gateway-ipv6
cluster          Cluster interface
control          Control interface
management      Management interface
ruckus(config)# ip default-gateway-ipv6 cluster
This command will reload all SCG services. Do you want to continue (or input 'no ' to cancel)? [yes/no]
```

## Configuration Commands (e - r)

ip internal-subnet

# ip internal-subnet

To setup the IP address internal subnet, use the following command.

```
ruckus(config)# ip internal-subnet prefix
```

## Syntax Description

This command uses the following syntax:

```
prefix  
Subnet prefix
```

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# ip internal-subnet prefix  
This command will reboot internal interface, data planes and SMF service. Do you want to continue?
```

## ip ipv6-route

To set up the IPv6 static rule configuration, use the following command:

```
ruckus(config)# ip ipv6-route ip interface
```

### Syntax Description

This command uses the following syntax:

*ip*: Destination network IPv6 address with prefix length

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip ipv6-route 193.12.30.10
```

## ip name-server

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

```
ruckus(config)# ip name-server ip 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

```
ruckus(config)# ip name-server ip 172.19.13.56
```



## ip name-server-ipv6

To setup the IPv6 server configuration, use the following command.

```
ruckus(config)# ip name-server-ipv6 ipv6-address ipv6-address
```

### Syntax Description

This command uses the following syntax:

*ipv6-address*

Primary DNS server

*ipv6-address*

Secondary DNS server

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip name-server-ipv6 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:

<i>ip</i>	Destination network IP address
<i>mask</i>	Destination network mask
<i>ip</i>	Next hop IP address
<i>interface</i>	Interface
<i>metric</i>	Distance metric for this route

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip route ip 193.12.30.10 255.255.255 10.9.0.254 management
```

## ip separate-access-core

To enable access and core gateway, use the following command.

```
ruckus(config)# ip separate-access-core enable
```

### Syntax Description

This command uses the following syntax:

**enable**

To enable access and core gateway

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip separate-access-core enable
```

## ip-support

To update IP version support, use the following command.

```
ruckus(config)# ip-support ipv4-ipv6 ipv4-only
```

### Syntax Description

This command uses the following syntax:

**ipv4-ipv6**

To support both IPv4 and IPv6 versions

**ipv4-only**

To support IPv4 version only

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ip-support ipv4-ipv6
```

## ipsec-profile

To update IPsec profile configuration, use the following command.

```
ruckus(config)# ipsec-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

IPsec profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ipsec-profile xyz
```

### Related Commands

The following table lists the related **ipsec-profile** configuration commands

**TABLE 86** Commands related to ruckus(config-ipsec-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ipsec-profile)# auth-type Type: Privileged		Sets the authentication type
ruckus(config-ipsec-profile)# cara-server Type: Privileged		Sets Certificate Management Protocol CA/RA address.
ruckus(config-ipsec-profile)# cara-server-path Type: Privileged		Sets Certificate Management Protocol Server path.
ruckus(config-ipsec-profile)# cara-subject-name Type: Privileged		Sets the Certificate Management Protocol subject name of CA/RA
ruckus(config-ipsec-profile)# cmp-dhcp-opt43-subcode Type: Privileged		Sets the Certificate Management Protocol DHCP option 43 sub code for the CA/RA address
ruckus(config-ipsec-profile)# cmp-subject-name-dhcp-opt43-subcode Type: Privileged		Sets the Certificate Management Protocol DHCP option 43 sub code for subject name of CA/RA

## Configuration Commands (e - r)

### ipsec-profile

**TABLE 86** Commands related to ruckus(config-ipsec-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ipsec-profile)# description Type: Privileged		Sets the description.
ruckus(config-ipsec-profile)# dhcp-opt43-subcode Type: Privileged		Sets the DHCP option 43 sub code for Security Gateway.
ruckus(config-ipsec-profile)# do Type: Privileged		Executes the do command.
rruckus(config-ipsec-profile)# dpd-delay Type: Privileged		Sets the Dead Peer Detection.
ruckus(config-ipsec-profile)# end Type: Privileged		End the current configuration session and return to privileged EXEC mode
ruckus(config-ipsec-profile)# esp-proposal Type: Privileged	[ <b>3des</b>   <b>aes256</b>   <b>aes192</b>   <b>aes128</b>   <b>none</b> ] [ <b>md5</b>   <b>sha512</b>   <b>sha384</b>   <b>sha1</b>   <b>sha256</b>   <b>aesxcbc</b> ] [ <b>modp8192</b>   <b>modp6144</b>   <b>modp1024</b>   <b>none</b>   <b>modp3072</b>   <b>modp2048</b>   <b>modp1536</b>   <b>modp768</b>   <b>modp4096</b> ]  <b>3des</b> : 3DES  <b>aes256</b> : AES256  <b>aes192</b> : AES192  <b>aes128</b> : AES128  <b>md5</b> : MD5  <b>sha512</b> : SHA512  <b>sha384</b> : SHA384  <b>sha1</b> : SHA1  <b>sha256</b> : SHA256  <b>aesxcbc</b> : AES-XCBC  <b>modp8192</b> :MODP8192  <b>modp6144</b> :MODP6144  <b>modp1024</b> :MODP1024  <b>none</b> : None  <b>modp3072</b> :MODP3072  <b>modp2048</b> :MODP2048  <b>modp1536</b> :MODP1536  <b>modp768</b> : MODP768  <b>modp4096</b> :MODP4096	Add ESP proposal
ruckus(config-ipsec-profile)# esp-rekeytime Type: Privileged		Sets the ESP Rekey time.
ruckus(config-ipsec-profile)# esp-type Type: Privileged		Set ESP Proposal Type

**TABLE 86** Commands related to ruckus(config-ipsec-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ipsec-profile)# exit Type: Privileged		Exits from the EXEC mode.
ruckus(config-ipsec-profile)# failover-check-interval Type: Privileged		Sets the Fail Over Check Interval
ruckus(config-ipsec-profile)# failover-retry-interval Type: Privileged		Sets the Fail Over Retry Interval
ruckus(config-ipsec-profile)# failover-retry-mode Type: Privileged		Sets the Fail Over Retry mode.
ruckus(config-ipsec-profile)# failover-retry-period Type: Privileged		Sets the Fail Over Retry period.
ruckus(config-ipsec-profile)# help Type: Privileged		Displays the help.
ruckus(config-ipsec-profile)# ike-proposal Type: Privileged	<p>[ <b>3des</b>   <b>aes256</b>   <b>aes192</b>   <b>aes128</b> ]            [ <b>sha1</b>   <b>md5</b>   <b>aesxcbc</b>   <b>sha512</b>    <b>sha384</b>   <b>sha256</b> ] [ <b>prfsha1</b>   <b>prfmd5</b>    <b>prfsha256</b>   <b>prfaescmac</b>   <b>prfaesxcbc</b>    <b>prfsha384</b>   <b>prfsha512</b>   <b>use-integrity-</b>  <b>alg</b> ] [ <b>modp1024</b>   <b>modp8192</b>    <b>modp6144</b>   <b>modp768</b>   <b>modp4096</b>    <b>modp3072</b>   <b>modp1536</b>   <b>modp2048</b> ]</p> <p><b>3des</b>: 3DES  <b>aes256</b>: AES256  <b>aes192</b>: AES192  <b>aes128</b>: AES128  <b>sha1</b>: SHA1  <b>md5</b>: MD5  <b>aesxcbc</b>: AES-XCBC  <b>sha512</b>: SHA512  <b>sha384</b>: SHA384  <b>sha256</b>: SHA256  <b>prfsha1</b>: PRF-SHA1  <b>prfmd5</b>: PRF-MD5  <b>prfsha256</b>: PRF-SHA256  <b>prfaescmac</b>: PRF-AES-CMAC  <b>prfaesxcbc</b>: PRF-AES-XCBC  <b>prfsha384</b>: PRF-SHA384  <b>prfsha512</b>: PRF-SHA512 contd...</p>	Adds IKE proposal

**TABLE 86** Commands related to ruckus(config-ipsec-profile) (continued)

Syntax and Type	Parameters (if any)	Description
	<b>use-integrity-alg</b> : Use integrity ALG <b>modp1024</b> : MODP1024 <b>modp8192</b> : MODP8192 <b>modp6144</b> : MODP6144 <b>modp768</b> : MODP768	
ruckus(config-ipsec-profile)# ike-rekeytime Type: Privileged		Sets the IKE Rekey time.
ruckus(config-ipsec-profile)# ike-type Type: Privileged		Sets the IKE Proposal type.
ruckus(config-ipsec-profile)# ip-compression Type: Privileged		Enables IP compression.
ruckus(config-ipsec-profile)# ipmode Type: Privileged		Sets the IP mode.
ruckus(config-ipsec-profile)# keep-alive-interval Type: Privileged		Sets the NAT-T Keep Alive interval.
ruckus(config-ipsec-profile)# name Type: Privileged		Sets the IPsec profile name.
ruckus(config-ipsec-profile)# nat-traversal Type: Privileged		Enables force NAT-T.
ruckus(config-ipsec-profile)# no Type: Privileged	<b>cara-server</b> <b>cara-server-path</b> <b>cara-subject-name</b> <b>dpd-delay</b> <b>esp-proposal</b> <b>esp-rekeytime</b> <b>ike-proposal</b> <b>ike-rekeytime</b> <b>ip-compression</b> <b>keep-alive-interval</b> <b>nat-traversal</b> <b>replay-window</b> <b>retry-limit</b> <b>security-gateway</b>	Disables and deletes commands.
ruckus(config-ipsec-profile)# replay-window Type: Privileged	<i>packet</i> : Replay window packets (1 - 32)	Sets the Replay window.
ruckus(config-ipsec-profile)# retry-limit Type: Privileged	<i>value</i> : Retry limit time (1 - 16)	Sets the Retry limit.



**TABLE 86** Commands related to ruckus(config-ipsec-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ipsec-profile)# security-gateway Type: Privileged	<i>address</i> : Security gateway	Sets the Security gateway.

## I2ogre-profile

To create or update the L2oGRE profile configuration, use the following command.

```
ruckus(config)# l2ogre-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

L2oGRE profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# l2ogre-profile l2g1
```

### Related Commands

The following table lists the related **l2ogre-profile** configuration commands

**TABLE 87** Commands related to ruckus(config-l2ogre-profile).

Syntax and Type	Parameters (if any)	Description
ruckus(config-l2ogre-profile)# description Type: Privileged	<i>text</i>	Sets the description. Length is between 1 and 128,
ruckus(config-l2ogre-profile)# dhcp-option82 Type: Privileged		Enables DHCP Option 82.
ruckus(config-l2ogre-profile)# dhcp-relay Type: Privileged		Enables DHCP relay.
ruckus(config-l2ogre-profile)# dhcp-server1 Type: Privileged	<i>ip</i>	Sets the DHCP server 1.
ruckus(config-l2ogre-profile)# dhcp-server2 Type: Privileged	<i>ip</i>	Sets the DHCP server 2.
ruckus(config-l2ogre-profile)# do Type: Privileged		Executes the do command.
ruckus(config-l2ogre-profile)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.

**TABLE 87** Commands related to ruckus(config-l2ogre-profile). (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-l2ogre-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-l2ogre-profile)# help Type: Privileged		Displays the help.
ruckus(config-l2ogre-profile)# icmp-keep-alive-period Type: Privileged	<i>seconds</i>	Sets the ICMP keepalive period.
ruckus(config-l2ogre-profile)# icmp-keep-alive-retry Type: Privileged	<i>number</i>	Sets the number of retries for ICMP keepalive.
ruckus(config-l2ogre-profile)# name Type: Privileged	<i>name</i>	Sets the L2oGRE profile name. no
ruckus(config-l2ogre-profile)# no Type: Privileged	<b>dhcp-option82</b> <b>dhcp-relay</b> <b>dhcp-server2</b> <b>relay-both</b> <b>secondary-gateway</b>	Disables L2oGRE settings.
ruckus(config-l2ogre-profile)# primary-gateway Type: Privileged	<i>ip</i>	Sets the primary gateway IP address.
ruckus(config-l2ogre-profile)# relay-both Type: Privileged		Enables sending the DHCP requests to both the servers simultaneously.
ruckus(config-l2ogre-profile)# secondary-gateway Type: Privileged	<i>ip</i>	Sets the secondary gateway IP address.
ruckus(config-l2ogre-profile)# tunnel-mtu Type: Privileged	<b>auto</b> : Auto MTU size  <i>bytes</i> : Manual MTU size	Sets the tunnel MTU options.

The following table lists the related **l2ogre-profile-dhcp-option82** configuration commands.

**TABLE 88** Commands related to ruckus(config-l2ogre-profile-dhcp-option82) configuration

Syntax and Type	Parameters (if any)	Description
ruckus(config-l2ogre-profile-dhcp-option82)# do Type: Privileged		Executes the do command.
ruckus(config-l2ogre-profile-dhcp-option82)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-l2ogre-profile-dhcp-option82)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-l2ogre-profile-dhcp-option82)# help Type: Privileged		Displays the help.

**TABLE 88** Commands related to ruckus(config-l2ogre-profile-dhcp-option82) configuration (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-l2ogre-profile-dhcp-option82)# no Type: Privileged	<b>subopt1</b> <b>subopt150</b> <b>subopt151</b> <b>subopt2</b>	Disables various options
ruckus(config-l2ogre-profile-dhcp-option82)# subtopt1 Type: Privileged	[ <b>ap-info</b>   <b>ap-ssid</b>   <b>ap-mac</b> ]	Enables subopt-1
ruckus(config-l2ogre-profile-dhcp-option82)# subtopt150 Type: Privileged		Enables subopt-150
ruckus(config-l2ogre-profile-dhcp-option82)# subtopt151 Type: Privileged	<b>ssid</b> <b>area-name</b> <i>name</i>	Enables subopt-151
ruckus(config-l2ogre-profile-dhcp-option82)# subtopt2 Type: Privileged	[ <b>ap-ssid</b>   <b>ue-ssid</b>   <b>ue-mac</b>   <b>ap- mac</b> ]	Enables subopt-2

## Ibs-service

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

```
ruckus(config)# lbs-service name
```

### Syntax Description

This command uses the following syntax:

```
name
    LBS venue name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# lbs-service name
ruckus(config-lbs-service)#
```

### Related Commands

The following table lists the related **lbs-service** configuration command.

**TABLE 89** 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	<i>IP address domain name</i>	Sets the server address.
ruckus(config-lbs-service)# password Type: Privileged	<i>password</i>	Sets the password.
ruckus(config-lbs-service)# port Type: Privileged	<i>port</i>	Sets the port number.

**TABLE 89** Commands related to ruckus(config-lbs-service). (continued)

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

## ldap-service

To create and update the LDAP service configuration, use the following command.

```
ruckus(config)# ldap-service name
```

### Syntax Description

This command uses the following syntax:

```
name
LDAP service name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ldap-service
ruckus(config-ldap-service)#
```

### Related Commands

Table 90 lists the related **ldap-service** configuration command

**TABLE 90** Commands related to ruckus(config-ldap-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ldap-service)# admin-domain-name Type: Privileged	<i>domain-name</i> : LDAP admin domain name, To query multiple organizational units, enter an admin domain name and password with full search and read privileges. For example: uid=admin,dc=ldap,dc=com	Sets the LDAP administrator domain name.
ruckus(config-ldap-service)# admin-password Type: Privileged	<i>password</i> : LDAP server admin password. For example: uid.	Sets the LDAP administrator password.
ruckus(config-ldap-service)# base-domain-name Type: Privileged	<i>domain-name</i> : LDAP base domain name. For example: dc=ldap,dc=com	Sets the LDAP base domain name.
ruckus(config-ldap-service)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-ldap-service)# do Type: Privileged		Sets the do command.

## Configuration Commands (e - r)

### ldap-service

**TABLE 90** Commands related to ruckus(config-ldap-service) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-ldap-service)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-ldap-service)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ldap-service)# friendly-name Type: Privileged	<i>friendly-name</i>	Sets the LDAP service name as seen by the user.
ruckus(config-ldap-service)# group-attrs Type: Privileged	<i>attr-value user-role</i> <i>attr-value</i> : Group attribute value <i>user-role</i> : User role	Sets the user traffic profile mapping.
ruckus(config-ldap-service)# help Type: Privileged		Displays the help message.
ruckus(config-ldap-service)# ip-address Type: Privileged	<i>ip</i>	Sets the IP address for LDAP server.
ruckus(config-ldap-service)# key-attr Type: Privileged	<i>attr-value</i> For example: uid	Sets the key attribute for LDAP server.
ruckus(config-ldap-service)# no Type: Privileged	<b>group-attrs</b>	Disables the command.
ruckus(config-ldap-service)# port Type: Privileged	<i>port</i>	Sets the port number for LDAP server.
ruckus(config-ldap-service)# search-filter Type: Privileged	<i>filter</i> For example: (objectClass=Person, show more...)	Sets the search filter for LDAP server.
ruckus(config-ldap-service)# test Type: Privileged	<i>usernamepassword</i>	Test AAA 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**

Enable Cloud License server

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# license cloud
```

## license export

To export licenses, use the following command.

```
ruckus(config)# license export 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*

Set Control Plane

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# license export ftp://mahan:ruckus1!@172.19.7.100
```

## license import

To setup the import licenses, use the following command.

```
ruckus(config)# license import ftp-url
```

### Syntax Description

This command uses the following syntax:

**ftp-url**

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

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# license import ftp://mahan: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*

Set Local License Server IP or Domain name

*port*

Set Local License Server port number

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# license local
```

## license sync-now

To synchronize the license with the server, 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

```
ruckus(config)# license sync-now
```

## lineman

To setup the workflow URL or to upload the workflow file, use the following command.

```
ruckus(config)# lineman workflow-file ftp-url
```

```
ruckus(config)# lineman workflow-url ftp-url
```

### Syntax Description

This command uses the following syntax:

*ftp-url*

Define the FTP URL format

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# lineman workflow-file https://172.19.10.4:8443
```

# localdb-service

To create or update the local database service configuration, use the following command.

**ruckus(config)# localdb-service**

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# localdb-service
ruckus(config-localdb-service)#
```

## Related Commands

[Table 91](#) lists the related **localdb-service** configuration command.

**TABLE 91** Commands related to ruckus(config-localdb-service)

Syntax and Type	Parameters (if any)	Description
ruckus(config-localdb-service)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-localdb-service)# do Type: Privileged		Sets the do command
ruckus(config-localdb-service)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-localdb-service)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-localdb-service)# friendly-name Type: Privileged	<i>friendly-name</i>	Displays the local database server name as seen by the user.
ruckus(config-localdb-service)# group-attrs Type: Privileged	<i>attr-value user-role</i> <i>attr-value</i> : Group attribute value <i>user-role</i> : User role	Sets the user traffic profile mapping.
ruckus(config-localdb-service)# help Type: Privileged		Displays the help message.

## 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:

<b>cli</b>	Enable CLI logging on the console
<b>error</b>	Enable CLI logging on the console and change logging level to ERROR
<b>info</b>	Enable CLI logging on the console and change logging level to INFO
<b>debug</b>	Enable CLI logging on the console and change logging level to DEBUG
<i>name</i>	System service name, which enables logging for a system service

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# logging console monitor
07:04:20,946 |-INFO in ch.qos.logback.core.rolling.FixedWindowRollingPolicy@167a3a6 - Will use gz
compression
07:04:20,951 |-INFO in ch.qos.logback.core.rolling.RollingFileAppender[FILE] - Active log file
name: /opt/ruckuswireless/wsg/log/monitor/monitor.log
07:04:20,952 |-INFO in ch.qos.logback.core.rolling.RollingFileAppender[FILE] - File property is set to
[/opt/ruckuswireless/wsg/log/monitor/monitor.log]
07:04:20,953 |-INFO in ch.qos.logback.classic.gaffer.ConfigurationDelegate@6ab53f63 - About to
instantiate appender of type [ch.qos.logback.classic.net.SyslogAppender]
```



## Iwapp2scg

To update the LWAPP to SCG 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

```
ruckus(config)# lwapp2scg
```

### Related Commands

The following table lists the related **lwapp2scg** configuration command.

**TABLE 92** Commands related to ruckus(config-lwapp2scg).

Syntax and Type	Parameters (if any)	Description
ruckus(config-lwapp2scg)# acl-ap Type: Privileged	<b>mac</b> <i>ApMac</i> : 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  <b>serial</b> <i>SerialNumber</i> : Sets the serial number. Use commas to separate the serial numbers. For example: 123456789012,987654321021	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.
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	<b>acl-ap</b>  <b>nat-ip-translation</b>	Disables the commands.

**TABLE 92** Commands related to ruckus(config-lwapp2scg). (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-lwapp2scg)# nat-ip-translation Type: Privileged		NAT IP Translation in FTP Passive mode. This mode is enabled by default and is required if the user's NAT cannot support PASV-mode FTP.
ruckus(config-lwapp2scg)# pasv-port Type: Privileged	<i>min port max port</i> : Sets the minimum and maximum port.	Sets the minimum and maximum port for the dynamic data transmission port range. For PASV-mode FTP to work, the user has to set up a firewall that restricts the range of ports opened by the FTP server, thereby remaining secure, and enabling the download of AP firmware.
ruckus(config-lwapp2scg)# policy Type: Privileged	<b>accept</b> Accept by ACL AP list <b>accept-all</b> Accept all <b>deny</b> Deny by ACL AP list <b>deny-all</b> Deny all	Sets the ACL policy. Use the <b>accept</b> option to upgrade individual APs as required by MAC address or serial number.  Use the <b>accept-all</b> option to upgrade all APs together. Ensure that there is no existing ZD deployment around in the same sub-net and still in use. All the ZD APs will be affected and upgraded to SCG.  Use the <b>deny</b> option to exclude specific APs from being upgraded to SCG by MAC address or serial number.  Use the <b>deny-all</b> option to exclude all APs from being upgraded to SCG.

## mgmt-acl

To create or update the management interface access control list configuration, use the following command.

```
ruckus(config)# mgmt-acl
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# mgmt-acl
```

### Related Commands

- [Table 93](#) lists the related **mgmt-acl** server configuration commands.
- [Table 94](#) lists the related **mgmt-acl-rule** configuration commands.

The following table lists the related mgmt-acl server configuration commands.

**TABLE 93** Commands related to ruckus(config-mgmt-acl))

Syntax and Type	Parameters (if any)	Description
ruckus(config-mgmt-acl)# do Type: Privileged		Executes the do command.
ruckus(config-mgmt-acl)# enable Type: Privileged		Enables the access control of the management interface.
ruckus(config-mgmt-acl)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-mgmt-acl)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-mgmt-acl)# help Type: Privileged		Displays the help.
ruckus(config-mgmt-acl)# no Type: Privileged	<b>enable</b> <b>rule</b>	Disables various options.
ruckus(config-mgmt-acl)# rule Type: Privileged	<i>name</i> : ACL rule name	Creates or updates the management interface ACL rule configuration.

The following table lists the related **mgmt-acl-rule** configuration commands.

**TABLE 94** Commands related to ruckus(config-mgmt-acl-rule).

Syntax and Type	Parameters (if any)	Description
ruckus(config-mgmt-acl-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-mgmt-acl-rule)# do Type: Privileged		Executes the do command.
ruckus(config-mgmt-acl-rule)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-mgmt-acl-rule)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-mgmt-acl-rule)# help Type: Privileged		Displays the help.
ruckus(config-mgmt-acl-rule)# name Type: Privileged	<i>name</i>	Sets the management interface ACL rule name.
ruckus(config-mgmt-acl-rule)# restriction Type: Privileged	<b>range ip ip:</b> Sets IP range restriction with start and end IP addresses  <b>single ip:</b> Sets single IP restriction and IP address  <b>subnet ip mask:</b> Sets the subnet restriction along with network address and subnet mask	Sets the restriction

## mvno

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

```
ruckus(config)# mvno name
```

### Syntax Description

This command uses the following syntax:

```
name
    MVNO name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# mvno mv1
```

### Related Commands

- [Table 95](#) lists the related **mvno** configuration commands.
- [Table 96](#) lists the related **mvno-admin** configuration commands.
- [Table 97](#) lists the related **mvno admin radius** configuration commands.

The following table lists the related **mvno** configuration commands.

**TABLE 95** Commands related to ruckus(config-mvno)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno)# admin Type: Privileged	<i>name</i>	Adds an administrator account.
ruckus(config-mvno)# admin-radius Type: Privileged	<i>name</i>	Set the RADIUS server for administrators.
ruckus(config-mvno)# capabilities Type: Privileged	<i>capabilities-depth-1</i> <i>capabilities-depth-2</i> <i>capabilities-depth-3</i> <i>capabilities-depth-4</i> <i>capabilities-depth-5</i> <i>capabilities-depth-6</i>	Sets the capabilities.

**TABLE 95** Commands related to ruckus(config-mvno) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-mvno)# do Type: Privileged		Executes the do command.
ruckus(config-mvno)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-mvno)# exit Type: Privileged		Exits from the EXEC.
ruckus(diagnostic))# help Type: Privileged		Displays the help.
ruckus(config-mvno)# no Type: Privileged	<b>admin-radius</b> <b>capabilities</b> <i>capabilities-depth-1</i> <i>capabilities-depth-2</i> <i>capabilities-depth-3</i> <i>capabilities-depth-4</i> <i>capabilities-depth-5</i> <i>capabilities-depth-6</i> <b>wlan</b> <b>zone</b>	Disables and deletes configuration commands.
ruckus(config-mvno)# wlan Type: Privileged	<i>name</i>	Adds a WLAN and WLAN name.
ruckus(config-mvno)# zone Type: Privileged	<i>name</i>	Adds a zone and zone name.

The following table lists the related **mvno-admin** configuration commands.

**TABLE 96** Commands related to ruckus(config-mvno-admin)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno-admin)# do Type: Privileged		Executes the do command.
ruckus(config-mvno-admin)# email Type: Privileged	<i>email</i>	Set the user's email details.
ruckus(config-mvno-admin)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-mvno-admin)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-mvno-admin)# help Type: Privileged		Displays the help.

**TABLE 96** Commands related to ruckus(config-mvno-admin) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno-admin)# name Type: Privileged	<i>name</i>	Sets the account name.
ruckus(config-mvno-admin)# password Type: Privileged	<i>password</i>	Sets the password for user
ruckus(config-mvno-admin)# phone Type: Privileged	<i>phone</i>	Sets the phone number of the user
ruckus(config-mvno-admin)# real-name Type: Privileged	<i>name</i>	Sets the real name of the user
ruckus(config-mvno-admin)# title Type: Privileged	<i>text</i>	Sets the user's job title.

The following table lists the related **mvno-admin-radius** configuration commands.

**TABLE 97** Commands related to ruckus(config-mvno-admin-radius)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno-admin-radius)# backup Type: Privileged	<b>ip</b> <i>ip</i> <b>port</b> <i>port</i> <b>shared-secret</b> <i>password</i> <b>request-timeout</b> <i>seconds</i> <b>max-retry</b> <i>number</i> <b>retry-pri</b> <i>nlvl</i> <i>minutes</i>	Enables backup RADIUS support and its related settings.
ruckus(config-mvno-admin-radius)# do Type: Privileged		Executes the do command.
ruckus(config-mvno-admin-radius)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-mvno-admin-radius)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-mvno-admin-radius)# help Type: Privileged		Displays the help.
ruckus(config-mvno-admin-radius)# ip Type: Privileged	<i>ip</i>	Sets the IP addresses of primary RADIUS server
ruckus(config-mvno-admin-radius)# name Type: Privileged	<i>name</i>	Sets the RADIUS server name.
ruckus(config-mvno-admin-radius)# no Type: Privileged	<b>backup</b>	Disables or deletes the configuration settings.
ruckus(config-mvno-admin-radius)# port Type: Privileged	<i>port</i>	Sets the port number of primary RADIUS server
ruckus(config-mvno-admin-radius)# realm Type: Privileged	<i>realms</i>	Sets the realm service. Multiple realms are supported by using a comma (,) separation. For example, home1,home2

## Configuration Commands (e - r)

mvno

**TABLE 97** Commands related to ruckus(config-mvno-admin-radius) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-mvno-admin-radius)# service Type: Privileged	<i>services</i>	Sets the service. Multiple services are supported by using a comma (,) separation. For example, home1,home2.
ruckus(config-mvno-admin-radius)# shared-secret Type: Privileged	<i>password</i>	Sets the shared secret of the primary RADIUS server. The length is between 1 and 255 characters.
ruckus(config-mvno-admin-radius)# type Type: Privileged	[ <b>radius</b>   <b>tacacs</b> ]	Sets the authentication type as either RADIUS or TACAS.



## no acct-profile

To delete accounting service profile configuration, use the following command.

```
ruckus(config)# no acct-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Accounting service profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no acct-profile acct1
```

Configuration Commands (e - r)  
no ad-service

## no ad-service

To delete the all active service directories, use the following command.

```
ruckus(config)# no ad-service name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the active service directory to be deleted

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no ad-service active-orange
```

## 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

```
ruckus(config)# no admin ruckus
```

Configuration Commands (e - r)  
no admin-radius

## 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

```
ruckus(config)# no admin-radius adrl
```

## no adv-forwarding-profile

To delete advanced (mixed mode) profile configuration, use the following command.

```
ruckus(config)# no adv-forwarding-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Advanced (mixed mode) name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no adv-forwarding-profile
```

## 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

```
ruckus(config)# no ap 50:A7:33:24:EA:00
```

## 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

```
ruckus(config)# no ap auto-tagging enable
```

Configuration Commands (e - r)  
no ap-cert-check

## 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

```
ruckus(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

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

Configuration Commands (e - r)  
no ap-zone-aggregate

## no ap-zone-aggregate

To disable the AP Zone aggregation task, use the following command.

```
ruckus(config)# no ap-zone-aggregate
```

### Syntax Description

This command has no arguments or key words.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no ap-zone-aggregate
```

## no auth-profile

To delete an authentication service configuration, use the following command.

```
ruckus(config)# no auth-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the authentication service to be deleted.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no auth-profile ap1
```

## no bridge-profile

To delete the bridge profile configuration, use the following command.

```
ruckus(config)# no bridge-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the bridge profile to be deleted.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no bridge-profile br1
```

## no calea-mac

To delete all Calea MAC server configuration, use the following command.

```
ruckus(config)# no calea-mac mac
```

### Syntax Description

This command uses the following syntax:

*mac*

MAC address

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no calea-mac
```

Deletes all Calea MAC server configuration.

Configuration Commands (e - r)  
no calea-server-ip

## no calea-server-ip

To delete all Calea MAC server IP address configuration, use the following command.

```
ruckus(config)# no calea-server-ip
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no calea-server-ip  
Do you want to continue to delete (or input 'no' to cancel)?  
[yes/no]
```

## no cert-store

To delete all OSU (Online SignUp) portal profile configuration, use the following command.

```
ruckus(config)# no cert-store cert name
```

```
ruckus(config)# no csr csr name
```

## Syntax Description

This command uses the following syntax:

**cert *name***

Deletes certificate.

**csr *name***

Deletes Certificates Signing Request (CSR).

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
S200(config)# no cert-store cert certpool  
Do you want to continue to disable (or input 'no' to cancel)? [yes/no]
```

## Configuration Commands (e - r)

no cls-sess msisdn

# no cls-sess msisdn

To delete the session served by current node for the received MSISDN, use the following command:

```
ruckus(config)# no cls-sess msisdn ms-isdn
```

## Syntax Description

*ms-isdn*

MSISDN and MSISDN value. The length of MSISDN should be between 10 to 15 digits.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus(config)# no cls-sess msisdn 123456789012345
```



## 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

```
ruckus(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

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

## no domain

To delete management domains or access point zones in a specific domain configuration, use the following command.

```
ruckus(config)# no domain
```

## Syntax Description

This command uses the following syntax:

*name* **zone** *name*

*name*

Domain name

**zone**

Deletes AP zones of a specific domain

*name*

AP zone name

*name* **zone** *name* **ap** *ap-mac*

*name*

Domain name

**zone**

Deletes AP zones of a specific domain

*name*

AP zone name

**ap**

Deletes an AP of a specific AP zone

*ap-mac*

AP MAC address

*name* **zone** *name* **wlan** *name*

*name*

Domain name

**zone**

Deletes AP zones of a specific domain

*name*

AP zone name

**wlan**

Deletes WLANs of a specific AP zone

*name*

WLAN name

*name* **zone** *name* **aaa** *name*

*name*

Domain name

## Configuration Commands (e - r)

no domain

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**aaa**  
Deletes AAA servers of a specific AP zone

*name*  
AAA server name

*name zone name hotspot name*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**hotspot**  
Deletes WISPr (Hotspot) of a specific AP zone

*name*  
WISPr (Hotspot) name

*name zone name hotspot-v2-sp name*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**hotspot-v2-sp**  
Deletes Hotspot 2.0 service provider profiles of a specific AP zone

*name*  
Service provider profile name

*name zone name hotspot-v2-op name*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**hotspot-v2-op**  
Shows Hotspot 2.0 operator profiles of a specific AP zone

*name*  
Operator profile name

*name zone name ap-group name*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**ap-group**  
Deletes AP groups of a specific AP zone

*name*  
AP group name

*name zone name wlan-group name*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**wlan-group**  
Delete WLAN groups of a specific AP zone

*name*  
WLAN group name

*name zone name ap-register-rule priority*

*name*  
Domain name

**zone**  
Deletes AP zones of a specific domain

*name*  
AP zone name

**ap-register-rule**  
Deletes AP registration rules of a specific AP zone

*priority*  
AP registration rule

*name zone name cluster-switch-over*

*name*  
Domain name

**zone**  
Disables the cluster switchover of a specific AP zone

## Configuration Commands (e - r)

no domain

*name*

AP zone name

cluster-switch-over

Disables the cluster switchover

*name*

Domain name

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no domain indus5-d
```

## no dns-server-service

To disable the DNS server service, use the following command.

```
ruckus(config)# no dns-server-service name
```

### Syntax Description

This command uses the following syntax:

*name*

DNS server service name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no dns-server-service SN1
```

Configuration Commands (e - r)  
no dp-group

## no dp-group

To disable the dataplane grouping configuration, 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

```
ruckus(config)# no dp-group
```



## no eap-aka

To disable the EAP\_AKA configuration, use the following command.

```
ruckus(config)# no eap-aka enable
```

### Syntax Description

This command uses the following syntax:

**enable**

Disables the EAP-AKA

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus (config)# no eap-aka enable
```

Configuration Commands (e - r)  
no eap-sim

## no eap-sim

To disable the EAP\_SIM configuration, use the following command.

```
ruckus(config)# no eap-sim enable
```

## Syntax Description

This command uses the following syntax:

**enable**

Disables the EAP-SIM

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no eap-sim enable
```

## 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

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

## Configuration Commands (e - r)

no encrypt-zone-name

# no encrypt-zone-name

To disable the AP Zone name encryption for WISPr enriched URL, use the following command.

```
ruckus(config)# no encrypt-zone-name
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no encrypt-zone-name  
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 event.

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no event email 305, 214, 113
```

## no firmware-download-limit

Disables firmware download limitations.

The concurrent connections will change to 65535 and the bandwidth to 0k(the zero value disables rate limiting).

It means no limitation.

**ruckus(config)# no firmware-download-limit | yes/no**

### Parameters

#### yes

Enter **yes** to remove the firmware download limitations.

#### no

Enter **no** to cancel the operation.

### Default

This command has no default settings.

### Command Mode

config

### Usage Guidelines

Use **no** form of this command to remove the firmware download limitations. The concurrent connections change to 65535 and the bandwidth to 0k (the zero value disables rate limiting), which means no limitation. However, users must be careful to update these parameters because this impacts controller (SmartZone) network resources.

#### NOTE

This command may impact other controller (SmartZone) services.

### Example

```
NODE202(config)# no firmware-download-limit
Do you want to continue to disable (or input 'no' to cancel)? [yes/no] yes
Successful operation
% This configuration will take effect in a few minutes.
```

## 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

```
ruckus(config)# no ftp-server ftp1
```

## no hotspot-profile

To delete hotspot service profile configuration, use the following command.

```
ruckus(config)# no hotspot-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Hotspot service profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no hotspot-profile hp12
```



## no identity-provider

To delete all identity provider profile, use the following command.

```
ruckus(config)# no identity-provider identity-provider-$name
```

### Syntax Description

This command uses the following syntax:

```
identity-provider-$name
```

Name of identity provider

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no identity-provider ip2wl  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

## 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

```
ruckus(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 *ip-dest-network network-mask next-hop-ip* [ **cluster** | **management** | **control** ] *name-server secondary***

## Syntax Description

This command uses the following syntax:

### **route**

Deletes static routes

**route** *ip-dest-network network-mask next-hop-ip interface*

**route**

Deletes static routes

*ip-dest-network*

Destination network IP address

*network-mask*

Destination network mask

*next-hop-ip*

Next hop IP address

*interface*

Interface

**route-ipv6** *ipv6-dest-network next-hop-ipv6 interface*

**route-ipv6**

Delete IPv6 static routes

*ipv6-dest-network*

Destination network IPv6 address

*next-hop-ipv6*

Next hop IPv6 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

**Configuration Commands (e - r)**  
no ip

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no ip route ip 193.12.30.10 255.255.255 10.9.0.254 management
```

## no ipsec-profile

To delete all IPsec profiles, use the following command.

```
ruckus(config)# no ipsec-profile
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no ipsec-profile
```

Configuration Commands (e - r)  
no l2ogre-profile

## no l2ogre-profile

To delete the L2oGRE configuration, use the following command.

```
ruckus(config)# no l2ogre name
```

### Syntax Description

This command uses the following syntax:

*name*

L2oGRE profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no l2ogre l2g13
```

## no lbs-service

To delete the location based service (LBS) venue name, use the following command.

```
ruckus(config)# no lbs-service name
```

### Syntax Description

This command uses the following syntax:

*name*

LBS venue name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no lbs-service lbs-service  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

Configuration Commands (e - r)  
no ldap-service

## no ldap-service

To delete all LDAP service, use the following command.

```
ruckus(config)# no ldap-service name
```

### Syntax Description

This command uses the following syntax:

*name*

LDAP server name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no ldap-service ldapser  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```



## no lineman

To delete the workflow URL, use the following command.

```
ruckus(config)# no lineman workflowURL
```

### Syntax Description

This command uses the following syntax:

```
workflowURL  
Deletes the workflow URL
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no lineman https://172.19.10.4:8443
```

## 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 log on 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

```
ruckus(config)# no logging console cli
```

## no mvno

To delete MVNO configurations, use the following command.

```
ruckus(config)# no mvno name
```

### Syntax Description

This command uses the following syntax:

*name*

MVNO name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no mvno mv1
```

Configuration Commands (e - r)  
no network-traffic-profile

## no network-traffic-profile

To delete the network traffic configuration, use the following command.

```
ruckus(config)# no network-traffic-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the network service to be deleted

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no network-traffic-profile ntpl
```

## no non-tpm-switch-cert-validate

To disable validation of non TPM (Trusted Platform Module) switch certificate, use the following command.

```
ruckus(config)# no non-tpm-switch-cert-validate
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no non-tpm-switch-cert-validate <cr>  
Successful operation
```

Configuration Commands (e - r)  
no operator-profile

## no operator-profile

To disable all WiFi operator profile settings, use the following command.

```
ruckus(config)# no operator-profile operator-profile-$name
```

### Syntax Description

This command uses the following syntax:

```
operator-profile-$name  
Operator name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no operator-profile ops2  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

## no osu-portal-profile

To disable all OSU portal profile settings, use the following command.

```
ruckus(config)# no osu-portal osu-portal-profile- $\$$ name
```

### Syntax Description

This command uses the following syntax:

```
osu-portal-profile- $\$$ name  
OSU profile name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no osu-portal-profile ops3  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

Configuration Commands (e - r)  
no outbound-firewall

## no outbound-firewall

To disable the outbound firewall, use the following command.

```
ruckus(config)# no outbound-firewall
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no outbound-firewall
```



## 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]
```

Configuration Commands (e - r)  
no radius-service

## no radius-service

To delete a RADIUS service configuration, use the following command.

```
ruckus(config)# no radius-service name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the RADIUS service to be deleted.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no radius-service rad87
```

## 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

```
ruckus(config)# no report scg-dns-report
```

Configuration Commands (e - r)  
no rks-gre

## no rks-gre

To delete reports, use the following command.

```
ruckus(config)# no rks-gre name
```

### Syntax Description

This command uses the following syntax:

*name*

Ruckus GRE tunnel profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no rks-gre GRE1
```

## no role

To delete the 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

```
ruckus(config)# no role rm34
```

Configuration Commands (e - r)  
no snmp-v2-community

## 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

```
ruckus(config)# no snmp-v2-community cm2
```

## 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

```
ruckus(config)# no snmp-v3-user ud11
```

## no sci-profile

To delete the SCI profile, use the following command.

```
ruckus(config)# no sci-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the SCI profile to be deleted

**enter**

Deletes all the SCI profile

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no sci-profile profile35
```



## no snmp-notification

To disable SNMP notification, use the following command.

```
ruckus(config)# no snmp-notification
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no snmp-notification  
Do you want to continue to disable (or input 'no' to cancel)? [yes/no]
```

Configuration Commands (e - r)  
no soft-gre

## no soft-gre

To delete the oft GRE tunnel profile, use the following command.

```
ruckus(config)# no soft-gre name
```

### Syntax Description

This command uses the following syntax:

*name*

Soft GRE tunnel profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no soft-gre GRE1
```

## no subpackages

To delete subscription packages, use the following command.

```
ruckus(config)# no subpackages name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the subscription package

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no subpackages sub1  
Do you want to continue to delete (or input 'no' to cancel)? [yes/no]
```

Configuration Commands (e - r)  
no ttg-pdg-profile

## no ttg-pdg-profile

To delete TTG+PDG profile configurations, use the following command.

```
ruckus(config)# no ttg-pdg-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

TTG PDG profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no ttg-pdg-profile ruckus-ttg
```

## 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

```
ruckus(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

```
ruckus(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

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

Configuration Commands (e - r)  
no vlan-pooling

## no vlan-pooling

To delete VLAN pooling profile, use the following command.

```
ruckus(config)# no vlan-pooling
```

### 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

```
ruckus(config)# no vlan-pooling  
Do you want to continue to delete (or input 'no' to cancel)? [
```



## no zone

To delete all AP zones, except staging zone use the following command.

**ruckus(config)# no zone**

## Syntax Description

This command uses the following syntax:

*name* **ap** *ap-mac*

*name*

AP zone name

**ap**

Deletes an AP of a specific AP zone

*ap-mac*

AP MAC address

*name* **wlan** *name*

*name*

AP zone name

**wlan**

Deletes WLANs of a specific AP zone

*name*

WLAN name

*name* **aaa** *name*

*name*

AP zone name

**aaa**

Delete AAA servers of a specific AP zone

*name*

AAA server name

*name* **hotspot** *name*

*name*

AP zone name

**hotspot**

Delete WISPr (Hotspot) of a specific AP zone

*name*

WISPr (Hotspot) name

*name* **guest-access** *name*

*name*

AP zone name

## Configuration Commands (e - r)

no zone

### **guest-access**

Deletes guest access of a specific AP zone

*name*

Guest access name

*name* **web-authentication** *name*

*name*

AP zone name

### **web-authentication**

Deletes Web authentication of a specific AP zone

*name*

Web authentication name

*name* **ap-group** *name*

*name*

AP zone name

### **ap-group**

Delete AP Groups of a specific AP Zone

*name*

AP Group name

*name* **wlan-group** *name*

*name*

AP zone name

### **wlan-group**

Delete WLAN Groups of a specific AP Zone

*name*

WLAN Group name

*name* **wlan-scheduler** *name*

*name*

AP zone name

### **wlan-scheduler**

Deletes WLAN scheduler profiles of a specific AP zone

*name*

WLAN scheduler name

*name* **ap-register-rule** *priority*

*name*

AP zone name

### **ap-register-rule**

Delete AP Registration Rules of a specific AP Zone

*priority*

AP Registration Rule

*name* **cluster-switch-over**

*name*

AP zone name

**cluster-switch-over**

Disables the cluster switchover

*name*

AP zone name

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# no zone induszd3
```

Configuration Commands (e - r)  
no zone-affinity

## no zone-affinity

To delete vSZ-D zone affinity profiles, use the following command.

```
ruckus(config)# no zone-affinity name
```

### Syntax Description

This command uses the following syntax:

*name*

Profile name of the vSZ-D zone affinity

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no zone-affinity
```

## no zone-template

To delete zone template, use the following command.

```
ruckus(config)# no zone-template name
```

### Syntax Description

This command uses the following syntax:

*name*

Zone template name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# no zone-template orangezone
```

## node-affinity-config

To update the node affinity configuration, use the following command.

```
ruckus(config)# node-affinity-config
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has the default settings of enable.

### Command Mode

Config

### Example

```
ruckus(config)# node-affinity-config  
ruckus(config-node-affinity-config)
```

### Related Commands

- [Table 98](#) lists the related **node-affinity-configuration** commands.
- [Table 99](#) lists the related **node-affinity-configuration-profile** commands.

The following table lists the related **node-affinity-configuration** commands.

**TABLE 98** Commands related to ruckus(config-node-affinity-config)

Syntax and Type	Parameters (if any)	Description
ruckus(config-node-affinity-config)# do Type: Privileged		Executes the do command.
ruckus(config-node-affinity-config)# enable Type: Privileged		Enables the node affinity.
ruckus(config-node-affinity-config)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-node-affinity-config)# exit Type: Privileged		Exits from the EXEC.
ruckus (config-node-affinity-config)# help Type: Privileged		Displays the help.
ruckus(config-node-affinity-config)# no Type: Privileged	<i>enable</i> <i>profile</i>	Disables node affinity
ruckus(config-node-affinity-config)# profile Type: Privileged	<i>name</i>	Creates or updates the node affinity profile.

**TABLE 98** Commands related to ruckus(config-node-affinity-config) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-node-affinity-config)# retry Type: Privileged	<i>value</i>	Sets the number of retries between 1 to 10.

The following table lists the related **node-affinity-configuration-profile** commands.

**TABLE 99** Commands related to ruckus(config-node-affinity-config-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-node-affinity-config-profile)# blade-list Type: Privileged	<i>name priority down   up</i>	Sets the node priority
ruckus(config-node-affinity-config-profile)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-node-affinity-config-profile)# do Type: Privileged		Executes the do command.
ruckus(config-node-affinity-config-profile)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-node-affinity-config-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus (config-node-affinity-config-profile)# help Type: Privileged		Displays the help.
ruckus(config-node-affinity-config-profile)# name Type: Privileged	<i>name</i>	Sets the node affinity profile name.

## non-tpm-switch-cert-validate

To enable validation of non TPM (Trusted Platform Module) switch certificate, use the following command.

```
ruckus(config)# non-tpm-switch-cert-validate
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# non-tpm-switch-cert-validate <cr>  
Successful operation
```



## northbound-authtype

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

```
ruckus(config)# northbound-authtype
```

### Syntax Description

This command uses the following syntax:

*PAP/CHAP*

RADIUS authentication type

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# northbound-authtype PAP  
ruckus(config)# northbound-authtype CHAP
```

## northbound-portal

Sets the northbound portal configuration, 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

```
ruckus(config)# northbound-portal ruckus1!
```

## ntp-server

Sets 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

```
ruckus(config)# ntp-server host 172.19.13.53
```

## operator-profile

To create or update WiFi operator profile configuration, use the following command.

```
ruckus(config)# operator-profile name
```

### Syntax Description

This command uses the following syntax:

```
name  
Operator profile name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# operator-profile orangewifi  
ruckus(config-operator-profile)#
```

### Related Commands

The following table lists the related **config-operator-profile** configuration commands.

**TABLE 100** Commands related ruckus(config-operator-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-operator-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-operator-profile)# do Type: Privileged		Executes the do command.
ruckus(config-operator-profile)# domain-names Type: Privileged	<i>domain-name</i>	Sets the domain name.
ruckus(config-operator-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-operator-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-operator-profile)# friendly-names Type: Privileged	<i>language names</i>	Sets the friendly name as seen by the end user.
ruckus(config-operator-profile)# help Type: Privileged		Displays the help.

**TABLE 100** Commands related ruckus(config-operator-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-operator-profile)# name Type: Privileged	<i>name</i>	Sets the WiFi operator profile name.
ruckus(config-operator-profile)# no Type: Privileged	<b>domain-names</b> <b>friendly-names</b> <b>signup-security</b>	Disables commands.
ruckus(config-operator-profile)# osen-cert Type: Privileged	<i>\${cert}</i>	Uploads the operator certificate.
ruckus(config-operator-profile)# signup-security Type: Privileged		Enables OSEN (Support for Anonymous Authentication)

## osu-portal-profile

To create or update OSU (Online SignUp) portal profile configuration, use the following command.

```
ruckus(config)# osu-portal-profile name
```

### Syntax Description

This command uses the following syntax:

```
name  
OSU portal profile name
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# osu-portal-profile orangeosu  
ruckus(config-osu-portal-profile)#
```

### Related Commands

The following table lists the related **config-osu-portal-profile** configuration commands.

**TABLE 101** Commands related ruckus(config-osu-portal-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-osu-portal-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-osu-portal-profile)# do Type: Privileged		Executes the do command.
ruckus(config-osu-portal-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-osu-portal-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-osu-portal-profile)# help Type: Privileged		Displays the help.
ruckus(config-osu-portal-profile)# language Type: Privileged		Sets the portal language.
ruckus(config-osu-portal-profile)# logo Type: Privileged	<i>ftp-url</i>	Sets the operator logo.

**TABLE 101** Commands related ruckus(config-osu-portal-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-osu-portal-profile)# name Type: Privileged	<i>name</i>	Sets the portal name.
ruckus(config-osu-portal-profile)# no Type: Privileged	<b>show-terms-condition</b>	Disables the command.
ruckus(config-osu-portal-profile)# show-terms-conditions Type: Privileged		Shows the terms and conditions.
ruckus(config-osu-portal-profile)# terms-conditions Type: Privileged	<i>terms</i>	Sets the terms and conditions.
ruckus(config-osu-portal-profile)# title Type: Privileged	<i>title</i>	Sets the portal title.

## outbound-firewall

To create or update the outbound firewall configuration, use the following command.

```
ruckus(config)# outbound-firewall
```

### Syntax Description

This command has no keywords or arguments.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# outbound-firewall
```

### Related Commands

The following table lists the related **outbound-firewall** configuration commands.

**TABLE 102** Commands related to ruckus (config-outbound-firewall).

Syntax and Type	Parameters (if any)	Description
ruckus(config-outbound-firewall)# enable Type: Privileged		Allow the outbound traffic.



**TABLE 102** Commands related to ruckus (config-outbound-firewall). (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-outbound-firewall)# ip-rule Type: Privileged	<pre> <i>profileName</i> out [ <b>udp</b>   <b>sctp</b>   <b>tcp</b> ] [ <b>dport</b>   <b>sport</b> ] <i>port</i>  <i>profileName</i>: profile name  <b>out</b>: Output traffic  <b>udp</b>: UDP  <b>sctp</b>: SCTP  <b>tcp</b>: TCP  <b>dport</b>: Destination port  <b>sport</b>: Source port  <i>port</i>: port  <i>profileName</i> out [ <b>udp</b>   <b>sctp</b>   <b>tcp</b> ] [ <b>dport</b>   <b>sport</b> ] <i>port</i> [ <b>src</b>   <b>dst</b> ] <i>ipaddress</i>  <i>profileName</i>: profile name <b>out</b>: Output traffic  <b>udp</b>: UDP  <b>sctp</b>: SCTP  <b>tcp</b>: TCP  <b>sport</b>: Source port  <b>dport</b>: Destination port  <i>port</i>: port  <b>src</b>: Source  <b>dst</b>: Destination  <i>ipaddress</i>: IP address           </pre>	Allow IPtables profile.
ruckus(config-outbound-firewall)# no Type: Privileged	<pre> <i>ip-rule profileName</i>           </pre>	Remove IP rule

## proxy-aaa

Creates or updates the proxy AAA server configuration settings.

### Syntax

**proxy-aaa** *name*

### Parameters

*name*

Proxy AAA server name.

### Modes

Global configuration mode

The following example shows how to create a proxy AAA server configuration.

### Examples

```
device# config
device(config)# proxy-aaa proxy-server1
```

## radius-service

Configures the RADIUS service options.

### Syntax

**radius-service** *name*

**no radius-service** *name*

After the **radius-service** command is entered to enter RADIUS server configuration mode, the following configuration syntax is available:

{ **auto-fallback-disable** | **backup** **friendly-name** *language name* | **group-attrs** *attr-value user-role* | **ip** *ip-address* | **mor** *number* | **no-response-fail** | **out-of-band** | **port** *port-number* | **response-window** *window* | **revive-interval** *interval* | **sanity-timer** *seconds* | **shared-secret** *password* | **threshold** *number* | **type** [ **radiusv** | **radius-acct** ] | **zombie-period** *seconds* }

### Command Default

A RADIUS server is not configured.

### Parameters

*name*

RADIUS server name.

**auto-fallback-disable**

Disables auto fallback.

**backup**

Enables backup RADIUS support and related settings.

**friendly-name** *friendly-name*

Sets a user-friendly name for the RADIUS server.

**group-attrs** *attr-value user-role*

Sets attribute and user role values for the User Traffic Profile Mapping.

**ip** *ip-address*

Sets the IP address of the primary RADIUS server.

**mor** *number*

Sets the Maximum Outstanding Requests (MOR) per server. Number must be 0 or in the range of 10 to 4096.

**no-response-fail**

Enables the no response fail.

**out-of-band**

Enables the RFC 5580 Out of Band location delivery feature.

**port** *port-number*

Sets the port number for the primary RADIUS server

**response-window** *window*

Sets the response window, in seconds. Range from 5 to 30.

## Configuration Commands (e - r)

### radius-service

**revive-interval** *interval*

Sets the revive interval, in seconds. Range from 60 to 3600.

**sanity-timer** *seconds*

Sets the sanity timer, in seconds.

**shared-secret** *password*

Sets the shared secret password for the primary RADIUS server.

**threshold** *percentage*

Sets the threshold percentage. Range from 10 to 90 percent.

**type radius** *radius-acct*

Sets the RADIUS type.

**zombie-period** *seconds*

Sets the Zombie period in seconds. Range from 30 to 120.

## Modes

Global configuration mode

## Usage Guidelines

Use the **no** form of this command without a RADIUS server name to disable the configuration for all configured RADIUS servers.

Although you can configure the options individually and some are optional, you must configure the following options to create a basic RADIUS server configuration.

- **ip** *ip-address*
- **port** *port-number*
- **shared-secret** *password*

Before you can configure the **auto-fallback-disable** command and the backup options, you must enter the **backup** command without any options.

## Examples

The following example shows how to create a proxy AAA server configuration.

```
device# config
device(config)# radius-service rad01
device(config-radius-service)# backup
device(config-radius-service)# backup ip 10.10.2.3
device(config-radius-service)# backup port 4
device(config-radius-service)# backup shared-secret
Password: ***
Retype: ***
```

The following example disables settings for all RADIUS server.

```
device# config
device(config)# no radius-service
Do you want to continue to delete (or input 'no' to cancel)? [yes/no] yes
```

# History

Release version	Command history
3.5.1	This command was updated.

## rebalance-aps

To re-balance the control or dataplane loading, use the following command.

```
ruckus(config)# rebalance aps
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# rebalance-aps
```

## report

Sets 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

```
ruckus(config)# report rep01
```

## Related Commands

Table 103 lists the related **report** configuration command.

**TABLE 103** 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	<i>text</i>	Sets the description.
ruckus(config-report)# do Type: Privileged		Executes the do command.
ruckus(config-report)# email Type: Privileged	<i>email</i>	Sets the email notification.
ruckus(config-report)# enable-export Type: Privileged	<i>ftp-url</i> : FTP URL format is: <b>ftp://username:password@ftp-host[/dir-path]</b>	Sets the export report results to FTP server.
ruckus(config-report)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-report)# exit Type: Privileged		Exits from the EXEC.

**TABLE 103** Commands related to ruckus(config-report) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-report)# export Type: Privileged	<i>ftp-url</i> : FTP URL format is: <b>ftp://username:password@ftp-host[/dir-path]</b>	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	<b>csv-format</b> <b>email</b> <b>enable-export</b> <b>pdf-format</b> <b>resource-filter</b> <b>schedule</b>	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	<b>ggsn</b> <i>ggsn-ip</i> <b>ssid</b> <i>ssid</i> <b>radio</b> <i>\$(value)</i> <b>device plane</b> <i>name</i> <b>device domain</b> <i>name</i> <b>device zone</b> <i>name</i> <b>device ap</b> <i>name</i>	Sets the resource filter criteria.
ruckus(config-report)# schedule Type: Privileged	<b>monthly</b> <i>date-of-month hour hour minute minute</i> <b>weekly</b> <i>day-of-week hour hour minute minute</i> <b>daily</b> <i>hour minute minute</i> <b>hourly</b> <i>minute</i>	Sets the schedule.
ruckus(config-report)# time-filter Type: Privileged	<b>monthly</b> <i>months months</i> <b>daily</b> <i>days days</i> <b>hourly</b> <i>days days</i> <i>hourly hours hourly hours hours</i> <b>15min</b> <i>hours hours</i> <b>5mintime-period</b> <i>hours time-period hours hours</i>	Sets the time filter.
ruckus(config-report)# title Type: Privileged	<i>title</i>	Sets the report title.



**TABLE 103** Commands related to ruckus(config-report) (continued)

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

## rks-gre

To create or update the Ruckus GRE configuration, use the following command.

```
ruckus(config)# rks-gre name
```

### Syntax Description

This command uses the following syntax:

*name*

Ruckus GRE name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# rks-gre GRE1
```

### Related Commands

Table 104 lists the related **rks-gre** configuration command.

**TABLE 104** Commands related to ruckus(config-rke-gre)

Syntax and Type	Parameters (if any)	Description
ruckus(config-rks-gre)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-rks-gre)# do Type: Privileged		Executes the do command.
ruckus(config-rks-gre)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-rks-gre)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-rks-gre)# help Type: Privileged		Displays the help.
ruckus(config-rks-gre)# gateway-mtu Type: Privileged	<b>auto</b> : Enables auto discover <i>manually-size</i> Manual size between 850 and 1500	Sets the WAN interface MTU.

**TABLE 104** Commands related to ruckus(config-rke-gre) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-rks-gre)# no Type: Privileged	<b>description</b> <b>gateway-mtu</b> <b>tunnel-encryption</b>	Disables and deletes commands.
ruckus(config-rks-gre)# tunnel-encryption Type: Privileged		Enables the tunnel encryption.
ruckus(config-rks-gre)# tunnel-mode Type: Privileged	[ <b>gre-udp</b>   <b>gre</b> ] <b>gre-udp</b> : GRE+UDP (Support for APs behind NAT.) <b>gre</b> : GRE	Sets the tunnel mode.

## role

To set the role, 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

```
ruckus(config)# role admin01
```

### Related Commands

Table 105 lists the related **role** configuration commands.

**TABLE 105** Commands related to ruckus(config-role).

Syntax and Type	Parameters (if any)	Description
ruckus(config-role)# capabilities Type: Privileged	<i>capabilities-depth-1</i> <i>capabilities-depth-2</i> <i>capabilities-depth-3</i> <i>capabilities-depth-4</i> <i>capabilities-depth-5</i> <i>capabilities-depth-6</i>	Sets the capabilities details.
ruckus(config-role)# description Type: Privileged	<i>text</i>	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.

**TABLE 105** Commands related to ruckus(config-role). (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-role)# help Type: Privileged		Displays the help.
ruckus(config-role)# name Type: Privileged	<i>name</i>	Sets the role name.
ruckus(config-role)# no Type: Privileged	<b>capabilities</b> <i>capabilities-depth-1</i> <i>capabilities-depth-2</i> <i>capabilities-depth-3</i> <i>capabilities-depth-4</i> <i>capabilities-depth-5</i> <i>capabilities-depth-6</i>	Disables the capabilities assigned.



# Configuration Commands (s - z)

---

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## sci-profile

To enable SCI profile settings, use the following command.

```
ruckus(config)# sci-profile
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus(config)# sci-profile
ruckus(config-sci-profile)#
```

## Related Commands

The following table lists the related configuration commands.

**TABLE 106** Commands related to ruckus(config-sci-profile)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-sci-profile)# host Type: Privileged		Sets the SCI server host.
ruckus(config-sci-profile)# name Type: Privileged		Sets SCI profile name.
ruckus(config-sci-profile)# password Type: Privileged		Sets the password.
ruckus(config-sci-profile)# port Type: Privileged		Sets the SCI server port
ruckus(config-sci-profile)# system-id Type: Privileged		Sets the system ID.
ruckus(config-sci-profile)# user Type: Privileged		Sets the user.
ruckus(config-sci-profile)# enable Type: Privileged		Enables the SCI server.
ruckus(config-sci-profile)# no enable Type: Privileged		Disables the SCI server.
ruckus(config-sci-profile)# delete Type: Privileged		Deletes the SCI server.



## sci-setting

To enable SCI settings, use the following command:

```
ruckus(config)# sci-setting
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# sci-setting
ruckus(config-sci-setting)#
```

### Related Commands

Table 107 lists the related **sci-setting** configuration commands.

Commands related to ruckus(config-sci-setting)

**TABLE 107** config-sci-setting configuration commands

Syntax and Type	Parameters (if any)	Description
ruckus(config-sci-setting)# do Type: Privileged		Enables the do command
ruckus(config-sci-setting)# enable Type: Privileged		Enables the SCI server.
ruckus(config-sci-setting)# end Type: Privileged		Ends the current configuration session and return to the privileged EXEC mode.
ruckus(config-sci-setting)# exit Type: Privileged		Exit from the EXEC mode.
ruckus(config-sci-setting)# help Type: Privileged		Display the Help message.
ruckus(config-sci-setting)# host Type: Privileged		Sets the SCI server host.
ruckus(config-sci-setting)# no Type: Privileged	<b>enable</b> <b>tenant-id</b>	Disables SCI server commands

**TABLE 107** config-sci-setting configuration commands (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-sci-setting)# port Type: Privileged		Sets the SCI server port
ruckus(config-sci-setting)# tenant-id Type: Privileged		Sets the tenant ID

## set raa

Enable or Disable restricted access on the AP.

### Syntax

```
set raa [ enable | disable ]
```

### Parameters

#### enable

Set raa enable.

#### disable

Set raa disable.

### Modes

Configuration mode

### Examples

This example shows to enable or disable the restricted access rule.

```
kscli: set raa enable
```

```
Do you want to enable well known ports[Y/N]?: Y  
OK
```

## set raa blacklist

Add or Delete Ports/Port-list to/from the Blacklist.

### Syntax

```
set raa blacklist [ tcp | udp | both ] <port> [ add | delete ] <port-list>
```

```
set raa blacklist [ tcp | udp | both ] <range> [ add | delete ] <port-range>
```

### Command Default

This command has no default settings.

### Parameters

#### tcp

Black lists all the TCP ports listed in the port list or port range.

#### udp

Black lists all the UDP ports listed in the port list or port range.

#### both

Black lists both TCP and UDP ports listed in the port list or port range.

#### port-list

Port numbers to be black listed. Valid port is 1..65535.

#### port-range

Port range to be black listed. Valid port is 1..65535.

### Modes

Configuration mode

### Examples

Below example displays the ports added and deleted from the blacklist by port numbers and ranges.

```
ruckus(config)# set raa blacklist [tcp|udp|both] port [add|delete] <port-list>
ruckus(config)# blacklist both port add 4500,5000,6000
ruckus(config)# set raa blacklist [tcp|udp|both] port [add|delete] <port-list>
ruckus(config)# blacklist both port delete 4500,5000,6000

ruckus(config)# set raa blacklist [tcp|udp|both] range [add|delete] <port-range>
ruckus(config)# set raa blacklist udp range add 7500-8000
ruckus(config)# set raa blacklist [tcp|udp|both] range [add|delete] <port-range>
ruckus(config)# set raa blacklist udp range delete 7500-8000
```

## set raa whitelist

Add or Delete IPs/IP-subnets to/from the Whitelist.

### Syntax

```
set raa whitelist [ ipv4 | ipv6 ][add | delete ] <ip-list>
```

```
set raa whitelist [ ipv4-subnet | ipv6-prefix ][add | delete ] <ip/subnet | prefix>
```

### Command Default

This command has no default settings.

### Parameters

**ipv4**

White lists all the ipv4 IP/subnet/prefixes listed.

**ipv6**

White lists all the ipv6 IP/subnet/prefixes listed.

**add | delete**

Add or delete ipv4/ipv6 whitelisted IPs in the list.

### Modes

Configuration mode

### Examples

Below example displays the ports added and deleted from the whitelist by port numbers and ranges.

```
ruckus(config)# set raa whitelist [ipv4|ipv6] [add|delete] <ip-list>
ruckus(config)# whitelist ipv4 add 10.22.136.44,192.168.1.1
ruckus(config)# whitelist ipv6 add 2001:db:1:2:81a2:c0af:cc1b:6c89,fe80::81a2:c0af:cc1b:6c89

ruckus(config)# set raa whitelist [ipv4-subnet|ipv6-prefix] [add|delete] <ip/subnet|prefix>
ruckus(config)# whitelist ipv4-subnet add 10.22.136.1/24
ruckus(config)# whitelist ipv6-prefix add 2001:db:1:2/24
ruckus(config)# whitelist ipv6 delete 2001:db:1:2:81a2:c0af:cc1b:6c89
```

## 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

```
ruckus(config)# sms-server  
ruckus(config-sms-server)#
```

## Related Commands

[Table 108](#) lists the related **sms-server** configuration commands.

**TABLE 108** Commands related to ruckus(config-sms-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-sms-server)# account-sid Type: Privileged	<i>sid</i>	Sets the account SID, which is a 34 character string that uniquely identifies this account.
ruckus(config-sms-server)# auth-token Type: Privileged	<i>token</i>	Sets the authorization token identifier.
ruckus(config-sms-server)# enable Type: Privileged		Enables the SMS server.
ruckus(config-sms-server)# from Type: Privileged	<i>from</i>	Sets the sender's mail address.
ruckus(config-sms-server)# no enable Type: Privileged		Disables the SMS server.
ruckus(config-sms-server)# server-name Type: Privileged	<i>server-name</i>	Sets the server name.

## smtp-server

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

```
ruckus(config)# smtp-server personalname
```

### Syntax Description

This command has the following syntax:

```
personalname  
Personal name.
```

### Default

This command has no default settings.

### Command Mode

Config

### Example

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

### Related Commands

[Table 109](#) lists the related **smtp-server** configuration commands.

**TABLE 109** Commands related to (config-smtp-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-smtp-server)# do Type: Privileged		Executes the do command.
ruckus(config-smtp-server)# enable Type: Privileged		Enables the SMTP server.
ruckus(config-smtp-server)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(diagnostic)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-smtp-server)# from Type: Privileged	<i>mail</i>	Sets the sender's mail address.
ruckus(config-smtp-server)# help Type: Privileged		Displays the help.
ruckus(config-smtp-server)# host Type: Privileged	<i>host</i>	Sets the SMTP server IP address or domain name.

**TABLE 109** Commands related to (config-smtp-server) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-smtp-server)# no Type: Privileged	<b>enable:</b> Disables SMTP Server <b>password:</b> Removes password <b>personalname:</b> Deletes personal name <b>start-tls:</b> Disables STARTTLS encryption <b>tls:</b> Disables TLS encryption <b>username:</b> Removes the username	Disables TLS or STARTTLS encryption commands.
ruckus(config-smtp-server)# password Type: Privileged	<i>personalname:</i> From display name	Sets the password.
ruckus(config-smtp-server)# personalname Type: Privileged	<i>password</i>	Sets the personal name.
ruckus(config-smtp-server)# port Type: Privileged	<i>port</i>	Sets the port number.
ruckus(config-smtp-server)# start-tls Type: Privileged		Enables STARTTLS encryption.
ruckus(config-smtp-server)# test Type: Privileged		Tests the SMTP settings.
ruckus(config-smtp-server)# tls Type: Privileged		Enables TTLS encryption.
ruckus(config-smtp-server)# to Type: Privileged	<i>mail</i>	Sets the receiver's email address.
ruckus(config-smtp-server)# username Type: Privileged	<i>username</i>	Sets the logon name.



## snmp-notification

To enable SNMP notifications, use the following command.

```
ruckus(config)# snmp-notification
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# snmp-notification
```

## snmp-v2-community

To set 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

```
ruckus(config)# snmp-v2-community comm3  
ruckus(config-snmp-v2-community)#
```

### Related Commands

Table 110 lists the related **snmp-v2-community** configuration commands.

**TABLE 110** 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 return 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.
ruckus(config-snmp-v2-community)# no Type: Privileged	<b>read</b> : Disables read privilege <b>trap</b> : Disables trap privilege <b>trap-target ip port</b> : Deletes trap target IP address and port <b>write</b> : Disables write privilege	Disables various options

**TABLE 110** Commands related to ruckus(config-snmp-v2-community) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v2-community)# read Type: Privileged		Enables read privileges
ruckus(config-snmp-v2-community)# trap Type: Privileged		Enables trap privileges
ruckus(config-snmp-v2-community)# trap-target Type: Privileged	<i>ip port</i>	Enables trap target by setting the IP address and port.
ruckus(config-snmp-v2-community)# write Type: Privileged		Enables write privileges

## snmp-v3-user

To set 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

```
ruckus(config)# snmp-v3-user ud3  
ruckus(config-snmp-v3-user)#
```

### Related Commands

Table 111 lists the related **config-snmp-v3-user** configuration commands.

**TABLE 111** Commands related to ruckus(config-snmp-v3-user)

Syntax and Type	Parameters (if any)	Description
ruckus(config-snmp-v3-user)# auth Type: Privileged	<b>none</b>  <b>sha auth-password</b>  <b>md5 auth-password</b>	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 return 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 111** Commands related to ruckus(config-snmp-v3-user) (continued)

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

## soft-gre

To create/ update the soft GRE configuration, use the following command.

```
ruckus(config)# soft-gre name
```

### Syntax Description

This command uses the following syntax:

*name*

Soft GRE name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# soft-gre GRE1  
ruckus(config-soft-gre)#
```

### Related Commands

[Table 112](#) lists the related **config-soft-gre** configuration commands.

**TABLE 112** Commands related to ruckus(config-soft-gre)

Syntax and Type	Parameters (if any)	Description
ruckus(config-soft-gre)# description Type: Privileged	<i>text</i>	Set the description
ruckus(config-soft-gre)# device-ip-mode Type: Privileged	[ <b>ipv4</b>   <b>ipv6</b> ]	Sets the gateway IP mode to IPv4 or IPv6 version.
ruckus(config-soft-gre)# do Type: Privileged		Executes the do command.
ruckus(config-soft-gre)# end Type: Privileged		Ends the current session and return to privileged EXEC mode.
ruckus(config-soft-gre)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-soft-gre)# gateway Type: Privileged	<i>ip</i> [ <b>primary</b>   <b>secondary</b> ]	Sets the gateway address to the IP address of the primary or secondary server.
ruckus(config-soft-gre)# force-disassociate-client Type: Privileged		Force disassociates the client.

**TABLE 112** Commands related to ruckus(config-soft-gre) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-soft-gre)# gateway-mtu Type: Privileged	<b>auto:</b> <i>manually-size</i>	Sets the gateway path MTU to either auto or manual mode. The manual size, is in the range 850 and 1500.
ruckus(config-soft-gre)# gateway6 Type: Privileged	<i>ipv6</i> [ <b>primary</b>   <b>secondary</b> ]	Sets the gateway IPv6 address.
ruckus(config-soft-gre)# help Type: Privileged		Access the help message.
ruckus(config-soft-gre)# icmp-period Type: Privileged	<i>seconds</i>	Sets the ICMP keep alive period in seconds.
ruckus(config-soft-gre)# icmp-retry Type: Privileged	<i>retryTimes</i>	Sets the ICMP keep alive retry.
ruckus(config-soft-gre)# name Type: Privileged	<i>name</i>	Sets the SoftGRE name.
ruckus(config-soft-gre)# no Type: Privileged	<b>force-disassociate-client</b> <b>gateway</b> <b>gateway-mtu</b> <b>gateway6</b>	Disables various options

# ssh-rekey-limit

This command is used to trigger the time or data limit for a session.

## Syntax

**ssh-rekey-limit**

## Modes

Debug

## Examples

```
device# debug
device(debug)# ssh-rekey-limit 100k,1d
Reloading sshd configuration (via systemctl): [ OK ]
Successful Operation
```

## History

Release version	Command history
5.2.1	This command was introduced.



## stats-upload

Updates the FTP server for uploading statistical data. If you add an FTP server to the controller, the controller will export statistics files to that FTP server, either on demand or based on a schedule.

### Syntax

**stats-upload**

After the **enable** command is entered to update the FTP server, the following configuration syntax is available:

[ **ftp-server** *value* | **stats-interval** **hourly** | **test** ]

### Command Default

The command is disabled by default.

### Parameters

**ftp-server** *\${value}*

Specifies values for the FTP server.

**stats-interval**

Sets the interval at which the statistics are uploaded.

**hourly**

Sets the statistical data upload to occur hourly.

**test**

Tests the FTP server settings.

### Modes

Configuration mode

### Usage Guidelines

This command is supported on the SmartZone 300 and vSZ-H controllers only.

The **no enable** command in Stats Upload configuration mode disables the statistical data upload to the FTP server.

### Examples

The following example updates the ftp server for uploading statistical data with the statistical upload interval.

```
device# config
device(config)# stats-upload
device(config-stats-upload)# enable
device(config-stats-upload)# stats-interval weekly
```

## Configuration Commands (s - z)

stats-upload

The following example disables the statistical data uploads to the FTP server.

```
device# config
device(config)# stats-upload
device(config-stats-upload)# no enable
Do you want to continue to disable (or input 'no' to cancel)? [yes/no] yes
Successful operation
```

## subpackages

To create or update the subscription package configuration, use the following command.

```
ruckus(config)# subpackages name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the subscription package.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# subpackages sub1
ruckus(config-subpackages)#
```

### Related Commands

[Table 113](#) lists the related **subpackages** configuration commands.

**TABLE 113** Commands related to ruckus (config-subpackages)

Syntax and Type	Parameters (if any)	Description
ruckus(config-subpackages)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-subpackages)# do Type: Privileged		Executes the do command.
ruckus(config-subpackages))# end Type: Privileged		Ends the current session and return to privileged EXEC mode.
ruckus(config-subpackages))# exit Type: Privileged		Exits from the EXEC.

**TABLE 113** Commands related to ruckus (config-subpackages) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-subpackages)# expiration-interval Type: Privileged	[ <b>week</b>   <b>hour</b>   <b>year</b>   <b>never</b>   <b>month</b>   <b>day</b> ]	Sets the expiration interval to: week: Set Week hour: Set Hour year: Set Year never: Never month: Set Month day: Set Day
ruckus(config-subpackages)# expiration-value Type: Privileged	<i>expiration-value</i>	Sets the expiration value.
ruckus(config-subpackages))# help Type: Privileged		Access the help message.
ruckus(config-subpackages))# name Type: Privileged	<i>text</i>	Sets the subscription package name.

## support-admin

To support administrator configuration, use the following command.

```
ruckus(config)# support-admin
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# support-admin
ruckus(config-support-admin)#
```

### Related Commands

Table 114 lists the related **support-admin** configuration commands.

**TABLE 114** Commands related to ruckus(config-support-admin)

Syntax and Type	Parameters (if any)	Description
ruckus(config-support-admin)# changepassword Type: Privileged		Change the password.
ruckus(config-support-admin)# do Type: Privileged		Executes the do command.
ruckus(config-support-admin)# enable Type: Privileged		Unlocks the support administrator.
ruckus(config-support-admin)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-support-admin)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-support-admin)# help Type: Privileged		Displays the help.
ruckus(config-support-admin)# no Type: Privileged	<b>enable</b>	Disables the support administrator.

## 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

```
ruckus(config)# syslog-server
```

### Related Commands

Table 115 lists the relate **syslog-server** configuration commands.

**TABLE 115** Commands related to ruckus(config-syslog-server)

Syntax and Type	Parameters (if any)	Description
ruckus(config-syslog-server)# appfacility Type: Privileged	[ Local2   Local7   Local0   Local6   Local4   Local5   Local3   Local1 ]	Remote syslog server to send the application log files.
ruckus(config-syslog-server)# auditfaciility Type: Privileged	[ Local6   Local4   Local2   Local3   Local0   Local5   Local7   Local1 ]	Remote syslog server to send the audit log files.
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)# eventfacility Type: Privileged	[ Local7   Local6   Local3   Local4   Local0   Local2   Local1   Local5 ]	Remote syslog server to send the event log files.
ruckus(config-syslog-server)# exit Type: Privileged		Exits from the EXEC.

**TABLE 115** Commands related to ruckus(config-syslog-server) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-syslog-server)# filter Type: Privileged	[ <b>severity</b>   <b>exclude-client</b>   <b>all</b> ]  <b>severity</b> : All events above a severity  <b>exclude-client</b> : All events except client associate/disassociate events  <b>all</b> : All events	Sets the settings for filtering events.
ruckus(config-syslog-server)# filter-severity Type: Privileged	[ <b>Critical</b>   <b>Warning</b>   <b>Major</b>   <b>Info</b>   <b>Debug</b>   <b>Minor</b> ]	Sets the event severity filter settings.
ruckus(config-syslog-server)# help Type: Privileged		Displays the help.
ruckus(config-syslog-server)# host Type: Privileged	<i>ip</i>	Sets the syslog server IP address.
ruckus(config-syslog-server)# no Type: Privileged	<i>enable</i>  <b>secondary-host</b>	Disables the syslog server and secondary settings.
ruckus(config-syslog-server)# ping Type: Privileged		Pings the syslog server.
ruckus(config-syslog-server)# pingsecondary Type: Privileged		Pings the secondary syslog server.
ruckus(config-syslog-server)# port Type: Privileged	<i>port</i>	Sets the syslog server port.
ruckus(config-syslog-server)# priority Type: Privileged	[ <b>Minor</b>   <b>Critical</b>   <b>Debug</b>   <b>Info</b>   <b>Warning</b>   <b>Major</b> ] [ <b>Debug</b>   <b>Warning</b>   <b>Info</b>   <b>Error</b> ]	Sets the priority for events. The event severity and syslog-severity is based on priority.
ruckus(config-syslog-server)# protocol Type: Privileged	<b>tcp</b>   <b>udp</b>	Sets the primary Syslog server protocol.
ruckus(config-syslog-server)# secondary-protocol Type: Privileged	<b>tcp</b>   <b>udp</b>	Sets the secondary Syslog server protocol.
ruckus(config-syslog-server)# redundancy-mode Type: Privileged	[Primary/Backup   Active/Active]	Sets forwarding syslog server mode.
ruckus(config-syslog-server)# secondary-host Type: Privileged	<i>ip</i> : IP address	Sets the secondary syslog server IP.
ruckus(config-syslog-server)# secondary-port Type: Privileged	<i>port</i> : Port	Sets the secondary syslog server port.

## ttg-pdg-profile

To create and update the TTG+PDG profile configurations, use the following command.

```
ruckus(config)# ttg-pdg-profile name
```

### Syntax Description

This command uses the following syntax:

*name*

TTG PDG profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# ttg-pdg-profile ntp34
```

### Related Commands

- [Table 116](#) lists the related **ttg-pdg-profile** configuration commands.
- [Table 117](#) lists the related **ttg-pdg-profile-apn** configuration commands.
- [Table 118](#) lists the related **config-ttg-pdg-profile-dhcp-option82** configuration commands.

[Table 116](#) lists the related **ttg-pdg-profile** configuration commands

**TABLE 116** Commands related to (config-ttg-pdg-profile

Syntax and Type	Parameters (if any)	Description
ruckus(config-ttg-pdg-profile)# acct-retry Type: Privileged	<i>retry-times</i>	Sets the accounting retries.
ruckus(config-ttg-pdg-profile)# acct-retry-timeout Type: Privileged	<i>seconds</i>	Sets the accounting retry timeout.
ruckus(config-ttg-pdg-profile)# apn Type: Privileged	<b>nioi</b> <i>apn</i> <b>ni</b> <i>apn</i>	Creates or updates the forwarding policy for APN configuration commands.
ruckus(config-ttg-pdg-profile)# apn-format-ggsn Type: Privileged	[ <b>dns</b>   <b>string</b> ]	Sets the APN format to GGSN.
ruckus(config-ttg-pdg-profile)# apn-oi Type: Privileged		Enables APN-OI for DNS resolution.



**TABLE 116** Commands related to (config-ttg-pdg-profile (continued))

Syntax and Type	Parameters (if any)	Description
ruckus(config-ttg-pdg-profile)# default Type: Privileged		Sets the default APN settings.
ruckus(config-ttg-pdg-profile)# description Type: Privileged	<i>text</i>	Sets the description. Length is between 1 and 128.
ruckus(config-ttg-pdg-profile)# dhcp-options82 Type: Privileged		Enables the DHCP Options 82.
ruckus(config-ttg-pdg-profile)# dhcp-relay Type: Privileged		Enables the DHCP relay.
ruckus(config-ttg-pdg-profile)# dhcp-server1 Type: Privileged	<i>ip</i>	Enables the DHCP server 1.
ruckus(config-ttg-pdg-profile)# dhcp-server2 Type: Privileged	<i>ip</i>	Enables the DHCP server 2.
ruckus(config-ttg-pdg-profile)# do Type: Privileged		Executes the do command.
ruckus(config-ttg-pdg-profile)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-ttg-pdg-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ttg-pdg-profile)# help Type: Privileged		Displays the help.
ruckus(config-ttg-pdg-profile)# no Type: Privileged	<b>apn</b> <b>apn-oi</b> <b>dhcp-options82</b> <b>dhcp-relay</b> <b>dhcp-server2</b> <b>realm <i>realm</i></b> <b>relay-both</b>	Deletes forwarding policies for APN or default APNs for realm.
ruckus(config-ttg-pdg-profile)# pdgue-idle-timeout Type: Privileged		Sets the PDG user equipment session idle timeout.
ruckus(config-ttg-pdg-profile)# realm Type: Privileged		Creates or updates the default APN for realm.
ruckus(config-ttg-pdg-profile)# relay-both Type: Privileged		Enables in sending the DHCP request to both the servers simultaneously.

Table 117 lists the related **ttg-pdg-profile-apn** configuration commands.

**TABLE 117** Commands related to (config-ttg-pdg-profile-apn

Syntax and Type	Parameters (if any)	Description
ruckus(config-ttg-pdg-profile-apn)# do Type: Privileged		Executes the do command.
ruckus(config-ttg-pdg-profile-apn)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-ttg-pdg-profile-apn)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ttg-pdg-profile-apn)# help Type: Privileged		Displays the help.
ruckus(config-ttg-pdg-profile-apn)# route-type Type: Privileged	[ pdg   gtpv2   gtpv1 ]	Sets the route type.

Table 118 lists the related **config-ttg-pdg-profile-dhcp-option82** configuration commands.

**TABLE 118** Commands related to ruckus(config-config-ttg-pdg-profile-dhcp-option82) configuration

Syntax and Type	Parameters (if any)	Description
ruckus(config-ttg-pdg-profile-dhcp-option82)# do Type: Privileged		Executes the do command.
ruckus(config-ttg-pdg-profile-dhcp-option82)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-ttg-pdg-profile-dhcp-option82)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-ttg-pdg-profile-dhcp-option82)# help Type: Privileged		Displays the help.
ruckus(config-ttg-pdg-profile-dhcp-option82)# no Type: Privileged	<b>subopt1</b> <b>subopt150</b> <b>subopt151</b> <b>subopt2</b>	Disables various options
ruckus(config-ttg-pdg-profile-dhcp-option82)# subopt1 Type: Privileged	[ ap-info   ap-ssid   ap-mac ]	Enables subopt-1
ruckus(config-ttg-pdg-profile-dhcp-option82)# subopt150 Type: Privileged		Enables subopt-150
ruckus(config-ttg-pdg-profile-dhcp-option82)# subopt151 Type: Privileged	<b>ssid</b> <b>area-name name</b>	Enables subopt-151
ruckus(config-ttg-pdg-profile-dhcp-option82)# subopt2 Type: Privileged	[ ap-ssid   ue-ssid   ue-mac   ap-mac ]	Enables subopt-2

## 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

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

### Related Commands

Table 119 lists the related **user-agent-blacklist** configuration commands.

**TABLE 119** 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	<i>error</i>	Sets the error code between 400 and 599.
ruckus(config-user-agent-blacklist)# error-message Type: Privileged	<i>error message</i>	Sets the error message.
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	<i>name</i>	Sets the user agent name who is blacklisted.

**TABLE 119** Commands related to ruckus(config-user-agent-blacklist) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-agent-blacklist)# pattern Type: Privileged	<i>pattern</i>	Sets the user agent pattern

## user-group

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

```
ruckus(config)# user-group name
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the user group

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# user-group UG1
ruckus(config-user-group)# description
```

### Related Commands

The following table lists the related user-group configuration commands.

**TABLE 120** Commands related to ruckus(config-user-group)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-user-group)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-user-group)# do Type: Privileged		Sets the do command.
ruckus(config-user-group)# domain Type: Privileged	<i>domain</i>	Sets the domain.
ruckus(config-user-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-user-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-user-group)# help Type: Privileged		Displays the help.
ruckus(config-user-group)# name Type: Privileged	<i>name</i>	Sets the user group name.

**TABLE 120** Commands related to ruckus(config-user-group) (continued)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-user-group)# no Type: Privileged	<i>domain</i> <i>resource</i> <i>user</i>	Disables the override on the specified settings.
ruckus(config-user-group)# permission Type: Privileged	<i>permission</i>	Sets the permission to the user group.
ruckus(config-user-group)# resource Type: Privileged	<i>resource</i> [ <b>modify</b>   <b>read</b>   <b>full-access</b> ]	Sets the resource.
ruckus(config-user-group)# user Type: Privileged	<i>user-name</i>	Sets the user.

## user-role

Creates and updates the user role configuration.

### Syntax

**user-role** *role-name*

**no user-role** [ *role-name* ]

After the **user-role** command is entered to enter user role configuration mode, the following configuration syntax is available:

{ **firewall-profile** *firewall-name* | **max-devices** { *number* | **unlimited** } | **user-traffic-profile** *traffic-profile-name*

### Command Default

No user roles are defined.

### Parameters

*role-name*

Specifies the user role name.

**firewall-profile** *firewall-name*

Specifies the firewall profile name to be used.

**max-devices** *number*

Specifies the maximum number of devices.

*number*

Specifies the maximum number of devices. Number from 1 to 10.

**unlimited**

Specifies an unlimited number of devices.

**user-traffic-profile** *traffic-profile-name*

Specifies the user traffic profile name to be used. See the Usage Guidelines section for details about

### Modes

Configuration mode

### Usage Guidelines

The **no** form of the command deletes user roles. If no *role-name* is specified, all user roles will be deleted.

The **user-traffic-profile** command can be used to specify the user traffic profile to be used. To configure the user traffic profile parameters, use the **user-traffic-profile** command in configuration mode.

## Configuration Commands (s - z)

user-role

## Examples

The following example creates a user role, user1, adds a firewall and traffic profile and sets the maximum number fo devices to 3.

```
device# config
device(config)# user-role user1
device(config-user-role)# firewall-profile 5.2_Firewall
device(config-user-role)# max-devices 3
device(config-user-role)# user-traffic-profile "System Default"
```

The following example deletes all the configured user roles.

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



## 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

```
ruckus(config)# user-traffic-profile user-traffic-profile
ruckus(config-user-traffic-profile)#
```

### Related Commands

- [Table 121](#) lists the related **user-traffic-profile** configuration commands.
- [Table 122](#) lists the related **user-traffic-profile-acl** configuration commands.

[Table 121](#) lists the related **user-traffic-profile** configuration commands.

**TABLE 121** Commands related to (config-user-traffic-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile)# acl Type: Privileged	<i>value</i>	Sets the network access control list.
ruckus(config-user-traffic-profile)# default-action Type: Privileged	<i>default-action</i>	Sets the default action.
ruckus(config-user-traffic-profile)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-user-traffic-profile)# do Type: Privileged		Sets the do command.
ruckus(config-user-traffic-profile)# downlink Type: Privileged		Sets the downlink rate limit in mbps.
ruckus(config-user-traffic-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

## Configuration Commands (s - z)

### user-traffic-profile

**TABLE 121** Commands related to (config-user-traffic-profile) (continued)

Syntax and Type	Parameters (if any)	Description
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	<i>name</i>	Sets the number for maximum devices allowed.
ruckus(config-user-traffic-profile)# no Type: Privileged	<b>acl</b> <b>downlink</b> <b>uplink</b>	Disables various commands.
ruckus(config-user-traffic-profile)# uplink Type: Privileged		Sets the uplink rate limit in mbps.

Table 122 lists the related **user-traffic-profile-acl** configuration commands.

**TABLE 122** 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	<i>allow</i> : Allows the traffic <i>block</i> : Blocks the traffic	Sets the handling action.
ruckus(config-user-traffic-profile-acl)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-user-traffic-profile-acl)# destination-ip Type: Privileged	<b>network</b> [ <i>Network Address</i> ] <b>subnet-mask</b> <i>subnet-mask</i> : Sets the destination subnet. <b>host</b> [ <i>Host IP Address</i> ]: Sets the destination host.	Sets the destination IP address.
ruckus(config-user-traffic-profile-acl)# destination-port Type: Privileged	[ <i>Port Number</i> ]: Sets the destination port number <b>range</b> [ <i>Port Number</i> ] [ <i>Port Number</i> ]: Sets the destination port range	Sets the destination port number.
ruckus(config-user-traffic-profile-acl)# direction Type: Privileged	<i>direction - upstream</i>	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.
ruckus(config-user-traffic-profile-acl)# help Type: Privileged		Displays the help.
ruckus(config-user-traffic-profile-acl)# protocol Type: Privileged	<i>protocol</i> : Value should be in the range of 1 to 255	Sets the protocol.

**TABLE 122** Commands related to ruckus(config-user-traffic-profile-acl) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-user-traffic-profile-acl)# source-ip Type: Privileged	<b>network</b> [ <i>Network Address</i> ] <b>subnet-mask</b> <i>subnet-mask</i> : Sets the destination subnet.  <b>host</b> [ <i>Host IP Address</i> ]: Sets the destination host.	Sets the source IP address.
ruckus(config-user-traffic-profile-acl)# source-port Type: Privileged	[ <i>Port Number</i> ]: Sets the destination port number  <b>range</b> [ <i>Port Number</i> ] [ <i>Port Number</i> ]: Sets the destination port range	Sets the source port number.

# vlan-pooling

**ruckus(config)# vlan-pooling *name***

## Syntax Description

This command uses the following syntax:

*name*

Name of the vlan pooling profile

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# vlan-pooling VP1  
ruckus(config-vlan-pooling)# description
```

## Related Commands

The following table lists the related configuration commands.

**TABLE 123** Commands related to ruckus(config-vlan-pooling)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-vlan-pooling)# algo Type: Privileged	<i>mac-hash</i>	Sets the algorithm.
ruckus(config-vlan-pooling)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-vlan-pooling)# do Type: Privileged		Sets the do command.
ruckus(config-vlan-pooling)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-vlan-pooling)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-vlan-pooling)# help Type: Privileged		Displays the help.
ruckus(config-vlan-pooling)# name Type: Privileged	<i>name</i>	Sets the VLAN pooling profile name.

**TABLE 123** Commands related to ruckus(config-vlan-pooling) (continued)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-vlan-pooling)# no Type: Privileged	<i>description</i> <i>pooling</i>	Disables the settings.
ruckus(config-vlan-pooling)# pooling Type: Privileged	<b>range</b> <i>start-value</i> <b>end-value</b> <b>single</b> <i>value</i>	Adds the VLAN pooling.

## zone

To create or update the AP zone configurations, use the following command.

**ruckus(config)# zone**

## Syntax Description

This command uses the following syntax:

*name*

AP zone name

*name* **template** *name*

*name*

AP zone name

**template**

Creates a AP zone from the template

*name*

Name of the zone template

*name* **clone** *name*

*name*

AP zone name

**clone**

Creates a clone AP zone from an existing AP zone

*name*

Name of the zone template

*name* **ap-firmware** *ap-firmware*

*name*

AP zone name

**ap-firmware**

Changes the AP firmware

*ap-firmware*

Version of the AP firmware

*name* **cluster-switch-over** *name*

*name*

AP zone name

**cluster-switch-over**

Enables the cluster switchover

*name*

Cluster redundancy name

*name* **template-apply** *name*

*name*

AP zone name

**template-apply**

Apply the zone template

*name*

Zone template name

*name* **trigger-prefer-node**

*name*

AP zone name

**trigger-prefer-node**

Apply the trigger preference for the node

## Default

This command has no default settings.

## Command Mode

Config

## Example

```
ruckus(config)# zone indus3-ap3
```

## Related Commands

- [Table 124](#) lists the related **zone** configuration commands.
- [Table 125](#) lists the related **zone-aaa** configuration commands.
- [Table 126](#) lists the related **zone-ap-group** configuration commands.
- [Table 128](#) lists the related **zone-ap-group-lldp** configuration commands.
- [Table 129](#) lists the related **zone-ap-group-port-setting** configuration commands.
- [Table 130](#) lists the commands related **zone-ap-model** configuration commands.
- [Table 131](#) lists the related **zone-ap-model-lan1** configuration commands.
- [Table 135](#) lists the related **zone-ap-registration-rule** configuration commands.
- [Table 138](#) lists the related **zone-bonjour-policy** configuration commands.
- [Table 139](#) lists the related **zone-bonjour-policy-rule** configuration commands.
- [Table 142](#) lists the related **zone-device-policy** configuration commands.
- [Table 143](#) lists the related **zone-device-policy-policy** rule configuration commands.
- [Table 144](#) lists the related **zone-diffserv** configuration commands.
- [Table 145](#) lists the related **zone-ethernet-port-profile** configuration commands.
- [Table 146](#) lists the related **zone-guest-access** configuration commands.

- [Table 147](#) lists the related **zone-hotspot** configuration commands.
- [Table 148](#) lists the related **zone-hotspot20-venue-profile** configuration commands.
- [Table 149](#) lists the related **zone-hotspot20-wlan-profile** configuration commands.
- [Table 150](#) lists the related **zone-hotspot20-wlan-profile-cust-connect-capabilities** configuration commands.
- [Table 151](#) lists the related **zone-l2-acl** configuration commands.
- [Table 152](#) lists the related **zone-vlan-pooling** configuration commands.
- [Table 153](#) lists the related **zone-web-authentication** configuration commands.
- [Table 154](#) lists the related **zone-wechat** configuration commands.
- [Table 155](#) lists the related **zone-wlan-group** configuration commands.
- [Table 156](#) lists the related **zone-wlan-scheduler** configuration commands.

[Table 124](#) lists the related **zone** configuration commands.

**TABLE 124** Commands related to ruckus(config-zone)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# aaa Type: Privileged	<i>name</i>	Creates or updates the AAA server configuration.
ruckus(config-zone)# adj-threshold Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g</b> <i>\$(value)</i> Value is minimum = 1 and maximum = 100	Sets the adjacent radio threshold of the client load balancing.
ruckus(config-zone)# ap-firmware Type: Privileged	<i>ap-firmware</i>	Sets the AP firmware version.
ruckus(config-zone)# ap-group Type: Privileged	<i>name</i>	Creates or updates the AP group configuration.
ruckus(config-zone)# ap-ip-mode Type: Privileged	[ <b>ipv4</b>   <b>ipv6</b>   <b>dual</b> ]	Sets the AP IP mode to either IPv4 or IPv6 version.
ruckus(config-zone)# ap-logon Type: Privileged	<i>logon-id</i>	Sets the login ID for the AP administrator.
ruckus(config-zone)# ap-mgmt-vlan Type: Privileged	<i>vlanTag</i> : VLAN Tag (1-4094); enter 'keep' to keep APs setting	Sets AP management VLAN.
ruckus(config-zone)# ap-model Type: Privileged	<i>name</i>	Sets the AP model name.
ruckus(config-zone)# ap-password Type: Privileged		Sets the password for the AP administrator.
ruckus(config-zone)# ap-ping-latency-interval Type: Privileged	<i>enable</i> <i>disable</i>	Sets the AP latency detection by enabling or disabling the AP ping.
ruckus(config-zone)# ap-reboot-timeout Type: Privileged	<b>default-gateway</b> [ <i>hours and minutes</i> ] <b>default-gateway</b> : Sets the default gateway timeout in hours and minutes. <b>control-interface</b> <i>hours</i> : Sets the control interface timeout in hours.	Sets the AP reboot timeout.
ruckus(config-zone)# ap-registration-rule Type: Privileged	<i>priority</i>	Creates or updates the AP registration rule configuration.



**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# ap-snmp-options Type: Privileged		Sets the AP SNMP options.
ruckus(config-zone)# background-scan Type: Privileged	<b>2.4g seconds</b> <b>5g seconds</b>	Sets the background scanning.
ruckus(config-zone)# band-balancing Type: Privileged	<b>2.4gint 2.4g:</b> 2.4G band <i>int</i> : Percentage of clients on 2.4G band	Sets the band balance.
ruckus(config-zone)# block-client Type: Privileged	<i>mac</i>	Sets to block the client by specifying the MAC address.
ruckus(config-zone)# bonjour-fencing Type: Privileged	<i>name</i> : Bonjour fencing policy name to apply	Enables bonjour fencing policy.
ruckus(config-zone)# bonjour-fencing-policy Type: Privileged	<i>name</i> : Bonjour fencing policy name	Creates or updates the bonjour fencing policy.
ruckus(config-zone)# bonjour-gateway Type: Privileged		Enables the bonjour gateway.
ruckus(config-zone)# bonjour-policy Type: Privileged	<i>name</i>	Creates or updates the bonjour policy.
ruckus(config-zone)# channel Type: Privileged	<b>2.4g channel</b> <b>5g indoor channel</b> <b>5g outdoor channel</b>	Sets the channel.
ruckus(config-zone)# channel-evaluation-interval Type: Privileged		Sets the channel evaluation interval.
ruckus(config-zone)# channel-range Type: Privileged	<b>2.4g</b> [ <i>channels</i>   <b>all</b> ] <b>2.4g:</b> 2.4 GHz radio [ <i>channels</i>   <b>all</b> ]: Channels (ex: 1,2,3,4,5 or all) <b>5g indoor</b> [ <i>channels</i>   <b>all</b> ] <b>5g:</b> 5 GHz radio <b>indoor:</b> indoor [ <i>channels</i>   <b>all</b> ] : Channels (ex: 36,40,44 or all) <b>5g outdoor</b> [ <i>channels</i>   <b>all</b> ] <b>5g:</b> 5 GHz radio <b>outdoor:</b> outdoor [ <i>channels</i>   <b>all</b> ]: Channels (ex: 149,153,161 or all)	Sets the channel range.
ruckus(config-zone)# channel-select-mode Type: Privileged		Selects the channel.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# channelfly-mtbc Type: Privileged	<b>2.4g number</b> <b>2.4g:</b> 2.4 GHz radio <i>number:</i> MTBC value (Range: 100~1440) <b>5g number</b> <b>5g:</b> 5 GHz radio <i>number:</i> MTBC value (Range: 100~1440)	Sets MTBC value of ChannelFly.
ruckus(config-zone)# channelization Type: Privileged	<b>2.4g [ 20   40 ]</b> <b>5g [ 40   20 ]</b>	Sets the channelization.
ruckus(config-zone)# client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b> <b>2.4g minClientCount minClientCount</b> <b>2.4g maxRadioLoad maxRadioLoad</b> <b>2.4g minClientThroughput minClientThroughput 5g minClientCount minClientCount</b> <b>5g maxRadioLoad maxRadioLoad</b> <b>5g minClientThroughput minClientThroughput</b>	Enables the client admission control.
ruckus(config-zone)# country-code Type: Privileged	<i>country-code</i>	Sets the country code.
ruckus(config-zone)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-zone)# device-policy Type: Privileged	<i>name</i>	Sets the device policy.
ruckus(config-zone)# dfs-channel Type: Privileged		Sets the DFS channels for the US country code.
ruckus(config-zone)# diffserv Type: Privileged	<i>name</i>	Creates or updates the diff server profile.
ruckus(config-zone)# do Type: Privileged		Executes the do command.
ruckus(config-zone)# dos-protection Type: Privileged	<i>dosBarringPeriod:</i> DoS protection period <i>dosBarringThreshold:</i> DoS protection threshold <i>dosBarringCheckPeriod:</i> DoS protection checkperiod	Enables DoS (Denial-of-service) protection.
ruckus(config-zone)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-zone)# exit Type: Privileged		Exits from the EXEC.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# ethernet-port-profile Type: Privileged	<i>name</i> : Ethernet Port Profile name	Sets the Ethernet Port profile.
ruckus(config-zone)# gps Type: Privileged	<i>latitude longitude</i>	Displays the help.
ruckus(config-zone)# gps-altitude Type: Privileged	<i>altitude [ floor   meters ]</i>  <b>altitude value</b>  <b>floor</b>  <b>meters</b>	Sets the GPS altitude.
ruckus(config-zone)# guest-access Type: Privileged	<i>name</i>	Sets the guest access.
ruckus(config-zone)# help Type: Privileged		Sets the GPS coordinates.
ruckus(config-zone)# headroom	<b>2.4g client</b>  <b>5g client</b>  <b>2.4g</b> : 2.4 GHz radio  <b>5g</b> : 5 GHz radio  <i>client</i> : Number of clients	Sets the headroom (# of clients) of client load balancing. You need to access the load-balancing sub-menu first for this command to work.
ruckus(config-zone)# load-balancing Type: Privileged	<b>2.4g</b> : 2.4 GHz radio  <b>5g</b> : 5 GHz radio	Sets client load balancing
ruckus(config-zone)# hotspot Type: Privileged	<i>name</i>	Creates or updates the hotspot (WISPr) configuration.
ruckus(config-zone)# hotspot20-venue-profile Type: Privileged	<i>name</i>	Creates or updates the venue profile for hotspot release 2 configuration.
ruckus(config-zone)# hotspot20-wlan-profile Type: Privileged	<i>name</i>	Creates or updates the WLAN profile for hotspot release 2 configuration.
ruckus(config-zone)# indoor-channel Type: Privileged		Enables the indoor channels.
ruckus(config-zone)# ipsec-profile Type: Privileged	<i>profile-name</i>	Sets the IPsec profile.
ruckus(config-zone)# ipsec-tunnel-profile Type: Privileged	<i>ipsec-profile-name</i>	Sets the IPsec Tunnel profile.
ruckus(config-zone)# l2-acl Type: Privileged	<i>name</i>	Sets the layer 2 access control list.
ruckus(config-zone)# lbs Type: Privileged		Enables the location based service.
ruckus(config-zone)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-zone)# location Type: Privileged		Sets the location.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# location-additional-info Type: Privileged	<i>text</i>	Sets the additional information location.
ruckus(config-zone)# mesh Type: Privileged		Enables mesh networking.
ruckus(config-zone)# mesh-name Type: Privileged	<i>name</i>	Sets the mesh name (ESSID).
ruckus(config-zone)# mesh-passphrase Type: Privileged	<i>mesh-passphrase</i>	Sets the mesh passphrase.
ruckus(config-zone)# move Type: Privileged	<b>domain</b> <i>name</i>	Moves the zone to another domain.
ruckus(config-zone)# name Type: Privileged	<i>name</i>	Sets the AP zone name.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# no Type: Privileged	<b>aaa</b> <i>name</i> <b>ap-group</b> <i>name</i> <b>ap-registration-rule</b> <i>priority</i> <b>background-scan</b> <i>2.4g 5g</i> <b>band-balancing</b> <b>block-client</b> <b>bonjour-fencing</b> <b>bonjour-fencing-policy</b> <b>bonjour-gateway</b> <b>bonjour-policy</b> <b>client-admission-control</b> <i>2.4g 5g</i> <b>client-isolation-whitelist</b> <b>channel-select-mode</b> <b>client-admission-control</b> <b>dfs-channel</b> <b>ethernet-port-profile</b> <b>description</b> <b>device-policy</b> <b>diffserv</b> <b>gps</b> <b>guest-access</b> <b>hotspot</b> <i>name</i> <b>hotspot20-venue-profile</b> <i>name</i> <b>hotspot20-wlan-profile</b> <i>name</i> <b>ipsec-profile</b> <b>l2-acl</b> <b>lbs</b> <b>load-balancing</b> <b>location</b> <b>location-additional-info</b> <b>mesh</b> <b>recovery-ssid</b> <b>roam</b> <b>soft-gre-profiles</b> <b>smart-mon</b> <b>smart-roam-disconnect-event</b> <b>syslog-enabled</b> <b>timezone-dst</b> <b>venue-profile</b> <b>vlan-overlapping</b> <b>vlan-pooling</b> <b>web-authentication</b>	Disables and deletes command configuration.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# node-affinity-profile Type: Privileged	<i>profile-name</i>	Sets the node affinity profile
ruckus(config-zone)# protection-mode Type: Privileged	2.4g \${value}	Overrides the protection mode on 2.4 GHz radio
ruckus(config-zone)# recovery-ssid-enabled Type: Privileged	disable	Overrides the enable recovery SSID broadcast.
ruckus(config-zone)# rks-gre-profile Type: Privileged	profile-name	Sets the AP Ruckus GRE tunnel profile.
ruckus(config-zone)# roam Type: Privileged	2.4g 5g	Sets the smart roam.
ruckus(config-zone)# roam-macfilt-time Type: Privileged	2.4g <i>seconds (0-600)</i> 5g <i>seconds (0-600)</i>	Sets the smart roam MAC filter time in seconds.
ruckus(config-zone)# rogue-ap-detection Type: Privileged	<b>[enable   disable]</b> : Enables or disables malicious rogue devices which have same network  <b>report-all [ disable   enable ]</b> : Sets to report all rogue devices  <b>report-only-malicious [ enable   disable ]</b> - Reports only malicious rogue device type.  <b>report-ssid-spoofing [ disable   enable ]</b> : Reports only malicious rogue devices of SSID spoofing.	Sets the report rogue access point.
ruckus(config-zone)# rogue-ap-detection Type: Privileged	<b>report-same-network [ enable   disable ]</b> : Reports only malicious rogue devices of the same network.  <b>report-mac-spoofing [ disable   enable ]</b> : Enables or disables malicious rogue devices which have MAC IP address spoofing  <b>[ disable protect-from-malicious [ disable   enable ]</b> : Enables or disables the network from malicious rogue access points	Sets the report rogue access point.
ruckus(config-zone)# smart-mon Type: Privileged	<b>interval</b> <i>between 5-60</i>  <b>threshold</b> <i>between 1-10</i>	Sets the smart monitor interval.
ruckus(config-zone)# smart-roam-disconnect-event Type: Privileged		Enables smart roam disconnect event.
ruckus(config-zone)# soft-gre-profiles Type: Privileged	<profile-name> <profile-name> <profile-name> - Select the first, second and third SoftGRE tunnel profile  <profile-name> <profile-name> - Select the first and second SoftGRE tunnel profile  <profile-name> - Select the first SoftGRE tunnel profile	Sets AP SoftGRE tunnel profiles
ruckus(config-zone)# syslog-enabled Type: Privileged		Enables the external syslog server for APs in this zone.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# syslog-facility Type: Privileged	[ <b>Local6</b>   <b>Keep Original</b>   <b>Local0</b>   <b>Local5</b>   <b>Local7</b>   <b>Local1</b>   <b>Local4</b>   <b>Local3</b>   <b>Local2</b> ]	Sets the syslog server facility.
ruckus(config-zone)# syslog-ip Type: Privileged	<i>ip</i>	Sets the syslog server IP address.
ruckus(config-zone)# syslog-ip6 Type: Privileged	<i>ipv6</i>	Sets the IPv6 address for the syslog server.
ruckus(config-zone)# syslog-port Type: Privileged	<i>port</i>	Sets the syslog server port.
ruckus(config-zone)# syslog-priority Type: Privileged	[ <b>Alert</b>   <b>Info</b>   <b>Critical</b>   <b>Warning</b>   <b>Notice</b>   <b>Emergency</b>   <b>All</b>   <b>Error</b> ]	Sets the syslog server priority.
ruckus(config-zone)# timezone Type: Privileged	<b>System</b> : Follows the controller time zone setting  <b>System</b> [ <i>time zone</i> ]  Select the time zone from system database  <b>User-defined System</b> [ <i>time zone abbr.</i> ]  User defined time zone  Time zone abbreviation (example: GMT, CST, EST)	Sets the timezone for zone.
ruckus(config-zone)# timezone-dst Type: Privileged	[ <b>Start</b>   <b>End</b> ] <i>order weekday month hour</i>	Sets the user defined timezone for daylight savings.
ruckus(config-zone)# timezone-gmt-offset Type: Privileged	[ <i>hour</i>   <i>hour:minute</i> ] : For example, 8, -7:45	Sets the user defined timezone for GMT offset.
ruckus(config-zone)# tunnel-profile Type: Privileged	<i>profile-name</i>	Sets the AP GRE tunnel profile.
ruckus(config-zone)# tunnel-type Type: Privileged	[ <b>gre</b>   <b>gre-udp</b> ]	Sets the tunnel type.
ruckus(config-zone)# tx-power Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g</b> <i>\$(value)</i> Value is minimum = 1 and maximum = 100	Sets the TX power adjustment.
ruckus(config-zone)# usb-software Type: Privileged	<b>upload</b> <i>ftp-url</i>  <b>upload</b> : Upload AP USB Software Package  <i>ftp-url</i> : AP USB Software Package file, FTP URL Format: ftp://username:password@ip/file-path	Sets the AP USB software package.
ruckus(config-zone)# venue-profile Type: Privileged	<i>name</i>	Sets the venue profile.
ruckus(config-zone)# vlan-overlapping Type: Privileged		Enables the overlapping of VLAN pooling.
ruckus(config-zone)# vlan-pooling Type: Privileged	<i>name</i>	Creates or updates the VLAN pooling profile.

**TABLE 124** Commands related to ruckus(config-zone) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone)# weak-bypass Type: Privileged	<b>2.4g</b> <i>\${threshold}</i> <b>5g</b> <i>\${threshold}</i> Value is minimum = 1 and maximum = 100	Sets the weak bypass threshold of the client load balancing.
ruckus(config-zone)# web-authentication Type: Privileged	<i>name</i>	Sets the web authentication.
ruckus(config-zone)# wechat Type: Privileged	<i>name</i> : WeChat name	Creates/updates WeChat configuration.
ruckus(config-zone)# wlan Type: Privileged	<i>name</i>	Creates or updates the WLAN configuration.
ruckus(config-zone)# wlan-group Type: Privileged	<i>name</i>	Creates or updates the WLAN group configuration.
ruckus(config-zone)# wlan-scheduler Type: Privileged	<i>name</i>	Creates or updates the WLAN scheduler configuration.

Table 125 lists the related **zone-aaa** configuration commands.

**TABLE 125** Commands related ruckus(config-zone-aaa)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-aaa)# admin-domain Type: Privileged	<i>admin-domain</i> : Admin domain name, example: admin@domain.ruckuswireless.com	Enables the admin domain name.
ruckus(config-zone-aaa)# admin-domain-name Type: Privileged	<i>admin-domain</i> : Admin domain name, To query multiple organizational units, enter an admin domain name and - password with full search and read privileges.(example: uid=admin,dc=ldap,dc=com)	Creates or updates the admin domain.
ruckus(config-zone-aaa)# admin-password Type: Privileged	<i>admin-password</i>	Creates or updates the admin password.
ruckus(config-zone-aaa)# backup Type: Privileged	<b>ip</b> <i>ip</i> <b>ipv6</b> <i>ipv6</i> <b>port</b> <i>port</i> <b>shared-secret</b> <i>shared-secret</i>	Enables backup of RADIUS support and set related settings.
ruckus(config-zone-aaa)# base-domain Type: Privileged	<i>base-domain</i>	Set the base domain.
ruckus(config-zone-aaa)# description Type: Privileged	<i>description</i>	Sets the description.
ruckus(config-zone-aaa)# do Type: Privileged		Executes the do command.
ruckus(config-zone-aaa)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.



**TABLE 125** Commands related ruckus(config-zone-aaa) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-aaa)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-aaa)# global-catalog Type: Privileged		Enables the global catalog support.
ruckus(config-zone-aaa)# help Type: Privileged		Displays the help.
ruckus(config-zone-aaa)# ip Type: Privileged	<i>ip</i>	Set IP addresses of primary RADIUS server.
ruckus(config-zone-aaa)# ipv6 Type: Privileged	<i>ipv6</i>	Set IPv6 addresses of primary RADIUS server.
ruckus(config-zone-aaa)# key-attribute Type: Privileged	<i>key-attribute</i>	Sets the key attributes for the primary RADIUS server.
ruckus(config-zone-aaa)# no Type: Privileged	<b>backup</b> <b>global-catalog</b>	Disables or deletes configuration settings.
ruckus(config-zone-aaa)# password Type: Privileged	<i>password</i>	Sets the password for the primary RADIUS server.
ruckus(config-zone-aaa)# port Type: Privileged	<i>port</i>	Sets the port number of the primary RADIUS server.
ruckus(config-zone-aaa)# search-filter Type: Privileged	<i>search-filter</i>	Sets the search filter.
ruckus(config-zone-aaa)# shared-secret Type: Privileged	<i>shared-secret</i>	Sets the shared secret of the primary RADIUS server.
ruckus(config-zone-aaa)# test Type: Privileged	<i>username password</i> [ <b>PAP</b>   <b>CHAP</b> ]	Tests the connectivity of the AAA server using protocol settings.
ruckus(config-zone-aaa)# test-acct Type: Privileged		Tests the accounting server.
ruckus(config-zone-aaa)# type Type: Privileged	[ <b>radius</b>   <b>radius-acct</b>   <b>LDAP</b>   <b>AD</b> ]	Sets the RADIUS type.
ruckus(config-zone-aaa)# windows-domain Type: Privileged	<i>windows-domain</i>	Sets the windows domain name.

Table 126 lists the related **zone-ap-group** configuration commands.

**TABLE 126** Commands related to ruckus(config-zone-ap-group)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# ani-ofdm-level Type: Privileged	<i>ap-model</i> - AP model name	Sets the AP adaptive noise immunity level for specific AP model.
ruckus(config-zone-ap-group)# ap-snmp-options Type: Privileged		Enables AP SNMP options.

**TABLE 126** Commands related to ruckus(config-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# channel Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g indoor</b> <i>\$(value)</i> <b>5g outdoor</b> <i>\$(value)</i>	Sets the channel.
ruckus(config-zone-ap-group)# channel-evaluation-interval Type: Privileged	<i>seconds</i> : The interval value (Range: 60~3600 secs)	Sets the channel evaluation interval.
ruckus(config-zone-ap-group)# channel-range Type: Privileged	<b>2.4g</b> [ <i>channels</i>   <b>all</b> ] : 2.4g: 2.4 GHz radio [ <i>channels</i>   <b>all</b> ] : Channels (ex: 1,2,3,4,5 or all) <b>5g indoor</b> [ <i>channels</i>   <b>all</b> ] <b>5g</b> : 5 GHz radio <b>indoor</b> : indoor [ <i>channels</i>   <b>all</b> ] : Channels (ex: 36,40,44 or all) <b>5g outdoor</b> [ <i>channels</i>   <b>all</b> ] <b>5g</b> : 5 GHz radio <b>outdoor</b> : outdoor [ <i>channels</i>   <b>all</b> ] : Channels (ex: 149,153,161 or all)	Sets the channel range.
ruckus(config-zone-ap-group)# channel-select-mode Type: Privileged		Selects the channel.
ruckus(config-zone-ap-group)# channelfly-mtbc Type: Privileged	<b>2.4g</b> <i>number</i> <b>2.4g</b> : 2.4 GHz radio <i>number</i> :MTBC value (Range: 100~1440) <b>5g</b> <i>number</i> <b>5g</b> : 5 GHz radio <i>number</i> :MTBC value (Range: 100~1440)	Sets MTBC value of ChannelFly.
ruckus(config-zone-ap-group)# channelization Type: Privileged	<b>2.4g</b> [ <b>20</b>   <b>40</b> ] <b>5g</b> [ <b>40</b>   <b>20</b> ]	Sets the channelization.
ruckus(config-zone-ap-group)# client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b> <b>2.4g</b> <b>minClientCount</b> <i>minClientCount</i> : Min Client Count (Default: 10) <b>2.4g</b> <b>maxRadioLoad</b> <i>maxRadioLoad</i> : Max Radio Load (Default: 75%)	Enables the client admission control.

**TABLE 126** Commands related to ruckus(config-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# client-admission-control Type: Privileged	<b>2.4g minClientThroughput</b> <i>minClientThroughput</i> : Min Client Throughput (Default: 0.0Mbps)  <b>5g minClientCount</b> <i>minClientCount</i> : Min Client Count (Default: 20)  <b>5g maxRadioLoad</b> <i>maxRadioLoad</i> : Max Radio Load (Default: 75%)  <b>5g minClientThroughput</b> <i>minClientThroughput</i> : Min Client Throughput (Default: 0.0Mbps)	Enables the client admission control.
ruckus(config-zone-ap-group)# description Type: Privileged	<i>text</i>	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)# external-antenna Type: Privileged	<i>ap-model</i> <b>5g</b> [ <b>disable</b>   <b>enable</b> ] <i>ap-model</i> <b>5g gain</b> <i>gain</i> <i>ap-model</i> <b>2.4g gain</b> <i>gain</i> <i>ap-model</i> <b>2.4g</b> [ <b>enable</b>   <b>disable</b> ] <i>ap-model</i> <b>gain</b> <i>gain</i> <i>ap-model</i> [ <b>disable</b>   <b>enable</b> ] <i>ap-model</i> <b>2.4g</b> [ <b>3-antennas</b>   <b>2-antennas</b> ] <i>ap-model</i> <b>5g</b> [ <b>3-antennas</b>   <b>2-antennas</b> ]	Sets the external antenna for specific AP model.
ruckus(config-zone-ap-group)# gps Type: Privileged	<i>latitude longitude</i>	Displays the help.
ruckus(config-zone-ap-group)# gps-altitude Type: Privileged	<i>altitude</i> [ <b>floor</b>   <b>meters</b> ]	Sets the GPS altitude.
ruckus(config-zone-ap-group)# help Type: Privileged		Displays the help.
ruckus(config-zone-ap-group)# internal-heater Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the internal heater for specific AP model.
ruckus(config-zone-ap-group)# lbs Type: Privileged		Enables the location based service.
ruckus(config-zone-ap-group)# lbs-service Type: Privileged		Sets the location based service.
ruckus(config-zone-ap-group)# led-mode Type: Privileged	<i>ap-model</i>	Sets the LED mode for specific AP model.

**TABLE 126** Commands related to ruckus(config-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# lldp Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the LLDP for a specific AP model.
ruckus(config-zone-ap-group)# location Type: Privileged		Sets the location.
ruckus(config-zone-ap-group)# location-additional-info Type: Privileged	<i>text</i>	Sets the additional information location.
ruckus(config-zone-ap-group)# member Type: Privileged	<b>add</b> <i>ap-mac</i> <b>move-to</b> <i>apgroup-name ap-mac</i> <b>remove</b> <i>mac</i>	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-zone-ap-group)# no Type: Privileged	<b>ani-ofdm-level</b> <b>channel 2.4g</b> <b>channel 5g indoor</b> <b>channel 5g outdoor</b> <b>channel-evaluation-interval</b> <b>channel-range</b> <b>channel-select-mode</b> <b>client-admission-control</b> <b>channelization 2.4g</b> <b>channelization 5g</b> <b>description</b> <b>external-antenna</b> <i>ap-model 5g</i> <b>external-antenna</b> <i>ap-model 2.4g</i> <b>gps</b> <b>internal heater</b> <b>lbs</b> <b>led-mode</b> <b>lldp</b> <b>location</b> <b>location-additional-info</b>	Disables / deletes the configuration settings.

**TABLE 126** Commands related to ruckus(config-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# no Type: Privileged	<b>override-zone-location</b> <b>override-zone-location-additional-info</b> <b>override-ap-mgmt-vlan</b> <b>override-ap-snmp-options</b> <b>override-channel-select-mode</b> <b>override-client-admission-control</b> <b>override-lbs</b> <b>override-venue-code</b> <b>poe-operating-mode</b> <b>poe-out</b> <b>port-setting</b> <b>protection-mode &lt;2.4g&gt;</b> <b>radio-band</b> <b>recovery-ssid</b> <b>status-leds</b> <b>tx-power 2.4g</b> <b>tx-power 5g</b> <b>usb-port</b> <b>usb-software</b> <b>venue-profile</b> <b>wlan-group 2.4g</b> <b>wlan-group 5g</b>	Disables / deletes the configuration settings.
ruckus(config-zone-ap-group)# override-ap-mgmt-vlan Type: Privileged	<i>vlanTag</i> : VLAN tag	Overrides the AP Management VLAN.
ruckus(config-zone-ap-group)# override-ap-snmp-options Type: Privileged		Overrides the AP SNMP options.
ruckus(config-zone-ap-group)# override-channel-select-mode Type: Privileged	<b>2.4g</b> <b>5g</b>	Overrides auto channel selection mode and ChannelFly MTBC.
ruckus(config-zone-ap-group)# override-client-admission-control Type: Privileged	<b>2.4g</b> <b>5g</b>	Overrides the client admission control settings.
ruckus(config-zone-ap-group)# override-lbs Type: Privileged		Overrides the location based service to zone settings.
ruckus(config-zone-ap-group)# override-zone-location Type: Privileged		Overrides the zone location setting.

**TABLE 126** Commands related to ruckus(config-zone-ap-group) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group)# override-zone-location-additional-info Type: Privileged		Overrides the zone location additional information setting
ruckus(config-zone-ap-group)# poe-operating-mode Type: Privileged	<i>ap-model</i> : AP model name	Switch the PoE Operating Mode for a specific AP model.
ruckus(config-zone-ap-group)# poe-out Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the PoE out port for a specific AP model.
ruckus(config-zone-ap-group)# port-setting Type: Privileged	<i>ap-model</i>	Sets the port settings for specific AP model.
ruckus(config-zone-ap-group)# port-setting Type: Privileged	<b>2.4g</b> <i>\$(value)</i>	Overrides the protection mode on 2.4 GHz radio
ruckus(config-zone-ap-group)# protection-mode Type: Privileged	<b>2.4g</b> <i>\$(value)</i>	Overrides the protection mode on 2.4 GHz radio
ruckus(config-zone-ap-group)# radio-band Type: Privileged	<i>ap-model</i> [ <b>2.4g</b>   <b>5g</b> ]	Switches the radio band for a specific AP model.
ruckus(config-zone-ap-group)# recovery-ssid-enabled Type: Privileged	<i>disable</i>	Overrides the enable recovery SSID broadcast.
ruckus(config-zone-ap-group)# secondary-channel Type: Privileged	<b>5g indoor</b> [ <i>secondary channel</i> ] <b>5g outdoor</b> [ <i>secondary channel</i> ]	Sets the secondary channel.
ruckus(config-zone-ap-group)# status-leds Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the status LED for specific AP model.
ruckus(config-zone-ap-group)# tx-power Type: Privileged	<b>2.4g</b> <i>\$(value)</i> <b>5g</b> <i>\$(value)</i>	Sets the TX power adjustment.
ruckus(config-zone-ap-group)# usb-port Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Enables USB port.
ruckus(config-zone-ap-group)# usb-software Type: Privileged	<i>ap-model name</i>	Sets the AP USB software package for a specific AP model.
ruckus(config-zone-ap-group)# venue-code Type: Privileged		Sets the venue code.
ruckus(config-zone-ap-group)# venue-profile Type: Privileged	<i>name</i>	Sets the venue profile
ruckus(config-zone-ap-group)# wlan-group Type: Privileged	<b>2.4g</b> <b>5g</b>	Sets the WLAN group configurations.

Table 127 lists the related **zone-ap-group-lldp** configuration commands.

**TABLE 127** Commands related to ruckus(config-zone-ap-group-lldp configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-lldp)# do Type: Privileged		Executes the do command.

**TABLE 127** Commands related to ruckus(config-zone-ap-group-lldp configuration) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-lldp)# end Type: Privileged		Ends the current configuration session and return to privileged EXEC mode.
ruckus(config-zone-ap-group-lldp)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-group-lldp)# help Type: Privileged		Displays the help.
ruckus(config-zone-ap-group-lldp)# lldp-ad-interval Type: Privileged	<i>seconds</i>	Sets the LLDP advertise interval in seconds from the range 1 to 300.
ruckus(config-zone-ap-group-lldp)# lldp-hold-time Type: Privileged	<i>seconds</i>	Sets the LLDP hold time in seconds from the range 60 to 1200.
ruckus(config-zone-ap-group-lldp)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.

Table 128 lists the related **zone-ap-group-ap-snmp-options** configuration commands.

**TABLE 128** Commands related to ruckus (zone-ap-group-ap-snmp-options) configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-ap-snmp-options)# ap-snmp Type: Privileged		Enables AP SNMP.
ruckus(config-zone-ap-group-ap-snmp-options)# no Type: Privileged	<b>ap-snmp</b> <b>snmp-v2-community</b> <b>snmp-v3-user</b>	Disables and deletes commands.
ruckus(config-zone-ap-group-ap-snmp-options)# snmp-v2-community Type: Privileged		Adds or update AP SNMPv2 community.
ruckus(config-zone-ap-group-ap-snmp-options)# snmp-v3-user Type: Privileged		Adds or updates AP SNMPv3 users.

Table 129 lists the related **zone-ap-group-port-setting** configuration commands.

**TABLE 129** Commands related to ruckus(config-zone-ap-group-port-setting)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-port-setting)# do Type: Privileged		Executes the do command.

**TABLE 129** Commands related to ruckus(config-zone-ap-group-port-setting) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-group-port-setting)# dot1x Type: Privileged	<b>authsvr</b> [ <i>Authenticator Server Name</i> ] <b>accsvr</b> <i>name</i> <b>mac-auth-bypass</b> [ <b>true</b>   <b>false</b> ] [ <b>supplicant user-name</b> <i>user name</i> <b>password</b> <i>password</i> <b>supplicant mac</b>	Sets the 802.1x role
ruckus(config-zone-ap-group-port-setting)# end Type: Privileged		Ends the current configuration session and return 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.
ruckus(config-zone-ap-group-port-setting)# lan Type: Privileged	<i>port</i> <i>port uplink</i> [ <b>general</b>   <b>access</b>   <b>trunk</b> ] <i>port untag</i> <i>vlan</i> <i>port member</i> <i>vlan-members</i> <i>port dot1x</i> [ <b>auth-mac-based</b>   <b>disabled</b>   <b>auth-port-based</b>   <b>supplicant</b> ]	Enables or disable specific port.
ruckus(config-zone-ap-group-port-setting)# no Type: Privileged	<b>lan</b> <i>port</i>	Disables or deletes the configuration settings.

Table 130 lists the commands related zone-ap-model configuration commands.

**TABLE 130** Commands related to ruckus(config-zone-ap-model) configuration commands

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



**TABLE 130** Commands related to ruckus(config-zone-ap-model) configuration commands (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-model)# lan1 ruckus(config-zone-ap-model)# lan2 ruckus(config-zone-ap-model)# lan3 ruckus(config-zone-ap-model)# lan4 ruckus(config-zone-ap-model)# lan5 Type: Privileged		Sets the LAN configurations from 1 to 5.
ruckus(config-zone-ap-model)# led Type: Privileged		Enables the status of led.
ruckus(config-zone-ap-model)# led-mode Type: Privileged		Sets the led mode description
ruckus(config-zone-ap-model)# lldp Type: Privileged		Enables the Link Layer Discovery Protocol (LLDP).
ruckus(config-zone-ap-model)# lldp-ad-interval Type: Privileged	<i>seconds</i>	Sets the LLDP advertise interval.
ruckus(config-zone-ap-model)# lldp-hold-time Type: Privileged	<i>seconds</i>	Sets the LLDP hold time.
ruckus(config-zone-ap-model)# lldp-mgmt Type: Privileged		Enables the LLDP management IP TLV.
ruckus(config-zone-ap-model)# no Type: Privileged	<b>ext-ant</b> <b>internal-heater</b> <b>lan1</b> <b>lan2</b> <b>lan3</b> <b>lan4</b> <b>lan5</b> <b>led</b> <b>lldp</b> <b>lldp-mgmt</b> <b>poe-operating-mode</b> <b>poe-out-port</b> <b>radio-band</b> <b>usb</b> <b>usb-software</b>	Disables or deletes the settings that have been configured.
ruckus(config-zone-ap-model)# poe-operating-mode Type: Privileged	<i>\${value}</i>	Switch PoE mode.
ruckus(config-zone-ap-model)# poe-out-port Type: Privileged		Enables the PoE out port

**TABLE 130** Commands related to ruckus(config-zone-ap-model) configuration commands (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-model)# radio-band Type: Privileged	<i>\${value}</i>	Switches the radio band.
ruckus(config-zone-ap-model)# usb Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the USB port for a specific AP model.
ruckus(config-zone-ap-model)# usb-software Type: Privileged	<i>ap-model</i> [ <b>enable</b>   <b>disable</b> ]	Sets the AP USB software package.

Table 131 lists the related **zone-ap-model-lan1** configuration commands.

**TABLE 131** Commands related to ruckus(config-zone-ap-model-lan1)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-model-lan1)# 8021x Type: Privileged	<i>8021x-type</i>	Sets the 802.1x.
ruckus(config-zone-ap-model-lan1)# acct-service Type: Privileged	<i>acct-service</i>	Sets the accounting service configurations.
ruckus(config-zone-ap-model-lan1)# auth-service Type: Privileged	<i>auth-service</i>	Sets the authentication service configurations.
ruckus(config-zone-ap-model-lan1)# do Type: Privileged		Executes the do command.
ruckus(config-zone-ap-model-lan1)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-model-lan1)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-model-lan1)# help Type : Privileged		Displays the help.
ruckus(config-zone-ap-model-lan1)# no Type: Privileged	<b>overwrite</b>	Disables or deletes the settings that have been configured.
ruckus(config-zone-ap-model-lan1)# overwrite Type: Privileged		Enables overwrite of VLAN setting.
ruckus(config-zone-ap-model-lan1)# profile Type: Privileged	<i>profile::</i> Ethernet port profile	Sets the Ethernet port profile.
ruckus(config-zone-ap-model-lan1)# vlan-untag-id Type: Privileged	<i>vlan-untag-id</i>	Sets the VLAN untag ID.
ruckus(config-zone-ap-model-lan1)# vlan-members Type: Privileged	<i>members</i>	Sets the VLAN members.

Table 132 lists the related **zone-ap-registration-rule** configuration commands.

**TABLE 132** Commands related to ruckus(config-zone-ap-registration-rule)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-zone-ap-registration-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-ap-registration-rule)# do Type: Privileged		Executes the do command.
ruckus(config-zone-ap-registration-rule)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-registration-rule)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-registration-rule)# gps Type: Privileged	<i>latitude longitude distance</i>	Sets the GPS coordinates.
ruckus(config-zone-ap-registration-rule)# help Type: Privileged		Displays the help.
ruckus(config-zone-ap-registration-rule)# ip-range Type: Privileged	<i>ipip</i>	Sets the IP address range from and to IP address.
ruckus(config-zone-ap-registration-rule)# provision-tag Type: Privileged	<i>tag</i>	Sets the provision tags.
ruckus(config-zone-ap-registration-rule)# subnet Type: Privileged	<i>ipmask</i>	Sets the subnet IP address and subnet mask.
ruckus(config-zone-ap-registration-rule)# type Type: Privileged	[ <b>gps</b>   <b>provision-tag</b>   <b>ip-range</b>   <b>subnet</b> ]	Sets the rule type.

Table 133 lists the related **zone-ap-snmp-options** configuration commands.

**TABLE 133** Commands related to ruckus(config-zone-ap-snmp-options configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-snmp-options)# ap-snmp Type: Privileged		Enables AP SNMP.
ruckus(config-zone-ap-snmp-options)# do Type: Privileged		Executes the do command.
ruckus(config-zone-ap-snmp-options)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-ap-snmp-options)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-ap-snmp-options)# help Type: Privileged		Displays the help.
ruckus(config-zone-ap-snmp-options)# no Type: Privileged	<b>snmp-v2-community</b> <i>name</i> <b>snmp-v3-user</b> <i>name</i>	Disables the settings that have been configured with these commands.

**TABLE 133** Commands related to ruckus(config-zone-ap-snmp-options configuration) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-snmp-options)# snmp-v2-community Type: Privileged	<i>name</i>	Adds or updates the AP SNMPv2 community.
ruckus(config-zone-ap-snmp-options) # snmp-v3-user Type: Privileged	<i>name</i>	Adds or updates the AP SNMPv3 user.

Table 134 lists the related **zone-ap-snmp-options-snmp-v2-community** configuration commands.

**TABLE 134** Commands related to ruckus(config-zone-ap-snmp-options-snmp-v2-community configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# no Type: Privileged	<b>notification</b> <b>notification-target</b> <b>read</b> <b>write</b>	Disables the settings that have been configured with these commands.
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# notification Type: Privileged		Enable notification privilege.
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# notification-target Type: Privileged	<i>ip port</i>	Enables notification target configuration commands.
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# notification-type Type: Privileged	[ <b>inform</b>   <b>trap</b> ]	Sets the notification type.
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# read Type: Privileged		Enable the read privilege.
ruckus(config-zone-ap-snmp-options-snmp-v2-community)# write Type: Privileged		Enable the write privilege.

Table 135 lists the related **config-zone-ap-snmp-options-snmp-v3-user** configuration commands.

**TABLE 135** Commands related to ruckus(config-zone-ap-snmp-options-snmp-v3-user configuration)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# auth Type: Privileged		Sets SNMPv3 user authentication.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# no Type: Privileged	<b>notification</b> <b>notification-target</b> <b>read</b> <b>write</b>	Disables the settings that have been configured with these commands.

**TABLE 135** Commands related to ruckus(config-zone-ap-snmp-options-snmp-v3-user configuration) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# notification Type: Privileged		Enable notification privilege.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# notification-target Type: Privileged	<i>ip port</i>	Enables notification target configuration commands.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# notification-type Type: Privileged	<i>trap</i>	Sets the notification type.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# privacy Type: Privileged	<b>none</b> <i>des privacy-phrase</i> <i>aes privacy-phrase</i>	Sets the SNMPv3 user privacy.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# read Type: Privileged		Enable the read privilege.
ruckus(config-zone-ap-snmp-options-snmp-v3-user)# write Type: Privileged		Enable the write privilege.

The following table lists the related zone-block-client configuration commands.

**TABLE 136** Commands related to ruckus(config-zone-block-client)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-zone-block-client)# description Type: Privileged	<i>text</i>	Sets the description.

The following table lists the related zone-bonjour-fencing-policy configuration commands.

**TABLE 137** Commands related to ruckus(config-zone-bonjour-fencing-policy)

Syntax and Type	Parameters (If Any)	Description
ruckus(config-zone-bonjour-fencing-policy)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-bonjour-fencing-policy)# no Type: Privileged	<b>description</b> <i>rule rule index</i>	Sets to delete sub commands.
ruckus(config-zone-bonjour-fencing-policy)# rule fencing-policy-rule Type: Privileged	<i>index - rule index</i>	Sets the bonjour fencing rule.

Table 138 lists the related **zone-bonjour-policy** configuration commands.

**TABLE 138** Commands related to ruckus(config-zone-bonjour-policy)

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

Table 139 lists the related **zone-bonjour-fencing-policy-rule** configuration commands.

**TABLE 139** Commands related to ruckus(config-zone-bonjour-fencing-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-bonjour-fencing-policy-rule)# closest-ap Type: Privileged	<text>	Sets the configuration to the closest AP.
ruckus(config-zone-bonjour-fencing-policy-rule)# description Type: Privileged	<text>	Sets the description.
ruckus(config-zone-bonjour-fencing-policy-rule)# device-mac-list Type: Privileged	\$(value)	Lists the devices, which use MAC address.
ruckus(config-zone-bonjour-fencing-policy-rule)# device-type Type: Privileged		Sets the device type.
ruckus(config-zone-bonjour-fencing-policy-rule)# fence-range Type: Privileged		Sets the fence range.
ruckus(config-zone-bonjour-fencing-policy-rule)# no Type: Privileged	<i>device-mac-list</i>	Disables the configuration.
ruckus(config-zone-bonjour-fencing-policy-rule)# service-type Type: Privileged		Sets the service type.

Table 139 lists the related **zone-bonjour-policy-rule** configuration commands.

**TABLE 140** Commands related to ruckus(config-zone-bonjour-policy-rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-bonjour-policy-rule)# bridge-service Type: Privileged	<b>airdisk</b> <b>airplay</b> <b>airport-management</b> <b>airprint</b> <b>airtunes</b> <b>apple-file-sharing</b> <b>apple-mobile-devices</b> (Allows sync with iTunes over Wi-Fi) <b>appletv</b> <b>icloud-sync</b> <b>itunes-remote</b> <b>itunes-sharing</b> <b>open-directory-master</b> <b>optical-disk-sharing</b> <b>other</b> <b>screen-sharing</b> <b>secure-file-sharing</b> <b>secure-shell</b> <b>workgroup-manager</b> <b>www-http</b> <b>www-https</b> <b>xgrid</b>	Sets the bridge service.
ruckus(config-zone-bonjour-policy-rule)# do Type: Privileged		Executes the do command.
ruckus(config-zone-bonjour-policy-rule)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-bonjour-policy-rule)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-bonjour-policy-rule)# from-vlan Type: Privileged	<i>int</i>	Sets the from VLAN.
ruckus(config-zone-bonjour-policy-rule)# help Type: Privileged		Exits from the EXEC.
ruckus(config-zone-bonjour-policy-rule)# notes Type: Privileged	<i>text</i>	Sets the notes.
ruckus(config-zone-bonjour-policy-rule)# protocol Type: Privileged		Sets the bridge service when it is 'other'.

**TABLE 140** Commands related to ruckus(config-zone-bonjour-policy-rule) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-bonjour-policy-rule)# to-vlan Type: Privileged	<i>int</i>	Sets the VLAN.

The following table lists the related zone-client-isolation-whitelist configuration commands.

**TABLE 141** Commands related zone-client-isolation-whitelist configuration commands.

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-client-isolation- whitelist)# auto Type: Privileged		Enables the auto whitelist. Each entry must have an IP address in order to enable auto whitelist.
ruckus(config-zone-client-isolation- whitelist)# description Type: Privileged	<i>text</i>	Sets the description
ruckus(config-zone-client-isolation- whitelist)# entry Type: Privileged	<i>index</i> - entry index	Sets the client isolation entry.
ruckus(config-zone-bonjour-policy- rule)# no Type: Privileged	<b>auto</b> <b>description</b> <b>entry</b>	Sets to delete sub command.

Table 142 lists the related zone-device-policy configuration commands

**TABLE 142** Commands related to ruckus(config-zone-device-policy)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-device-policy)# default-action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the default action to either allow or block.
ruckus(config-zone-device-policy)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-device-policy)# do Type: Privileged		Executes the do command.
ruckus(config-zone-device-policy)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-device-policy)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-device-policy)# help Type: Privileged		Displays the help.
ruckus(config-zone-device-policy)# no policy-rule Type: Privileged	[ <i>device type</i> ]	Deletes the device policy rules.
ruckus(config-zone-device-policy)# policy-rule Type: Privileged		Sets the device policy.



Table 143 lists the related **zone-device-policy-policy-rule** configuration commands.

**TABLE 143** Commands related to ruckus (config-zone-device-policy-policy rule)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-device-policy-policy-rule)# action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the default action to either allow or block.
ruckus(config-zone-device-policy-policy-rule)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-device-policy-policy-rule)# downlink Type: Privileged	[ <i>Rate Limiting</i> ]: Rate limiting (mbps)	Sets the downlink rate limiting.
ruckus(config-zone-device-policy-policy-rule)# no vlan Type: Privileged		Resets the VLAN number.
ruckus(config-zone-device-policy-policy-rule)# type Type: Privileged	[ <i>Device Type</i> ]	Sets the device type.
ruckus(config-zone-device-policy-policy-rule)# uplink Type: Privileged	[ <i>Rate Limiting</i> ]: Rate limiting (mbps)	Sets the uplink rate limiting.
ruckus(config-zone-device-policy-policy-rule)# vlan Type: Privileged	[ <i>VLAN Number</i> ]	Sets the VLAN number.

Table 144 lists the related **zone-diffserv** configuration commands.

**TABLE 144** Commands related to ruckus(config-zone-diffserv)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-diffserv)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-diffserv)# do Type: Privileged		Executes the do command.
ruckus(config-zone-diffserv)# downlink-diffserv Type: Privileged	<i>value</i>	Enables the tunnel diffserv downlink and sets the diffserv number.
ruckus(config-zone-diffserv)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-diffserv)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-zone-diffserv)# help Type: Privileged		Displays the help.
ruckus(config-zone-diffserv)# no Type: Privileged	<b>description</b> <b>downlink-diffserv</b> <b>preserved-diffserv</b> <b>uplink-diffserv</b>	Disables various options.
ruckus(config-zone-diffserv)# preserved-diffserv Type: Privileged	<i>value</i>	Adds the preserved diffserv number.

**TABLE 144** Commands related to ruckus(config-zone-diffserv) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-diffserv)# uplink-diffserv Type: Privileged	<i>value</i>	Enables the tunnel diffserv uplink and sets the diffserv number.

Table 145 lists the related **config-zone-ethernet-port-profile** and **config-domain-zone-ethernet-port-profile** configuration commands.

**TABLE 145** Commands related to ruckus(config-zone-ethernet-port-profile and config-domain-zone-ethernet-port-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ethernet-port-profile)# 8021x Type: Privileged		Sets 802.1x.
ruckus(config-zone-ethernet-port-profile)# 8021x-enable Type: Privileged		Enable 802.1x
ruckus(config-zone-ethernet-port-profile)# auth-service Type: Privileged	<i>auth-service</i>	Authentication service.
ruckus(config-zone-ethernet-port-profile)# client-visibility Type: Privileged		Enables client visibility regardless of 802.1X authentication
ruckus(config-zone-ethernet-port-profile)# dvlan Type: Privileged		Enable dynamic VLAN
ruckus(config-zone-ethernet-port-profile)# guest-vlan Type: Privileged	<i>guest-vlan-id</i>	Guest VLAN
ruckus(config-zone-ethernet-port-profile)# mac-bypass Type: Privileged		Enable MAC authentication bypass
ruckus(config-zone-ethernet-port-profile)# no Type: Privileged	<b>8021x-enable</b> <b>acct-service</b> <b>client-visibility</b> <b>dvlan</b> <b>mac-bypass</b> <b>proxy-acct</b> <b>proxy-auth</b> <b>tunnel</b>	Disables the various options.
ruckus(config-zone-ethernet-port-profile)# proxy-acct Type: Privileged		Enables Proxy Accounting service.
ruckus(config-zone-ethernet-port-profile)# proxy-auth Type: Privileged		Enables Proxy Authentication service.
ruckus(config-zone-ethernet-port-profile)# supplicant Type: Privileged	<b>mac</b> <b>custom</b> <i>username password</i>	Set the supplicant.

**TABLE 145** Commands related to ruckus(config-zone-ethernet-port-profile and config-domain-zone-ethernet-port-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-ethernet-port-profile)# tunnel Type: Privileged		Enable tunnel
ruckus(config-zone-ethernet-port-profile)# type Type: Privileged		Set port type
ruckus(config-zone-ethernet-port-profile)# vlan-members Type: Privileged		Describe VLAN members.
ruckus(config-zone-ethernet-port-profile)# vlan-untag-id Type: Privileged	<i>vlan-untag-id</i>	Set the VLAN untag ID.

Table 146 lists the related **zone-guest access** configuration commands.

**TABLE 146** Commands related to ruckus (config-zone-guest-access)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-guest-access)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-guest-access)# do Type: Privileged		Executes the do command.
ruckus(config-zone-guest-access)# enable-terms-and-conditions Type: Privileged		Enables the web portal terms and conditions.
ruckus(config-zone-guest-access)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-guest-access)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-guest-access)# grace-period Type: Privileged	<i>minutes</i>	Sets the grace period.
ruckus(config-zone-guest-access)# help Type: Privileged		Displays the help.
ruckus(config-zone-guest-access)# language Type: Privileged		Sets the language.
ruckus(config-zone-guest-access)# logo Type: Privileged	<i>ftp-url</i> format: ftp:// <i>username:password@ip/file-path</i>	Sets the logo by setting the FTP URL.
ruckus(config-zone-guest-access)# name Type: Privileged	<i>name</i>	Sets the guess access service name.
ruckus(config-zone-guest-access)# no Type: Privileged	<b>enable-terms-and-conditions</b> <b>sms-gateway</b> <b>terms-and-conditions</b>	Disables the web portal terms and conditions.
ruckus(config-zone-guest-access)# session-timeout Type: Privileged	<i>minutes</i>	Sets the session timeout as per the specified minutes.

**TABLE 146** Commands related to ruckus (config-zone-guest-access) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-guest-access)# sms-gateway Type: Privileged	<i>disabled</i>	Sets the guest pass for the SMS gateway.
ruckus(config-zone-guest-access)# start-page Type: Privileged	<b>original</b> <b>redirect</b> <i>start-url</i>	Sets the start page.
ruckus(config-zone-guest-access)# terms-and-conditions Type: Privileged		Sets the web portal terms and conditions.
ruckus(config-zone-guest-access)# title Type: Privileged		Sets the title for the web portal.

Table 147 lists the related **zone-hotspot** configuration commands.

**TABLE 147** Commands related to ruckus(config-zone-hotspot)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-hotspot)# do Type: Privileged		Executes the do command.
ruckus(config-zone-hotspot)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-hotspot)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-hotspot)# grace-period Type: Privileged	<i>minutes</i>	Sets the EAP-SIM MAP version.
ruckus(config-zone-hotspot)# help Type: Privileged		Displays the help.
ruckus(config-zone-hotspot)# https-redirect Type: Privileged	<i>enable</i>	If enabled, the AP tries to redirect the HTTPS requests to the hotspot portal.
ruckus(config-zone-hotspot)# language Type: Privileged		Sets the portal language.
ruckus(config-zone-hotspot)# location-id Type: Privileged	<i>location-id</i>	Sets the location ID.
ruckus(config-zone-hotspot)# location-name Type: Privileged	<i>location-name</i>	Sets the location name.
ruckus(config-zone-hotspot)# logo Type: Privileged	<i>ftp-url</i>	Sets the logo.
ruckus(config-zone-hotspot)# logon-url Type: Privileged	<b>internal</b> <b>external</b> <i>logon-url</i> <i>logon-url</i> : Redirects unauthenticated user to the URL for authentication	Sets the logon model.

**TABLE 147** Commands related to ruckus(config-zone-hotspot) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot)# mac-address-format Type: Privileged		Sets the MAC address format.
ruckus(config-zone-hotspot)# name Type: Privileged		Renames the hotspot profile.
ruckus(config-zone-hotspot)# no Type: Privileged	<b>https-redirect</b> <b>show-terms-conditions</b> <b>walled-garden walled-garden-list</b>	Disables the commands.
ruckus(config-zone-hotspot)# session-timeout Type: Privileged	<i>minutes</i>	Sets the session timeout. Defined in minutes.
ruckus(config-zone-hotspot)# show-terms-conditions Type: Privileged		Shows the terms and conditions.
ruckus(config-zone-hotspot)# smart-client-support Type: Privileged	<b>enable</b> <b>none</b> <b>only instructions</b> : Only smart client allowed with instructions for enabling users to log on using the smart client application	Sets the smart client support.
ruckus(config-zone-hotspot)# start-page Type: Privileged	<b>original</b> <b>redirect start-url</b> <i>start-url</i> : Redirects to the defined URL	Sets the start page.
ruckus(config-zone-hotspot)# terms-conditions Type: Privileged	<i>terms</i>	Sets the terms and conditions.
ruckus(config-zone-hotspot)# title Type: Privileged	<i>title</i>	Sets the title.
ruckus(config-zone-hotspot)# walled-garden Type: Privileged	<i>walled-garden-list</i>	Enables walled garden. Allows unauthorized destinations. Comma-separated IP, IP range, CIDR and regular expression domain name list.

Table 148 lists the related **zone-hotspot20-venue-profile** configuration commands.

**TABLE 148** Commands related to ruckus(config-zone-hotspot20-venue-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-venue-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-hotspot20-venue-profile)# do Type: Privileged		Executes the do command.
ruckus(config-zone-hotspot20-venue-profile)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-zone-hotspot20-venue-profile)# exit Type: Privileged		Exits from the EXEC.

**TABLE 148** Commands related to ruckus(config-zone-hotspot20-venue-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-venue-profile)# help Type: Privileged		Displays the help.
ruckus(config-zone-hotspot20-venue-profile)# no Type: Privileged	<b>venue-name</b> <b>wan-at-capacity</b> <b>wan-sym-link</b>	Disables the commands.
ruckus(config-zone-hotspot20-venue-profile)# venue-category Type: Privileged	<b>unspecified unspecified</b> <b>assembly [ coffee-shop   passenger-terminal   restaurant   bar   arena   library   place-of-worship   emergencycoordination-center   museum   stadium   convention-center   unspecified   amphitheater   amusement-park   theater   zoo-or-aquarium ]</b>	Sets the venue category
ruckus(config-zone-hotspot20-venue-profile)# venue-category Type: Privileged	<b>business [ unspecified   orney-office   professional-office   research-and-development-facility   doctor-or-dentist-office   fire-station   post-office   bank ] factory-and-industrial [ unspecified   factory ]</b> <b>educational [ unspecified   school-primary   university-or-college   school-secondary ]</b> <b>factory-and-industrial [ unspecified   factory ]</b> <b>institutional [ hospital   group-home   unspecified   prison-or-jail   long-term-care-facility   alcohol-and-drugrehabilitation-center ]</b> <b>mercantile [ grocery-market   automotive-service-station   unspecified   retail-store   gas-station   shopping-mall ]</b> <b>residential [ unspecified   private-residence   hotel-or-motel   dormitory   boarding-house ]</b>	Sets the venue category
ruckus(config-zone-hotspot20-venue-profile) Type: Privileged	<b>storage unspecified</b> <b>utility-and-miscellaneous unspecified</b> <b>vehicular [ train   airplane   ferry   automobile-or-truck   bus   motor-bike   unspecified   ship-or-boat ]</b> <b>outdoor</b>	Sets the venue category.
ruckus(config-zone-hotspot20-venue-profile)# venue-names Type: Privileged	<i>language names</i>	Sets the venue-names.
ruckus(config-zone-hotspot20-venue-profile)# wan-at-capacity Type: Privileged		Sets the WAN capacity.

**TABLE 148** Commands related to ruckus(config-zone-hotspot20-venue-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-venue-profile)# wan-downlink-load Type: Privileged	<i>downlink-load</i> : Load between 1 and 255	Sets the WAN downlink load.
ruckus(config-zone-hotspot20-venue-profile)# wan-downlink-speed Type: Privileged	<i>speed</i>	Sets the WAN downlink speed in (kbps).
ruckus(config-zone-hotspot20-venue-profile)# wan-link-status Type: Privileged	[ <i>link-up</i>   <i>link-test</i>   <i>link-down</i> ]	Sets the link status.
ruckus(config-zone-hotspot20-venue-profile)# wan-load-duration Type: Privileged	<i>duration</i>	Sets the load measurement duration.
ruckus(config-zone-hotspot20-venue-profile)# wan-sym-link Type: Privileged		Enables symmetric link.
ruckus(config-zone-hotspot20-venue-profile)# wan-uplink-load Type: Privileged	<i>uplink-load</i>	Sets the WAN uplink load.
ruckus(config-zone-hotspot20-venue-profile)# wan-uplink-speed Type: Privileged	<i>speed</i> : Uplink speed in kbps	Sets the WAN uplink speed.

Table 149 lists the related **zone-hotspot20-wlan-profile** configuration commands.

**TABLE 149** Commands related to ruckus(config-zone-hotspot20-wlan-profile)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-wlan-profile)# access-network-type Type: Privileged		Sets the access network type.
ruckus(config-zone-hotspot20-wlan-profile)# asra Type: Privileged		Sets the ASRA profile.
ruckus(config-zone-hotspot20-wlan-profile)# asra-dns-redirect Type: Privileged	<i>url</i>	Sets the ASRA DNS redirection.
ruckus(config-zone-hotspot20-wlan-profile)# asra-http-redirect Type: Privileged		Sets the ASRA HTTP redirection.
ruckus(config-zone-hotspot20-wlan-profile)# asra-online-signup Type: Privileged	<i>ssid</i>	Sets the ASRA online signup.
ruckus(config-hotspot20-wlan-profile)# asra-terms-conditions Type: Privileged	<i>url</i>	Sets the ASRA terms and conditions.

**TABLE 149** Commands related to ruckus(config-zone-hotspot20-wlan-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-wlan-profile)# connect-capabilities Type: Privileged	[ <b>pptp</b>   <b>http</b>   <b>voip-6</b>   <b>ipsec-vpn</b>   <b>ikev2</b>   <b>ftp</b>   <b>tls</b>   <b>voip-17</b>   <b>icmp</b>   <b>ssh</b>   <b>esp</b> ] [ <b>open</b>   <b>unknown</b>   <b>closed</b> ]	Sets the connection capabilities.  pptp: Protocol Number:6 Port:1723 Protocol Name: Used by PPTP VPNs  http: Protocol Number:6 Port:80 Protocol Name: HTTP  voip-6: Protocol Number:6 Port:5060 Protocol Name: VoIP  ipsec-vpn: Protocol Number:17 Port:4500 Protocol Name: IPsec VPN  ikev2: Protocol Number:17 Port:500 Protocol Name:Used by IKEv2(IPsec VPN)  tls: Protocol Number:6 Port:443 Protocol Name:Used by TLS VPN  voip-17: Protocol Number:17 Port:5060 Protocol Name: Voip  icmp: Protocol Number:1 Port:0 Protocol Name:ICMP
ruckus(config-zone-hotspot20-wlan-profile)# connect-capabilities Type: Privileged	[ <b>pptp</b>   <b>http</b>   <b>voip-6</b>   <b>ipsec-vpn</b>   <b>ikev2</b>   <b>ftp</b>   <b>tls</b>   <b>voip-17</b>   <b>icmp</b>   <b>ssh</b>   <b>esp</b> ] [ <b>open</b>   <b>unknown</b>   <b>closed</b> ]	ssh: Protocol Number:6 Port:22 Protocol Name: SSH esp: Protocol Number:50 Port:0 Protocol Name: ESP  open: Open  unknown: Unknown  closed: Closed
ruckus(config-zone-hotspot20-wlan-profile)# cust-connect-capabilities Type: Privileged	<i>protocol-name protocol-number</i>	Creates or updates the custom connection capabilities.
ruckus(config-zone-hotspot20-wlan-profile)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-hotspot20-wlan-profile)# do Type: Privileged		Executes the do command.
ruckus(config-zone-hotspot20-wlan-profile)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-hotspot20-wlan-profile)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-hotspot20-wlan-profile)# help Type: Privileged		Displays the help.
ruckus(config-zone-hotspot20-wlan-profile)# identity-providers Type: Privileged	<i>identityProvider</i> <b>default</b>	Sets the identity providers.
ruckus(config-zone-hotspot20-wlan-profile)# internet-option Type: Privileged	<b>enable</b>	Enables the specified WLAN with Internet connectivity.



**TABLE 149** Commands related to ruckus(config-zone-hotspot20-wlan-profile) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-wlan-profile)# ipv4-address Type: Privileged	[ <b>port-restrict-address</b>   <b>single-nated-private-address</b>   <b>double-nated-private-address</b>   <b>port-restricted-addressdouble-nated-address</b>   <b>unknown</b>   <b>public-address</b>   <b>port-restricted-address-single-nated-address</b>   <b>not-available</b> ]	Sets the IPv4 address.
ruckus(config-zone-hotspot20-wlan-profile)# ipv6-address Type: Privileged	[ <b>not-available</b>   <b>unknown</b>   <b>available</b> ]	Sets the IPv6 address.
ruckus(config-zone-hotspot20-wlan-profile)# name Type: Privileged	<i>name</i>	Sets the hotspot 2.0 WLAN profile name.
ruckus(config-zone-hotspot20-wlan-profile)# no Type: Privileged	<b>asra</b> <b>asra-dns-redirect</b> <b>asra-http-redirect</b> <b>asra-online-signup</b> <b>asra-terms-conditions</b> <b>cust-connect-capabilities</b> <b>identity-providers</b> <b>internet-option</b>	Disables the commands.
ruckus(config-zone-hotspot20-wlan-profile)# operator Type: Privileged	<i>name</i>	Sets the operator name.

Table 150 lists the related **zone-hotspot20-wlan-profile** cust-connect-capabilities configuration commands.

**TABLE 150** Commands related to ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# do Type: Privileged		Executes the do command.
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# help Type: Privileged		Displays the help.
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# port Type: Privileged	<i>port</i>	Set the port number.

**TABLE 150** Commands related to ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities)# protocol Type: Privileged	<i>protocol</i>	Sets the protocol number.
ruckus(config-zone-hotspot20-wlan-profile-cust-connect-capabilities) status Type: Privileged	[ <b>closed</b>   <b>unknown</b>   <b>open</b> ]	Sets the status.

Table 151 lists the related **zone-l2-acl** configuration commands.

**TABLE 151** Commands related to ruckus(config-zone-l2-acl)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-l2-acl)# action Type: Privileged	[ <b>allow</b>   <b>block</b> ]	Sets the handling action to allow or block.
ruckus(config-zone-l2-acl)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-l2-acl)# mac Type: Privileged	<i>\${value}</i>	Sets the MAC value.
ruckus(config-zone-l2-acl)# no mac Type: Privileged	<i>\${value}</i>	Disables the MAC value.

Table 152 lists the related **zone-vlan-pooling** configuration commands.

**TABLE 152** Commands related to ruckus(config-domain-zone-vlan-pooling)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-vlan-pooling)# algo Type: Privileged	<b>mac-hash</b>	Sets the algorithm.
ruckus(config-zone-vlan-pooling)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-vlan-pooling)# do Type: Privileged		Executes the do command.
ruckus(config-zone-vlan-pooling)# end Type: Privileged		Ends the current configuration session and returns to the privileged EXEC mode.
ruckus(config-zone-vlan-pooling)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-vlan-pooling)# help Type: Privileged		Displays the help.
ruckus(config-zone-vlan-pooling# no Type: Privileged	<b>description</b> <b>pooling</b>	Disables various option
ruckus(config-zone-vlan-pooling)# pooling Type: Privileged	<b>range</b> <i>start-value end-value</i> : VLAN range <b>single</b> <i>value</i> : Single VLAN ID	Adds the VLAN pooling.

Table 153 lists the related **zone-web-authentication** configuration commands.

**TABLE 153** Commands related to ruckus (config-zone-web-authentication)

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

Table 154 lists the related **zone-wechat** configuration commands.

**TABLE 154** Commands related to ruckus (config-zone-wechat)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-wechat)# authentication-url Type: Privileged	<i>text</i> : Authentication URL	Sets Authentication URL
ruckus(config-zone-wechat)# black-list Type: Privileged	<i>text</i> : Black list	Sets black list.
ruckus(config-zone-wechat)# description Type: Privileged	<i>text</i> : Description	Sets description.
ruckus(config-zone-wechat)# dnat-destination Type: Privileged	<i>text</i> : DNAT destination	Sets DNAT destination.
ruckus(config-zone-wechat)# dnat-port-mapping Type: Privileged	<i>source dest</i> : Source and destination ports	Sets DNAT port mappings
ruckus(config-zone-wechat)# grace-period Type: Privileged	<i>minutes</i> : Grace Period minutes	Sets grace period
ruckus(config-zone-wechat)# no Type: Privileged	<b>dnat-port-mapping</b> <b>white-list</b>	Disable the options.
ruckus(config-zone-wechat)# whitelist Type: Privileged	<i>white-list</i> : Allowed unauthorized destinations, comma-separated IP, IP range, CIDR and regular expression Domain name list	Sets White list.

Table 155 lists the related **zone-wlan-group** configuration commands.

**TABLE 155** Commands related to ruckus(config-zone-wlan-group).

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-wlan-group)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-zone-wlan-group)# do Type: Privileged		Executes the do command.
ruckus(config-zone-wlan-group)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(config-zone-wlan-group)# exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-wlan-group)# help Type: Privileged		Displays the help.
ruckus(config-zone-wlan-group)# no Type: Privileged	<i>namewlan name</i>	Disables or removes the configuration
ruckus(config-zone-wlan-group)# wlan Type: Privileged	<i>name vlan vlanTag nasid nasid</i> <i>name nasid nasid vlan vlanTag</i> <i>name vlan vlanTag</i> <i>name nasid nasid</i> <i>name vlan-pooling vlanPooling</i> <i>name vlan-pooling vlanPooling nasid</i> <i>name</i>	Sets a WLAN in this group or overrides VLAN setting.

Table 156 lists the related **zone-wlan-scheduler** configuration commands.

**TABLE 156** Commands related to ruckus (config-zone-wlan-scheduler)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-wlan-scheduler)# description Type: Privileged	<i>text</i>	Sets the description,
ruckus(config-zone-wlan-scheduler)# no Type: Privileged	<b>description</b> <b>schedule-data</b> [ <i>weekday</i>   <i>empty</i> ] [ <i>start time value</i>   <i>empty</i> ] [ <i>end time value</i> ]   <i>weekday</i>	Disables the commands.
ruckus(config-zone-wlan-scheduler)# schedule-data Type: Privileged	[ <i>weekday</i>   <i>empty</i> ] [ <i>start time value</i>   <i>empty</i> ] [ <i>end time value</i> ] <i>weekday</i>	Sets the schedule table.

## zone-affinity

To create or update the vSZ-D zone affinity configuration, use the following command.

```
ruckus(config)# zone-affinity name
```

### Syntax Description

This command uses the following syntax:

*name*

vSZ-D Zone affinity profile name

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# zone-affinity VSD
ruckus(config-zone-affinity)# cache-cleanup
```

### Related Commands

The following table lists the related zone-affinity configuration commands.

**TABLE 157** Commands related to ruckus(config-zone-affinity)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-affinity)# allow-sess-on-acct-fail Type: Privileged		Allows session on accounting failure.
ruckus(config-zone-affinity)# auth Type: Privileged		Sets the SNMPv3 user authentication.
ruckus(config-zone-affinity)# cache-clean p Type: Privileged	<i>text</i>	Enables the cache cleanup setting.
ruckus(config-zone-affinity)# description Type: Privileged	<i>text</i>	Sets the description.
ruckus(config-zone-affinity)# do Type: Privileged		Executes the do command.
ruckus(config-zone-affinity) # ecgi-in-gtpv2-msg Type: Privileged		To include ECGI in GTPV2 messages.
ruckus(config-zone-affinity)# enable Type: Privileged		Allows outbound traffic
ruckus(config-zone-affinity) # end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.

## Configuration Commands (s - z)

### zone-affinity

**TABLE 157** Commands related to ruckus(config-zone-affinity) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-affinity) # error Type: Privileged		Sets the error code.
ruckus(config-zone-affinity)# error- message Type: Privileged		Sets the error message.
ruckus(config-zone-affinity) # exit Type: Privileged		Exits from the EXEC.
ruckus(config-zone-affinity)# expiration-interval Type: Privileged		Sets the expiration interval.
ruckus(config-zone-affinity) # fast-reauth Type: Privileged		Enables fast re-authentication support.
ruckus(config-zone-affinity)# gtp-nsapi Type: Privileged		Sets the GTP network service access point identifier.
ruckus(config-zone-affinity)# help Type: Privileged		Displays the help.
ruckus(config-zone-affinity)# host Type: Privileged		Sets the host.
ruckus(config-zone-affinity) # imei-ie-in-gtp-msg Type: Privileged		Includes the IMEI IE in GTP messages.
ruckus(config-zone-affinity)# ip Type: Privileged		Sets the IP address.
ruckus(config-zone-affinity)# ip-rule Type: Privileged		Allows IP table profile.
ruckus(config-zone-affinity) # local-network-indicator Type: Privileged		Sets the local network indicator.
ruckus(config-zone-affinity)# mcc Type: Privileged		Sets the MCC (mobile country code).
ruckus(config-zone-affinity)# mnc Type: Privileged		Sets the MNC (mobile network code).
ruckus(config-zone-affinity)# name Type: Privileged		Sets the SCI profile.
ruckus(config-zone-affinity)# nat-ip-translation Type: Privileged		Sets the NAT IP translation in FTP passive mode.
ruckus(config-zone-affinity)# ndc Type: Privileged		Sets the NDC (network destination code).
ruckus(config-zone-affinity)# name Type: Privileged		Sets the SCI profile.
ruckus(config-zone-affinity)# no Type: Privileged	<i>ip-rule</i>	Disables and deletes commands.
ruckus(config-zone-affinity)# password Type: Privileged		Sets the password.
ruckus(config-zone-affinity)# pasv-port Type: Privileged		Sets the dynamic data transmission port range.
ruckus(config-zone-affinity)# pattern Type: Privileged		Sets the user agent pattern.
ruckus(config-zone-affinity) # policy Type: Privileged		Sets the ACL policy.
ruckus(config-zone-affinity)# port Type: Privileged		Sets the port.

**TABLE 157** Commands related to ruckus(config-zone-affinity) (continued)

Syntax and Type	Parameters (if any)	Description
ruckus(config-zone-affinity) # read Type: Privileged		Enables the read privilege.
ruckus(config-zone-affinity) # scg-rai-in-gtpv2-msg Type: Privileged		Includes SCG-RAI in GTPV2 messages.
ruckus(config-zone-affinity) # scg-sai-in-gtpv2-msg Type: Privileged		Includes SCG-SAI in GTPV2 messages.
ruckus(config-zone-affinity)# secret Type: Privileged		Adds EAP-SIM secret key.
ruckus(config-zone-affinity)# shared-secret Type: Privileged		Sets the shared secret for the primary RADIUS server.
ruckus(config-zone-affinity)# system-id Type: Privileged		Sets the system identifier.
ruckus(config-zone-affinity)# tai-in-gtpv2-msg Type: Privileged		Includes TAI in GTPV2 messages.
ruckus(config-zone-affinity)# test Type: Privileged	<i>username</i>	Tests the RADIUS server.
ruckus(config-zone-affinity)# type Type: Privileged		Sets the administrator authentication type.
ruckus(config-zone-affinity)# unit Type: Privileged	<i>radiustacacs</i>	Sets the thresholdunit.
ruckus(config-zone-affinity) # user Type: Privileged	<i>name</i>	Sets the user.
ruckus(config-zone-affinity) # user-id-privacy Type: Privileged		Enables the user identifier privacy support.
ruckus(config-zone-affinity)# value Type: Privileged		Sets the threshold value.
ruckus(config-zone-affinity)# write Type: Privileged		Enables the write privilege.

## zone-template

To create or update the zone template configurations, use the following command.

```
ruckus(config)# zone-template
```

### Syntax Description

This command uses the following syntax:

```
import ftp-url
```

**import**

Import AP Zone Template from FTP server

*ftp-url*

FTP URL, format: `ftp://username:password@ftp-host/file-path`

```
name extract name
```

*name*

AP Zone Template name

**extract**

Extract AP Zone Template from an existing AP Zone

*name*

AP Zone name

```
name export ftp-url
```

*name*

AP Zone Template name

**export**

Export AP Zone Template to FTP server

*ftp-url*

FTP URL, format: `ftp://username:password@ftp-host[/dir-path ]` P URL, format: `ftp://:@[/]`

### Default

This command has no default settings.

### Command Mode

Config

### Example

```
ruckus(config)# zone-template acct-profile
```



# Debug Commands

---

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## debug

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

**ruckus(debug)#**

## Example

```
ruckus# debug
```

## ap-cli

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

```
ruckus(debug)# ap-cli
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # ap-cli
```

### Related Commands

Table 158 lists the related **debug ap-cli** configuration commands.

**TABLE 158** Commands related to ruckus(debug-ap-cli)

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

## ap-routine-config-interval

To set the AP routine configuration interval, use the following command.

```
ruckus(debug)# ap-routine-config-interval seconds
```

### Syntax Description

This command uses the following syntax:

*seconds*

Sets all APs to fetch configuration in the specified seconds

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # ap-routine-config-interval  
ruckus(debug) # ap-routine-config-interval 100
```

## ap-routine-status-interval

To set the AP routine status interval, use the following command.

```
ruckus(debug)# ap-routine-status-interval slowdownspeedup
```

### Syntax Description

This command uses the following syntax:

*slowdown*

Sets all the APs to report status in 900 seconds interval

*speedup*

Sets all the APs to report status in 180 seconds interval

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug)# ap-routine-status-interval  
ruckus(debug)# ap-routine-status-interval slowdown
```

## data-plane

To retrieve dataplane information, use the following command:

```
ruckus(debug)# data-plane name
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug)# data-plane dp
ruckus(debug-data-plane)#
```

### Related Commands

[Table 159](#) lists the related **debug data-plane** configuration commands.

**TABLE 159** Commands related to ruckus(debug-data-plane)

Syntax and Type	Parameters (if any)	Description
ruckus(debug-data-plane)# do Type: Privileged		Executes the do command.
ruckus(debug-data-plane)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(debug-data-plane)# exit Type: Privileged		Exits from the EXEC.
ruckus(debug-data-plane)# help Type: Privileged		Displays the help.
ruckus(debug-data-plane)# run Type: Privileged	<i>dp commands</i> For example datacore dump_ifs	Executes dataplane commands.

## 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

```
ruckus(debug) # diagnostic
```

### Related Commands

Table 160 lists the related debug diagnostic commands.

**TABLE 160** Commands related to ruckus(debug-diagnostic)

Syntax and Type	Parameters (If Any)	Description
ruckus(debug-diagnostic)# delete Type: Privileged	<i>name</i>	Deletes a diagnostic script. Specify the script name.
ruckus(debug-diagnostic)# execute Type: Privileged	<i>name params</i>	Executes a diagnostic script. Specify the script name.
ruckus(debug-diagnostic)# show Type: Privileged	<i>name</i>	Shows the diagnostic script. Specify the script name and its parameters.
ruckus(debug-diagnostic)# schedule Type: Privileged	<i>name</i> : Script name <i>Cron-Time-Spec</i> : Cron time spec <i>args</i> : Arguments	Schedule a script to run with arguments.
ruckus(debug-diagnostic)# upload Type: Privileged	<i>ftp-url</i> : FTP URL format is: <i>ftp://username:password@ftp-host/file-path</i>	Uploads a diagnostic script from a remote FTP server.
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.

**TABLE 160** Commands related to ruckus(debug-diagnostic) (continued)

Syntax and Type	Parameters (If Any)	Description
ruckus(debug-diagnostic)# exit Type: Privileged		Exits from the EXEC.
ruckus(debug-diagnostic)# help Type: Privileged		Displays the help.

Debug Commands  
do

## 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

```
ruckus(debug) # do
```



## dp-customized-config

To set customized data plane configuration commands.

```
ruckus(debug)# dp-customized-config nameall
```

### Syntax Description

This command has the following arguments or keywords:

**all**

All data planes

*name*

Data plane name

*commandStr*

All customized configuration

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug)# dp-customized-config all <commandStr>  
ruckus(debug)# dp-customized-config <name> <commandStr>
```

Debug Commands  
end

## 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

```
ruckus (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

```
ruckus(debug) # exit
```

## export log

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

```
ruckus(debug)# export log 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 name**

Application name

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(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

```
ruckus(debug) # help
```

## Debug Commands

no dp-customized-config

# no dp-customized-config

To disable customized data plane configuration commands.

```
ruckus(debug)# no dp-customized-config
```

## Syntax Description

This command has the following arguments or keywords:

**all**

All data planes

*name*

Data plane name

## Default

This command has no default settings.

## Command Mode

Debug

## Example

```
ruckus(debug)# no dp-customized-config all  
ruckus(debug)# no dp-customized-config <name>
```

## no schedule

To unschedule a script, use the following command:

```
ruckus(debug)# no schedule
```

### Syntax Description

This command the following syntax:

*name*

Script name

*Cron-Time-Spec*

Cron time spec

*args*

Arguments

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug)# no schedule
```

## 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

```
ruckus(debug) # no screen-pagination
```



## no sha1

To disable SHA1 support, use the following command.

```
ruckus(debug)# no sha1
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # no sha1
```

Debug Commands  
no tlv1

## no tlv1

To disable tlv1 support, use the following command.

```
ruckus(debug)# no tlv1
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Debug

## Example

```
ruckus(debug) # no tlv1
```

## no strict-wfa-compliance

To disable WFA compliance, use the following command:

```
ruckus(debug)# no strict-wfa-compliance
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Usage Guidelines

It is highly recommended that the user contacts Ruckus customer support before enabling or disabling this CLI command.

### Example

```
ruckus(debug)# no strict-wfa-compliance
```

## reindex-elasticsearch-all

To reindex all elastic search data, use the following command:

```
ruckus(debug)# reindex-elasticsearch-all
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # reindex-elasticsearch-all
```

## scan-jmxport

To scan JMX port, use the following command.

```
ruckus(debug)# scan-jmxport ip
```

### Syntax Description

This command uses the following syntax:

*ip*

Specify the IP address.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # scan-jmxport  
ruckus(debug) # scan-jmxport 10.128.70.82
```

## 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

```
ruckus(debug) # screen-pagination
```

# sha1

To enable Secure Hash Algorithm 1 (SHA1) support, use the following command:

```
ruckus(debug)# sha1
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Debug

## Example

FIGURE 12 sha1 Example

```
setup-1(debug)# sha1
Stop service tomcat done!
Start service tomcat done!
      total      used      free      shared      buffers      cached
Mem:    49361520  31806876  17554644      32860      206628      8269096
-/+ buffers/cache:  23331152  26030368
Swap:      0          0          0

Stop service communicator done!
Start service communicator done!
      total      used      free      shared      buffers      cached
Mem:    49361520  31127868  18233652      32800      206628      8273104
-/+ buffers/cache:  22648136  26713384
Swap:      0          0          0

Please make sure to enable/disable sha1 in all cluster nodes.
Successful operation
```

## show

To enable the screen pagination, use the following command:

```
ruckus(debug)# screen-pagination ap-subnet-discovery-status | diagnostic-script name | schedule | sslv3-state | strict-wfa-compliance-state
```

## Syntax Description

This command uses the following syntax:

### **ap-subnet-discovery-status**

Shows the AP subnet discovery service status

### **diagnostic-script *name***

Shows the diagnostic scripts

### **schedule**

Show the scheduled scripts

### **sslv3-state**

Shows the SSLv3 support state

### **strict-wfa-compliance-state**

Shows the WFA compliance state

## Default

This command has no default settings.

## Command Mode

Debug

## Example

```
ruckus(debug) # show ap-subnet-discovery-status
enabled 1
ruckus(debug) # show sslv3-state
SLv3 support: disabled
```



## show dp-customized-config

To display customized data plane configuration commands.

```
ruckus(debug)# show dp-customized-config
```

### Syntax Description

This command has the following arguments or keywords:

**all**

All data planes

*name*

Data plane name

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug)# show dp-customized-config all
```

## show es-cat-aliases

Shows Elastic Search (ES) concatenated (cat) aliases information about currently configured aliases to indices including filter and routing information.

**ruckus(debug)# show es-cat-aliases**

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-aliases
alias                               index
filter                               routing.index routing.search

alias_storagedynamicindex_all       storagedynamicindex
-                                     -
alias_storagedynamicindex_latest    storagedynamicindex
-                                     -
alias_dpreportedstats_all            dpreportedstats_20190604
-                                     -
alias_clientreport_all               clientreport_20190628
-                                     -
```

## show es-cat-health

Shows Elastic Search (ES) concatenated (cat) lists a simple status on the health of the node.

```
ruckus(debug)# show es-cat-health
```

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-health
epoch timestamp cluster status node.total node.data shards pri relo init unassign pending_tasks
max_task_wait_time active_shards_percent

1561701647 06:00:47 SZ300-63_54 green 1 1 308 308 0 0 0 0
- 100.0%
- - -
```

## show es-cat-indices

Shows Elastic Search (ES) concatenated (cat) provides a cross-section of each index. This information spans nodes with how many shards make up an index, the number of docs, deleted docs, primary store size, and total store size (all shards including replicas)

**ruckus(debug)# show es-cat-indices**

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-indices
health status index                uuid                pri rep
doc
  s.count docs.deleted store.size pri.store.size
green  open  audit_20190606                nHkkgCkkSp2JgRZQ9AG_XQ  2
0
      67      0      56kb      56kb
green  open  radioreport_20190628          UK-3GnCXtm-BQMcgNLS51g  2
0
      710     0      177.1kb   177.1kb
green  open  historicalclientstatus_20190626 PEXu4zy0Sc-IiZ11nZXuCW  2
0
      2      0      23.9kb    23.9kb
```

## show es-cat-master

Shows Elastic Search (ES) concatenated (cat) master's node identify, bound IP address, and node name.

```
ruckus(debug)# show es-cat-master
```

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-master
id          host      ip        node
C_ygCPQaTEmbDs2nsc12vg 10.1.95.63 10.1.95.63 8146bc75-5a79-4c90-930e-8a9143aa7688
-          -
```

## show es-cat-nodes

Shows Elastic Search (ES) concatenated (cat) the node topology.

**ruckus(debug)# show es-cat-nodes**

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-nodes
ip          heap.percent ram.percent cpu load_1m load_5m load_15m node.role master name
10.1.95.63  30                33 23  15.21  16.34   16.11 md *
8146bc75-5a79-4c90-930e-8a9143aa7688
```

## show es-cat-shards

Shows Elastic Search (ES) concatenated (cat) shards information. The shards command is the detailed view of which node contains which shards. It lists the primary or replica node along with the number of docs, the bytes it takes on disk, and the node where it's located.

```
ruckus(debug)# show es-cat-shards
```

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
SZ100-Node1(debug)# show es-cat-shards
index          shard prirep state docs store ip          node
aptunnelstatus    1     p   STARTED    1   9.9kb 10.1.95.63 8146bc75-5a79-4c90-930e-8a9143aa7688
aptunnelstatus    0     p   STARTED    0   160b 10.1.95.63 8146bc75-5a79-4c90-930e-8a9143aa7688
audit_20190627    1     p   STARTED   22  22.7kb 10.1.95.63 8146bc75-5a79-4c90-930e-8a9143aa7688
-                -
```

## show sha1-state

To show the Secure Hash Algorithm 1 (SHA1) support state, use the following command.

```
ruckus(debug)# show sha1-state
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # show sha1-state
```



## show strict-wfa-compliance-state

To view the WFA compliance state, use the following command.

```
ruckus(debug)# show strict-wfa-compliance-state
```

### NOTE

It is highly recommended that the user contacts Ruckus customer support before enabling / disabling this CLI command.

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Debug

## Example

```
ruckus(debug)# show strict-wfa-compliance-state
```

## show tlsv1-state

To view tlsv1 support state, use the following command.

```
ruckus(debug)# show tlsv1-state
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # show tlsv1-state
```

## ssl3

To enable the SSLV3 support, use the following command:

```
ruckus(debug)# ssl3
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # ssl3  
Successful operation
```

## strict-wfa-compliance

To enable WFA compliance, use the following command:

```
ruckus(debug)# no strict-wfa-compliance
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Usage Guidelines

It is highly recommended that the user contacts Ruckus customer support before enabling / disabling this CLI command.

### Example

```
ruckus(debug)# strict-wfa-compliance
```

## tlsv1

To enable tlsv1 support, use the following command.

```
ruckus(debug)# tlsv1
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Debug

### Example

```
ruckus(debug) # tlsv1
```



# Setup Commands

---

- [rbd..... 431](#)
- [rbddump..... 432](#)
- [setup..... 433](#)

## rbd

To setup the board data of the controller, use the following command:

```
ruckus# rbd board model serial mac mac-count customer
```

## Syntax Description

This command has the following syntax:

<i>board</i>	Board name
<i>model</i>	Model name
<i>serial</i>	Serial number
<i>mac</i>	MAC Address
<i>mac-count</i>	MAC Count
<i>customer</i>	Customer name

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# rbd name
```

## Setup Commands

rbddump

# rbddump

To display the board data of the controller, 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

```
ruckus# rbddump
name: Gallus
magic: 35333131
cksum: 6dd
rev: 5.4
Serial#: 00000089
Customer ID: ruckus
Model: SCG1k
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 00:1D:2E:89:00:00
major: 0
minor: 0
pciId: 0000
dblade0: yes 00:1D:2E:89:00:10
dblade1: yes 00:1D:2E:89:00:18
eth0: yes 00:1D:2E:89:00:00
eth1: yes 00:1D:2E:89:00:01
eth2: - 00:1D:2E:89:00:02
eth3: - 00:1D:2E:89:00:03
eth4: - 00:1D:2E:89:00:04
eth5: - 00:1D:2E:89:00:05
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
watchdog: enabled
```



## setup

Sets up the controller 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

```
ruckus# setup

#####
Start controller setup process:
#####

Network is not setup.

*****
IP Version Support
*****
1. IPv4 only
2. IPv4 and IPv6
*****
Select address type: (1/2) 2

*****
IPv4 address setup for Control interface
*****
1. Manual
2. DHCP
*****
Select IP configuration: (1/2) 2

*****
IPv4 address setup for Cluster interface
*****
1. Manual
2. DHCP
*****
Select IP configuration: (1/2) 2

*****
IPv4 address setup for Management interface
*****
1. Manual
2. DHCP
*****
Select IP configuration: (1/2) 2

*****
```

## Setup Commands

setup

```
Default Gateway Interface
*****
1. Control
2. Cluster
3. Management
*****
Select gateway interface: (1/2/3) 3
Primary DNS: 172.17.17.16
Secondary DNS:

*****
IPv6 address setup for Control interface
*****
1. Manual
2. DHCPv6
*****
Select IPv6 configuration: (1/2) 2

*****
IPv6 address setup for Management interface
*****
1. Manual
2. DHCPv6
*****
Select IPv6 configuration: (1/2) 2

*****
IPv6 Default Gateway Interface
*****
1. Control
2. Management
*****
Select IPv6 gateway interface: (1/2) 1
Primary IPv6 DNS:
Secondary IPv6 DNS:

*****
Current Network Settings (Before Applying)
*****
IP Version Support Settings:
*****
IP Version Support   : IPv4 and IPv6

Interface IPv4 settings:
*****
Control:
*****
IP Type           : DHCP
IP Address        : 192.168.2.53
Netmask           : 255.255.255.0
Gateway           : 192.168.2.219

*****
Cluster:
*****
IP Type           : DHCP
IP Address        : 192.168.100.88
Netmask           : 255.255.255.0
Gateway           :

*****
Management:
*****
IP Type           : DHCP
IP Address        : 172.17.25.55
Netmask           : 255.255.255.0
Gateway           :
Default Gateway   : yes

*****
DNS Server Settings:
```

```

*****
Primary DNS Server   : 172.17.17.16
Secondary DNS Server :

Interface IPv6 settings:
*****
Control:
*****
IP Type              : DHCPv6
IP Address           :
Gateway Type        : RA
Gateway             :
Default Gateway     : yes

*****
Management:
*****
IP Type              : DHCPv6
IP Address           :
Gateway Type        : RA
Gateway             :

*****
DNS Server Settings:
*****
Primary DNS Server   :
Secondary DNS Server :
*****
Enter 'y' to apply, 'n' to modify
Do you want to apply the settings? (y/n)
Please wait while system configures the network.
It may take a few minutes...

*****
Current Network Settings (After Applying)
*****
IP Version Support Settings:
*****
IP Version Support   : IPv4 and IPv6

Interface IPv4 settings:
*****
Control:
*****
IP Type              : DHCP
IP Address           : 192.168.2.53
Netmask              : 255.255.255.0
Gateway             :

*****
Cluster:
*****
IP Type              : DHCP
IP Address           : 192.168.100.88
Netmask              : 255.255.255.0
Gateway             :

*****
Management:
*****
IP Type              : DHCP
IP Address           : 172.17.25.55
Netmask              : 255.255.255.0
Gateway             : 172.17.25.1
Default Gateway     : yes

*****
DNS Server Settings:
*****
Primary DNS Server   : 172.17.17.16
Secondary DNS Server :

```

## Setup Commands

setup

```
Interface IPv6 settings:
*****
Control:
*****
IP Type           : DHCPv6
IP Address        : fccc:192:168:2::eba/128
Gateway Type     : RA
Gateway          : fe80::20c:29ff:fef9:7e85
Default Gateway  : yes

*****
Management:
*****
IP Type           : DHCPv6
IP Address        : fccc:172:17:25::705/128
Gateway Type     : RA
Gateway          : fe80::20c:29ff:fef9:7e85

*****
DNS Server Settings:
*****
Primary DNS Server :
Secondary DNS Server :
*****
Enter 'y' to accept, 'n' to modify
Accept these settings and continue? (y/n) y
```

```
SCG# setup
#####
Start SCG setup process:
#####
Current Network Settings
*****
IP Version Support Settings:
*****
IP Version Support : IPv4 and IPv6
```

```
Interface IPv4 settings:
*****
Control:
*****
IP Type           : DHCP
IP Address        : 192.168.2.53
Netmask          : 255.255.255.0
Gateway          :

*****
Cluster:
*****
IP Type           : DHCP
IP Address        : 192.168.100.88
Netmask          : 255.255.255.0
Gateway          :

*****
Management:
*****
IP Type           : DHCP
IP Address        : 172.17.25.55
Netmask          : 255.255.255.0
Gateway          : 172.17.25.1
Default Gateway  : yes
```

```
*****
DNS Server Settings:
*****
Primary DNS Server : 172.17.17.16
Secondary DNS Server :

Interface IPv6 settings:
```

```

*****
Control:
*****
IP Type           : DHCPv6
IP Address        : fccc:192:168:2::eba/128
Gateway Type     : RA
Gateway          : fe80::20c:29ff:fef9:7e85
Default Gateway  : yes

*****
Management:
*****
IP Type           : DHCPv6
IP Address        : fccc:172:17:25::705/128
Gateway Type     : RA
Gateway          : fe80::20c:29ff:fef9:7e85

*****
DNS Server Settings:
*****
Primary DNS Server :
Secondary DNS Server :
*****
Do you want to setup network? (y/n) n
(C)reate a new cluster or (J)oin an exist cluster (c/j): c
Cluster Name (cluster name can contain letters (a-z, A-Z), numbers (0-9), and dashes (-)): ruckus-
cluster-1
Controller Description: ruckus controller

*****
Create/Join       : create
DISCOVERY PROTOCOL: tcp
Cluster Name     : ruckus-cluster-1
Blade ID        : 83405b79-9286-4b57-8701-c7ecddf27c40
DESCRIPTION     : ruckus controller
*****
Are these correct (y/n): y
Enter the controller name of the blade ([a-zA-Z0-9-]): ruckus-controller
Is this controller behind NAT? (y/n) n
System UTC Time: 2018-02-06 07:39:53 UTC
NTP Server ([a-zA-Z0-9-.]): [ntp.ruckuswireless.com]
Check if NTP server [ntp.ruckuswireless.com] is reachable...
System time after synchronization: 2018-02-06 07:40:01 UTC
Convert ZoneDirector APs in factory settings to SCG APs automatically (y/n) [N]
Reset admin's password!
Enter admin password:
Enter admin password again:
Enter the CLI enable command password:
Enter the CLI enable command password again:
Reset admin's password done!
Setup configurations done. Starting setup process after 5 seconds...
/etc/init.d/snmpd restart
New hostname: ruckus-controller
Change admin password done!

*****
Check installation status
*****
Wait for cluster config operation start!
Wait for cluster config operation start!
Wait for cluster config operation start!
Wait for cluster config operation start!
Bootstrapping, Tue Feb 06 07:40:33 UTC 2018
Blade Channel Opened, Tue Feb 06 07:40:36 UTC 2018
Configurer Channel Opened, Tue Feb 06 07:40:46 UTC 2018
Cassandra Started, Tue Feb 06 07:41:59 UTC 2018
ElasticSearch Started, Tue Feb 06 07:43:08 UTC 2018
Cassandra Initialized, Tue Feb 06 07:47:31 UTC 2018
Certificate and Root Key created, Tue Feb 06 07:49:02 UTC 2018
SCG Apps Started, Tue Feb 06 08:03:58 UTC 2018
Available, Tue Feb 06 08:04:13 UTC 2018

```

## Setup Commands

setup

```
[#####]100%
% System setup is finished. The current CLI session will be terminated. Please login again.
```

### NOTE

At this point, log on to the controller CLI, and then run the setup command again.

```
ruckus# setup
#####
Start SCG setup process:
#####
Current network settings:
*****
Control (AP/Dataplane):
*****
IP TYPE : dhcp
IP Address : 10.2.6.231
Netmask : 255.255.0.0
Gateway : 10.2.0.1
Default Gateway : no
Primary DNS Server : 172.17.17.16
Secondary DNS Server : 168.95.1.1
*****
*****
Cluster:
*****
IP TYPE : dhcp
IP Address : 10.2.6.229
Netmask : 255.255.0.0
Gateway : 10.2.0.1
Default Gateway : no
Primary DNS Server : 172.17.17.16
Secondary DNS Server : 168.95.1.1
*****
*****
Management (Web):
*****
IP TYPE : dhcp
IP Address : 10.2.6.230
Netmask : 255.255.0.0
Gateway : 10.2.0.1
Default Gateway : yes
Primary DNS Server : 172.17.17.16
Secondary DNS Server : 168.95.1.1
*****
*****
Server need to restart network after network setting.
Do you want to setup network? [YES/no]: no
(C)reate a new cluster or (J)oin an exist cluster: (c/j) c
Cluster Name ([a-zA-Z0-9_-]): test_cluster
Controller Description: test_cluster
*****
Create/Join : create
DISCOVERY PROTOCOL: tcp
Cluster Name : test_cluster
Blade ID : f7585769-6dd7-4e63-aa2c-e6da76501680
DESCRIPTION : test_cluster
*****
Are these correct? (y/n): y
Enter the controller name of the blade([a-zA-Z0-9_-]): test_cluster
NTP Server ([a-zA-Z0-9_-]): [pool.ntp.org]
Reset admin's password!
Enter admin password:
Enter admin password again:
Enter the enable password:
Enter the enable password again:
Reset admin's password done!
stty: standard input: Invalid argument
New hostname: test_cluster
Change admin password done!
*****
Check SCG installation status
*****
```

```
Wait for cluster config operation start!  
Wait for cluster config operation start!  
Wait for cluster config operation start!  
Wait for cluster config operation start!  
Bootstrapping, Tue Dec 18 15:25:32 GMT 2012  
Blade Channel Jointed, Tue Dec 18 15:25:34 GMT 2012  
Configurer Channel Jointed, Tue Dec 18 15:25:43 GMT 2012  
Cassandra Started, Tue Dec 18 15:26:03 GMT 2012  
Cassandra Initialized, Tue Dec 18 15:27:14 GMT 2012  
First Time Initialization Process Done, Tue Dec 18 15:28:02 GMT 2012  
Available, Tue Dec 18 15:29:47 GMT 2012
```





# Show Commands

---

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## Show Commands

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## Introduction

This chapter describes the commands that you can use to view information about the various components of controller. The following table lists the various Show commands.

### NOTE

Use the **do show** command to use show commands in either user or privileged mode.

## 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

**Show Commands**  
show admin-activity

## Example

```
ruckus# show admin-activity scg_admin
```

## 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 | source [ cluster | client | ap | mvno | scg ] [ data-plane | control-plane ] name
```

**source**

Filtered by Source

**cluster**

Cluster

**client**

Client

**ap**

Access Point

**mvno**

MVNO system

**scg**

SCG system

**data-plane**

Data Plane

**control-plane**

Control Plane

*name*

Plane name

**category** *alarm-category*

Alarm category

**category**

Filtered by alarm category

**AP\_State\_Change**

**Accounting**

**Authentication**

**Authorization**

**C\_D\_Interface n**

**Cluster**

**Configuration**

**Dataplane**

Show Commands  
show alarm

**Ga\_Interface**

**Gn\_S2a\_Interface**

**Gr\_Interface**

**IPMI**

**License**

**System**

**Threshold**

**Tunnel**

Access Point

**control-plane** *name*

**control-plane**

Control Plane

*name*

Plane name

**data-plane** *name*

**data-plane**

Data Plane

*name*

Plane name

[ **ap-mac** | **zone** ] *value*

**ap-mac**

AP MAC address

**zone**

AP Zone name

*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

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

## Show Commands

show ap

# show ap

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

```
ruckus# show ap mac mesh [ neighbors | topology ]
```

## Syntax Description

This command uses the following syntax:

### **mac**

Displays the specified MAC address

### **neighbors**

Displays the AP mesh neighbors

### **topology**

Displays the AP mesh topology

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show ap 84:18:3A:39:C8:50 mesh  
neighbors      Show AP Mesh neighbors  
topology       Show AP Mesh topology
```



# show ap-certificate-status

To show the status of AP certificates, use the following command:

```
ruckus# show ap-certificate-status [ request | update ]
```

## Syntax Description

This command uses the following syntax:

**request**

Shows AP certificate request status

**update**

AP certificate update status

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show ap-certificate-status
```

## 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 [ data-throughput | client-count | client-association ] ap period [ 30-d | 8-h | 24-h | 7-d ]
```

*mac*

AP MAC address

**type**

Statistics data type

**data-throughput**

Data throughput

**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 [ data-throughput | 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

**data-throughput**

Data throughput

**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

**type** [ **client-count** | **client-association** | **data-throughput** ] **zone** *name* **wlan** *ssid* **period** [ **8-h** | **24-h** | **7-d** | **30-d** ]

*mac*  
AP MAC address

**type**  
Statistics data type

**client-count**  
Client count

**client-association**  
Client associations

**data-throughput**  
Data throughput

**zone**  
AP Zone

*name*  
AP Zone name

**wlan**  
WLAN

*ssid*  
WLAN SSID

**period**  
Statistics period

**8-h**  
8 hours

## Show Commands

show ap-stats

24-h

24 hours

**7-d**

7 days

**30-d**

30 days

*mac* **type** [ **client-association** | **data-throughput** | **client-count** ] *zone name wlan ssid radio* [ **2.4g** | **5g** ] **period** [ **30-d** | **8-h** | **24-h** | **7-d** ]

*mac*

AP MAC address

**type**

Statistics data type

**client-association**

Client associations

**data-throughput**

Data throughput

**client-count**

Client count

**zone**

AP Zone

*name*

AP Zone name

**wlan**

WLAN

*ssid*

WLAN SSID

**radio**

Per Radio

**2.4g**

2.4 GHz radio

**5g**

5 GHz radio

**period**

Statistics period

**30-d**

30 days

**8-h**

8 hours

**24-h**

24 hours

**7-d**  
7 days

**mac type client-os**

*mac*  
AP MAC address

**type**  
Statistics data type

**client-os**  
Client OS types

**mac type client-os zone name wlan ssid**

*mac*  
AP MAC address

**type**  
Statistics data type

**client-os**  
Client OS types

**zone**  
AP Zone

*name*  
AP Zone name

**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**  
8 hours

**8-h**  
8 hours

## Show Commands

show ap-stats

**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**

8 hours

**7-d**

7 days

**24-h**

24 hours

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show ap-stats 6C:AA:B3:26:68: air-time radio 5g period 7-d
```

## 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

```
ruckus# show backup
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 Commands  
show backup-config

## 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

```
ruckus# show backup-config
Available backup configurations:
1: Configuration_20121219071503GMT_1.1.0.0.246.bak 2012-12-19 07:15:03 GMT
```



## 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

```
ruckus# show backup-config-state  
No running configuration
```

## Show Commands

show backup-network

# 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

```
ruckus# show backup-network
```

# show backup-schedule

To display the schedule of system backup versions, use the following command:

```
ruckus# show backup-schedule
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show backup-schedule
```

Show Commands  
show backup-state

## 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

```
ruckus# show backup-state
```

## 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

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

Show Commands  
show cgf-cnxxn-stats

## show cgf-cnxxn-stats

To display the CGF (Charging Gateway Function) connectivity statistics, use the following command:

```
ruckus# show cgf-cnxxn-stats
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show cgf-cnxxn-stats
```

## show cgf-tx-stats

To display the CGF (Charging Gateway Function) transaction statistics, use the following command:

```
ruckus# show cgf-tx-stats
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show cgf-tx-stats
```

## Show Commands

show client

# show client

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

**ruckus# show client**

## Syntax Description

This command uses the following syntax:

*client-mac*

Client MAC address

*mac-address*

MAC address of the wireless client

*zone-name*

Zone name.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# 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

```
ruckus> show clock  
2015-03-24 09:23:28 GMT
```

Show Commands  
show cls-sess

## show cls-sess

To display the session information of a user equipment at a node level as per the MSISDN, use the following command:

```
ruckus# show cls-sess ms-isdn
```

### Syntax Description

This command uses the following syntax:

```
msisdn msisdn  
MSISDN and MSISDN value
```

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show cls-sess msisdn 123456789012345
```

## show cls-sess-range

To display the session details of a user equipment created on or after the specified time at a node level, use the following command:

```
ruckus# show cls-sess-range sess establishment timestamp number of sessions
```

### Syntax Description

This command uses the following syntax:

*sess establishment timestamp*

Timestamp on session establishment in the format hh/mm/ss. For example: 23/06/30

*number of sessions*

Indicates the number of connected sessions to the controller

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show cls-sess-range 230450 1
```

## show cluster

To display the system cluster settings, use the following command:

```
ruckus# show cluster
```

### Syntax Description

This command uses the following syntax:

<i>name</i>	Name of the cluster
<i>ip-list</i>	Cluster node IP list

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show cluster ip-list Cluster Node IPs: 183.238.236.243
```

## 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

```
ruckus# show cluster-state
```

## show control-plane

To display the list of control planes on the controller, use the following command:

```
ruckus# show control-plane name
```

### Syntax Description

This command uses the following syntax:

**name**  
Name of the controlplane

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show control-plane SCG186-C
Serial Number : 00000086
Model : SCG1k
Description : SCG186
Management IP : 172.17.20.186
Cluster IP : 10.2.1.186
Control IP : 10.2.0.186
Firmware : 1.1.1.0.32
Status : In Service
Role : Follower
# of APs : 1,233
Total Memory : 47.21G
Total Disk : 500.76G
# of Ports : 6
Manage : SCG186-D1 SCG186-D0
Resource Utilization Summary
-----
Resource Data Type Last 15 Minutes Last 1 Hour Last 24 Hours
CPU Max_Utilization 31% 31% 41%
Memory Max_Utilization 40% 40% 43%
Disk Max_Utilization 25% 25% 25%
Control Interface (Port 0) Bytes(Tx/Rx) 283.79M/246.0M 987.38M/877.0M 24.69G/22.09G
Control Interface (Port 0) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 1423791/1400794/0/0 4874128/4866948/0/0
113893537/114241325/0/0
Control Interface (Port 3) Bytes(Tx/Rx) 0/0 0/0 0/0
Control Interface (Port 3) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 0/0/0/0 0/0/0/0 0/0/0/0
Cluster Interface (Port 1) Bytes(Tx/Rx) 468.83K/1.67M 1.83M/8.84M 39.49M/159.63M
Cluster Interface (Port 1) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 3489/21795/0/0 13999/87703/0/0
308988/2114188/0/0
Cluster Interface (Port 4) Bytes(Tx/Rx) 0/0 0/0 0/0
Cluster Interface (Port 4) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 0/0/0/0 0/0/0/0 0/0/0/0
Mgmt Interface (Port 2) Bytes(Tx/Rx) 2.41M/2.62M 10.6M/11.89M 350.15M/617.04M
Mgmt Interface (Port 2) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 19471/33600/0/0 37374/118176/0/0
470838/2641261/0/0
Mgmt Interface (Port 5) Bytes(Tx/Rx) 0/0 0/0 0/0
Mgmt Interface (Port 5) Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 0/0/0/0 0/0/0/0 0/0/0/0
```

## 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 [ 3 | 0 | 1 | 4 | 2 | 5 ] period [ 8-h | 30-d | 24-h | 7-d ]
```

*name*  
Controlplane name

**type**  
Statistics data type

**port**  
Port usage

**3**  
Port 3

**0**  
Port 0

## Show Commands

show control-plane-stats

**1** Port 1  
**4** Port 4  
**2** Port 2  
**5** Port 5  
**period** Statistics period  
**8-h** 8 hours  
**30-d** 8 hours  
**24-h** 24 hours  
**7-d** 7 days

*name* **type** **interface** [ **management** | **control** | **cluster** ] **period** [ **24-h** | **7-d** | **8-h** | **30-d** ]

*name*  
Controlplane name

**type**  
Statistics data type

**interface**  
Interface usage

**management**  
Management interface

**control**  
Control interface

**cluster**  
Cluster interface

**period**  
Statistics period

**24-h**  
24 hours

**7-d**  
7 days

**8-h**  
8 hours

**30-d**  
8 hours



## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show control-plane-stats INDUS4-C type
cpu          CPU usage
disk         Disk usage
interface    Interface usage
memory       Memory usage
port         Port usage
ruckus# show control-plane-stats INDUS4-C type cpu period
```

```
7-d          7 days
8-h          8 hours
24-h         24 hours
30-d         30 days
```

```
ruckus# show control-plane-stats INDUS4-C type cpu period 8-h
No.   Time
-----
1     2015-04-05 22:45:00 GMT    6.6%    0.56%    0.13%
2     2015-04-05 23:00:00 GMT    5.68%   0.43%    0.13%
3     2015-04-05 23:15:00 GMT    6.7%    0.53%    0.14%
4     2015-04-05 23:30:00 GMT    5.67%   0.44%    0.13%
5     2015-04-05 23:45:00 GMT    6.61%   0.55%    0.13%
6     2015-04-06 00:00:00 GMT    5.62%   0.44%    0.13%
7     2015-04-06 00:15:00 GMT    6.73%   0.63%    0.13%
8     2015-04-06 00:30:00 GMT    6.12%   0.44%    0.14%
```

Show Commands  
show counter

## show counter

To display the database counter values, use the following command:

```
ruckus# show counter user devices
```

### Syntax Description

This command uses the following syntax:

*users*

Users counter

*devices*

Devices counter

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show counter users Guest credentials : 0
Local users          : 0
Remote users        : 0
-----
Total users          : 0
```

## 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

```
ruckus# show cpuinfo
processor : 0
model name : Intel(R) Xeon(R) CPU E5645 @ 2.40GHz
processor : 1
model name : Intel(R) Xeon(R) CPU E5645 @ 2.40GHz
processor : 2
model name : Intel(R) Xeon(R) CPU E5645 @ 2.40GHz
```

## show data-plane

To display a list of data planes on the controller, use the following command:

```
ruckus# show data-plane
```

### Syntax Description

This command uses the following syntax:

*name*

Name of the dataplane.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show data-plane SCG187-D1
Serial Number : 2.0G1110-FP700083
Model : CN5750p2.1-750-SSP
IP Address : 169.254.255.10
MAC Address : 00:1D:2E:87:00:18
Firmware : 1.1.1.0.29
Status : Fault
# of Tunnels : 0
Managed By : SCG187
Uptime : 23h 37m

Network Usage Summary
-----
Resource Data Type Last 15 Minutes Last 1 Hour Last 24 Hours
Port 0 Bytes(Tx/Rx) 0/0 0/0 0/0
Port 0 Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 0/0/0/0 0/0/0/0 0/0/0/0
Port 1 Bytes(Tx/Rx) 0/0 0/0 0/0
Port 1 Pkts(Tx/Rx/Tx Dropped/Rx Dropped) 0/0/0/0 0/0/0/0 0/0/0/0
```

## show data-plane-stats

To display dataplane statistics, use the following command:

```
ruckus# show data-plane-stats
```

### Syntax Description

This command uses the following syntax:

```
name type port [ 1 | 0 ] period [ 8-h | 7-d | 24-h | 30-d ]
```

<i>name</i>	Data Plane name
<b>type</b>	Statistics data type
<b>port</b>	Port usage
<b>1</b>	Port 1
<b>0</b>	Port 0
<b>period</b>	Statistics period
<b>8-h</b>	8 hours
<b>7-d</b>	7 days
<b>24-h</b>	24 hours
<b>30-d</b>	8 hours

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show data-plane stats
```

## Show Commands

show dhcp-relay-stats

# 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

```
ruckus# show dhcp-relay-stats
```

# show dhcp-server-stats

To display a list of DHCP server statistics, use the following command:

```
ruckus# show dhcp-server-stats
```

## Syntax Description

This command has no arguments or keywords

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show dhcp-server-stats
```

## Show Commands

show diameter-gx-stats

# show diameter-gx-stats

To display the Diameter Gx interface statistics, use the following command:

```
ruckus# show diameter-gx-stats
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show diameter-gx-stats
```



## show diameter-sta-stats

To display the Diameter STa interface statistics, use the following command:

```
ruckus# show diameter-sta-stats
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show diameter-sta-stats
```

Show Commands  
show diameter-stats

## show diameter-stats

To display the Diameter server statistics, use the following command:

```
ruckus# show diameter-stats
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show diameter-stats
```

## show diskinfo

To display the current disk usage on the controller, 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

```
ruckus# show diskinfo
Filesystem 1K-blocks Used Available Use% Mounted on
rootfs 20642428 352268 19241584 2% /
/dev/root 20642428 352268 19241584 2% /
/dev/sda1 10321208 117812 9679108 2% /boot
/dev/mapper/vg00-lv00
525084552 136105168 362306644 28% /mnt
tmpfs 1048576 684 1047892 1% /tmp
tmpfs 24753476 0 24753476 0% /dev/shm
```

## 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

[ **zone** | **ap-mac** ] *value*

**zone**

AP Zone name

**ap-mac**

AP MAC address

*value*

Filter Value

*client-mac*

Client MAC address

**datetime** *from-time to-time*

**datetime**

Filtered by Datetime

*from-time*

From time

*to-time*

To time

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

**severity**

Filtered by Severity

**warn**

Warning

**debug**

Debug

**major**

Major

**critical**

Critical

**info**

Informational

**minor**

Minor

**type** *event-type*

**type**

Filtered by Type

*event-type*

Event type

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show event A1:87:45:34:56:FE
```

Show Commands  
show ggsn-cnxxn-stats

## show ggsn-cnxxn-stats

To display GGSN Connections statistics, use the following command:

```
ruckus# show ggsn-cnxxn-stats
```

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show ggsn-cnxxn-stats
```

## show ggsn-gtpc-stats

To display GGSN GTP-C sessions statistics, use the following command:

```
ruckus# show ggsn-gtpc-stats
```

### Syntax Description

This command has no arguments or keywords

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show ggsn-gtpc-stats
```

Show Commands  
show history

## 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

```
ruckus# show history
0. enable
1. show domain "Administration Domain"
2. show dp-group
3. show ftp-server
4. show history
```



## show interface

To display the interface runtime status, use the following command:

```
ruckus# show interface cluster control management user-defined
```

### Syntax Description

This command uses the following syntax:

**cluster**

Cluster interface

**control**

Control interface

**management**

Management interface

**user-defined**

User defined interface

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show interface
Interfaces
-----
Interface      : Control
IP Mode        : DHCP
IP Address     : 184.21.160.66
Subnet Mask    : 255.255.255.240
Gateway        : 184.21.160.65

Interface      : Cluster
IP Mode        : None
IP Address     : 184.21.160.84
Subnet Mask    : 255.255.255.240
Gateway        : 184.21.160.81

Interface      : Management
IP Mode        : DHCP
IP Address     : 172.19.10.4
Subnet Mask    : 255.255.0.0
Gateway        :
Access & Core Separation : Disabled
Default Gateway Interface : Control
Primary DNS Server       : 172.19.0.5
Secondary DNS Server     : 4.2.2.2
```

**Show Commands**  
show interface

User Defined Interfaces

---

## 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

```
ruckus# show internal-subnet Internal Subnet Prefix: 10.254.1
```

## show ip

To display information about controller 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

```
ruckus# show ip route static
=====
Static Routes
=====
IP Address Metric Subnet Mask Gateway Interface
172.17.20.0 255.255.254.0 10.2.0.1 Management
```

## show license

To display information about the current controller 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

```
License Summary
-----
License Type #of Units Total #of Units Consumed #of Units Available
WiFi Controller License 10 1 (10%) 9 (90%)
AP Direct Tunnel License 10 0 (0%) 10 (100%)
SCG 3GPP Tunneling License 10 0 (0%) 10 (100%)
SCG 3rd Party APs License 10 NA NA
```

## show logs-filter

To display the LMA signalling status, use the following command:

```
ruckus# show logs-filter
```

### Syntax Description

This command has the following syntax:

**client** *mac*

**client**

Client MAC

*mac*

STA MAC Address

**client** *mac* **copy** *ftp-url*

**client**

Client MAC

*mac*

STA MAC Address

**copy**

Copy STA real-time tracing log to external FTP server

*ftp-url*

FTP directory URL, Format:ftp://*username:password@ftp-host[/dir-path]*

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show logs-filter
ruckus(config)# show logs-filter client 44:44:44:44:44:44
copy      Copy STA real-time tracing log to external FTP server
<cr>
ruckus(config)# show logs-filter client 44:44:44:44:44:44 copy
<ftp-url>      FTP directory URL, Format:ftp://<username>:<password>@<ftp-host>[</dir-path>]

ruckus(config)# show logs-filter client 44:44:44:44:44:44 copy ftp://ftp:ftp@172.18.196.22
```

## show md-stats

To display the md status, use the following command:

```
ruckus# show md-stats
```

### Syntax Description

This command has the following arguments or keywords:

**scg**

Displays the Local MD shared memory stats

**peer-scg-mac \${scgMac}**

**peer-scg-mac**

Display the other SCG-MD connection stats at SCG

**\${scgMac}**

**ap-mac \${apMac}**

**ap-mac**

Display the stats for Connected AP at SCG

**\${apMac}**

**[scg-app-name] \${appName}**

**scg-app-name**

Display the local application stats; Application Names must be among:

(scg\_md/scg\_sessmgr/md\_proxy/scg\_hip/scg\_cnr/scg\_com- municator/scg\_sciagent/scg\_web/scg\_eventreader/  
scg\_nbi/scg\_publi- capi/scg\_memproxy/scg\_observer/scg\_logmgr/logclient/scg\_idm/ scg\_ccd/scg\_push/  
scg\_greyhound/scg\_snmp/scg\_cached)

**\${appName}**

**node-id \${nodeId}**

**node-id**

Display nodeId's stats; Valid value: Actual node id + 1

**\${nodeId}**

**remote mac app-name \${apMac}app-name \${appName}**

**remote**

Get the stats from remote AP/DP; Valid value: ap / dp

**mac**

Provide MAC of AP/DP

**app-name**

Provide app-name from AP/DP; Valid value: ap\_md / dp\_md

**\${apMac}**

**app-name**

**\${appName}**

**Show Commands**  
show md-stats

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

To be updated



## 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

```
ruckus# show meminfo
MemTotal: 8202196 kB
MemFree: 1957064 kB
Buffers: 46772 kB
Cached: 183088 kB
SwapCached: 0 kB
total used free shared buffers cached
Mem: 8202196 6245132 1957064 0 46772 183088
-/+ buffers/cache: 6015272 2186924
Swap: 4194300 0 4194300
```

## Show Commands

show radius-proxy-stats

# show radius-proxy-stats

To view statistics of RADIUS proxy on controller, 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

```
ruckus# 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 INDUS4-C 104.0.0.25 2015-03-20 12:46:20 GMT 2015-03-24
09:37:47 GMT Ruckus AP 0/0/0 0/0 6/6 0/0 0/0 0/0 6/6 0/0 0/0/0
0/0/0 0/0/0 0/0 0/2 6/0 0/0/0 0/0/0

2 Super INDUS4-C 104.0.0.2 2015-03-20 10:29:33 GMT 2015-03-24
09:37:47 GMT Ruckus AP 25/50/0 17/0 117/117 36/36 25/25 50/50
48/48 45/45 0/0/0 0/0/0 0/0/0 0/0 11/1 35/32 0/0/0 0/0/0
```

## show radius-server-stats

To view statistics of RADIUS server on controller, use the following command:

```
ruckus# show radius-server-stats
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show radius-server-stats
No. MVNO Account Control Plane AAA IP Created On Last Modified
On NAS Type Auth Type Auth(Perm) Auth(Psd) Auth(Fast Auth)
Auth(Failed) ACCESS Accounting Session Accounting Request AP
Accounting AP Accounting Request/Response AP Accounting ON
Request AP Accounting OFF Request
-----
1 Super INDUS4-C 184.21.160.84 2015-03-20 09:49:56 GMT 2015
-03-23 10:01:29 GMT Ruckus AP 0/0 0/0 0/0 0/0/0 0/0/0/0 0/0
0/0 0/0 0/0 16/16 4/4
```

## show radshm-stats

To view RADIUS KPI (key performance indicators) captured per AAA server on the controller, use the following command:

```
ruckus# show radius-server-stats display|kill|send ipaddress
```

### Syntax Description

This command uses the following syntax:

**display**

Displays the RADIUS KPI statistics captured on the controller

**kill**

Stops sending the statistics collected to the elastic search database.

**send**

Sends the collected statistics to the elastic search database.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show radshm-stats send 172.19.13.60
```

## 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

```
ruckus# 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 rogue access points, use the following command:

```
ruckus# show rogue-aps rogueMac #{rogueMac}
```

```
ruckus# show rogue-aps type [ MaliciousAP(SSID-spoof) | Ad-hoc | Rogue | MaliciousAP(Same-Network) | MaliciousAP(MAC-spoof) | RogueAPtimeout
```

## Syntax Description

This command uses the following syntax:

### **rogueMac**

The MAC IP address of the rogue AP

*#{rogueMac}*

MAC IP address

### **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)

### **RogueAPtimeout**

Rogue AP timeout

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show rogue-aps
rogue-mac      Rogue AP MAC
rogue-type     Rogue AP Type

ruckus# show rogue-aps rogue-type
```

ad-hoc	ad-hoc
mac-spoofing	Malicious AP (MAC-spoof)
rogue	Rogue
same-network	Malicious AP (Same-Network)
ssid-spoofing	Malicious AP (SSID-spoof)

## show running-config

To view the current system configuration, use the following commands:

```
ruckus# show running-config command-name
```

### NOTE

Press Tab+Tab to view the available commands. By pressing the Enter key, the system displays an error of incomplete command.

```
ruckus# show running-config <press tab+tab> to view the available  
commands.
```

## Syntax Description

This command uses the following sub commands:

```
NODE-63# show running-config
acct-profile          ad-service           admin
admin-radius         adv-forwarding-profile all
ap                   ap-auto-tagging     ap-cert-check
ap-cert-expired-check ap-control-mgmt-tos ap-heartbeat
ap-internal-subnet  ap-zone-aggregate  auth-profile
bridge-profile      cert-store          cgf-service
control-plane       data-plane          diameter-host-list
diameter-remote-service diametersystem-wide dns-server-service
domain              dp-group            eap-aka
eap-sim              encrypt-mac-ip      encrypt-zone-name
eth-port-validate-one-trunk event                event-threshold
ftp-server           ggsn-service        hlr-mnc-ndc
hlr-service          hlr-system-wide     hotspot-profile
identity-provider    interface            internal-subnet
ip                   ip-support           ipsec-profile
l2ogre-profile       lbs-service          ldap-service
license              lineman              localdb-service
lwapp2scg            mgmt-acl             mvno
node-affinity        non-tpm-switch-cert-validate northbound-portal
ntp-server           oauth-service        operator-profile
outbound-firewall   q-in-q-ethertype    radius-service
report              rks-gre              sci-profile
sci-setting           sms-server           smtp-server
snmp-notification   snmp-v2-community   snmp-v3-user
soft-gre             stats-upload         subpackages
syslog-server        ttg-pdg-profile     user-agent-blacklist
user-group           user-role            user-traffic-profile
web-cert             wlan-template        zone
zone-affinity        zone-global          zone-template
```

## Default

This command has no default settings.

## Command Mode

Privileged



## Example

```
ruckus# show running-config zone_name
```

```
ruckus# show running-config zone "Zone-poe"
```

```
Radio Options
```

```
-----  
channel Range (2.4G)           : 1,2,3,4,5  
channel Range (5G indoor)      : 36,40,44,48,149,153,157,161  
channel Range (5G outdoor)     : 36,40,44,48,149,153,157,161  
Channelization (2.4G/5G)      : Auto / Auto  
Channel (2.4G/5G)             : Auto / Auto(indoor), Auto(outdoor)  
TX Power Adjustment (2.4G/5G) : Full/Auto / Full/Auto  
Smart Roam (2.4G/5G)          : Enabled / Enabled  
Smart Roam Disconnect Event    : Disabled  
Smart Roam Mac filter time(2.4G/5G): 15 / 15
```

## Show Commands

show service

# show service

To view the system service state, use the following command:

```
ruckus# show service name
```

## Syntax Description

This command uses the following syntax:

*name*

System service name

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# show service
No.   Application Name      Health Status   Log Level      # of Logs
-----
1     API                   Online          WARN           1
2     CIP                   Online          WARN           1
3     CNR                   Online          WARN           1
4     Captive Portal       Online          DEBUG          6
5     Cassandra             Online          WARN           3
6     Communicator          Online          WARN           2
7     Configurer           Online          WARN           4
8     DBlade                Online          WARN           10
9     DHCPServer            Online          WARN           1
```

# show ssh-rekey-limit-state

Displays the rekey limit status.

## Syntax

```
show ssh-rekey-limit-state
```

## Modes

Debug

## Examples

```
rkcli(debug)# show ssh-rekey-limit-state  
RekeyLimit 100k 1d
```

## History

Release version	Command history
5.2.1	This command was introduced.

## Show Commands

show system-capacity

# show system-capacity

To view the system capacity, use the following command:

```
ruckus# show system-capacity
```

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
vszh-60191# show system-capacity
System Capacity of Cluster:
Total Capacity : 10000 APs (2000 Switches)
Connected AP   : 0 APs
Connected Switch: 0 Switches
Remaining AP   : 10000 APs
Remaining Switch: 2000 Switches
```

## show ttg-client

To view the current TTG client sessions, use the following command:

```
ruckus# show ttg-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

```
ruckus# show ttg-client A1:87:45:34:56:FE
```

Show Commands  
show upgrade-history

## 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

```
ruckus# show upgrade-history
No.      Start time SCG System Version Control Plane version  Data Plane version  AP Firmware
version  File name Elapsed
-----  -
3.1.0.0.227  3.1.0.0.464
3.1.0.0.520  3.1.0.0.341  Fresh Installation 11m 26s
-----  -
1      2015-03-20 07:24:34 GMT
```

## 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

```
ruckus# show upgrade-state
```

## Show Commands

show version

# show version

To view the controller 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

```
ruckus# show version
Model                : SZ300
Serial #             : 121737000023
SZ Version           : 5.0.0.0.661
Control Plane Software Version : 5.0.0.0.617
Data Plane Software Version   : 5.0.0.0.661
AP Firmware Version   : 5.0.0.0.722, 5.0.0.99.439, 5.0.0.99.343,
5.0.0.99.522, 5.0.0.0.620, 5.0.0.99.554, 5.0.0.99.436, 5.0.0.99.532, 5.0.0.0.732,
5.0.0.0.630, 5.0.0.99.488, 5.0.0.99.381, 5.0.0.0.651, 5.0.0.0.664, 5.0.0.0.663,
5.0.0.0.734, 5.0.0.0.694, 5.0.0.0.584, 5.0.0.0.601, 5.0.0.0.634, 5.0.0.99.416,
5.0.0.0.727, 3.6.0.0.579, 3.6.0.0.639, 3.6.0.0.596
```



## show wired- client

To view the current AP's associated wired client sessions, use the following command:

```
ruckus# show wired-client wired-client-mac
```

### Syntax Description

This command uses the following syntax:

```
wired-client-mac
```

Wired client MAC address

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# show wired-client <mac address>
```

## Show Commands

show zone

# show zone

To view the AP zone states, use the following command:

**ruckus# show zone**

## Syntax Description

This command uses the following syntax:

*name* **ap** *mac*

*name*

AP zone name

**ap**

Show the AP list of a specific AP zone

*mac*

AP MAC address

*name* **client***client-mac*

*name*

AP zone name

**client**

Shows the client list of a specific AP zone

*client-mac*

Client MAC address

*name* **ttg-client***client-mac*

*name*

AP zone name

**ttg-client**

Shows the TTG client list of a specific AP zone

*client-mac*

Client MAC address

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

FIGURE 13 show zoneExample

```

set-1(config)# show zone
  No.   Zone Name           Management Domain      Description           AP Fir
  mware # of Alarms        # of APs              # of WLANs          # of Clients        AP IP Mode
-----
  1     VW                 Administration Domain  Staging Zone         3.5.0.
99.10  0/0/0/0             2 (0/2/0/0/0)        3                    0                    Dual
                                           28

  2     Staging Zone       Administration Domain  Staging Zone         3.5.0.
0/0/0/0 0/0/0/0             1 (0/1/0/0/0)        0                    0                    IPv4
                                           28

  3     3.5-KKK-ZONE-1    Administration Domain  3.5-KKK-ZONE-1     3.5.0.
99.10  0/0/0/0             1 (0/1/0/0/0)        2                    0                    IPv4
                                           28

```



# System Commands

---

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## ?

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

```

ruckus# ?
  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 backup file commands
  diagnostic  Diagnostic commands
  enable      Modify enable password
  exit        Turn off privileged commands
  help        Display this help message
  logout      Exit from the EXEC
  no          No commands
  ping        Ping server
  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
  upgrade     Upgrade system

```

## backup

To backup the controller 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

```
ruckus# backup
```

## backup config

To backup controller 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

```
ruckus# backup config
```



## backup network

To backup controller 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

```
ruckus# backup network
```

## backup schedule

To create a schedule for backing up the configuration, use the following command:

```
ruckus# backup schedule daily disable monthly weekly
```

### Syntax Description

This command uses the following syntax:

**monthly** *date-of-month* **hour** *hour* **minute** *minute*

**monthly**

Monthly

*date-of-month*

Date of month

**hour**

Hour (GMT)

*hour*

Hour value (GMT)

**minute**

Minute

*minute*

Minute value

**weekly** *day-of-week* **hour** *hour* **minute** *minute*

**weekly**

Weekly

*day-of-week*

Day of week

**hour**

Hour (GMT)

*hour*

Hour Value (GMT)

**minute**

Minute

*minute*

Minute value

**daily** *hour* **minute** *minute*

**daily**

Daily

*hour*

Hour value (GMT)

**minute**

Minute

*minute*

Minute value

**disable**

**disable**

Schedule disable

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus-Node1# backup-upgrade ftp://mahan:ruckus1!@172.19.7.100/backup/AP_ad87453456fe.csv
```

## backup-upgrade

To backup and upgrade the controller whole cluster system, use the following command:

```
ruckus# backup-upgrade
```

### Syntax Description

This command uses the following syntax:

*ftp-url*

Upgrade file. The FTP URL format: `ftp://username:password@ftp-host [ /dir-path ]`

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# 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

```
ruckus# cluster in-service
```

## 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

### Usage Guidelines

To view configuration commands, see the Configuration Commands chapters.

### Example

```
ruckus# config
```

## copy

To copy backup, backup-config, or backup-network file from external FTP server, use the following command:

```
ruckus# copy ftp-url backup
```

```
ruckus# copy ftp-url backup-config
```

```
ruckus# copy ftp-url backup-network
```

## Syntax Description

This command uses the following syntax:

*ftp-url* **backup**

Backup file. FTP URL format: `ftp://username:password@ftp-host [ /dir-path ]`

*ftp-url* **backup-config**

Backup of the configuration file. FTP URL format: `ftp://username:password@ftp-host [ /dir-path ]`

*ftp-url* **backup-network**

Backup of the network configuration file. The FTP URL format: `username:password@ftp-host [ /dir-path ]`

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# copy ftp://test:testpwd@172.17.22.11 backup
ruckus# copy ftp://test:testpwd@172.17.22.11/scg-config backup-config
ruckus# copy ftp://test:testpwd@172.17.22.11/scg-network backup-network
```

## copy ap-certificate-request

To copy the AP certificate request to the external FTP server, use the following command:

```
ruckus# copy ap-certificate-request [ all | new ] ftp-url
```

### Syntax Description

This command uses the following syntax:

**all**

Copies all the AP certificate requests

**new**

Only copies APs that need to be exported

*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

```
ruckus# copy ap-certificate-request all ftp://test:testpwd@172.17.22.11
```



## 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

```
ruckus# 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

```
ruckus# copy backup-config ftp://test:testpwd@172.17.22.11/scg-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

```
ruckus# copy backup-network ftp://test:testpwd@172.17.22.11/scg-network
```

## copy client

To copy AP client statistics to external FTP server, use the following command:

```
ruckus# copy client name ftp-url
```

### Syntax Description

This 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

```
ruckus# copy client test Zone 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

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

```
ruckus# # copy 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

This 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

```
ruckus# copy report-result scg report 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*

version Backup version

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# delete backup  
ruckus# 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

```
ruckus# delete backup-config  
ruckus# 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

```
ruckus# delete backup-network  
ruckus# 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

```
ruckus# 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

```
ruckus# diagnostic
```

## Related Commands

The following table lists the related diagnostic commands.

**TABLE 161** Commands related to ruckus(diagnostic)

Syntax and Type	Parameters (If Any)	Description
ruckus(diagnostic)# application-log-level <debug error info warn> Type: Privileged	DEBUG: Sets the log level to debug ERROR: Sets the log level to error INFO: Sets the log level to information WARN: Sets the log level to warning	Sets the log level of an application.
ruckus(diagnostic)# application-log-level-all <debug error info warn> Type: Privileged	DEBUG: Sets log level for all applications to debug ERROR: Sets the log level for all applications to error INFO: Sets the log level for all applications to information WARN: Sets the log level for all applications to warning	Sets the log level for all applications.
ruckus(diagnostic)# copy snapshot Type: Privileged	<i>ftp-url:</i> FTP directory URL, Format: ftp:// <i>username:password@ftp-host[/dir-path]</i>	Copy snapshot to external FTP server.
ruckus(diagnostic)# do Type: Privileged		Executes the do command.

**TABLE 161** Commands related to ruckus(diagnostic) (continued)

Syntax and Type	Parameters (If Any)	Description
ruckus(diagnostic)# delete snapshot Type: Privileged	<i>/\${snapshotName}</i>	Deletes all snapshot.
ruckus(diagnostic)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(diagnostic)# execute all Type: Privileged		Gets the snapshot with the current running system and all application logs.
ruckus(diagnostic)# execute all-full Type: Privileged		Gets the snapshot of the current running system and all application logs. It also includes rotated or archived logs.
ruckus(diagnostic)# execute case Type: Privileged	<i>name</i> : 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)# show ipmi Type: Privileged	[ <b>leds</b>   <b>fru</b>   <b>sel</b>   <b>rks</b>   <b>health</b> ] <b>leds</b> : Shows the front panel alarm LEDs <b>fru</b> : Shows the FRU inventory data <b>sel</b> : Shows the system event log records <b>rks</b> : Shows the Ruckus related information <b>health</b> : Shows the BMC basic health	Shows IPMI information.
ruckus(diagnostic)# show snapshot Type: Privileged		Show snapshot files.
ruckus(diagnostic)# show version Type: Privileged		Shows the version.
ruckus(diagnostic)# trigger trap Type: Privileged	<b>all</b> : Trigger all traps <i>event-code</i> : Multiple traps separated by commas.	Triggers testing traps

## 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

```
ruckus> enable  
Password: *****  
ruckus# config  
ruckus config)#
```

## System Commands

enable <new password>

# enable <new password>

To modify the controller administrator password, use the following command:

```
ruckus# enable old password new password retype password
```

## Syntax Description

This command uses the following syntax:

*old password*

Existing controller administrator password

*new password*

The new controller administrator password that you want to set.

*retype password*

Retype the new controller administrator password.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# enable  
Old Password: *****  
New Password: *****  
Retype: *****  
Successful operation
```

## 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

```
ruckus> exit
```

## fips

To configure the Federal Information Processing Standards (FIPS) options, use the following command:

```
ruckus# fips enable | disable | showlog | status
```

### Syntax Description

This command uses the following syntax:

**enable:** Enables the controller for FIPS compliance.

**disable:** Disables the FIPS compliance.

**showlog:** Shows the bootup self test log.

**status:** Indicates the status of FIPS compliance.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# fips enable
```

```
Zeroization will be initiated using set factory and the FIPS mode will be set to Enable (or  
input 'no' to cancel)? [yes/no]
```



## gdpr-pii

To search and delete PII (Personally Identifiable Information) data based on GDPR (General Data Protection Regulation), use the following command:

```
ruckus# gdpr-pii[ search | delete | interrupt | progress] mac
```

### Syntax Description

This command uses the following syntax:

**search**

Searches for PII data based on the device MAC address

**delete**

Deletes PII data based on the device MAC address

**interrupt**

Interrupts the search or deletes process

**progress**

Checks the progress on the search or delete process

**mac**

Specify the MAC device address

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# gdpr-pii
delete      Delete PII Data by device MAC
search      Search PII Data by device MAC
```

## help

To display the command line interface help, 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

User

## Example

```
ruckus# help  
  
config Enter configuration mode  
debug Debug commands  
enable Modify enable password  
exit Turn off privileged commands  
help Display this help message  
logout Exit from the EXEC
```

# 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

```
ruckus# logout
```

## log-diagnostic ap-log-level-set

To set the log level as AP, use the following command:

```
ruckus# log-diagnostic ap-log-level-set
```

### Syntax Description

This command has following keywords:

**DEBUG**

To set the log level as DEBUG

**DEFAULT**

To set the log level as DEFAULT

**ERROR**

To set the log level as ERROR

**INFO**

To set the log level as INFO

**WARN**

To set the log level as WARN

**mac**

To set the log level for AP MAC

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# log-diagnostic ap-log-level-set
```

## no service

To stop all controller 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

```
ruckus# 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.
```

## patches

To manage patch scripts, use the following command:

**ruckus# patches apply** | *name* **do end exit help no show upload**

### Syntax Description

This command has no arguments or keywords:

### Default

This command has no default settings.

### Command Mode

User

### Example

```
ruckus# patches  
ruckus(patches)# show <applied-patches> <uploaded-patches>
```

### Related Commands

The following table lists the related **patches** commands.

**TABLE 162** Commands related to ruckus(patches)

Syntax and Type	Parameters (If Any)	Description
ruckus(patches)# apply Type: Privileged	<i>name</i>	Applies a patch script. Once a patch is applied is cannot be re-applied.
ruckus(patches)# do Type: Privileged		Executes the do command.
ruckus(patches)# end Type: Privileged		Ends the current configuration session and returns to privileged EXEC mode.
ruckus(patches)# exit Type: Privileged		Exits from the EXEC.
ruckus(patches)# help Type: Privileged		Displays the help.
ruckus(patches)# no Type: Privileged	<b>patches</b>	Delete a patch script, Once the patch file is applied, it cannot be deleted
ruckus(patches)# show Type: Privileged	<b>applied-patches</b> <b>uploaded-patches</b>	Shows the applied and uploaded patch list.
ruckus(patches)# show case Type: Privileged		Shows the case.

**TABLE 162** Commands related to ruckus(patches) (continued)

Syntax and Type	Parameters (If Any)	Description
ruckus(patches)# upload Type: Privileged	<i>ftp-url</i>	Uploads a patch script from a remote FTP server.

## ping

To ping a server, use the following command:

```
ruckus# ping ip name
```

### Syntax Description

This command uses the following syntax:

*ip*

IP address

*name*

Domain name

### Default

This command has no default settings.

### Command Mode

User

### Example

```
ruckus# ping 172.17.20.182
Start ping server (172.17.20.182) for 3 times...
PING 172.17.20.182 (172.17.20.182) 56(84) bytes of data.
64 bytes from 172.17.20.182: icmp_req=1 ttl=63 time=1.64 ms
64 bytes from 172.17.20.182: icmp_req=2 ttl=63 time=1.15 ms
64 bytes from 172.17.20.182: icmp_req=3 ttl=63 time=1.01 ms
--- 172.17.20.182 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 1.015/1.271/1.647/0.273 ms.
```



## ping6

To send ICMP echo request to the network host, use the following command:

```
ruckus# ping6 ip name
```

### Syntax Description

This command uses the following syntax:

*ip*

IP address

*name*

Domain name

### Default

This command has no default settings.

### Command Mode

User

### Example

```
ruckus# ping6 172.17.20.182
```

## reload

To reload the controller 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 controller reboots itself.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# reload <60>
Do you want to reboot system (yes/no)? yes
Server would be rebooted in 60 seconds.
Broadcast message from admin (Tue Jun 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 ap mac
```

### Syntax Description

This command uses the following syntax:

*mac*

AP Mac address

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# reload ap 00:1c:2d:ee:ff:cc  
Success to trigger AP (00:1c:2d:ee:ff:cc) reboot.
```

## reload data-plane

To reboot a dataplane, use the following command

```
ruckus# reload data-plane name
```

### Syntax Description

This command uses the following syntax:

*name*

Dataplane name

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# reload data-plane 00:1c:2d:ee:ff:cc  
Success to trigger data plane (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

```
ruckus# 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

```
ruckus# 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 cluster system, 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

```
ruckus# restore
Please choose a backup to restore or 'No' to cancel This action will reboot the system.
Do you want to restore "the entire" cluster system? (yes/no) # Yes: restore cluster, no: original
restore local
Do you want to restore the "local" system only? (yes/no) # Yes: start to restore local, No: cancel
operation
```

## restore config

To restore a configuration backup file that you uploaded to the FTP server, use the following command:

```
ruckus# restore config
```

(to make the configuration backup available on the Controller)

```
ruckus# restore config
```

(to restore a configuration backup file that you uploaded to the FTP server)

## Syntax Description

This command has no arguments or keywords.

## Default

This command has no default settings.

## Command Mode

Privileged

## Example

```
ruckus# restore config
After restore configuration well done, SCG will be restarted,User need to re-login. Do you want to
restore configuration in this context (yes/no)? yes
Available backup configurations:
Available backup configurations:
1: Configuration_20121219071503GMT_1.1.0.0.246.bak 2012-12-19 07:15:03 GMT
Please choose a backup configuration to restore: (Or input 'No' to cancel)
Restore process starts
Restore process has been scheduled to run
```



## 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

```
ruckus# restore network
```

## service restart

To restart all the controller 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

```
ruckus# 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 controller 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

```
ruckus# 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,freeradius,memcached,monitor,northbound,replicated,scheduler,tomcat)
Up!
wait for
(cassandra,communicator,eventreader,freeradius,memcached,monitor,northbound,replicated,scheduler,tomcat)
Up!
wait for (communicator,eventreader,freeradius,memcached,monitor,northbound,replicated,scheduler,tomcat)
Up!
wait for (communicator,eventreader,monitor,northbound,replicated,scheduler,tomcat) Up!
wait for (communicator,eventreader,monitor,northbound,replicated,scheduler,tomcat) Up!
wait for (communicator,eventreader,monitor,northbound,replicated,scheduler,tomcat) Up!
wait for (communicator,eventreader,monitor,northbound,replicated,scheduler,tomcat) Up!
All services are up!
ruckus# Connection to 10.2.6.230 closed by remote host.
```

## session-timeout

To set the local session timeout, use the following command:

```
ruckus# session-timeout minutes
```

### Syntax Description

This command uses the following syntax:

*minutes*

Specify the timeout in minutes where the default time is 30 minutes and the maximum is 1440 minutes.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# session-timeout 30
```

## set-factory

To reset to factory settings of the controller system, use the following command:

```
ruckus# set-factory
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Usage Guidelines



#### 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, it is strongly recommends that you export all of the backup files on the controller to an FTP server using either the web interface or CLI.

#### NOTE

For information on how to use the controller web interface to reset a node to factory settings, see the *SmartCell Gateway 200 Virtual SmartZone High-Scale Quick Setup Guide*.

### Example

```
ruckus# set-factory
```

## shutdown

To shutdown the controller gracefully, use the following command:

```
ruckus# shutdown seconds
```

### Syntax Description

This command uses the following syntax:

*seconds*

Indicates the number of seconds before controller shutdowns.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# shutdown 10  
Do you want to shutdown system  
Server would be shutdown in 10 seconds
```

## shutdown now

To shutdown the controller 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

```
ruckus# shutdown now  
Do you want to shutdown system?  
Server would be shutdown in 30 seconds
```

## traceroute

To print the route that packets take to the network host, use the following command:

```
ruckus# traceroute
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# traceroute
```



## traceroute6

To print the route that packets take to the network host, use the following command:

```
ruckus# traceroute6
```

### Syntax Description

This command has no arguments or keywords.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# traceroute6
```

## upgrade

To upgrade the controller 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

```
ruckus# upgrade ftp://mahan:ruckus1!@172.19.7.100
```

## upload ap-certificate-status

To upload the AP certificate to the controller, use the following command:

```
ruckus# upload ap-certificate-status ftp-url
```

### Syntax Description

This command uses the following syntax:

*ftp-url*

Upload file. FTP URL format is: `ftp://username:password@ip [ /file-path ]`.

### Default

This command has no default settings.

### Command Mode

Privileged

### Example

```
ruckus# upload ap-certificate-status ftp://mahan:ruckus1!@172.19.7.100
```

