
# Ruckus Wireless™ ZoneDirector™ Command Line Interface

## Reference Guide

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# Contents

## 3 Configuring Controller Settings

# About This Guide

This *Ruckus Wireless ZoneDirector Command Line Interface Reference Guide* contains the syntax and commands for configuring and managing ZoneDirector from a command line interface.

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

**NOTE:** If a release note is shipped with ZoneDirector your Ruckus Wireless product and the information there differs from the information in this guide, follow the instructions in the release note.

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

http://support.ruckuswireless.com/

## Conventions

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

*Table 1. Text Conventions*

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

*Table 2. Notice Conventions*

| Icon | Notice Type | Description |
|---|---|---|
|  | Information | Information that describes important features or instructions |
|  | Caution | Information that alerts you to potential loss of data or potential damage to an application, system, or device |
|  | Warning | Information that alerts you to potential personal injury |

## Documentation Comments

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docs@ruckuswireless.com

When contacting us, please include the following information:

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

For example:

- Ruckus Wireless ZoneDirector Command Line Interface Reference Guide
- Part number: 800-70258-001
- Page 88

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# 1

# Understanding the ZoneDirector Command Line Interface

**In This Chapter**

# What Is the CLI?

The Ruckus Wireless ZoneDirector command line interface (CLI) is a software tool that enables you to configure and manage ZoneDirector, Ruckus Wireless's wireless LAN controller.

Using the command line interface, you can issue commands from an operating system prompt, such as the Microsoft Windows command prompt (C:\) 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

This section describes the requirements and the procedure for accessing the ZoneDirector CLI.

## Requirements

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

- A computer that you want to designate as administrative computer
- An RS-232 cable (type depends on the ZoneDirector model):
  - If you are using ZoneDirector 3000, you need an RS-232 to Ethernet cable.
  - If you are using ZoneDirector 1000, you need an RS-232 to RS-232 cable.
- A Telnet or SSH (secure shell) client program

## Step 1: Connecting the Administrative Computer to ZoneDirector

The steps for connecting the administrative computer to ZoneDirector depend on the ZoneDirector model that you are using. Refer to the relevant section below.

- Connecting ZoneDirector 1000
- Connecting ZoneDirector 3000

**NOTE:** Before continuing, make sure that both the administrative computer and ZoneDirector are both powered on.

### Connecting ZoneDirector 1000

1. Connect one end of the RS-232 cable to the port labeled *Console* on ZoneDirector.
2. Connect the other end to the RS-232 cable to a COM port on the administrative computer.

## Connecting ZoneDirector 3000

1. Connect the RS-232 end of the cable to the port labeled *Console* on ZoneDirector.
2. Connect the Ethernet end of the cable to an Ethernet port on the administrative computer.

# Step 2: Start and Configure the Telnet/SSH Client

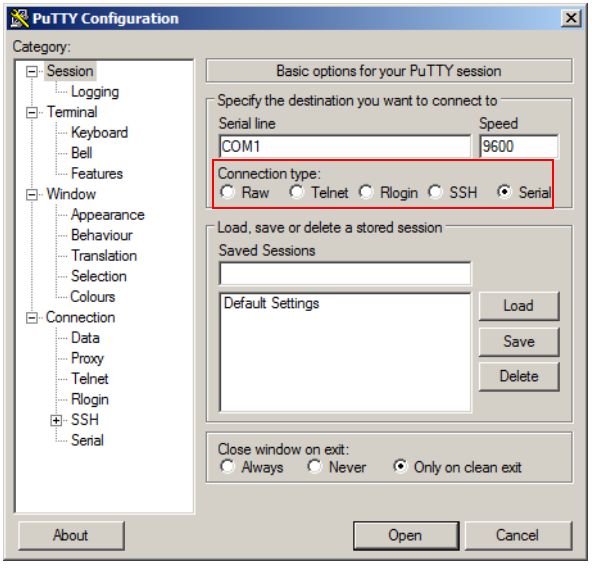
Before starting this procedure, make sure that you Telnet/SSH is already installed on the administrative computer.

**NOTE:** The following procedure uses PuTTY, a free and open source Telnet/SSH client, for accessing the ZoneDirector CLI. If you are using a different Telnet/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`.

### To start and configure the Telnet/SSH client

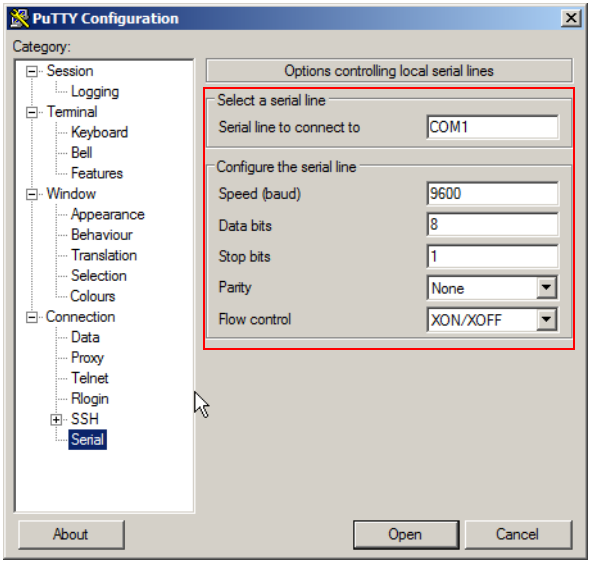
1. Start PuTTY. The PuTTY Configuration dialog box appears, showing the *Session* screen.
2. In *Connection type*, click **Serial**.

*Figure 1. Click Serial as the connection type*



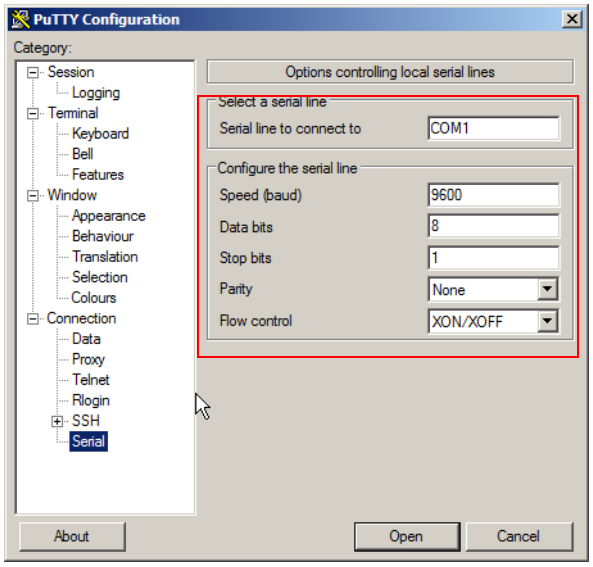

3. Under *Category*, click **Connection** > **Serial**. The serial connection options appear on the right side of the dialog box, displaying PuTTY's default serial connection settings.

*Figure 2. PuTTY's default serial connection settings*



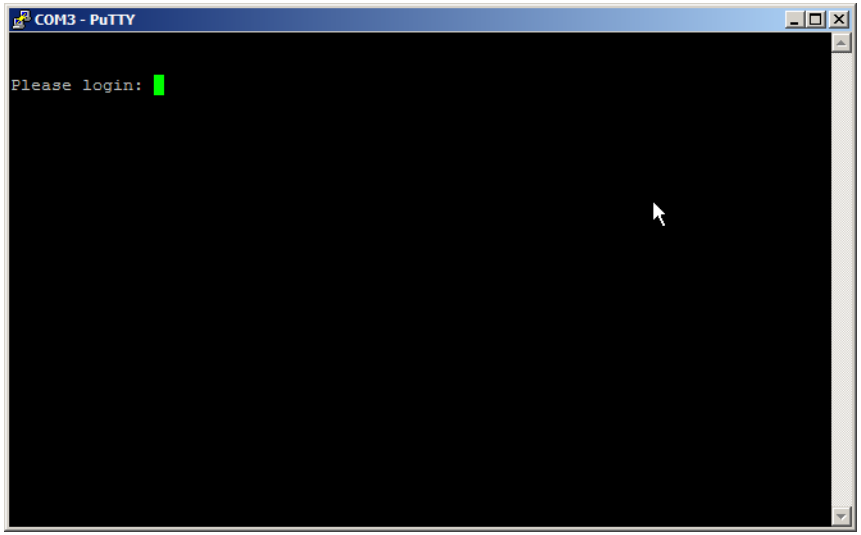
4. Configure the serial connection settings as follows:
   - *Serial line to connect to*: Type the COM port name to which you connected the RS-232 cable.
   - *Bits per second*: 115200
   - *Data bits*: 8
   - *Parity*: None
   - *Stop bits*: 1
   - *Flow control*: None

*Figure 3. PuTTY's serial connection settings for connecting to ZoneDirector*




5. Click **Open**. The PuTTY console appears and displays the login prompt.

*Figure 4. The PuTTY console displaying the login prompt*




You have completed configuring the Telnet/SSH client to connect to ZoneDirector.

## Step 3: Log Into the CLI

1. At the `Please login` prompt, type **`admin`**, and then press `<Enter>`.
2. At the `Password` prompt, type **`admin`**, and then press `<Enter>`. The Ruckus Wireless ZoneDirector CLI welcome message and the `ruckus` prompt appears.

You are now logged into the ZoneDirector CLI as a user with limited privileges. As a user with limited privileges, view a history of commands that were previously executed and ping a device. If you want to run more commands, you can switch to privileged mode by entering **`enable`** at the root prompt.

To view a list of commands that are available at the root level, enter **`help`** or **`?`**.

**NOTE:** You can tell if you logged into the CLI in limited or privileged mode by looking at the `ruckus` prompt. If you are in limited mode, the prompt appears as `ruckus>` (with a *greater than* sign). If you are in privileged mode, the prompt appears as `ruckus#` (with a pound sign).

# Using the Help Command

To display all commands that the Ruckus Wireless CLI supports, use the `help` command.

**CAUTION:** Entering the `help` command into the CLI prints a long list of commands on the screen. If you only want to view the commands that are available from within a specific context, use the `?` command. See "Using the ? Command" below for more information.

# Using the ? Command

To display commands that are available within a specific context, use the ? command.

**Example**

To display commands within the debug context, enter the following command:

```
ruckus# debug
ruckus(debug)# ?

     help        Shows available commands.
     history     Shows a list of previously run commands.
     quit        Exits the debug context.
     delete      Contains commands that can be executed from
                 within the context.
     restart     Contains commands that can be executed from
                 within the context.
```

# 2

# Viewing Current Configuration

**In This Chapter**

# Show Commands Overview

Show commands display the controller's current settings, including its status and system settings, and those of its AAA servers, access points, WLANs, and WLAN groups.

**NOTE:** You can only run `show` commands at the root prompt.

# Show AAA Commands

Use the `show aaa` commands to display information about the authentication and accounting servers (AAA) servers that have been added to the controller.

## show aaa all

To display a list of all AAA servers that have been added to the controller, use the following command:

```
show aaa all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `aaa` | Display AAA server information |
| `all` | All AAA servers |

**Defaults**

None.

**Example**

```
ruckus# show aaa all
AAA Servers
============================================================
ID: 1
Name: Local Database
Type: local
------------------------------------------------------------

ID: 2
Name: Guest Accounts
Type: guestpass
------------------------------------------------------------
```

## show aaa name

To display information about a specific AAA server that has been added to the controller, use the following command:

```
show aaa name {AAA server name}
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `aaa name` | Display information about the specified AAA server name |
| `{AAA server name}` | Name of the AAA server |

**Defaults**

None.

**Example**

```
ruckus()# show aaa name Ruckus-RADIUS
ID: 3
Name: Ruckus-RADIUS
Type: radius-auth
RADIUS Server IP Address: 192.168.0.33
RADIUS Server Port: 1812
RADIUS Server Shared Secret: testing123
------------------------------------------------------
```

# Show Access Point Commands

Use the `show ap` commands to display the current settings of managed devices, including their network address settings, device names, radio settings, and others.

## show ap all

To display a summary of all devices that have been approved, use the following command:

```
show ap all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `ap` | Show device information |
| `all` | All devices that have been approved by the controller |

**Defaults**

None.

**Example**

```
ruckus# show ap all
```

```
AP List
============================================================
AP
============================================================
Name: 00:13:92:EA:43:01
ID: 1
MAC Address: 00:13:92:EA:43:01
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NE
Location: Living Room
GPS Coordinates: 37.3881398,-122.0258633
------------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------------
Management IP Address: DHCP
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
------------------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
============================================================


AP
============================================================
Name: 00:13:92:EA:43:04
```

```
ID: 2
MAC Address: 00:13:92:EA:43:04
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NW
Location:
GPS Coordinates:
-----------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
-----------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
-----------------------------------------------------
Management IP Address: Keep AP's Setting
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
-----------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
=====================================================
```

## show ap devname

To display information about a specific device using its device name, use the following command:

```
show ap devname {device name}
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `ap devname` | Show information about the specified device name |
| `{device name}` | The name of the device |

**Defaults**

None.

**Example**

```
ruckus# show ap devname RuckusAP
AP
============================================================
Name: 00:13:92:EA:43:01
ID: 1
MAC Address: 00:13:92:EA:43:01
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NE
Location: Living Room
GPS Coordinates: 37.3881398,-122.0258633
------------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------------
Management IP Address: DHCP
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
------------------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
============================================================

AP
============================================================
Name: 00:13:92:EA:43:04
```

```
ID: 2
MAC Address: 00:13:92:EA:43:04
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NW
Location:
GPS Coordinates:
------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------
Management IP Address: Keep AP's Setting
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
------------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
======================================================

AP
======================================================
Name: 00:13:92:EA:43:07
ID: 3
MAC Address: 00:13:92:EA:43:07
Device Name: RuckusAP
Model: zf7962
Description: Warehouse SE
Location:
GPS Coordinates:
```

```
------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
------------------------------------------------------
Management IP Address: Manual
IP Address: 10.10.1.2
Netmask: 255.255.255.0
Gateway: 10.10.1.254
Primary DNS Server: 29.13.12.10
Secondary DNS Server: 29.13.13.10
------------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Manual (Only selected APs can be used for uplink)
AP MAC Address: 00:13:92:EA:43:01
AP MAC Address: 00:13:92:EA:43:04
======================================================

AP
======================================================
Name: 00:13:92:EA:43:0A
ID: 4
MAC Address: 00:13:92:EA:43:0A
Device Name: RuckusAP
Model: zf7942
Description: Warehouse SW
Location:
GPS Coordinates:
------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: Auto
Radio Channel: 11
TX Power: Auto
```

```
WLAN Group Name: Default
-----------------------------------------------------
Management IP Address: Keep AP's Setting
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
-----------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
=====================================================
```

## show ap mac

To search for the device that matches the specified MAC address, use the following command:

```
show ap mac {mac address}
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `ap mac` | Display information about the device with the specified MAC address |
| `{mac address}` | The MAC address of the device |

**Defaults**

None.

**Example**

```
ruckus# show
ruckus(show)# ap mac 00:13:92:EA:43:01
AP
=====================================================
Name: 00:13:92:EA:43:01
ID: 1
MAC Address: 00:13:92:EA:43:01
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NE
Location: Living Room
GPS Coordinates: 37.3881398,-122.0258633
-----------------------------------------------------
```

```
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: Auto
WLAN Group Name: Default
-------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: Auto
WLAN Group Name: Default
-------------------------------------------------------
Management IP Address: DHCP
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
-------------------------------------------------------
Mesh Status: Enabled
Mesh Mode: Auto (Mesh role is automatically assigned)
Uplink Selection: Smart (Mesh APs will automatically select the
best uplink)
=======================================================
```

# Show L2 Access Control List Commands

Use the `show l2acl` commands to display Layer 2 access control list rules that have been added to the controller.

## show l2acl all

To display all Layer 2 access control list (ACL) rules that have been added to the controller and their settings, use the following command:

```
show l2acl all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `l2acl` | Display L2 ACL information |
| `all` | All L2 ACL |

**Defaults**

None.

**Example**

```
ruckus# show l2acl all
L2/MAC ACL:
  ID:
    1:
      Name= System
      Description= System
      Restriction: Deny only the stations listed below
      Stations:
    2:
      Name= blocked-sta-list
      Description=
      Restriction: Deny only the stations listed below
      Stations:
```

## show l2acl name

To display the settings of a specific L2 ACL rule that has been added to the controller, use the following command:

```
show l2acl name {L2ACL-NAME}
```

**Syntax Description**

| | |
|---|---|
| show | Display information |
| l2acl | Display L2 ACL information |
| name | Display information about the specified L2 ACL rule name |
| {L2ACL-NAME} | Name of the L2 ACL rule |

**Defaults**

None.

**Example**

```
ruckus# show l2acl name 1
L2/MAC ACL:
  ID:
    2:
      Name= 1
      Description=
      Restriction: Deny only the stations listed below
      Stations:
        MAC Address= 00:33:22:45:34:88
```

# Show L3 Access Control List Commands

Use the `show l3acl` commands to display Layer 3 access control list rules that have been added to the controller.

## show l3acl all

To display all Layer 3 access control list (ACL) rules that have been added to the controller and their settings, use the following command:

```
show l3acl all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `l3acl` | Display L3 ACL information |
| `all` | All L3 ACL |

**Defaults**

None.

**Example**

```
ruckus# show l3acl all
L3/L4/IP ACL:
  ID:
    4:
      Name= test2
      Description= test2
      Default Action if no rule is matched= Deny all by default
      Rules:
        Order= 1
          Description=
          Type= Allow
          Destination Address= Any
          Destination Port= 53
          Protocol= Any
        Order= 2
          Description=
          Type= Allow
          Destination Address= Any
          Destination Port= 67
          Protocol= Any
        Order= 3
          Description=
          Type= Allow
          Destination Address= 8.8.8.8/24
```

```
          Destination Port= 25
          Protocol= 6
```

## show l3acl name

To display the settings of a specific L3 ACL rule that has been added to the controller, use the following command:

```
show l3acl name <l3_acl_name>
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `l3acl` | Display L3 ACL information |
| `name` | Display information about the specified L3 ACL rule name |
| `{L3 ACL rule name}` | Name of the L3 ACL rule |

**Defaults**

None.

**Example**

```
ruckus# show l3acl name test2
L3/L4/IP ACL:
  ID:
    4:
      Name= test2
      Description= test2
      Default Action if no rule is matched= Allow all by default
      Rules:
        Order= 1
          Description=
          Type= Allow
          Destination Address= Any
          Destination Port= 53
          Protocol= Any
        Order= 2
          Description=
          Type= Allow
          Destination Address= Any
          Destination Port= 67
          Protocol= Any
        Order= 3
          Description=
          Type= Allow
```

```
Destination Address= 8.8.8.8/24
Destination Port= 25
Protocol= 6
```

# Show Hotspot Commands

Use the `show hotspot` commands to display the controller's hotspot configuration settings.

## show hotspot all

To display a list of all hotspots that have been created on the controller, use the following command:

```
show hotspot all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `hotspot` | Display hotspot information |
| `all` | All available hotspots |

**Defaults**

None.

**Example**

```
ruckus# show hotspot all
Hotspot:
  ID:
    1:
      Name= New Name
      Login Page Url= myhotspot.com
     Start Page= redirect to the URL that the user intends to visit.
      Session Timeout= Disabled
      Idle Timeout= Disabled
      Authentication Server= Local Database
      Accounting Server= Disabled
      Location ID=
      Location Name=
      Walled Garden 1=
      Walled Garden 2=
      Walled Garden 3=
      Walled Garden 4=
      Walled Garden 5=
 IPv4 Rules:

 IPv6 Rules:

  ID:
    2:
```

```
      Name= New name2
      Login Page Url= myhotspot.com
     Start Page= redirect to the URL that the user intends to visit.
      Session Timeout= Disabled
      Idle Timeout= Disabled
      Authentication Server= Local Database
      Accounting Server= Disabled
      Location ID=
      Location Name=
      Walled Garden 1=
      Walled Garden 2=
      Walled Garden 3=
      Walled Garden 4=
      Walled Garden 5=
 IPv4 Rules:
        Order= 1
          Description= 10.9.5.55
          Type= Deny
          Destination Address= Any
          Destination Port= Any
          Protocol= Any

 IPv6 Rules:
```

## show hotspot name

To display information about the specific hotspot, use the following command:

```
show hotspot name <hotspot_name>
```

If the hotspot name includes a space, you must put the name in quotation marks (for example, "hotspot name".

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `hotspot name` | Display hotspot information |
| `<hotspot_name>` | The name of the hotspot |

**Defaults**

None.

**Example**

```
ruckus# show hotspot name "New name2"
Hotspot:
  ID:
    2:
```

```
      Name= New name2
      Login Page Url= myhotspot.com
     Start Page= redirect to the URL that the user intends to visit.
      Session Timeout= Disabled
      Idle Timeout= Disabled
      Authentication Server= Local Database
      Accounting Server= Disabled
      Location ID=
      Location Name=
      Walled Garden 1=
      Walled Garden 2=
      Walled Garden 3=
      Walled Garden 4=
      Walled Garden 5=
 IPv4 Rules:
        Order= 1
          Description= 10.9.5.55
          Type= Deny
          Destination Address= Any
          Destination Port= Any
          Protocol= Any

 IPv6 Rules:
```

# Show Role Commands

Use the `show role` commands to display details about roles that have been created on the controller.

## show role all

To display a list of all roles that have been created on the controller, use the following command:

```
show role all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `role` | Display role information |
| `all` | All roles that have been created |

**Defaults**

None.

**Example**

```
ruckus# show role all
Role:
  ID:
    1:
      Name= Default
      Description= Allow Access to All WLANs
      Group Attributes=
      Guest Pass Generation= Allowed
      ZoneDirector Administration= Disallowed
      Allow All WLANs= Allow access to all WLANs.

ruckus# show role name Default
Role:
  ID:
    1:
      Name= Default
      Description= Allow Access to All WLANs
      Group Attributes=
      Guest Pass Generation= Allowed
      ZoneDirector Administration= Disallowed
      Allow All WLANs= Allow access to all WLANs.
```

## show role name

To display information about the specific role, use the following command:

```
show role name <role_name>
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `role` | Display role information |
| `<role_name>` | The name of the role |

**Defaults**

None.

# Show User Commands

Use the `show user` commands to display details about user accounts that exist on the controller.

## show user all

To display a list of all existing user accounts, use the following command:

```
show user all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `user` | Display user information |
| `all` | All existing user accounts |

**Defaults**

None.

**Example**

```
ruckus# show user all
User:
  ID:
    1:
      User Name= test22
      Full Name= test11
      Password= test1234
      Role= Default
```

## show user name

To display information about the specific user, use the following command:

```
show user name <user_name>
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `user` | Display user information |
| `<user_name>` | The name of the user |

**Defaults**

None.

**Example**

```
ruckus# show user name test22
User:
  ID:
    1:
```

```
User Name= test22
Full Name= test11
Password= test1234
Role= Default
```

# Show Currently Active Clients Commands

Use the `show current-active-clients` commands to display a list of wireless clients that are associated with the APs that the controller manages.

## show current-active-clients all

To display a list of all existing user accounts, use the following command:

```
show current-active-clients all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `current-active-clients` | Display currently active wireless clients |
| `all` | All active wireless clients |

**Defaults**

None.

**Example**

```
ruckus# show current-active-clients all
Current Active Clients:
  Clients:
    Mac Address= 00:22:fb:5c:e2:32
    User/IP= 172.18.30.2
    User/IPv6=
    Access Point= 04:4f:aa:13:30:f0
    BSSID= 04:4f:aa:13:30:fa
    Connect Since=2011/03/01 02:48:22
    Auth Method= OPEN
    WLAN= 11jojoe
    VLAN= None
    Channel= 6
    Radio= 802.
    Signal= 0
    Status= Authorized

Last 300 Events/Activities:
  Activity:
```

```
    Date/Time= 2011/03/01 02:49:05
    Severity= Low
    User=
    Activities= User[00:22:fb:5c:e2:32] joins WLAN[11jojoe] from
AP[04:4f:aa:13:30:f0]
  Activity:
    Date/Time= 2011/03/01 02:48:22
    Severity= Low
    User=
Activities= User[00:22:fb:5c:e2:32] joins WLAN[11jojoe] from
AP[04:4f:aa:13:30:f0]
```

## show current-active-clients

To display information about the specific active client, use the following command:

```
show current-active-clients name <client_mac>
```

**Syntax Description**

| | |
|---|---|
| show | Display information |
| current-active-clients name | Display currently active wireless clients |
| <client_mac> | The MAC address of the wireless client |

**Defaults**

None.

**Example**

```
ruckus# show current-active-clients name 00:22:fb:5c:e2:32
Current Active Clients:
  Clients:
    Mac Address= 00:22:fb:5c:e2:32
    User/IP= 172.18.30.2
    User/IPv6=
    Access Point= 04:4f:aa:13:30:f0
    BSSID= 04:4f:aa:13:30:fa
    Connect Since=2011/03/01 02:48:22
    Auth Method= OPEN
    WLAN= 11jojoe
    VLAN= None
    Channel= 6
    Radio= 802.
    Signal= 29
    Status= Authorized
    Received from client= 32 pkts / 3233 bytes
    Transmitted to client= 283 pkts / 65010 bytes
```

```
    TX drops due to retry failure= 264 pkts

Last 300 Events/Activities:
  Activity:
    Date/Time= 2011/02/21 03:13:11
    Severity= Low
    User=
    Activities= User[00:22:fb:5c:e2:32] disconnects from
WLAN[joejo8] at AP[04:4f:aa:13:30:f0]
  Activity:
    Date/Time= 2011/02/21 03:12:54
    Severity= Low
    User=
    Activities= User[00:22:fb:5c:e2:32] joins WLAN[joejo8] from
AP[04:4f:aa:13:30:f0]
```

# Show Mesh Commands

Use the `show mesh` commands to display the controller's mesh network configuration and topology.

## show mesh info

To display a list of all mesh networks that have been formed, use the following command:

```
show mesh info
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `mesh` | Display mesh network information |
| `info` | Show mesh information |

**Defaults**

None.

**Example**

```
ruckus# show mesh info
Mesh Settings:
  Mesh Status= Disabled
  Mesh Name(ESSID)= Mesh-137903000198
  Mesh Passphrase= 6vAD_BDsbgkPkrxfuedshh38UGVSz-
eyO71aEpcqJf3OCo6vsbvZfUbp8aSi8PI
  Mesh Hop Detection= Disabled
  Mesh Downlinks Detection= Disabled
   Tx. Rate of Management Frame=  2Mbps
```

```
   Beacon Interval= 200ms
```

### show mesh topology

To display the topology of existing mesh networks, use the following command:

```
show mesh topology
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `mesh` | Display mesh network information |
| `topology` | Show mesh topology |

**Defaults**

None.

**Example**

```
ruckus# show mesh topology
Mesh Topology(Mesh-137903000198):
```

## Show Dynamic PSK Commands

Use the `show dynamic-psks` commands to display information about Dynamic PSKs that have been generated. Use the following command:

```
show dynamic-psks
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `dynamic-psks` | Display dynamic PSKs that have been generated |

**Defaults**

None.

**Example**

```
ruckus# show dynamic-psks
Generated Dynamic PSKs:
  DPSK:
    User= BatchDPSK_User_1
    Mac Address= 00:00:00:00:00:00
    Created= 2011/03/01 03:30:01
    Expired= Unlimited
  DPSK:
    User= BatchDPSK_User_2
    Mac Address= 00:00:00:00:00:00
    Created= 2011/03/01 03:30:02
    Expired= Unlimited
```

```
  DPSK:
    User= DPSK-User-2
    Mac Address= 00:11:22:33:44:55
    Created= 2011/03/01 03:30:47
    Expired= Unlimited
```

# Show Dynamic Certificate Commands

Use the `show dynamic-certs` commands to display information about Dynamic certificates that have been generated. Use the following command:

```
show dynamic-certs
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `dynamic-psks` | Display dynamic certificates that have been generated |

**Defaults**

None.

**Example**

```
ruckus# show dynamic-certs
Generated Dynamic Certs:
```

# Show Guest Pass Commands

Use the `show guest-passes` commands to display information about guest passes that have been generated. Use the following command:

```
show guest-passes
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `guest-passes` | Display guest passes that have been generated |

**Defaults**

None.

**Example**

```
ruckus# show guest-passes
Generated Guest Passes:
  ID:
    Guest Name= ruckus1
    Remarks= testforCLI
    Expires= 2011/03/02 01:55:40
    Re-auth=
    Creator= test22
```

```
    Sharable= No
    Wlan= joejoe988
```

# Show Rogue Device Commands

Use the `show rogue-devices` commands to display information about rogue devices that the controller has detected on the network. Use the following command:

```
show rogue-devices
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `rogue-devices` | Display rogues devices that have been detected on the network |

**Defaults**

None.

**Example**

```
ruckus# show rogue-devices
Current Active Rogue Devices:
  Rogue Devices:
    Mac Address= 00:25:c4:52:1c:a1
    Channel= 6
    Radio= 802.11bg
    Type= AP
    Encryption= Open
    SSID= V54-HOME001
    Last Detected= 2011/03/01 02:03:43

Known/Recognized Rogue Devices:
```

# Show Events and Activities Commands

Use the `show events-activities` commands to display information events and network activities that have been recorded by the controller. Use the following command:

```
show events-activities
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `rogue-devices` | Display a list of events and activities records by the controller |

**Defaults**

None.

**Example**

```
ruckus# show events-activities
Last 300 Events/Activities:
  Activity:
    Date/Time= 2011/03/01 02:02:03
    Severity= High
    User=
    Activities= A new Rogue[04:4f:aa:42:b6:49] with SSID[W2] is
detected
  Activity:
    Date/Time= 2011/03/01 02:02:03
    Severity= High
    User=
    Activities= A new Rogue[ac:67:06:1b:df:29] with SSID[Martin-
Wireless-1] is detected
```

# Show Alarm Commands

Use the `show alarm` commands to display alarms that have been generated by the controller. Use the following command:

```
show alarm
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `alarm` | Display a list of alarms that have been generated by the controller |

**Defaults**

None.

**Example**

```
ruckus# show alarm
Last 300 Alarms:
  Alarms:
    Date/Time= 2011/03/01 02:05:43
    Name= Rogue AP Detected
    Severity= High
    Activities= A new Rogue[ac:67:06:33:28:99] with SSID[Ruckus-
Wireless-1] is detected
  Alarms:
    Date/Time= 2011/03/01 02:05:43
    Name= Rogue AP Detected
    Severity= High
    Activities= A new Rogue[00:24:82:25:6a:4e] with SSID[island-
256A40] is detected
```

# Show License Commands

Use the `show license` commands to display the controller's license information, including the model number, the maximum number of APs that it can support, and the maximum number of wireless clients that managed APs can support. Use the following command:

```
show license
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `license` | Display the controller's license information |

**Defaults**

None.

**Example**

```
ruckus# show license
License:
  Model= ZD1006
  Max AP Number= 6
  Max Client Number= 1250
```

# Show System Configuration Commands

Use the `show config` commands to display the controller's system configuration settings.

## show config

To display the current system configuration settings, including network addressing, management VLAN, country code, logging, AAA servers, WLAN services, WLAN groups, AP list, SNMP, and ACLs, use the following command:

```
show config
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `config` | Display system configuration settings |

**Defaults**

None.

**Example**

```
ruckus# show config

Mode: Manual
IP Address: 192.168.122.1
```

```
Netmask: 255.255.255.0
Gateway Address: 172.17.16.1
Primary DNS: 172.17.17.5
Secondary DNS: 192.168.0.107


Management VLAN
=======================================================
Status: disabled
VLAN ID:


Country Code
=======================================================
Country Code: United States


NTP
=======================================================
Status: disabled
Address: 192.168.0.2


Log Settings
=======================================================
Status: disabled
Address: 192.168.0.101

AAA Servers
=======================================================
ID: 1
Name: Local Database
Type: local
-------------------------------------------------------

ID: 2
Name: Guest Accounts
Type: guestpass
-------------------------------------------------------

ID: 3
Name: Ruckus-Acct-01
```

```
Type: radius-acct
RADIUS Server IP Address: 192.168.0.123
RADIUS Server Port: 18130
RADIUS Server Shared Secret: vguvkpi345
-----------------------------------------------------------

ID: 4
Name: Ruckus-Auth-01
Type: radius-auth
RADIUS Server IP Address: 192.168.0.123
RADIUS Server Port: 18120
RADIUS Server Shared Secret: testing123
-----------------------------------------------------------

ID: 5
Name: Ruckus-Auth-02
Type: ad
Server IP Address: 192.168.0.3
Server Port: 18123
-----------------------------------------------------------


WLAN Service
===========================================================
ID: 1
Name: corporate
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
-----------------------------------------------------------
```

```
ID: 2
Name: guest
Description:
Authentication: open
Encryption: none
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Enabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
-------------------------------------------------------

ID: 3
Name: lobby
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
-------------------------------------------------------

ID: 4
Name: kitchen
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
```

```
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
------------------------------------------------------

ID: 5
Name: randy-wlansvc-01
Description: Randall Tsao Test WLAN
Authentication: 802.1x-eap
Encryption: wpa
Algorithm: aes
Passphrase:
Authentication Server: Ruckus-Auth-01
Accounting Server: Ruckus-Acct-01  Interim-Update: 5
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Enabled
Client Isolation: Enabled
VLAN: Enabled (ID=12)
Closed System: Enabled (Hide SSID)
L2/MAC: No ACLS
------------------------------------------------------



WLAN Group List
======================================================
WLAN Group
======================================================
ID: 1
Name: Default
Has-VLAN: true
WLAN Service: randy-wlansvc-01 (VLAN=)
------------------------------------------------------
```

```
AP List
============================================================
AP
============================================================
Name: 00:13:92:EA:43:01
ID: 1
MAC Address: 00:13:92:EA:43:01
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NE
Location: Living Room
GPS Coordinates: 37.3881398,-122.0258633
------------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel: 149
TX Power: 0
WLAN Group Name: Default
------------------------------------------------------------
Radio b/g/n (2.4GHz)
Channelization: 20
Radio Channel: 11
TX Power: 0
WLAN Group Name: Default
------------------------------------------------------------
Management IP Address: DHCP
IP Address:
Netmask:
Gateway:
Primary DNS Server:
Secondary DNS Server:
============================================================


AP
============================================================
Name: 00:13:92:EA:43:04
ID: 2
MAC Address: 00:13:92:EA:43:04
```

```
Device Name: RuckusAP
Model: zf7962
Description: Warehouse NW
Location:
GPS Coordinates:
------------------------------------------------------
Radio a/n (5GHz)
Channelization: 20
Radio Channel
```

# Show System Information Commands

Use the `show sysinfo` commands to display the controller's system information.

## show sysinfo

To display an overview of the system status, including system, devices, usage summary, user activities, system activities, used access points, and support information, use the following command:

```
show sysinfo
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `sysinfo` | Display an overview of various system statuses |

**Defaults**

None.

**Example**

```
ruckus# show sysinfo
System Overview
============================================================
System Name: airespider
IP Address: 192.168.0.1
MAC Address: 00:23:AE:8F:1C:0B
Uptime: 019d 14h 01m
Model: ZD3025
Licensed APs: 25
Serial Number: SN-cygwin
Version: 8.2.0.0 build 1111

Devices Overview
============================================================
# of APs: 5
```

```
# of Client Devices: 73
# of Rogue Devices: 5

Usage Summary
=========================================================
1 hr
Max Concurrent Users: 73
Bytes Transmitted: 15
# of Rogue Devices: 5
---------------------------------------------------------
24 hr
Max Concurrent Users: 103
Bytes Transmitted: 148
# of Rogue Devices: 0

User Activities
=========================================================
Date/Time          Severity     User Activities
---------------------------------------------------------

System Activities
=========================================================
Date/Time          Severity  Activities
---------------------------------------------------------
2009/10/29 19:01:52    High   A new Rogue[00:1E:2D:55:FF:20] with
SSID[unknown] is detected
2009/10/29 19:01:51    High   A new Rogue[00:1E:2D:55:FF:19] with
SSID[unknown] is detected
2009/10/29 19:01:50    High   A new Rogue[00:1E:2D:55:FF:18] with
SSID[unknown] is detected
2009/10/29 19:01:49     Low   WLAN[corporate] with
BSSID[00:1F:41:22:C2:D9] configuration has been updated on radio
[11g/n] of AP[Warehouse NW@00:13:92:EA:43:04]
2009/10/29 19:01:47    High   A new Rogue[00:1E:2D:55:FF:88] with
SSID[data] is detected
2009/10/29 19:01:46     Low   WLAN[corporate] with
BSSID[00:24:82:22:52:A9] configuration has been updated on radio
[11g/n] of AP[Warehouse NE@00:13:92:EA:43:01]
2009/10/29 19:01:45    High   A new Rogue[00:13:92:EA:43:01] with
SSID[unknown] is detected
2009/10/29 19:01:44    High   AP[Warehouse SE@00:13:92:EA:43:07]
fails to join
2009/10/29 19:01:43     Low   AP[Warehouse NE@00:13:92:EA:43:04]
joins
```

```
2009/10/29 19:01:42     Low   AP[Warehouse NE@00:13:92:EA:43:01]
joins
2009/10/29 19:01:41     Low   System restarted

Used Access Points
=========================================================
     MAC Address       IP Address       Description  Model  Clients
---------------------------------------------------------
00:13:92:EA:43:01         10.1.0.10       Warehouse NE  zf7962  31
00:13:92:EA:43:07         10.1.0.12       Warehouse SE  zf7962  21
00:13:92:EA:43:04         10.1.0.11        Warehouse NW  zf7962  8
00:13:92:EA:43:0D         10.1.0.14                AP5  zf2741  6
00:13:92:EA:43:0A         10.1.0.13        Warehouse SW  zf7942  0

Support
=========================================================
Company: Ruckus Wireless
Email: support@ruckuswireless.com
Support Website: http://support.ruckuswireless.com/
```

# Show Technical Support Commands

Use the following commands to display information that Ruckus Wireless may need when providing technical support.

## show techsupport

To display system information required by Technical Support, use the following command:

```
show techsupport
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `techsupport` | Display information about the controller that may be required by Ruckus Wireless Technical Support |

**Defaults**

None.

**Example**

```
ruckus# show techsupport
System Overview
=========================================================
System Name: airespider
```

```
IP Address: 192.168.0.1
MAC Address: 00:23:AE:8F:1C:0B
Uptime: 019d 14h 01m
Model: ZD3025
Licensed APs: 25
Serial Number: SN-cygwin
Version: 8.2.0.0 build 1111

Devices Overview
============================================================
# of APs: 5
# of Client Devices: 73
# of Rogue Devices: 5

Usage Summary
============================================================
1 hr
Max Concurrent Users: 73
Bytes Transmitted: 38
# of Rogue Devices: 5
------------------------------------------------------------
24 hr
Max Concurrent Users: 103
Bytes Transmitted: 69
# of Rogue Devices: 0

User Activities
============================================================
Date/Time          Severity     User Activities
------------------------------------------------------------

System Activities
============================================================
Date/Time          Severity  Activities
------------------------------------------------------------
2009/10/29 19:01:52    High   A new Rogue[00:1E:2D:55:FF:20] with
SSID[unknown] is detected
2009/10/29 19:01:51    High   A new Rogue[00:1E:2D:55:FF:19] with
SSID[unknown] is detected
2009/10/29 19:01:50    High   A new Rogue[00:1E:2D:55:FF:18] with
SSID[unknown] is detected
```

```
2009/10/29 19:01:49     Low   WLAN[corporate] with
BSSID[00:1F:41:22:C2:D9] configuration has been updated on radio
[11g/n] of AP[Warehouse NW@00:13:92:EA:43:04]
2009/10/29 19:01:47    High   A new Rogue[00:1E:2D:55:FF:88] with
SSID[data] is detected
2009/10/29 19:01:46     Low   WLAN[corporate] with
BSSID[00:24:82:22:52:A9] configuration has been updated on radio
[11g/n] of AP[Warehouse NE@00:13:92:EA:43:01]
2009/10/29 19:01:45    High   A new Rogue[00:13:92:EA:43:01] with
SSID[unknown] is detected
2009/10/29 19:01:44    High   AP[Warehouse SE@00:13:92:EA:43:07]
fails to join
2009/10/29 19:01:43     Low   AP[Warehouse NE@00:13:92:EA:43:04]
joins
2009/10/29 19:01:42     Low   AP[Warehouse NE@00:13:92:EA:43:01]
joins
2009/10/29 19:01:41     Low   System restarted

Used Access Points
==========================================================
    MAC Address       IP Address       Description  Model  Clients
----------------------------------------------------------
00:13:92:EA:43:01         10.1.0.10       Warehouse NE  zf7962  31
00:13:92:EA:43:07         10.1.0.12       Warehouse SE  zf7962  21
00:13:92:EA:43:04         10.1.0.11        Warehouse NW  zf7962  8
00:13:92:EA:43:0D         10.1.0.14                AP5  zf2741  6
00:13:92:EA:43:0A         10.1.0.13        Warehouse SW  zf7942  0

Support
==========================================================
Company: Ruckus Wireless
Email: support@ruckuswireless.com
Support Website: http://support.ruckuswireless.com/

Mode: Manual
IP Address: 192.168.122.1
Netmask: 255.255.255.0
Gateway Address: 172.17.16.1
Primary DNS: 172.17.17.5
Secondary DNS: 192.168.0.107


Management VLAN
==========================================================
```

```
Status: disabled
VLAN ID:


Country Code
============================================================
Country Code: United States


NTP
============================================================
Status: disabled
Address: 192.168.0.2


Log Settings
============================================================
Status: disabled
Address: 192.168.0.101

AAA Servers
============================================================
ID: 1
Name: Local Database
Type: local
------------------------------------------------------------

ID: 2
Name: Guest Accounts
Type: guestpass
------------------------------------------------------------

ID: 3
Name: Ruckus-Acct-01
Type: radius-acct
RADIUS Server IP Address: 192.168.0.123
RADIUS Server Port: 18130
RADIUS Server Shared Secret: vguvkpi345
------------------------------------------------------------

ID: 4
Name: Ruckus-Auth-01
```

```
Type: radius-auth
RADIUS Server IP Address: 192.168.0.123
RADIUS Server Port: 18120
RADIUS Server Shared Secret: testing123
------------------------------------------------------

ID: 5
Name: Ruckus-Auth-02
Type: ad
Server IP Address: 192.168.0.3
Server Port: 18123
------------------------------------------------------



WLAN Service
======================================================
ID: 1
Name: corporate
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
------------------------------------------------------

ID: 2
Name: guest
Description:
Authentication: open
Encryption: none
Authentication Server: Disabled
```

```
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Enabled
VLAN: Disabled
Closed System: Disabled (Broadca
```

# Show WLAN Commands

Use the following commands to display information about available WLANs on the controller.

## show wlan all

To display all available WLAN services (SSIDs), use the following command:

```
show wlan all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `wlan` | Display WLAN services (SSIDs) settings |
| `all` | All available WLANs/SSIDs |

**Defaults**

None.

**Example**

```
ruckus# show wlan all

WLAN Service
============================================================
ID: 1
Name: corporate
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
------------------------------------------------------------

ID: 2
Name: guest
```

```
Description:
Authentication: open
Encryption: none
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Enabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
-------------------------------------------------------

ID: 3
Name: lobby
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
-------------------------------------------------------

ID: 4
Name: kitchen
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
```

```
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
------------------------------------------------------

ID: 5
Name: randy-wlansvc-01
Description: Randall Tsao Test WLAN
Authentication: 802.1x-eap
Encryption: wpa
Algorithm: aes
Passphrase:
Authentication Server: Ruckus-Auth-01
Accounting Server: Ruckus-Acct-01  Interim-Update: 5
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Enabled
Client Isolation: Enabled
VLAN: Enabled (ID=12)
Closed System: Enabled (Hide SSID)
L2/MAC: No ACLS
------------------------------------------------------
```

## show wlan name

To display information about the specified WLAN service (SSID), use the following command:

```
show wlan name {WLAN name}
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `wlan name` | Display information about the specified WLAN name |
| `{WLAN name}` | The name of the WLAN |

**Defaults**

None.

**Example**

```
ruckus# show wlan name corporate
```

```
ID: 1
Name: corporate
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
------------------------------------------------------
```

## show wlan name stations

To display a list of wireless stations associated with the specified WLAN service, use the following command:

```
show wlan name {WLAN name} stations
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `wlan name` | Display information about the specified WLAN name |
| `{WLAN name}` | The name of the WLAN |
| `stations` | Display stations associated with the WLAN |

**Defaults**

None.

**Example**

```
ruckus# show wlan name corporate station
Clients
=======================================================
MAC Address: 00:10:77:01:00:01
User/IP Address: jyang
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 64
Signal (%): 11
```

```
-----------------------------------------------------
MAC Address: 00:10:77:01:00:02
User/IP Address: bob
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 60
Signal (%): 26
-----------------------------------------------------
MAC Address: 00:D4:05:01:03:03
User/IP Address: user0001
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 48
Signal (%): 42
-----------------------------------------------------
MAC Address: 00:10:77:01:00:01
User/IP Address: jyang
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 11
Signal (%): 22
-----------------------------------------------------
MAC Address: 00:10:77:01:00:02
User/IP Address: bob
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 1
Signal (%): 40
-----------------------------------------------------
MAC Address: 00:C9:21:01:01:03
User/IP Address: user0002
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 1
Signal (%): 33
-----------------------------------------------------
MAC Address: 00:0D:E5:01:01:04
User/IP Address: user0003
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 1
Signal (%): 18
```

```
-------------------------------------------------------
MAC Address: 00:C2:7D:01:01:05
User/IP Address: user0004
Access Point: 00:13:92:EA:43:01
WLAN: corporate
Channel: 6
Signal (%): 32
-------------------------------------------------------
MAC Address: 00:F5:35:02:03:01
User/IP Address: user0005
Access Point: 00:13:92:EA:43:04
WLAN: corporate
Channel: 52
Signal (%): 22
-------------------------------------------------------
MAC Address: 00:75:28:03:03:01
User/IP Address: user0006
Access Point: 00:13:92:EA:43:07
WLAN: corporate
Channel: 52
Signal (%): 34
-------------------------------------------------------
```

# Show WLAN Group Commands

Use the following commands to display information about the WLAN groups that exist on the controller.

## show wlan-group all

To display a list of existing WLAN groups, use the following command:

```
show wlan-group all
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `wlan-group` | Display information about the specified WLAN group |
| `all` | Show all WLAN groups |

**Defaults**

None.

**Example**

```
ruckus# show wlan-group all
WLAN Group List
```

```
=========================================================
WLAN Group
=========================================================
ID: 1
Name: Default
Has-VLAN: true
WLAN Service: randy-wlansvc-01 (VLAN=)
---------------------------------------------------------
```

## show wlan-group name

To display information about the specified WLAN group name, use the following command:

```
show wlan-group name {WLAN group name}
```

**Syntax Description**

| | |
|---|---|
| `show` | Display information |
| `wlan-group name` | Display information about the specified WLAN group name |
| `{WLAN group name}` | The name of the WLAN group |

**Defaults**

None.

**Example**

```
ruckus# show wlan-group name Default
WLAN Group
=========================================================
ID: 1
Name: Default
Has-VLAN: true
WLAN Service: randy-wlansvc-01 (VLAN=)
---------------------------------------------------------
```

# 3

# Configuring Controller Settings

**In This Chapter**

# Configuration Commands Overview

This chapter describes the commands that you can use to configure the different settings on the controller. Commands are divided into sections, including:

- Configure AAA Server Settings
- Configure Administration Preferences
- Configure Device's System Information

# Configure AAA Server Settings

The `config aaa` context contains commands for configure the AAA server settings. AAA server settings are classified into the following command types:

- Configure AAA Server Type Commands
- Configure AAA Network Addressing Commands
- Configure AAA RADIUS Commands

## Configure AAA Server Type Commands

Use the `aaa-type` commands to set the type of AAA server that is used by the controller for authentication purposes.

### type ad

To set the AAA server type to *Active Directory*', use the following command:

```
type ad
```

**Syntax Description**

| | |
|---|---|
| `type ad` | Set the AAA server type to ActiveDirectory |

**Defaults**

None.

**Example**

```
ruckus# config aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# type ad
The command was executed successfully.
```

### type ldap

To set the AAA server type to 'LDAP', use the following command:

```
type ldap
```

**Syntax Description**

| | |
|---|---|
| `type ldap` | Set the AAA server type to LDAP |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# type ldap
The command was executed successfully.
```

## type radius

To set the AAA server type to 'RADIUS', use the following command

```
type radius
```

**Syntax Description**

| | |
|---|---|
| `type radius` | Set the AAA server type to RADIUS |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# type radius
The command was executed successfully.
```

## type radius-acct

To set the AAA server type to 'RADIUS Accounting', use the following command:

```
type radius-acct
```

**Syntax Description**

| | |
|---|---|
| `type radius-acct` | Set the AAA server type to RADIUS Accounting |

**Defaults**

None.

**Example**

```
ruckus# config
```

```
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# type radius-acct
The command was executed successfully.
```

# Configure AAA Network Addressing Commands

Use the `ip-addr` commands to set the network address settings of AAA servers that the controller is using.

## ip-addr

To set the AAA server's IP address, use the following command:

```
ip-addr {IP address}
```

**Syntax Description**

| | |
|---|---|
| `ip-addr` | Set the AAA server IP address |
| `{IP address}` | Set to this IP address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# ip-addr 192.168.0.2
The command was executed successfully.
```

## ip-addr port

To set the AAA server's IP address and port number, use the following command:

```
ip-addr {IP address} port {port number}
```

**Syntax Description**

| | |
|---|---|
| `ip-addr {IP address}` | Set the AAA server IP address to this IP address |
| `port {port number}` | Set the AAA server to this port number to this port |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# ip-addr 192.168.0.2 port
1812
The command was executed successfully.
```

# Configure AAA RADIUS Commands

Use the `radius` commands to configure additional RADIUS server settings.

## radius-secret

To set the AAA server's shared secret, use the following command:

```
radius-secret {RADIUS secret}
```

**Syntax Description**

| | |
|---|---|
| `radius-secret` | RADIUS server secret |
| `{RADIUS secret}` | Set the RADIUS server secret to this secret |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# aaa Ruckus-Auth-02
The AAA server 'Ruckus-Auth-02' has been updated. To save the AAA
server, type end or exit.

ruckus(config-aaa-Ruckus-Auth-02)# type radius
The command was executed successfully.

ruckus(config-aaa-Ruckus-Auth-02)# radius-secret testing123
The command was executed successfully.
```

# Miscellaneous AAA Commands

This section lists miscellaneous AAA commands.

## domain-name

To set the Windows/Base domain name, use the following command:

```
domain-name <domain_name>
```

**Syntax Description**

| | |
|---|---|
| `domain-name` | Configure the Windows/Base domain name |
| `<domain_name>` | Set the Windows/Base domain name to this domain name |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# domain-name company.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no ad-global-catalog

To disable Global Catalog support, use the following command:

```
no ad-global-catalog
```

**Syntax Description**

| | |
|---|---|
| `no ad-global-catalog` | Disable Global Catalog support |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# no ad-global-catalog
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## ad-global-catalog

To enable Global Catalog support, use the following command:

```
ad-global-catalog
```

**Syntax Description**

| | |
|---|---|
| `ad-global-catalog` | Enable Global Catalog support |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# ad-global-catalog
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## admin-dn

To set the admin domain name, use the following command:

```
admin-dn <admin_dn_name>
```

**Syntax Description**

| | |
|---|---|
| admin-dn | Set the admin domain name |
| <admin_dn_name> | Set to this domain name |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# admin-dn domain_of_admin
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## admin-password

To set the admin password, use the following command:

```
admin-password <admin_password>
```

**Syntax Description**

| | |
|---|---|
| admin-password | Set the admin password |
| <admin_password> | Set to this password |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# admin-password test1234
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## key-attribute

To set the LDAP key attribute, use the following command:

```
key-attribute <attribute>
```

**Syntax Description**

| | |
|---|---|
| key-attribute | Set the LDAP key attribute |
| <attribute> | Set to this attribute |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# key-attribute mycompany
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

### search-filter

To set the LDAP search filter, use the following command:

```
search-filter <filter_name>
```

**Syntax Description**

| | |
|---|---|
| `search-filter` | Set the LDAP search filter |
| `<filter_name>` | Set to this filter |

**Defaults**

None.

**Example**

```
ruckus(config-aaa)# search-filter stringofsearch
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## Configure Administration Preferences

The `config admin` context contains commands for configuring and viewing administrator login and authentication settings.

- Configure Admin Login Commands
- Configure Admin Authentication Commands
- Display Administrator Account Settings

## Configure Admin Login Commands

Use the `admin-name` commands to set the admin user name and password.

### name

To set the administrator user name, use the following command:

```
name {admin name}
```

**Syntax Description**

| | |
|---|---|
| `name` | Configure the admin name setting |
| `{admin name}` | Set the admin name to this name |

**Defaults**

admin

**Example**

```
ruckus(config)# admin
ruckus(config-admin)# name admin
The command was executed successfully.
```

### name password

To set the admin name and password at the same time, use the following command:

```
name {admin name} password {password}
```

**Syntax Description**

| | |
|---|---|
| `name` | Configure the admin name setting |
| `{admin name}` | Set the admin name to this name |
| `password` | Configure the admin password |
| `{password}` | Set the admin password to this password |

**Defaults**

admin

**Example**

```
ruckus(config)# admin
ruckus(config-admin)# name admin password admin
The command was executed successfully.
```

## Configure Admin Authentication Commands

Use the `auth-server` commands to set the administrator authentication options with an external authentication server.

### no auth-server

To disable administrator authentication with a remote server, use the following command:

```
no auth-server
```

**Syntax Description**

| | |
|---|---|
| `no auth-server` | Disable admin authentication with an external server |

**Defaults**

None.

**Example**

```
ruckus(config-admin)# no auth-server
The command was executed successfully.
```

## auth-server

To enable administrator authentication with a remote server and set the authentication server, use the following command:

```
auth-server {server name}
```

**Syntax Description**

| | |
|---|---|
| `auth-server` | Admin authentication with an external server |
| `{server name}` | Set the authentication server to this server |

**Defaults**

None.

**Example**

```
ruckus(config-admin)# auth-server s
The AAA server 's' could not be found. Please check the spelling,
and then try again.
Invalid command

ruckus(config-admin)# auth-server Ruckus-Auth-02
The command was executed successfully.
```

## auth-server with fallback

To enable fallback authentication (for use when the remote server is unavailable), use the following command:

```
auth-server with fallback
```

**Syntax Description**

| | |
|---|---|
| `auth-server` | Admin authentication with an external server |
| `{server name}` | Set the auth-server to this server |
| `with fallback` | Enable fallback authentication if the remote authentication server is unavailable |

**Defaults**

None.

**Example**

```
ruckus(config-admin)# auth-server Ruckus-Auth-02 with fallback
The command was executed successfully.
```

# Display Administrator Account Settings

Use the `admin show` command to display the administrator account settings.

## admin show

To display the current admin user name and password, use the following command:

```
admin show
```

**Syntax Description**

| | |
|---|---|
| `admin` | Admin setting |
| `show` | Show current adminiatrator settings |

**Defaults**

None.

**Example**

```
ruckus(config-admin)# show

Administrator Info
==========================================================
Admin Name: admin
Password: admin
x-Password: benjo
Auth Mode: Authenticate using the admin user name and password
```

# Configure Device's System Information

Use the `ap` commands to configure the device's system information, including the device name, description, and location.

## ap

Setting the device's system information requires that first enter the `config-ap` context. To enter the `config-ap` context, enter the following command:

```
ap {MAC address}
```

**Syntax Description**

| | |
|---|---|
| `ap` | Access point |
| `{MAC address}` | MAC address of the access point for configuration |

**Defaults**

None.

**Example**

To configure the device with the specified MAC address, run this command:

```
ruckus# conf ap 00:13:92:00:33:1C
```

## devname

To set the device name, use the following command:

```
devname {device name}
```

**Syntax Description**

| | |
|---|---|
| `devname` | Device name |
| `{device name}` | Set the device name to this name |

**Defaults** None.

**Example**

```
ruckus# conf ap 00:13:92:00:33:1C

ruckus(config-ap-00:13:92:00:33:1C)# devname Ruckus-AP-1C
The command was executed successfully.
```

## description

To set the device description, use the following command:

```
description {description}
```

**Syntax Description**

| | |
|---|---|
| `description` | Device description |
| `{description}` | Set the device description to this text |

**Defaults** None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# description this-is-the-
device-description
The command was executed successfully.
```

## location

To set the device location, use the following command:

```
location {location}
```

**Syntax Description**

| | |
|---|---|
| `location` | Device location |
| `{location}` | Set the device location to this address |

**Defaults**

None.

**Example**

To set the device location to *Sunnyvale-Office*, run this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# location Sunnyvale-Office
The command was executed successfully.
```

# Configure Device Policy Commands

Use the `ap-policy` commands to configure the device's radio, heater, LED, and port state settings. To run these commands, you must first enter the `config-ap-policy` context.

For example, to configure a ZoneFlex 7762 AP, enter the following command:

```
ruckus(config-ap-policy)# ap-model zf7762
ruckus(config-ap-model)#
```

## show

To display the current device policy, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| `show` | Display the current device policy |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# show
AP Policy:
  Automatically approve all join requests from APs= Disabled
  Limited ZD Discovery= Enabled
    Primary ZoneDirector IP= 172.18.30.12
    Secondary  ZoneDirector IP= 172.18.30.28
  Management VLAN Mode= Enabled
    VLAN ID= 60
```

## limited-zd-discovery zd-ip

To configure devices to connect to a specific ZoneDirector and to set the primary and secondary ZoneDirector's IP addresses, use the following command:

```
limited-zd-discovery zd-ip [<primary_ip_addr> |
<secondary_ip_addr>]
```

**Syntax Description**

| | |
|---|---|
| `limited-zd-discovery zd-ip` | Configure devices to connect to a specific ZoneDirector |
| `<primary_ip_addr>` | IP address of the primary ZoneDirector |
| `<secondary_ip_addr>` | IP address of the secondary ZoneDirector |

**Defaults**

None.

## ap-max-clients

To set the maximum number of wireless clients that can associate with each device, use the following command:

```
ap-max-clients {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| `ap-max-clients` | Set the maximum number of clients per AP |
| `{NUMBER}` | Set to this number |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-max-clients 99
The Max clients of AP management has been updated.
```

## ap-radio 2.4 tx-power [Auto | Full|1/2|1/4|1/8|Min]

To set the TX power of the device's 2.4GHz radio, use the following command:

```
ap-radio 2.4 tx-power [Auto | Full|1/2|1/4|1/8|Min]
```

**Syntax Description**

| | |
|---|---|
| `ap-radio 2.4 tx-power` | Set the TX power of the 2.4GHz radio |
| `[Auto\|Full\|1/2\|1/4\|1/8\|Min]` | Set to this value |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-radio 2.4 tx-power 1/4
The command was executed successfully.
```

## ap-radio 2.4 11n-only [Auto | N-only]

To set the 11n mode of the 2.4GHz radio, use the following command:

```
ap-radio 2.4 11n-only [Auto|N-only]
```

**Syntax Description**

| | |
|---|---|
| `ap-radio 2.4 11n-only` | Set the 802.11n mode of 2.4GHz radio |
| `Auto` | Set to auto mode |
| `N-only` | Set to 11n only mode |

**Defaults** None.

**Example**

```
ruckus(config-ap-policy)# ap-radio 2.4 11n-only Auto
The command was executed successfully.
```

## ap-radio 5 tx-power

To set the TX power of the 5GHz radio, use the following command:

```
ap-radio 5 tx-power [Auto | Full|1/2|1/4|1/8|Min]
```

**Syntax Description**

| | |
|---|---|
| `ap-radio 5 tx-power` | Set the TX power of the 5GHz radio |
| `[Auto\|Full\|1/2\|1/4\|1/8\|Min]` | Set to this value |

**Defaults** None.

**Example**

```
ruckus(config-ap-policy)# ap-radio 5 tx-power 1/4
The command was executed successfully.
```

## ap-radio 5 11n-only

To set the 11n mode of the 5GHz radio, use the following command:

```
ap-radio 5 11n-only [Auto|N-only]
```

**Syntax Description**

| | |
|---|---|
| `ap-radio 5 11n-only` | Set the 802.11n mode of 5GHz radio |
| `Auto` | Set to auto mode |
| `N-only` | Set to 11n only mode |

**Defaults** None.

**Example**

```
ruckus(config-ap-policy)# ap-radio 5 11n-only N-only
The command was executed successfully.
```

## ap-internal-heater

To enable the internal heater on ZoneFlex 7762 devices, use the following command:

```
ap-internal-heater
```

**Syntax Description**

| | |
|---|---|
| `ap-internal-heater` | Enable the internal heater on ZoneFlex 7762 devices |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-internal-heater
The command was executed successfully.
```

## ap-poe-port

To enable the PoE-Out port on ZoneFlex 7762 devices, use the following command:

```
ap-poe-port
```

**Syntax Description**

| | |
|---|---|
| `ap-poe-port` | Enable the PoE-OUT port on ZoneFlex 7762 devices |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-poe-port
The command was executed successfully.
```

## led

To enable the Status LED on ZF 7343/7363/ZF7341/ZF 7762/7762-S/7762-T devices, use the following command:

```
led [ all | zf7343/7363/7341 |zf7762/7762-s/7762-t]
```

**Syntax Description**

| | |
|---|---|
| `led` | Enable the Status LED |
| `[ all\|zf7343/ 7363/7341\|zf7762/ 7762-s/7762-t]` | Enable on these devices |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# led zf7343/7363/7341
```

```
The command was executed successfully.
```

## ap-management-vlan

To enable and configure the device policy management VLAN, use the following command:

```
ap-management-vlan {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| `ap-management-vlan` | Enable and configure the device policy management VLAN |
| `{NUMBER}` | Set the management VLAN ID to this |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-management-vlan 60
The command was executed successfully.
```

## no ap-management-vlan

To disable the device policy management VLAN, use the following command:

```
no ap-management-vlan
```

**Syntax Description**

| | |
|---|---|
| `no ap-management-vlan` | Disable the device policy management VLAN |

**Defaults**

None.

## ap-auto-approve

To enable the automatic approval of join requests from devices, use the following command:

```
ap-auto-approve
```

**Syntax Description**

| | |
|---|---|
| `ap-auto-approve` | Enable the automatic approval of join requests from devices |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)# ap-auto-approve
The AP automatically approve policy has been updated.
```

## no ap-auto-approve

To disable the automatic approval of join requests from devices, use the following command:

```
no ap-auto-approve
```

**Syntax Description**

| | |
|---|---|
| `no ap-auto-approve` | Disable the automatic approval of join requests from devices |

**Defaults**

None.

## limited-zd-discovery

To specify the ZoneDirectors that devices can join, use the following command:

```
limited-zd-discovery zd-ip [<primary_ip_addr> |
<secondary_ip_addr>]
```

**Syntax Description**

| | |
|---|---|
| `limited-zd-discovery zd-ip` | Specify the ZoneDirectors that devices can join |
| `<primary_ip_addr>` | IP address of the primary ZoneDirector |
| `<secondary_ip_addr>` | IP address of the secondary ZoneDirector |

**Defaults**

None.

**Example**

```
ruckus(config-ap-policy)#limited-zd-discovery zd-ip
172.18.30.12 172.18.30.28
The Limited ZoneDirector discovery function has been updated.
```

## no limited-zd-discovery

To allow devices to join any available ZoneDirector devices on the network, use the following command:

```
no limited-zd-discovery
```

**Syntax Description**

| | |
|---|---|
| `no limited-zd-discovery` | Allow devices to join any available ZoneDirector devices on the network |

**Defaults**

None.

## no ap-internal-heater

To disable the internal heater on ZoneFlex 7762 devices, use the following command:

```
no ap-internal-heater
```

**Syntax Description**

| | |
|---|---|
| `no ap-internal-heater` | Disable the internal heater on ZoneFlex 7762 devices |

**Defaults**

None.

## no ap-poe-port

To disable the PoE-Out port on ZoneFlex 7762 devices, use the following command:

```
no ap-poe-port
```

**Syntax Description**

| | |
|---|---|
| `no ap-poe-port` | Disable the PoE-OUT port on ZoneFlex 7762 devices |

**Defaults**

None.

## no led

To disable the Status LED on ZF 7343/7363/ZF7341/ZF 7762/7762-S/7762-T devices, use the following command:

```
no led [ all | zf7343/7363/7341 |zf7762/7762-s/7762-t]
```

**Syntax Description**

| | |
|---|---|
| `no led` | Disable the Status LED |
| `[ all\|zf7343/ 7363/7341\|zf7762/ 7762-s/7762-t]` | Disable on these devices |

**Defaults**

None.

## ap_model

To configure the port state of supported devices, use the following command:

```
ap_model [zf7025|zf7942|zf7962|zf7762|zf7762-s|zf7762-
t|zf7343|zf7363|zf2942|zf2741]
```

Entering the above command enable you to enter the `ruckus(config-ap-model)#` context. See "Configure Device Port State Commands" on page 77 for commands that you can execute within that context.

**Syntax Description**

| | |
|---|---|
| `ap_model` | Configure the port state of supported devices |
| `[ all\|zf7343/ 7363/7341\|zf7762/ 7762-s/7762-t]` | Configure these devices |

**Defaults**

None.

# Configure Device Port State Commands

Use the `config-ap-model` commands to configure the port state of supported devices.

## abort

To exit the `config-ap-model` context without saving changes, use the following command:

```
abort
```

**Syntax Description**

| | |
|---|---|
| `abort` | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-ap-model)# abort
No changes have been saved.
ruckus(config-ap-policy)#
```

## end

To save changes, and then exit the `config-ap-model` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| `end` | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-ap-model)# end
Your changes have been saved.
```

## exit

To save changes, and then exit the `config-ap-model` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| `exit` | Save changes, and then exit the context |

**Defaults** None.

**Example**

```
ruckus(config-ap-model)# exit
Your changes have been saved.
ruckus(config-ap-policy)#
```

## quit

To exit the `config-ap-model` context without saving changes, use the following command:

```
quit
```

**Syntax Description**

| | |
|---|---|
| `quit` | Exit the context without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-ap-model)# quit
No changes have been saved.
ruckus(config-ap-policy)#
```

## show

To show a device's port state, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| `show` | Display the device's port state |

**Defaults** None.

**Example**

```
ruckus(config-ap-model)# show
      Model= zf2942
        PORT_STATUS     PORT_TYPE       VLAN_ID
LAN 1     Enable      Trunk Port      23
LAN 2     Enable      Trunk Port      20
```

## no lan

To disable a specific port on devices, use the following command:

```
no lan <port_number>
```

**Syntax Description**

| | |
|---|---|
| `no lan` | Disable a specific port on devices |
| `<port_number>` | Disable this port |

**Defaults**

None.

**Example**

```
ruckus(config-ap-model)# no lan 2
ruckus(config-ap-model)#
```

## lan

To enable a specific port on devices, use the following command:

```
lan <port_number>[ access-port |trunk-port] [NO_VLAN | vlan_id
<ap_vlan_id>]
```

**Syntax Description**

| | |
|---|---|
| `lan` | Disable a specific port on devices |
| `<port_number>` | Disable this port |
| `[ access-port \|trunk-port]` | Set the port type |
| `NO_VLAN` | Disable VLAN |
| `vlan_id <ap_vlan_id>` | Enable VLAN and set the VLAN ID |

**Defaults**

None.

**Example**

```
ruckus(config-ap-model)# lan 2
ruckus(config-ap-model)#
ruckus(config-ap-model)# lan 2 access-port vlan-id 20
The command was executed successfully.
ruckus(config-ap-model)# lan 1 trunk-port vlan-id 22
The command was executed successfully.
```

# Configure Device Network Addressing Commands

Use the `config ap ip-addr` commands to configure the device's IP address, netmask, gateway, and IP addressing mode.

## ip addr

To set the device's IP address and netmask, use the following command:

```
ip addr {IP address} {netmask}
```

Use a space ( ) to separate the IP address and netmask.

**Syntax Description**

| | |
|---|---|
| ip addr | IP address |
| {IP address} | Set the IP address to this address |
| {netmask} | Set the netmask to this address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# ip addr 192.168.0.33
255.255.255.0
The command was executed successfully.
```

## ip addr gateway

To set the device's IP address, netmask, and gateway IP address at the same time, use the following command:

```
ip addr {IP address} {netmask} gateway {gateway IP address}
```

**Syntax Description**

| | |
|---|---|
| ip addr | IP address |
| {IP address} | Set the IP address to this address |
| {netmask} | Set the netmask to this address |
| gateway | Gateway IP address |
| {gateway IP address} | Set the gateway IP address to this address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
```

```
ruckus(config-ap-00:13:92:00:33:1C)# ip addr 192.168.0.33
255.255.255.0 gateway 192.168.0.1
The command was executed successfully.
```

## ip mode

To set the device's IP address mode setting, use the following command:

```
ip mode {dhcp | static | keep}
```

**Syntax Description**

| | |
|---|---|
| ip mode | IP address mode |
| {dhcp} | Set the device's IP address mode to DHCP |
| {static} | Set the device's IP address mode to static |
| {keep} | Leave the IP address mode unchanged |

**Defaults**

None.

**Example**

To set the device's IP address mode to 'static', run this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# ip mode static
The command was executed successfully.
```

## ip name-server

To set the device's DNS servers, use the following command:

```
ip name-server {NS1} {NS2}
```

Use a space ( ) to separate the primary and secondary DNS servers.

**Syntax Description**

| | |
|---|---|
| ip name-server | Nameserver IP addresses |
| {NS1} | Set the primary nameserver to this IP address |
| {NS2} | Set the secondary nameserver to this IP address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# ip name-server 192.168.0.2
192.168.0.3
The command was executed successfully.
```

# Configure the 2.4GHz Radio Commands

Use the `radio 2.4` commands to configure the 2.4GHz radio settings of a device. To run these commands, you must first enter the `config-ap` context.

## radio 2.4 channel

To set the 2.4GHz radio to use a specific channel, use the following command:

```
radio 2.4 channel {channel number}
```

**Syntax Description**

| | |
|---|---|
| radio 2.4 | 2.4GHz radio settings |
| channel | Radio channel |
| {channel number} | Set the radio channel to this number |

**Defaults**

None.

**Example**

To set the 2.4Ghz radio to channel 1, enter this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 2.4 channel 1
The command was executed successfully.
```

## radio 2.4 channel auto

To set the 2.4GHz radio to use 'Auto' channel, use the following command:

```
radio 2.4 channel auto
```

**Syntax Description**

| | |
|---|---|
| radio 2.4 | 2.4GHz radio settings |
| channel | Radio channel |
| auto | Set the radio channel to 'auto' |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 2.4 channel auto
The command was executed successfully.
```

## radio 2.4 tx-power

To set the 2.4GHz radio to use a specific TX power setting, use the following command:

```
radio 2.4 tx-power {TX power}
```

**Syntax Description**

| | |
|---|---|
| radio 2.4 | 2.4GHz radio settings |
| tx-power | TX power setting |
| {TX power} | Set the TX power to this number |

**Defaults**

None.

**Example**

To set the TX power to 1, run this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 2.4 tx-power 1
The command was executed successfully.
```

## radio 2.4 tx-power auto

To set the 2.4GHz radio to use auto TX power setting, use the following command:

```
radio 2.4 tx-power auto
```

**Syntax Description**

| | |
|---|---|
| radio 2.4 | 2.4GHz radio settings |
| tx-power | TX power setting |
| auto | Set the TX power to auto |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 2.4 tx-power auto
The command was executed successfully.
```

## radio 2.4 wlan-group

To asssign the 2.4GHz radio to the specific WLAN group, use the following command:

```
radio 2.4 wlan-group {WLAN group name}
```

**Syntax Description**

| | |
|---|---|
| radio 2.4 | 2.4GHz radio settings |

| | |
|---|---|
| wlan-group | WLAN group |
| {WLAN group name} | Assign the radio to this WLAN group |

**Defaults**

None.

**Example**

To assign the 2.4GHz radio to a WLAN group named *Default*, run this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 2.4 wlan-group Default
The command was executed successfully.
```

# Configure the 5GHz Radio Commands

Use the `radio 5` commands to configure the 5GHz radio settings of a device. To run these commands, you must first enter the `config-ap` context.

## radio 5 channel

To set the 5GHz radio to a specific channel, use the following command:

```
radio 5 channel {channel number}
```

**Syntax Description**

| | |
|---|---|
| radio 5 | 5GHz radio settings |
| channel | Radio channel |
| {channel number} | Set the radio channel to this number |

**Defaults**

None.

**Example**

To set the 5GHz channel to 100, run this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 5 channel 100
The command was executed successfully.
```

## radio 5 channel auto

To set the 5GHz radio to use 'Auto' channel, use the following command:

```
radio 5 channel auto
```

**Syntax Description**

| | |
|---|---|
| radio 5 | 5GHz radio settings |

| | |
|---|---|
| channel | Radio channel |
| auto | Set the radio channel to 'auto' |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 5 channel auto
The command was executed successfully.
```

## radio 5 tx-power

To set the 5GHz radio to use a specific TX power setting, use the following command:

```
radio 5 tx-power {TX power}
```

**Syntax Description**

| | |
|---|---|
| radio 5 | 5GHz radio settings |
| tx-power | TX power settings |
| {TX power} | Set the TX power to this number |

**Defaults**

None.

**Example**

To set the 5GHz radio TX power to 1, enter this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 5 tx-power 1
The command was executed successfully.
```

## radio 5 tx-power auto

To set the 5GHz radio to use auto TX power setting, use the following command:

```
radio 5 tx-power auto
```

**Syntax Description**

| | |
|---|---|
| radio 5 | 5GHz radio settings |
| tx-power | TX power settings |
| auto | Set the TX power to auto |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 5 tx-power auto
The command was executed successfully.
```

## radio 5 wlan-group

To asssign the 5GHz radio to the specific WLAN group, use the following command:

```
radio 5 wlan-group {WLAN group name}
```

**Syntax Description**

| | |
|---|---|
| radio 5 | Configure the 5GHz radio settings |
| wlan-group | WLAN group settings |
| {WLAN group name} | Assign the radio to this WLAN group |

**Defaults**

None.

**Example**

To assign the 5GHz radio to a WLAN group named *Default*, enter this command:

```
ruckus# config
ruckus(config)# ap 00:13:92:00:33:1C
ruckus(config-ap-00:13:92:00:33:1C)# radio 5 wlan-group Default
The command was executed successfully.
```

# Configure Management VLAN Commands

Use the `config ap management vlan` commands to configure and display the management VLAN settings.

## ap-management-vlan

To enable the device's policy VLAN and update the VLAN ID to the specified ID number, use the following command:

```
ap-management-vlan {vlan id}
```

**Syntax Description**

| | |
|---|---|
| ap-management-vlan | Management VLAN settings |
| {vlan id} | Set the management VLAN ID to this value |

**Defaults**

Disabled.

**Example**

```
ruckus(config)# ap-management-vlan 3
```

```
The AP management VLAN has been updated.
ruckus(config)#
```

# Configure Layer 2 Access Control Commands

Use the `layer2 access control` commands to configure the Layer 2 Access Control List settings. To run these commands, you must first enter the `config-l2acl` context.

To enter the `config-l2acl` context, run this command:

```
ruckus# config
ruckus(config)# l2acl L2ACL-policy
ruckus(config-l2acl-L2ACL-policy)#
```

## abort

To exit the `config-l2acl` context without saving changes, use the following command:

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the `config-l2acl` context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-l2acl` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes and exit the `config-l2acl` context |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# end
The L2 ACL entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-l2acl` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes and exit the `config-l2acl` context |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# exit
The L2 ACL entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-l2acl` context without saving changes, use the following command:

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the `config-l2acl` context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# abort
No changes have been saved.
ruckus(config)#
```

## show

To displays the L2 ACL settings, use the `show` command. You must run this command from within the `config-l2acl` context.

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the Layer 2 access control list settings |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# show
L2/MAC ACL:
  ID:
    3:
      Name= test
      Description=
      Restriction: Deny only the stations listed below
      Stations:
        MAC Address= 00:01:02:34:44:55
        MAC Address= 00:01:02:34:44:56
```

## no acl

To delete an L2 ACL, use the following command:

```
no acl {ACL name}
```

**Syntax Description**

| | |
|---|---|
| no acl | Delete an existing ACL |
| {ACL name} | Delete this ACL |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# no acl L2_ACL_NAME
The L2 ACL 'L2_ACL_NAME' has been deleted.
```

## acl

To create a new L2 ACL entry or update an existing entry, use the following command:

```
acl {ACL name}
```

**Syntax Description**

| | |
|---|---|
| acl | Create a new ACL |
| {ACL name} | Assign this name to the new ACL |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)#
```

## abort

To exit the `config-l2acl-{ACL name}` context without saving changes, use the following command:

```
acl {ACL name} abort
```

**Syntax Description**

| | |
|---|---|
| acl | ACL context |
| {ACL name} | Name of the ACL context |
| abort | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# abort
No changes have been saved.
```

## end

To save changes, and then exite the config-l2acl-`{ACL name}` context, use the following command:

```
acl {ACL name} end
```

**Syntax Description**

| | |
|---|---|
| acl | ACL context |
| {ACL name} | Name of the ACL context |
| end | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# end
Your changes have been saved.
```

## exit

To save changes, and then exit the config-l2acl-`{ACL name}` context, use the following command:

```
acl {ACL name} exit
```

**Syntax Description**

| | |
|---|---|
| acl | ACL context |
| {ACL name} | Name of the ACL context |
| exit | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# exit
Your changes have been saved.
```

## quit

To exit the `config-l2acl-{ACL name}` context without saving changes, use the following command:

```
acl {ACL name} quit
```

**Syntax Description**

| | |
|---|---|
| acl | ACL context |
| {ACL name} | Name of the ACL context |
| quit | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# quit
Your changes have been saved.
```

## acl name

To rename an L2 ACL entry, use the following command:

```
acl {ACL name} name
```

**Syntax Description**

| | |
|---|---|
| acl | ACL context |

| | |
|---|---|
| {ACL name} | Name of the ACL context |
| name {new name} | Rename the ACL to {new name} |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# name L2_ACL_New_Name
The command was executed successfully.
```

## acl description

To set the description of an L2 ACL entry, use the following command:

```
description {description}
```

**Syntax Description**

| | |
|---|---|
| description {description} | Set the L2 ACL description to {description} |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# description Description-123
The command was executed successfully.
```

## add mac

To add a MAC address to the L2 ACL, use the following command:

```
add mac {MAC address}
```

**Syntax Description**

| | |
|---|---|
| add mac | Add a MAC address to the ACL |
| {MAC address} | Add this MAC address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
```

```
ruckus(config-l2acl-L2_ACL_NAME)# add mac 00:11:22:33:44:55
The station '00:11:22:33:44:55' has been added to the ACL.
```

## add-mac

To add a MAC address to the L2 ACL, use the following command:

```
add-mac {MAC}
```

**Syntax Description**

| | |
|---|---|
| add-mac | Add a MAC address to the L2 ACL |
| {MAC} | Add this MAC address |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# add-mac 00:01:02:34:44:55
The station '00:01:02:34:44:55' has been added to the ACL.
ruckus(config-l2-acl)# add-mac 00:01:02:34:44:55
The station '00:01:02:34:44:55' already exists in the list.
```

## mode allow

To set the ACL mode to 'allow', use the following command:

```
mode allow
```

**Syntax Description**

| | |
|---|---|
| mode allow | Set the ACL mode to allow |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# mode allow
The command was executed successfully.
```

## mode deny

To set the ACL mode to 'deny', use the following command:

```
mode deny
```

**Syntax Description**

| | |
|---|---|
| mode allow | Set the ACL mode to deny |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# l2acl L2_ACL_NAME
The L2 ACL entry 'L2_ACL_NAME' has been created.
ruckus(config-l2acl-L2_ACL_NAME)# mode deny
The command was executed successfully.
```

## no-mac

To delete a MAC address from an L2 ACL, use the following command:

```
no-mac {MAC address}
```

**Syntax Description**

| | |
|---|---|
| no-mac | Delete a MAC address from the ACL |
| {MAC address} | Delete this `{MAC address}` |

**Defaults**

None.

**Example**

```
ruckus(config-l2-acl)# no-mac 00:01:02:34:44:55
The station '00:01:02:34:44:55' has been removed from the ACL.
ruckus(config-l2-acl)# no-mac 00:01:02:34:44:55
The station '00:01:02:34:44:55' could not be found. Please check
the spelling, and then try again.
```

# Configure Layer 3 Access Control Commands

Use the `l3acl` commands to configure the Layer 3 Access Control List settings. To run these commands, you must first enter the `config-l2acl` context.

To enter the `config-l3acl` context, run this command:

```
ruckus# config
ruckus(config)# l3acl
ruckus(config-l3acl)#
```

## abort

To exit the `config-l3acl-{ACL name}` context without saving changes, use the following command:

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl)# abort
No changes have been saved.

ruckus(config)#
```

## end

To save changes, and then exit the config-l3acl-`{ACL name}` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl)# end
The L3/L4/IP ACL entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-l3acl` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes and exit the `config-l3acl` context |

**Defaults**

None.

**Example**

```
ruckus# config-l3acl
ruckus(config-l3acl)# exit
Your changes have been saved.
```

## quit

To exit the `config-l3acl` context without saving changes, use the following command:

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the context without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl)# quit
No changes have been saved.
ruckus(config)#
```

## show

To display the L3ACL settings, use the `show` command. You must run this command from within the `config-l3acl` context.

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the Layer 3 access control list settings |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl)# show
L3/L4/IP ACL:
```

```
ID:
  3:
    Name= test_newname
    Description= justfortestCLI
    Default Action if no rule is matched= Deny all by default
    Rules:
      Order= 1
        Description=
        Type= Allow
        Destination Address= Any
        Destination Port= 53
        Protocol= Any
      Order= 2
        Description=
        Type= Allow
        Destination Address= Any
        Destination Port= 67
        Protocol= Any
```

## name

To set the name of an  L3/L4/IP ACL entry, use the following command:

```
name {L3ACL-NAME}
```

**Syntax Description**

| | |
|---|---|
| name | Set the name of an  L3/L4/IP ACL entry |
| {L3ACL-NAME} | Name of the L3/L4/IP ACL entry |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl)# name test_newname
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## description

To set the description of an L3/L4/IP ACL entry, use the following command:

```
description {DESCRIPTION}
```

**Syntax Description**

| | |
|---|---|
| description | Set the L3/L4/IP ACL entry description |
| {DESCRIPTION} | Set to this description |

**Defaults** None.

**Example**

```
ruckus(config-l3acl)# description justfortestCLI
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## mode allow

To set the ACL mode to 'allow', use the following command:

```
mode allow
```

**Syntax Description**

| | |
|---|---|
| mode | Set the ACL mode |
| allow | Set the mode to 'allow' |

**Defaults** None.

**Example**

```
ruckus(config-l3acl)# mode allow
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## mode deny

To set the ACL mode to 'deny', use the following command:

```
mode allow
```

**Syntax Description**

| | |
|---|---|
| mode | Set the ACL mode |
| deny | Set the mode to 'deny' |

**Defaults** None.

**Example**

```
ruckus(config-l3acl)# mode deny
```

```
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no rule-order

To delete a rule from the L3/L4/IP ACL, use the following command:

```
no rule-order <rule_order_id>
```

**Syntax Description**

| | |
|---|---|
| no rule-order | Delete a rule from the L3/L4/IP ACL |
| <rule_order_id> | Delete this rule ID |

**Defaults**

None.

**Example**

For example, to delete rule 3 from the ACL, use the following command:

```
ruckus(config-l3acl)# no rule-order 3
The rule '3' has been removed from the ACL.
```

## rule-order

To create or modify a rule in the L3/L4/IP ACL, use the following command:

```
rule-order <rule_order_id>
```

**Syntax Description**

| | |
|---|---|
| rule-order | Create a new rule or modify an existing one |
| <rule_order_id> | Create or modify this rule ID |

**Defaults**

None.

**Example**

For example, to set the current rule as the third ACL rule to apply, use the following command:

```
ruckus(config-l3acl)# rule-order 3
ruckus(config-l3acl-rule)#
```

# Configure Layer 3 Access Control Rule Commands

Use the `l3acl-rule` commands to configure the Layer 3 Access Control List rules. To run these commands, you must first enter the `config-l3acl-rule` context.

To enter the `config-l3acl-rule` context, run this command:

```
ruckus# config
ruckus(config)# l3acl-rule
ruckus(config-l3acl-rule)#
```

## end

To save changes, and then exit the `config-l3acl-{ACL name}` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl-rule)# end
ruckus(config-l3acl)#
```

## exit

To save changes, and then exit the `config-l3acl-{ACL name}` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl-rule)# exit
ruckus(config-l3acl)#
```

## order

To set the order of an L3/L4/IP ACL rule, use the following command:

```
order <rule_order_id>
```

**Syntax Description**

| | |
|---|---|
| order | Set the order of a rule |
| <rule_order_id> | Set the rule to this order |

**Defaults** None.

**Example**

```
ruckus(config-l3acl-rule)# order 3
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## description

To set the description of an L3/L4/IP ACL rule, use the following command:

```
description {DESCRIPTION}
```

**Syntax Description**

| | |
|---|---|
| description | Set the L3/L4/IP ACL rule description |
| {DESCRIPTION} | Set to this description |

**Defaults** None.

**Example**

```
ruckus(config-l3acl-rule)# description third13rule
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## type allow

To set the ACL rule type to 'allow', use the following command:

```
type allow
```

**Syntax Description**

| | |
|---|---|
| type | Set the ACL rule type |
| allow | Set the rule type to 'allow' |

**Defaults** None.

**Example**

```
ruckus(config-l3acl-rule)# type allow
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## type deny

To set the ACL rule type to 'deny', use the following command:

```
type deny
```

**Syntax Description**

| | |
|---|---|
| type | Set the ACL rule type |
| deny | Set the rule type to 'deny' |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl-rule)# type deny
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## destination address

To set the destination address of the rule, use the following command:

```
destination address <IP-ADDR/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination address | Set the destination address of the rule |
| IP-ADDR/WORD | Set the destination to this IP address |

**Defaults**

None.

**Example**

```
ruckus(config-l3acl-rule)# destination address 192.168.1.22
The destination IP address is invalid. Please enter 'Any' or check
the IP address(for example:192.168.0.1/24), and then please try
again.
ruckus(config-l3acl-rule)# destination address 192.168.1.22/24
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## destination port

To set the destination port of the rule, use the following command:

```
destination port <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination port | Set the destination port of the rule |
| <NUMBER/WORD> | Set the destination to this port number |

**Defaults** None.

**Example**

```
ruckus(config-l3acl-rule)# destination port 580
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

### protocol

To set the protocol for the rule, use the following command:

```
protocol <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| protocol | Set the protocol for the rule |
| <NUMBER/WORD> | Set to this protocol |

**Defaults** None.

**Example**

```
ruckus(config-l3acl-rule)# protocol tcp
The protocol must be a number between 0 and 254.
ruckus(config-l3acl-rule)# protocol Any
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## Configure Role Commands

Use the `role` commands to configure user roles on the controller. To run these commands, you must first enter the `config-role` context.

### abort

To exit the `config-role` context without saving changes, use the `abort` command. Enter this command from within the context of the role that you are configuring.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the role without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-role)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-role` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-role)# end
The Role entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-role` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-role)# exit
The Role entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-role` context without saving changes, use the `quit` command. Enter this command from within the context of the role that you are configuring.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the role without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-role)# quit
No changes have been saved.
ruckus(config)#
```

## name

To set the name of a user role, use the following command:

```
name <role_name>
```

**Syntax Description**

| | |
|---|---|
| name | Set the name of a user role |
| <role_name> | Set to this role |

**Defaults**

None.

**Example**

```
ruckus(config-role)# name guest33
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## description

To set the description for a user role, use the following command:

```
description <description>
```

**Syntax Description**

| | |
|---|---|
| description | Set the description of a user role |
| <description> | Set to this description |

**Defaults**

None.

**Example**

```
ruckus(config-role)# description testforCLI
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## group-attributes

To set the group attributes of a user role, use the following command:

```
group-attributes <attributes>
```

**Syntax Description**

| | |
|---|---|
| group-attributes | Set the attributes of a user role |
| <attributes> | Set to this attribute |

**Defaults** None.

**Example**

```
ruckus(config-role)# group-attributes ruckus1
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wlan-allowed

To set the WLANs to which a user role will have access, use the following command:

```
wlan-allowed [all | specify-wlan]
```

**Syntax Description**

| | |
|---|---|
| wlan-allowed | Set the WLANs to which a role will have access |
| all | Grant access to all WLANs |
| specify-wlan | Grant access to a specific WLAN |

**Defaults** None.

**Example**

```
ruckus(config-role)# wlan-allowed all
The command was executed successfully. To save the changes, type
'end' or 'exit'.
ruckus(config-role)# wlan-allowed specify-wlan
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no specify-wlan-access

To remove a particular WLAN from the list of WLANs that a user role can access, use the following command:

```
no specify-wlan-access <wlan_ssid>
```

**Syntax Description**

| | |
|---|---|
| no specify-wlan-access | Remove access to a WLAN by a user role |
| <wlan_ssid> | Remove access to this WLAN |

**Defaults** None.

**Example**

```
ruckus(config-role)# no specify-wlan-access joejoe98
The wlan 'joejoe98' has been removed from the Role.
```

## specify-wlan-access

To add  a particular WLAN to the list of WLANs that a user role can access, use the following command:

```
specify-wlan-access <wlan_ssid>
```

**Syntax Description**

| | |
|---|---|
| specify-wlan-access | Add access to a WLAN by a user role |
| <wlan_ssid> | Add access to this WLAN |

**Defaults**

None.

**Example**

```
ruckus(config-role)# specify-wlan-access joejoe98
The wlan 'joejoe98' has been added to the Role.
```

## no guest-pass-generation

To remove guest pass generation privileges from a user role, use the following command:

```
no guest-pass-generation
```

**Syntax Description**

| | |
|---|---|
| no guest-pass-generation | Remove guest pass generation privileges from a user role |

**Defaults**

None.

**Example**

```
ruckus(config-role)# no guest-pass-generation
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## guest-pass-generation

To add guest pass generation privileges to a user role, use the following command:

```
guest-pass-generation
```

**Syntax Description**

| | |
|---|---|
| guest-pass-generation | Add guest pass generation privileges to a user role |

**Defaults**

None.

**Example**

```
ruckus(config-role)# guest-pass-generation
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no adminn

To remove ZoneDirector administration privileges from a user role, use the following command:

```
no admin
```

**Syntax Description**

| | |
|---|---|
| no admin | Remove ZoneDirector administration privileges from a user role |

**Defaults**

None.

**Example**

```
ruckus(config-role)# no admin
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## admin [super|operator|monitoring]

To add ZoneDirector administration privileges to a user role, use the following command:

```
admin [super|operator|monitoring]
```

**Syntax Description**

| | |
|---|---|
| admin | Add ZoneDirector administration privileges to a user role |
| [super\|operator\|monitoring] | Set administration privileges |

**Defaults**

None.

**Example**

```
ruckus(config-role)# admin super
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## show

To display the settings of a role, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the settings of a role |

**Defaults**

None.

**Example**

```
ruckus(config-role)# show
Role:
  ID:
    2:
      Name= guest
      Description=
      Group Attributes=
      Guest Pass Generation= Disallowed
      ZoneDirector Administration= Allowed
        Allow ZoneDirector Administration:Super Admin
      Allow All WLANs= Specify WLAN access
```

# Configure User Commands

Use the `user` commands to configure a user's name, password, and role.To run these commands, you must first enter the `config-user` context.

## abort

To exit the `config-user` context without saving changes, use the `abort` command. Enter this command from within the context of the user that you are configuring.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the user settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-user)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-user` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-user)# end
The User entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-user` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-user)# exit
The User entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-user` context without saving changes, use the `quit` command. Enter this command from within the context of the user that you are configuring.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the user settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-role)# quit
No changes have been saved.
ruckus(config)#
```

## user-name

To set the name of a user, use the following command:

```
user-name <user_name>
```

**Syntax Description**

| | |
|---|---|
| user-name | Set the name of a user |
| <user_name> | Set to this user name |

**Defaults** None.

**Example**

```
ruckus(config-user)# user-name joe1
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## full-name <full_name>

To set the full name of a user, use the following command:

```
full-name <full_name>
```

**Syntax Description**

| | |
|---|---|
| full-name | Set the full name of a user |
| <full_name> | Set to this full name |

**Defaults** None.

**Example**

```
ruckus(config-user)# full-name joejoe
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## password <password>

To set the password of a user, use the following command:

```
password <password>
```

**Syntax Description**

| | |
|---|---|
| password | Set the password of a user |
| <password> | Set to this password |

**Defaults** None.

**Example**

```
ruckus(config-user)# password 1234
```

```
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## role

To assign a role to a user, use the following command:

```
role <role_name>
```

**Syntax Description**

| | |
|---|---|
| role | Assign a role to a user |
| <role_name> | Assign this role |

**Defaults**

None.

**Example**

```
ruckus(config-user)# role guest
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## show

To display the settings of a user, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Show user settings |

**Defaults**

None.

**Example**

```
ruckus(config-user)# show
User:
  ID:
    :
      User Name= joe1
      Full Name= joejoe
      Password= 1234
      Role= guest
```

# Configure Guest Access Commands

Use the `guest-access` commands to configure the guest access settings. To run these commands, you must first enter the `config-guest-access` context.

## abort

To exit the `config-guest-access` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the guest access settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-guest-access)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-guest-access` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-guest-access)# end
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-guest-access` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# exit
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-guest-access` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the guest access settings without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# quit
No changes have been saved.
ruckus(config)#
```

## no authentication

To disable guest access authentication, use the following command:

```
no authentication
```

**Syntax Description**

| | |
|---|---|
| exit | Disable guest access authentication |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# no authentication
The command was executed successfully.
```

## authentication guest-pass

To allow multiple users to share a single guest pass, use the following command:

```
authentication guest-pass [shared | no-shared]
```

**Syntax Description**

| | |
|---|---|
| authentication guest-pass | Configure guest pass authentication |
| shared | Allow multiple users to share a single guest pass |
| no-shared | Allow only a single user to use a guest pass |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# authentication guest-pass shared
The command was executed successfully.
```

## no term-of-use

To hide the Terms of Use text on the guest pass access page, use the following command:

```
no term-of-use
```

**Syntax Description**

| | |
|---|---|
| no term-of-use | Hide Terms of Use |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# no term-of-use
The command was executed successfully.
```

## term-of-use

To display and specify the Terms of Use text on the guest pass access page, use the following command:

```
term-of-use <term_of_use_text>
```

**Syntax Description**

| | |
|---|---|
| term-of-use | Display Terms of Use |
| <term_of_use_text> | Use this text |

**Defaults** None.

**Example**

```
ruckus(config-guest-access)# term-of-use test.guest
The command was executed successfully.
```

## redirect

To set the URL to which to redirect a guest user after passing authentication, use the following command:

```
redirect [original | url <start_page_url>]
```

**Syntax Description**

| | |
|---|---|
| redirect | Set the URL to which the guest user will be redirected |
| original | Redirect user to the original page that he intended to visit |
| url <start_page_url> | Redirect user to a different URL. Specify the URL in `<start_page_url>`. |

**Defaults**

original

**Example**

```
ruckus(config-guest-access)# redirect url
http://www.ruckuswireless.com
The command was executed successfully.
```

## auth-server

To set the authentication server for guest user authentication, use the following command:

```
auth-server [local | name <auth_server_name>]
```

**Syntax Description**

| | |
|---|---|
| auth-server | Set the authentication server for guest users |
| local | Use the controller as the authentication server |
| name <auth_server_name> | Use an external authentication server. Specify the authentication server name in `<auth_server_name>`. |

**Defaults**

local

**Example**

```
ruckus(config-guest-access)# auth-server local
The command was executed successfully.
```

## guestpass-effective

To set the duration during which the guest pass will be effective, use the following command:

```
guestpass-effective [now | first_use_expired <days>]
```

**Syntax Description**

| | |
|---|---|
| guestpass-effective | Set the guest pass effectivity period |

| | |
|---|---|
| now | Set the guest pass effective as soon as it is generated |
| first_use_expired <days> | Set the guest pass to be effective upon first use and to expire after a specified number of days. Set the number of days in <days>. |

**Defaults**

now

**Example**

```
ruckus(config-guest-access)# guestpass-effective first-use-expired 4
The command was executed successfully.
```

## welcome-text

To configure the text to display when a guest user accesses the network, use the following command:

```
welcome-text <welcome_text>
```

**Syntax Description**

| | |
|---|---|
| welcome-text | Configure the welcome message |
| <welcome_text> | Use this as the welcome message |

**Defaults**

Welcome to the Guest Access login page.

**Example**

```
ruckus(config-guest-access)# welcome-text welcome.txt
The command was executed successfully.
```

## show

To display the guest pass settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the guest pass settings |

**Defaults**

None.

**Example**

```
ruckus(config-guest-access)# show
Guest Access:
      Authentication= Use guest pass authentication.
        Multiple users to share a single guest pass= Allowed
      Terms of Use= Enabled
```

```
      Terms= test.guest
    Redirection= To the following URL.
      URL= http://ruckuswireless.com
    Validity Period= Effective from first use.
      Expire Days= 4
    Title= welcome.txt
  Restricted Subnet Access:
    Name= Guest
    Description=
    Default Action if no rule is matched= Deny all by default
    Rules:
      Order= 1
        Description=
        Type= Deny
        Destination Address= local
        Destination Port= Any
        Protocol= Any
      Order= 2
        Description=
        Type= Deny
        Destination Address= 10.0.0.0/8
        Destination Port= Any
        Protocol= Any
      Order= 3
        Description=
        Type= Deny
        Destination Address= 172.16.0.0/12
        Destination Port= Any
        Protocol= Any
      Order= 4
        Description=
        Type= Deny
        Destination Address= 192.168.0.0/16
        Destination Port= Any
        Protocol= Any
```

## no restrict-access-order <order_id>

To delete a restrict access order, use the following command:

```
no restrict-access-order <order_id>
```

**Syntax Description**

| | |
|---|---|
| no restrict-access-order | Delete a restrict access order |

| | |
|---|---|
| <order_id> | Delete this order ID |

**Defaults**

None.

**Example**

```
ruckus(config-guest-access)# no restrict-access-order 4
The Restricted Subnet Access entry has been removed from the Guest
Access.
```

## restrict-access-order <order_id>

To add a restrict access order, use the following command:

```
restrict-access-order <order_id>
```

**Syntax Description**

| | |
|---|---|
| restrict-access-order | Add a restrict access order |
| <order_id> | Add this order ID |

**Defaults**

None.

**Example**

```
ruckus(config-guest-access)# restrict-access-order 5
Sorry,please enter the order 4 if you want to add a new one.
ruckus(config-guest-access)# restrict-access-order 3
ruckus(config-guest-restrict-access)#
```

# Configure Guest Access Restriction Commands

Use the `guest-restrict-access` commands to configure network segments to which guest access will be blocked. To run these commands, you must first enter the `config-guest-restrict-access` context.

## abort

To exit the `config-guest-restrict-access` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the guest access restriction settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-guest-restrict-access)# abort
No changes have been saved.
ruckus(config-guest-access)#
```

## end

To save changes, and then exit the `config-guest-restrict-access` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-guest-restrict-access)# end
The Restricted Subnet Access entry has been added to the Guest
Access.
Your changes have been saved.
ruckus(config-guest-access)#
```

## exit

To save changes, and then exit the `config-guest-restrict-access` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-guest-restrict-access)# exit
The Restricted Subnet Access entry has been added to the Guest
Access.
Your changes have been saved.
ruckus(config-guest-access)#
```

## quit

To exit the `config-guest-restrict-access` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the guest access restriction settings without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# quit
No changes have been saved.
ruckus(config-guest-access)#
```

## show

To display guest access restriction settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display guest access restriction settings |

**Defaults** None.

## order

To configure the guest access rule order, use the following command:

```
order <rule_order_id>
```

**Syntax Description**

| | |
|---|---|
| order | Set the order of a guest access rule |
| <rule_order_id> | Assign the rule this order |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# order 3
The command was executed successfully.
```

## description

To set the description of a guest access rule, use the following command:

```
description <description>
```

**Syntax Description**

| | |
|---|---|
| description | Set the description of a guest access rule |
| <description> | Set this as description |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# description guestd3
The command was executed successfully.
```

## type allow

To set the guest access rule type to 'allow', use the following command:

```
type allow
```

**Syntax Description**

| | |
|---|---|
| type | Set the guest access rule type |
| allow | Set the rule type to 'allow' |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# type allow
The command was executed successfully.
```

## type deny

To set the guest access rule type to 'deny', use the following command:

```
type deny
```

**Syntax Description**

| | |
|---|---|
| type | Set the guest access rule type |
| deny | Set the rule type to 'deny' |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# type deny
The command was executed successfully.
```

## destination address

To set the destination address of the rule, use the following command:

```
destination address <IP-ADDR/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination address | Set the destination address of the rule |
| IP-ADDR/WORD | Set the destination to this IP address |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# destination address
192.168.0.20/24
The command was executed successfully.
```

### destination port

To set the destination port of the rule, use the following command:

```
destination port <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination port | Set the destination port of the rule |
| <NUMBER/WORD> | Set the destination to this port number |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# destination port 562
The command was executed successfully.
```

### protocol

To set the protocol for the rule, use the following command:

```
protocol <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| protocol | Set the protocol for the rule |
| <NUMBER/WORD> | Set to this protocol |

**Defaults** None.

**Example**

```
ruckus(config-guest-restrict-access)# protocol 69
The command was executed successfully.
```

## Configure Hotspot Commands

Use the `hotspot` commands to configure the controller's hotspot settings. To run these commands, you must first enter the `config-hotspot` context.

## abort

To exit the `config-hotspot` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the hotspot settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-hotspot` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# end
The login page url can't be empty.
ruckus(config-hotspot)# end
The Hotspot entry has saved successfully.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-hotspot` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# exit
The login page url can't be empty
ruckus(config-hotspot)# exit
The Hotspot entry has saved successfully.
Your changes have been saved.
```

## quit

To exit the `config-hotspot` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the hotspot settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# quit
No changes have been saved.
ruckus(config)#
```

## show

To display the current hotspot settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the current hotspot settings |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# show
Hotspot:
  ID:
    1:
      Name= h1
      Login Page Url= http://172.18.110.122
     Start Page= redirect to the URL that the user intends to visit.
      Session Timeout= Disabled
      Idle Timeout= Enabled
        Timeout= 60 Minutes
      Authentication Server= Local Database
```

```
Accounting Server= Disabled
Location ID=
Location Name=
Walled Garden 1=
Walled Garden 2=
Walled Garden 3=
Walled Garden 4=
Walled Garden 5=
Rules:
  Order= 1
    Description= h1_order1
    Type= Deny
    Destination Address= 192.168.20.20/24
    Destination Port= 920
    Protocol= 58
```

## name

To set the hotspot name, use the following command

```
name <hotspot_name>
```

**Syntax Description**

| | |
|---|---|
| name | Set the hotspot name |
| <hotspot_name> | Set to this name |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# name ruckus1
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## login-page

To set the URL of the hotspot login, use the following command:

```
login-page <login_page_url>
```

**Syntax Description**

| | |
|---|---|
| login-page | Set the URL of the hotspot login |
| <login_page_url> | Set to this URL |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# login-page http://ruckuswireless.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## start-page

To set the URL or page to which the user will be redirected after logging into the hotspot, use the following command:

```
start-page [original | url <start_page_url>]
```

**Syntax Description**

| | |
|---|---|
| start-page | Set the URL or page to which the user will be redirected after logging into the hotspot |
| original | Redirect user to the original page he or she intended to visit |
| url <start_page_url> | Redirect use to another page. Set the URL of the page in <start_page_url>. |

**Defaults**

original

**Example**

```
ruckus(config-hotspot)# start-page url
http://www.ruckuswireless.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no session-timeout

To disable the session timeout for hotspot usage, use the following command:

```
no session-timeout
```

**Syntax Description**

| | |
|---|---|
| no session-timeout | Disable the session timeout for hotspot usage |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# no session-timeout
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## session-timeout

To enable and set the session timeout for hotspot usage, use the following command:

```
session-timeout <minutes>
```

**Syntax Description**

| | |
|---|---|
| session-timeout | Disable the session timeout for hotspot usage |
| <minutes> | Set the session timeout to this value (in minutes) |

**Defaults**

1440 minutes

**Example**

```
ruckus(config-hotspot)# session-timeout 20
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no grace-period

To disable the grace period (idle timeout) for hotspot users, use the following command:

```
no grace-period
```

**Syntax Description**

| | |
|---|---|
| no grace-period | Disable the idle timeout for hotspot users |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# no grace-period
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## grace-period

To enable and set the grace period (idle timeout) for hotspot users, use the following command:

```
grace-period <minutes>
```

**Syntax Description**

| | |
|---|---|
| grace-period | Set the idle timeout for hotspot users |
| <minutes> | Set the idle timeout to this value (in minutes) |

**Defaults**

60 minutes

**Example**

```
ruckus(config-hotspot)# grace-period 20
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## auth-server local

To use ZoneDirector as the authentication server for hotspot users, use the following command:

```
auth-server local
```

**Syntax Description**

| | |
|---|---|
| auth-server | Set an authentication server for hotspot users |
| local | Use ZoneDirector as the authentication server |

**Defaults**

local

**Example**

```
ruckus(config-hotspot)# auth-server local
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## auth-server name

To use an external server for authenticating hotspot users, use the following command:

```
auth-server name <auth_server_name> [no-mac-bypass | mac-
bypass]
```

**Syntax Description**

| | |
|---|---|
| auth-server name | Set an external authentication server for hotspot users |
| <auth_server_name> | Use this server as the authentication server |
| no-mac-bypass | Disable MAC bypass |
| mac-bypass | Enable MAC bypass |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# auth-server name rad1
The AAA server 'rad1' could not be found. Please check the spelling,
and then try again.
```

## no acct-server

To disable the accounting server for hotspot usage, use the following command:

```
no acct-server
```

**Syntax Description**

| | |
|---|---|
| no acct-server | Disable the accounting server for hotspot usage |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# no acct-server
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## acct-server interim-update

To enable and set the accounting server for hotspot usage, use the following command:

```
acct-server <acct_server_name> interim-update <minutes>
```

**Syntax Description**

| | |
|---|---|
| no acct-server | Enable and set the accounting server for hotspot usage |
| <acct_server_name> | Set to this accounting server |
| interim-update | Set the interim update interval |
| <minutes> | Set to this interval (in minutes) |

**Defaults**

5 minutes

**Example**

```
ruckus(config-hotspot)# acct-server asd interim-update 10
The AAA server 'asd' could not be found. Please check the spelling,
and then try again.
ruckus(config-hotspot)# acct-server acct1 interim-update 20
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## location-id

To set the location ID of the hotspot, use the following command:

```
location-id <location-id>
```

**Syntax Description**

| | |
|---|---|
| `location-id` | Set the location ID of the hotspot |
| `<location-id>` | Set to this location ID |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# location-id us
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## location-name

To set the location name of the hotspot, use the following command:

```
location-name <location-name>
```

**Syntax Description**

| | |
|---|---|
| `location-name` | Set the location name of the hotspot |
| `<location-name>` | Set to this location name |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# location-name shenzhen
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wall-garden url1

To set the walled garden URL number 1, use the following command:

```
wall-garden url1 <url1>
```

**Syntax Description**

| | |
|---|---|
| `wall-garden url1` | Set the walled garden URL number 1 |
| `<url1>` | Set to this URL |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# wall-garden url1 http://www.yahoo.com
```

```
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wall-garden url2

To set the walled garden URL number 2, use the following command:

```
wall-garden url2 <url2>
```

**Syntax Description**

| | |
|---|---|
| `wall-garden url2` | Set the walled garden URL number 2 |
| `<url2>` | Set to this URL |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# wall-garden url2 http://www.yahoo.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wall-garden url3

To set the walled garden URL number 3, use the following command:

```
wall-garden url3 <url3>
```

**Syntax Description**

| | |
|---|---|
| `wall-garden url3` | Set the walled garden URL number 3 |
| `<url3>` | Set to this URL |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# wall-garden url3 http://www.sohu.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wall-garden url4

To set the walled garden URL number 4, use the following command:

```
wall-garden url4 <url4>
```

**Syntax Description**

| | |
|---|---|
| `wall-garden url4` | Set the walled garden URL number 4 |
| `<url4>` | Set to this URL |

**Defaults** None.

**Example**

```
ruckus(config-hotspot)# wall-garden url4 http://www.sohu.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## wall-garden url5

To set the walled garden URL number 5, use the following command:

```
wall-garden url5 <url5>
```

**Syntax Description**

| | |
|---|---|
| `wall-garden url5` | Set the walled garden URL number 5 |
| `<url5>` | Set to this URL |

**Defaults** None.

**Example**

```
ruckus(config-hotspot)# wall-garden url5 http://www.sohu.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no restrict-access-order

To delete a restrict access order, use the following command:

```
no restrict-access-order <order_id>
```

**Syntax Description**

| | |
|---|---|
| `no restrict-access-order` | Delete a restrict access order |
| `<order_id>` | Delete this order ID |

**Defaults** None.

**Example**

```
ruckus(config-hotspot)# no restrict-access-order 1
The rule '1' has been removed from the Hotspot.
```

## restrict-access-order

To add a restrict access order, use the following command:

```
restrict-access-order <order_id>
```

**Syntax Description**

| | |
|---|---|
| `restrict-access-order` | Add a restrict access order |
| `<order_id>` | Add this order ID |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot)# restrict-access-order 3
Sorry,please enter the order 1 if you want to add a new one.
ruckus(config-hotspot)# restrict-access-order 1
ruckus(config-hotspot-restrict-access)#
```

# Configure Hotspot Access Restriction Commands

Use the `hotspot-restrict-access` commands to configure network segments to which hotspot access will be blocked. To run these commands, you must first enter the `config-hotspot-restrict-access` context.

## end

To save changes, and then exit the `config-hotspot-restrict-access` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot-restrict-access)# end
ruckus(config-hotspot)#
```

## exit

To save changes, and then exit the `config-hotspot-restrict-access` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot-restrict-access)# exit
ruckus(config-hotspot)#
```

## show

To display hotspot access restriction settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the hotspot access restriction settings |

**Defaults**

None.

## order

To configure the hotspot access rule order, use the following command:

```
order <rule_order_id>
```

**Syntax Description**

| | |
|---|---|
| order | Set the order of a hotspot access rule |
| <rule_order_id> | Assign the rule this order |

**Defaults** None.

**Example**

```
ruckus(config-hotspot-restrict-access)# order 1
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## description

To set the description of a hotspot access rule, use the following command:

```
description <description>
```

**Syntax Description**

| | |
|---|---|
| description | Set the description of a hotspot access rule |
| <description> | Set this as description |

**Defaults** None.

**Example**

```
ruckus(config-hotspot-restrict-access)# description h1_order1
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## type allow

To set the hotspot access rule type to 'allow', use the following command:

```
type allow
```

**Syntax Description**

| | |
|---|---|
| type | Set the hotspot access rule type |
| allow | Set the rule type to 'allow' |

**Defaults** None.

**Example**

```
ruckus(config-hotspot-restrict-access)# type allow
```

```
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## type deny

To set the hotspot access rule type to 'deny', use the following command:

```
type deny
```

**Syntax Description**

| | |
|---|---|
| type | Set the hotspot access rule type |
| deny | Set the rule type to 'deny' |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot-restrict-access)# type deny
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## destination address

To set the destination address of the rule, use the following command:

```
destination address <IP-ADDR/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination address | Set the destination address of the rule |
| IP-ADDR/WORD | Set the destination to this IP address |

**Defaults**

None.

**Example**

```
ruckus(config-hotspot-restrict-access)# destination address
192.168.20.20/24
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## destination port

To set the destination port of the rule, use the following command:

```
destination port <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| destination port | Set the destination port of the rule |
| <NUMBER/WORD> | Set the destination to this port number |

**Defaults** None.

**Example**

```
ruckus(config-hotspot-restrict-access)# destination port 920
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

### protocol

To set the protocol for the rule, use the following command:

```
protocol <NUMBER/WORD>
```

**Syntax Description**

| | |
|---|---|
| protocol | Set the protocol for the rule |
| <NUMBER/WORD> | Set to this protocol |

**Defaults** None.

**Example**

```
ruckus(config-hotspot-restrict-access)# protocol 58
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## Configure Certificate Commands

Use the `config-certificate` commands to restore the default ZoneDirector certificate or to regenerate the private key. To run these commands, you must first enter the `config-certificate` context.

### quit

To exit the `config-certificate` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the certificate settings without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-certificate)# quit
No changes have been saved.
```

## restore

To restore the default ZoneDirector certificate and private key, use the following command.

```
restore
```

**Syntax Description**

| | |
|---|---|
| restore | Restore the default ZoneDirectory certificate and private key. The restore process will be completed after ZoneDirector is rebooted. |

**Defaults**

None.

**Example**

```
ruckus(config-certificate)# restore
ZoneDirector will restart now to apply the changes in the certificate
settings. If you want to configure other settings, log in again
after ZoneDirector has completed restarting.
```

## re-generate-private-key

To regenerate the ZoneDirector private key, use the following command:

```
re-generate-private-key {1024|2048}
```

**Syntax Description**

| | |
|---|---|
| re-generate-private-key | Regenerate the ZoneDirector private key |
| {1024\|2048} | Specify the length of the private key as either 1024 or 2048. |

**Defaults**

None.

**Example**

```
ruckus(config-certificate)# re-generate-private-key 1024
ZoneDirector will restart now to apply the changes in the certificate
settings. If you want to configure other settings, log in again
after ZoneDirector has completed restarting.
The operation doesn't execute successfully. Please try again.
```

# Configure Mesh Commands

Use the `mesh` commands to configure the controller's mesh networking settings. To run these commands, you must first enter the `config-mesh` context.

## abort

To exit the `config-mesh` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the mesh settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-mesh` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# end
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-mesh` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults** None.

**Example**

```
ruckus(config-mesh)# exit
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-mesh` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the mesh settings without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-mesh)# quit
No changes have been saved.
ruckus(config)#
```

## show

To display the current mesh settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the current mesh settings |

**Defaults** None.

**Example**

```
ruckus(config-mesh)# show
Mesh Settings:
  Mesh Status= Disabled
  Mesh Name(ESSID)= rks_mesh
  Mesh Passphrase= test123456
  Mesh Hop Detection= Enabled
  Mesh Hops Threshold= 6
  Mesh Downlinks Detection= Enabled
  Mesh Downlinks Threshold= 8
```

## no mesh

To disable mesh networking on the controller, use the following command:

```
no mesh
```

**Syntax Description**

| | |
|---|---|
| no mesh | Disable mesh networking on the controller |

**Defaults**

None.

## ssid

To set the SSID of the mesh network, use the following command:

```
ssid <ssid>
```

**Syntax Description**

| | |
|---|---|
| ssid | Set the SSID of the mesh network |
| <ssid> | Set to this SSID |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# ssid rks_mesh
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## passphrase

To set the passphrase that allows access to the mesh network, use the following command:

```
passphrase <passphrase>
```

**Syntax Description**

| | |
|---|---|
| passphrase | Set the passphrase that allows access to the mesh network |
| <passphrase> | Set to this passphrase |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# passphrase test123456
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## hops-warn-threshold

To enable and configure the mesh hop threshold, use the following command:

```
hops-warn-threshold <threshold>
```

**Syntax Description**

| | |
|---|---|
| hops-warn-threshold | Set the mesh hop threshold (max hops) |
| <threshold> | Set to this threshold value |

**Defaults**

5

**Example**

```
ruckus(config-mesh)# hops-warn-threshold 6
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no detect-hops

To disable the mesh hop threshold, use the following command:

```
no detect-hops
```

**Syntax Description**

| | |
|---|---|
| no detect-hops | Disable the mesh hop threshold |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# no detect-hops
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## fan-out-threshold

To enable and configure the mesh downlink threshold, use the following command:

```
fan-out-threshold <threshold>
```

**Syntax Description**

| | |
|---|---|
| fan-out-threshold | Set the mesh downlink threshold (max downlinks) |
| <threshold> | Set to this threshold value |

**Defaults**

5

**Example**

```
ruckus(config-mesh)# fan-out-threshold 8
```

```
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

### no detect-fanout

To disable the mesh downlink threshold, use the following command:

```
no detect-fanout
```

**Syntax Description**

| | |
|---|---|
| no detect-fanout | Disable the mesh downlink threshold |

**Defaults**

None.

**Example**

```
ruckus(config-mesh)# no detect-fanout
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## Configure Alarm Commands

Use the `alarm` commands to configure the controller's alarm notification settings. To run these commands, you must first enter the `config-alarm` context.

### abort

To exit the `config-alarm` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the alarm settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# abort
No changes have been saved.
ruckus(config)#
```

### end

To save changes, and then exit the `config-alarm` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults** None.

**Example**

```
ruckus(config-alarm)# end
The Email Address and SMTP server port cannot be empty.
ruckus(config-alarm)# end
The Alarm settings have been updated.
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-alarm` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults** None.

**Example**

```
ruckus(config-alarm)# exit
The Alarm settings have been updated.
Your changes have been saved.
```

## quit

To exit the `config-alarm` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the alarm settings without saving changes |

**Defaults** None.

**Example**

```
ruckus(config-alarm)# quit
No changes have been saved.
ruckus(config)#
```

## show

To display the current alarm settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the current alarm settings |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# show
Alarm Status= Enabled
  Email Address= joe@163.com
  SMTP Server Name= smtp.163.com
  SMTP Server Port= 1217
  SMTP Authentication Username= joe
  SMTP Authentication Password= 123456
  Encryption Options,TLS:Disabled
```

## e-mail

To set the email address to which alarm notifications will be sent, use the following command:

```
e-mail <e-mail_addr>
```

**Syntax Description**

| | |
|---|---|
| e-mail | Set the email address to which alarm notifications will be sent |
| <e-mail_addr> | Send alarm notifications to this email address |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# e-mail joe@163.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## smtp-server-name

To set the SMTP server that ZoneDirector uses to send alarm notifications, use the following command:

```
smtp-server-name <smtp_server_name>
```

**Syntax Description**

| | |
|---|---|
| smtp-server-name | Set the SMTP server that ZoneDirector uses to send alarm notifications |
| <smtp_server_name> | Set to this SMTP server name |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# smtp-server-name smtp.163.com
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## smtp-server-port

To set the SMTP server port that ZoneDirector uses to send alarm notifications, use the following command:

```
smtp-server-name <port>
```

**Syntax Description**

| | |
|---|---|
| smtp-server-name | Set the SMTP server that ZoneDirector uses to send alarm notifications |
| <port> | Set to this SMTP server port |

**Defaults**

587

**Example**

```
ruckus(config-alarm)# smtp-server-port 1217
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## smtp-auth-name

To set the user name that ZoneDirector uses to authenticate with the SMTP server, use the following command:

```
smtp_auth_name <smtp_auth_name>
```

**Syntax Description**

| | |
|---|---|
| smtp_auth_name | Set the user name that ZoneDirector uses to authenticate with the SMTP server |
| <smtp_auth_name> | Set to this user name |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# smtp-auth-name joe
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## smtp-auth-password

To set the password that ZoneDirector uses to authenticate with the SMTP server, use the following command:

```
smtp-auth-password <password>
```

**Syntax Description**

| | |
|---|---|
| smtp-auth-password | Set the password that ZoneDirector uses to authenticate with the SMTP server |
| <password> | Set to this password |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# smtp-auth-password 123456
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## tls-smtp-encryption

To enable TLS for SMTP encryption of alarm notifications, use the following command:

```
tls-smtp-encryption
```

**Syntax Description**

| | |
|---|---|
| tls-smtp-encryption | Enable TLS for SMTP encryption of alarm notifications |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# tls-smtp-encryption
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no tls-smtp-encryption

To disable TLS for SMTP encryption of alarm notifications, use the following command:

```
no tls-smtp-encryption
```

**Syntax Description**

| | |
|---|---|
| tls-smtp-encryption | Disable TLS for SMTP encryption of alarm notifications |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# no tls-smtp-encryption
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## starttls-smtp-encryption

To enable STARTTLS for SMTP encryption of alarm notifications, use the following command:

```
starttls-smtp-encryption
```

**Syntax Description**

| | |
|---|---|
| starttls-smtp-encryption | Enable STARTTLS for SMTP encryption of alarm notifications |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# starttls-smtp-encryption
Should enable TLS of SMTP Encryption firstly, then try it again.
```

## no starttls-smtp-encryption

To disable STARTTLS for SMTP encryption of alarm notifications, use the following command:

```
no starttls-smtp-encryption
```

**Syntax Description**

| | |
|---|---|
| no starttls-smtp-encryption | Disable STARTTLS for SMTP encryption of alarm notifications |

**Defaults**

None.

**Example**

```
ruckus(config-alarm)# no starttls-smtp-encryption
Should enable TLS of SMTP Encryption firstly, then try it again.
```

# Configure Services Commands

Use the `services` commands to configure miscellaneous service settings, such as AP power, channel, background scanning, etc. To run these commands, you must first enter the `config-services` context.

## abort

To exit the `config-services` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the service settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-services)# abort
No changes have been saved.
ruckus(config)#
```

## end

To save changes, and then exit the `config-services` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-services)# end
Your changes have been saved.
ruckus(config)#
```

## exit

To save changes, and then exit the `config-services` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

**Example**

```
ruckus(config-services)# exit
Your changes have been saved.
ruckus(config)#
```

## quit

To exit the `config-services` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the service settings without saving changes |

**Defaults**

None.

**Example**

```
ruckus(config-services)# quit
No changes have been saved.
ruckus(config)#
```

## show

To display the current service settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the current service settings |

**Defaults**

None.

**Example**

```
ruckus(config-services)# show
Services:
  Automatically adjust ap radio power= Disabled
  Automatically adjust ap channel= Disabled
  Protect my wireless network against excessive wireless requests=
Disabled
  Temporarily block wireless clients with repeated authentication
failures= Disabled
```

```
Run a background scan on 2.4GHz radio= Enabled
  Time= 20 seconds
Run a background scan on 5GHz radio= Disabled
Report rogue devices in ZD event log= Disabled
Rogue DHCP server detection= Disabled
AeroScout RFID tag detection= Disabled
```

## no auto-adjust-ap-power

To disable the auto adjustment of the AP radio power, which helps optimize radio coverage when radio interference is present, use the following command:

```
no auto-adjust-ap-power
```

**Syntax Description**

| | |
|---|---|
| no auto-adjust-ap-power | Disable the auto adjustment of the AP radio power |

**Defaults**

None.

**Example**

```
ruckus(config-services)# no auto-adjust-ap-power
The command was executed successfully.
```

## auto-adjust-ap-power

To enable the auto adjustment of the AP radio power, which helps optimize radio coverage when radio interference is present, use the following command:

```
auto-adjust-ap-power
```

**Syntax Description**

| | |
|---|---|
| auto-adjust-ap-power | Enable the auto adjustment of the AP radio power |

**Defaults**

None.

**Example**

```
ruckus(config-services)# auto-adjust-ap-power
The command was executed successfully.
```

## no auto-adjust-ap-channel

To disable the auto adjustment of the AP radio channel when radio interference is present, use the following command:

```
no auto-adjust-ap-channel
```

**Syntax Description**

| | |
|---|---|
| no auto-adjust-ap-channel | Disable the auto adjustment of the AP radio channel |

**Defaults** None.

**Example**

```
ruckus(config-services)# no auto-adjust-ap-channel
The command was executed successfully.
```

## auto-adjust-ap-channel

To enable the auto adjustment of the AP radio channel when radio interference is present, use the following command:

```
auto-adjust-ap-channel
```

**Syntax Description**

| | |
|---|---|
| auto-adjust-ap-channel | Enable the auto adjustment of the AP radio channel |

**Defaults** None.

**Example**

```
ruckus(config-services)# auto-adjust-ap-channel
The command was executed successfully.
```

## no protect-excessive-wireless-request

To disable protection of the wireless network against excessive wireless requests, use the following command:

```
no protect-excessive-wireless-request
```

**Syntax Description**

| | |
|---|---|
| no protect-excessive-wireless-request | Disable protection of the wireless network against excessive wireless requests |

**Defaults** None.

**Example**

```
ruckus(config-services)# no protect-excessive-wireless-request
The command was executed successfully.
```

## protect-excessive-wireless-request

To enable protection of the wireless network against excessive wireless requests, use the following command:

```
protect-excessive-wireless-request
```

**Syntax Description**

| | |
|---|---|
| protect-excessive-wireless-request | Enable protection of the wireless network against excessive wireless requests |

**Defaults**

Enabled

**Example**

```
ruckus(config-services)# protect-excessive-wireless-request
The command was executed successfully.
```

## no temp-block-auth-failed-client

To allow wireless clients that repeatedly fail to authenticate with APs to continue their authentication attempt, use the following command:

```
no temp-block-auth-failed-client
```

**Syntax Description**

| | |
|---|---|
| no temp-block-auth-failed-client | Allow wireless clients that repeatedly fail to authenticate with AP to continue their authentication attempt |

**Defaults**

None

**Example**

```
ruckus(config-services)# no temp-block-auth-failed-client
The command was executed successfully.
```

## temp-block-auth-failed-client time

To temporarily block wireless clients that repeatedly fail to authenticate with APs, use the following command:

```
temp-block-auth-failed-client time <seconds>
```

**Syntax Description**

| | |
|---|---|
| temp-block-auth-failed-client time | Temporarily block wireless clients that repeatedly fail to authenticate with APs |
| <seconds> | Block for this number of seconds |

**Defaults**

30 seconds

**Example**

```
ruckus(config-services)# temp-block-auth-failed-client time 9
The Block Time must be a number between 10 and 1200.
ruckus(config-services)# temp-block-auth-failed-client time 99
The command was executed successfully.
```

## no background-scan radio-2.4

To disable background scanning on the 2.4GHz radio, use the following command:

```
no background-scan radio-2.4
```

**Syntax Description**

| | |
|---|---|
| no background-scan radio-2.4 | Disable background scanning on the 2.4GHz radio |

**Defaults**

None

**Example**

```
ruckus(config-services)# no background-scan radio-2.4
The command was executed successfully.
```

## background-scan radio-2.4-interval

To enable background scanning on the 2.4GHz radio and configure the scan interval, use the following command:

```
background-scan radio-2.4-interval <seconds>
```

**Syntax Description**

| | |
|---|---|
| background-scan radio-2.4-interval | Enable background scanning on the 2.4GHz radio and configure the scan interval |
| <seconds> | Perform background scan at this interval (in seconds) |

**Defaults**

20 seconds

**Example**

```
ruckus(config-services)# background-scan radio-2.4-interval 6
The command was executed successfully.
```

## no background-scan radio-5

To disable background scanning on the 5GHz radio, use the following command:

```
no background-scan radio-5
```

**Syntax Description**

| | |
|---|---|
| no background-scan radio-5 | Disable background scanning on the 5GHz radio |

**Defaults** None

**Example**

```
ruckus(config-services)# no background-scan radio-5
The command was executed successfully.
```

## background-scan radio-5-interval

To enable background scanning on the 5GHz radio and configure the scan interval, use the following command:

```
background-scan radio-5-interval <seconds>
```

**Syntax Description**

| | |
|---|---|
| `background-scan radio-5-interval` | Enable background scanning on the 5GHz radio and configure the scan interval |
| `<seconds>` | Perform background scan at this interval (in seconds) |

**Defaults** 20 seconds

**Example**

```
ruckus(config-services)# background-scan radio-5-interval 16
The command was executed successfully.
```

## rogue-report

To enable recording of detected rogue devices in the Event logs, use the following command:

```
rogue-report
```

**Syntax Description**

| | |
|---|---|
| rogue-report | Enable recording of detected rogue devices in the Event logs |

**Defaults** None

**Example**

```
ruckus(config-services)# rogue-report
Should enable running a background scan on 2.4/5GHz radio firstly,
then try it again.
ruckus(config-services)# rogue-report
The command was executed successfully.
```

## no rogue-report

To disable recording of detected rogue devices in the Event logs, use the following command:

```
no rogue-report
```

**Syntax Description**

| | |
|---|---|
| no rogue-report | Disable recording of detected rogue devices in the Event logs |

**Defaults**

None

**Example**

```
ruckus(config-services)# no rogue-report
The command was executed successfully.
```

## no rogue-dhcp-detection

To disable recording of detected rogue DHCP servers in the Event logs, use the following command:

```
no rogue-dhcp-detection
```

**Syntax Description**

| | |
|---|---|
| no rogue-dhcp-detection | Disable recording of detected rogue DHCP servers in the Event logs |

**Defaults**

None

**Example**

```
ruckus(config-services)# no rogue-dhcp-detection
The command was executed successfully.
```

## rogue-dhcp-detection

To enable recording of detected rogue DHCP servers in the Event logs, use the following command:

```
rogue-dhcp-detection
```

**Syntax Description**

| | |
|---|---|
| rogue-dhcp-detection | Enable recording of detected rogue DHCP servers in the Event logs |

**Defaults**

None

**Example**

```
ruckus(config-services)# rogue-dhcp-detection
```

```
The command was executed successfully.
```

### no aeroscout-detection

To disable detection of AeroScout RFID Tags by APs that are managed by ZoneDirertor, use the following command:

```
no aeroscout-detection
```

**Syntax Description**

| | |
|---|---|
| no aeroscout-detection | Disable detection of AeroScout RFID Tags by APs |

**Defaults**

None

**Example**

```
ruckus(config-services)# no aeroscout-detection
The command was executed successfully.
```

### aeroscout-detection

To enable detection of AeroScout RFID Tags by APs that are managed by ZoneDirertor, use the following command:

```
aeroscout-detection
```

**Syntax Description**

| | |
|---|---|
| aeroscout-detection | Enable detection of AeroScout RFID Tags by APs |

**Defaults**

None

**Example**

```
ruckus(config-services)# aeroscout-detection
The command was executed successfully.
```

## Configure Load Balancing Commands

Use the load-balancing commands to configure the controller's load balancing settings. To run these commands, you must first enter the `config-load-balancing` context.

### abort

To exit the `config-load-balancing` context without saving changes, use the `abort` command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| abort | Exit the service settings without saving changes |

**Defaults**

None.

## end

To save changes, and then exit the `config-load-balancing` context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| end | Save changes, and then exit the context |

**Defaults**

None.

## exit

To save changes, and then exit the `config-load-balancing` context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| exit | Save changes, and then exit the context |

**Defaults**

None.

## quit

To exit the `config-load-balancing` context without saving changes, use the `quit` command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| quit | Exit the service settings without saving changes |

**Defaults**

None.

## adj-threshold

To configure the adjustment threshold for load balancing, use the following command:

```
adj-threshold {RADIO-INTERFACE} {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| adj-threshold | Configure the adjustment threshold for load balancing |
| {RADIO-INTERFACE} | Configure this interface |
| {NUMBER} | Set the adjust value to this |

**Defaults**

None.

## weak-bypass

To configure the weak bypass for load balancing, use the following command:

```
weak-bypass {RADIO-INTERFACE} {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| weak-bypass | Configure the weak bypass for load balancing |
| {RADIO-INTERFACE} | Configure this interface |
| {NUMBER} | Set the adjust value to this |

**Defaults**

None.

## strong-bypass

To configure the strong bypass for load balancing, use the following command:

```
strong-bypass {RADIO-INTERFACE} {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| strong-bypass | Configure the strong bypass for load balancing |
| {RADIO-INTERFACE} | Configure this interface |
| {NUMBER} | Set the adjust value to this |

**Defaults**

None.

## act-threshold

To configure the activation threshold for load balancing, use the following command:

```
act-threshold {RADIO-INTERFACE} {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| act-threshold | Configure the activation threshold for load balancing |
| {RADIO-INTERFACE} | Configure this interface |

| | |
|---|---|
| {NUMBER} | Set the adjust value to this |

**Defaults**

None.

## show

To display the current service settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| show | Display the current service settings |

**Defaults**

None.

**Example**

```
ruckus(config-load-balancing)# show
Load Balancing:
  Status= Disabled
  Radio:
    0:
      AdjacentThreshold= 38
      WeakBypass= 20
      StrongBypass= 50
      ActivationThreshold= 1
      NewTrigger= 50
      Headroom= 30

    1:
      AdjacentThreshold= 45
      WeakBypass= 20
      StrongBypass= 50
      ActivationThreshold= 1
      NewTrigger= 1
      Headroom= 1
```

# Configure System Commands

Use the `sys` command to configure the controller's system settings, including its host name, FlexMaster server, NTP server, SNMP, and QoS settings. To run these commands, you must first enter the `config-sys` context.

## hostname

To set the system hostname, use the following command:

```
hostname
```

**Syntax Description**

| | |
|---|---|
| `hostname` | Set the controller's system hostname |

**Defaults**

None

**Example**

```
ruckus(config-sys)# hostname ruckus-xjoe
The system identity/hostname settings have been updated.
ruckus(config-sys)# hostname ruckus-xjoe&
The host name must be between 1 and 32 characters and must consist
only of alphanumeric characters, underscores (_), and hyphens (-).
```

## no ntp

To disable the NTP client, use the following command:

```
no ntp
```

**Syntax Description**

| | |
|---|---|
| `no ntp` | Disable the NTP client on the controller. |

**Defaults**

Enabled. The default NTP server addresss is `ntp.ruckuswireless.com`.

**Example**

```
ruckus(config-sys)# no ntp
The NTP settings have been updated.
```

## ntp

To enable the NTP client, use the following command:

```
ntp {NTP server address}
```

**Syntax Description**

| | |
|---|---|
| `ntp` | Enable the NTP client |
| `{NTP server}` | Set the NTP server address to this IP address |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# ntp 192.168.2.21
The NTP settings have been updated.
ruckus(config-sys)# ntp sohu.com
The NTP settings have been updated.
```

## mgmt-acl

To create or configure a management ACL, use the following command:

```
mgmt-acl <WORD>
```

Executing this command enters the `config-mgmt-acl` context.

For the commands that you can execute within the `config-mgmt-acl` context, refer to "Configure Management ACL Commands" on page 171.

**Syntax Description**

| | |
|---|---|
| `mgmt-acl` | Create or configure a management ACL |
| `<WORD>` | Create or configure this management ACL |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# mgmt-acl macl1
The management ACL 'macl1' has been created. To save the Management
ACL, type 'end' or 'exit'.
ruckus(config-mgmt-acl)#
```

## flexmaster

To set the FlexMaster service URL and the periodic inform interval, use the following command:

```
flexmaster <flexmaster_url> interval <inform_interval>
```

**Syntax Description**

| | |
|---|---|
| `flexmaster` | Configure the FlexMaster server settings |
| `<flexmaster_url>` | Set to this URL or IP address |
| `interval` | Configure the periodic inform interval |
| `<inform_interval>` | Set to this interval (in minutes) |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# flexmaster http://172.18.30.118 interval 30
The FlexMaster Management settings have been updated.
```

## snmpv2

To configure the SNMPv2 settings, use the following command:

```
snmpv2
```

Executing this command enters the `config-sys-snmpv2` context.

**Syntax Description**

| | |
|---|---|
| `snmpv2` | Configure the SNMPv2 settings |

**Defaults**

```
ruckus(config-sys)# snmpv2
ruckus(config-sys-snmpv2)#
```

## snmpv3

To configure the SNMPv3 settings, use the following command:

```
snmpv3
```

Executing this command enters the `config-sys-snmpv3` context.

**Syntax Description**

| | |
|---|---|
| `snmpv3` | Configure the SNMPv3 settings |

**Defaults**

```
ruckus(config-sys)# snmpv3
ruckus(config-sys-snmpv2)#
```

## snmp-trap-format

To set the SNMP trap format to SNMPV2 or SNMPV3, use the following command:

```
snmp-trap-format [SNMPv2 | SNMPv3]
```

**Syntax Description**

| | |
|---|---|
| `snmp-trap-format` | Set the SNMP trap format |
| `[SNMPv2 \| SNMPv3]` | Set to either SNMPv2 or SNMPv3 |

**Defaults**

None

**Example**

```
ruckus(config-sys)# snmp-trap-format SNMPV2
The SNMP trap settings have been updated.
```

## snmpv2-trap

To enable the SNMPv2 trap and set the IP address of the trap server, use the following command:

```
snmpv2-trap {IP-ADDR}
```

**Syntax Description**

| | |
|---|---|
| `snmpv2-trap` | Enable the SNMPv2 trap and set the trap server's IP address |
| `{IP-ADDR}` | Set to this IP address |

**Defaults**

None

**Example**

```
ruckus(config-sys)# snmpv2-trap 192.168.10.22
The SNMP trap settings have been updated.
```

## snmpv3-trap

To enable and configure the SNMPv3 trap parameters, use the following command:

```
snmpv3-trap <user_name> <snmp_trap_server_ip> [MD5 | SHA]
<auth_pass_phrase> [DES <privacy_phrase>|AES <privacy_phrase>|
None]
```

**Syntax Description**

| | |
|---|---|
| `snmpv3-trap` | Enable the SNMPv3 trap and configure the trap parameters |
| `<user_name>` | Trap user name |
| `<snmp_trap_server_ip>` | Trap server IP address |
| `[MD5 \| SHA]` | |
| `<auth_pass_phrase>` | |
| `[DES <privacy_phrase>\| AES <privacy_phrase>\| None]` | |

**Defaults**

None

**Example**

```
ruckus(config-sys)#snmpv3-trap test1234 192.168.0.22 MD5
test1234 DES test4321
The command was executed successfully.
```

## no flexmaster

To disable FlexMaster management of the controller, use the following command:

```
no flexmaster
```

**Syntax Description**

| | |
|---|---|
| `no flexmaster` | Disable FlexMaster management of the controller |

**Defaults**

None

**Example**

```
ruckus(config-sys)# no flexmaster
FlexMaster Management has been disabled.
```

## qos

To enable and configure QoS on the controller, use the following command:

```
qos
```

Executing this command enters the `config-sys-qos` context.

**Syntax Description**

| | |
|---|---|
| `qos` | Enable and configure QoS on the controller |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# qos
ruckus(config-sys-qos)#
```

## no qos

To disabl QoS on the controller, use the following command:

```
no qos
```

**Syntax Description**

| | |
|---|---|
| `qos` | Disable QoS on the controller |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# no qos
Changes are saved!
System QoS function has been disabled.
```

## mgmt-if

To configure the management interface settings, use the following command:

```
mgmt-if
```

Executing this command enters the `config-sys-mgmt-if` context.

**Syntax Description**

| | |
|---|---|
| `mgmt-if` | Configure the management interface settings |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# mgmt-if
ruckus(config-sys-mgmt-if)#
```

## no mgmt-if

To disable the management interface, use the following command:

```
no mgmt-if
```

**Syntax Description**

| | |
|---|---|
| `no mgmt-if` | Disable the management interface |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# no mgmt-if
The management interface has been updated.
```

## no snmpv2

To disable the SNMPv2 agent, use the following command:

```
no snmpv2
```

**Syntax Description**

| | |
|---|---|
| `no snmpv2` | Disables the SNMPv3 agent |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# no snmpv2
The SNMP v2 agent settings have been updated.
```

## no snmpv3

To disable the SNMPv3 agent, use the following command:

```
no snmpv3
```

**Syntax Description**

| | |
|---|---|
| `no snmpv3` | Disables the SNMPv3 agent |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# no snmpv3
The SNMP v3 agent settings have been updated.
```

## no snmp-trap

To disable the SNMP trap notifications, use the following command:

```
no snmp-trap
```

**Syntax Description**

| | |
|---|---|
| `no snmp-trap` | Disables SNMP trap notifications |

**Defaults**

None.

**Example**

```
ruckus(config-sys)# no snmp-trap
The SNMP trap settings have been updated.
```

## contact

To enable SNMP trap notification and set the system contact, use the following command:

```
contact {contact name}
```

This command must be entered from within the `snmp-agent` context.

**Syntax Description**

| | |
|---|---|
| `contact` | Configure the SNMP contact |
| `{contact name}` | Set the SNMP contact to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# snmp-agent
ruckus(config-sys-snmp-agent)# contact Joe-User
The command was executed successfully.
```

## location

To set the system location, use the following command:

```
location {location name}
```

This command must be entered from within the `snmp-agent` context.

**Syntax Description**

| | |
|---|---|
| `location` | Configure the SNMP location |
| `{location name}` | Set the SNMP location to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# snmp-agent
ruckus(config-sys-snmp-agent)# location Sunnyvale
The command was executed successfully.
```

## ro-community

To set the read-only (RO) community name, use the following command:

```
ro-community {RO community}
```

This command must be entered from within the `snmp-agent` context.

**Syntax Description**

| | |
|---|---|
| ro-community | Configure the read-only community name |
| {RO community} | Set the read-only community name to this value |

**Defaults**

None.

**Example**

```
ruckus(config-sys-snmp-agent)# ro-community private-123
The command was executed successfully
```

## rw-community

To set the read-write (RW) community name, use the following command:

```
rw-community {RW community}
```

This command must be entered from within the `snmp-agent` context.

**Syntax Description**

| | |
|---|---|
| rw-community | Configure the read-write community name |
| {RW community} | Set the read-write community name to this value |

**Defaults** None.

**Example**

```
ruckus(config-sys-snmp-agent)# rw-community public-123
The command was executed successfully
```

## snmp-trap

To enable SNMP trap notification and set the trap server address, use the following command:

```
snmp-trap {trap server address}
```

**Syntax Description**

| | |
|---|---|
| `snmp-trap` | Enable SNMP trap notifications |
| {trap server address} | Set the trap server address to this IP address or host name |

**Defaults** None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# snmp-trap 192.168.0.3
```

# Configure Management ACL Commands

Use the `mgmt-acl` commands to configure the management ACL settings. To run these commands, you must first enter the `config-mgmt-acl` context.

## abort

To exit the `config-mgmt-acl` context without saving changes, use the abort command.

```
abort
```

**Syntax Description**

| | |
|---|---|
| `abort` | Exit the context without saving changes |

**Defaults** Disabled.

**Example**

```
ruckus(config-mgmt-acl)# abort
No changes have been saved.
ruckus(config-sys)#
```

## end

To save changes, and then exit the config-services context, use the following command:

```
end
```

**Syntax Description**

| | |
|---|---|
| `end` | Save changes, and then exit the context |

**Defaults**

Disabled.

**Example**

```
ruckus(config-mgmt-acl)# end
The management ACL 'macl2' has been updated and saved.
Your changes have been saved.
ruckus(config-sys)#
```

## exit

To save changes, and then exit the config-services context, use the following command:

```
exit
```

**Syntax Description**

| | |
|---|---|
| `exit` | Save changes, and then exit the context |

**Defaults**

Disabled.

**Example**

```
ruckus(config-mgmt-acl)# exit
The management ACL 'macl2' has been updated and saved.
Your changes have been saved.
ruckus(config-sys)#
```

## quit

To exit the `config-mgmt-acl` context without saving changes, use the abort command.

```
quit
```

**Syntax Description**

| | |
|---|---|
| `quit` | Exit the context without saving changes |

**Defaults**

Disabled.

**Example**

```
ruckus(config-mgmt-acl)# quit
No changes have been saved.
ruckus(config-sys)#
```

## name

To set the management ACL name, use the following command:

```
name <WORD>
```

**Syntax Description**

| | |
|---|---|
| `name` | Set the management ACL name |
| `<WORD>` | Set to this name |

**Defaults**

Disabled.

**Example**

```
ruckus(config-mgmt-acl)# name mac12
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## restrict-type single ip-addr

To set the management ACL restriction type to a single IP address, use the following command:

```
restrict-type single ip-addr <ip_address>
```

**Syntax Description**

| | |
|---|---|
| `restrict-type single ip-addr` | Set the management ACL restriction type to a single IP address |
| `<ip_address>` | Set to this IP address only |

**Defaults**

Disabled.

**Example**

```
ruckus(config-mgmt-acl)# restrict-type single ip-addr
192.168.110.22
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## restrict-type subnet ip-subnet

To set the management ACL restriction type to certain subnets, use the following command:

```
restrict-type subnet ip-subnet <IP-SUBNET> <IP-SUBNET>
```

**Syntax Description**

| | |
|---|---|
| `restrict-type subnet ip-subnet` | Set the management ACL restriction type to a single IP address |
| `<IP-SUBNET>` | Set to this subnet |

**Defaults** Disabled.

**Example**

```
ruckus(config-mgmt-acl)#restrict-type subnet ip-subnet
172.30.110.26 255.255.254.0
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## restrict-type range ip-range

To set the management ACL restriction type to an IP address range, use the following command:

```
restrict-type range ip-range <ip_address> <ip_address>
```

**Syntax Description**

| | |
|---|---|
| `restrict-type range ip-range` | Set the management ACL restriction type to a single IP address |
| `<ip_address> <ip_address>` | Set to this IP address range. The first `<ip_address>` is for the startui |

**Defaults** Disabled.

**Example**

```
ruckus(config-mgmt-acl)#restrict-type range ip-range
172.30.110.28 172.30.110.39
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## show

To display the current management ACL settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| `show` | Display the current management ACL settings |

**Defaults** Disabled.

**Example**

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

```
Management ACL:
  ID:
    :
      Name= macl2
      Restriction Type= range
      IP range= 172.30.110.28-172.30.110.39
```

# Configure Syslog Settings Commands

Use the `syslog` commands to configure the controller's syslog notification settings. To run these commands, you must first enter the `config-sys` context.

## no syslog

To disable syslog notification, use the following command:

```
no syslog
```

**Syntax Description**

| | |
|---|---|
| `no syslog` | Disable syslog notification |

**Defaults**

Disabled.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# no syslog
The command was executed successfully.
```

## syslog

To enable syslog notifications and set the syslog server address, use the following command:

```
syslog {syslog address}
```

**Syntax Description**

| | |
|---|---|
| `syslog` | Enable syslog notification |
| {syslog IP address} | Send syslog notifications to this IP address or host name |

**Defaults**

Disabled.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# syslog 192.168.0.1
The command was executed successfully.
```

# Configure Controller's Country Setting Command

Use the `dot11-country-code` commands to configure the controller's country settings. To run these commands, you must first enter the `config-sys` context.

## dot11-country-code

To set the controller's country code, use the following command:

```
dot11-country-code {country code}
```

**Syntax Description**

| | |
|---|---|
| `dot11-country-code` | Configure the controller's country code setting |
| `{country code}` | Set the country code to this value |

**Defaults**

None.

**Example**

To set the country code to US, enter the following command:

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# dot11-country-code US
The command was executed successfully.
```

# Configure Controlller's IP Address Commands

Use the `ip` commands to configure the controller's IP address settings. To run these commands, you must first enter the `config-sys-if` context.

## ip route gateway

To set the controller's gateway IP address, use the following command:

```
ip route gateway {gateway IP address}
```

**Syntax Description**

| | |
|---|---|
| ip route gateway | Configure the controller's gateway IP address |
| {gateway IP address} | Set the controller' gateway IP address to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# interface
ruckus(config-sys-if)# ip route gateway 192.168.0.1
The command was executed successfully.
```

## ip name-server

To set the controller's DNS servers, use the ip name-server command. Use a space to separate the primary and secondary DNS servers.

```
ip name-server {DNS server}
```

**Syntax Description**

| | |
|---|---|
| ip name-server | Configure the controller's DNS server address or addresses |
| {DNS server} | Set the DNS server address to this value. If entering primary and secondary DNS server addresses, use a space to separate the two addresses. |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# interface
ruckus(config-sys-if)# ip name-server 192.168.0.1
The command was executed successfully.
```

## ip addr

To set the controller's IP address and netmask, use the following command:

```
ip addr {IP address} {netmask}
```

Use a space to separate the IP address and netmask.

**Syntax Description**

| | |
|---|---|
| ip addr | Configure the controller's IP address and netmask |
| {IP address} | Set the controller's IP address to this value |
| {netmask} | Set the controller's netmask to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# interface
ruckus(config-sys-if)# ip addr 192.168.0.1 255.255.255.0
The command was executed successfully.
```

## ip mode

To set the controller's IP address mode, use the following command:

```
ip mode {dhcp | static}
```

**Syntax Description**

| | |
|---|---|
| ip mode | Configure the controller's IP address mode |
| {dhcp} | Set the controller's IP address mode to DHCP |
| {static} | Set the controller's IP address mode to static |

**Defaults**

None.

**Example**

To set the controller's IP address mode to DHCP, enter the following command:

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# interface
ruckus(config-sys-if)# ip mode dhcp
The command was executed successfully.
```

## show

To display the current management interface settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| `show` | Display the current management interface settings |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# system
ruckus(config-sys)# interface
ruckus(config-sys-if)# show
Mode: Manual
IP Address: 192.168.122.1
Netmask: 255.255.255.0
Gateway Address: 172.17.16.1
Primary DNS: 172.17.17.5
Secondary DNS: 192.168.0.107
Management VLAN
=======================================================
Status: disabled
VLAN ID:
ruckus(config-if)#
```

## Configure WLAN Settings Commands

Use the `config wlan` commands to configure the WLAN settings, including the WLAN's description, SSID, and its security settings. To run these commands, you must first enter the `config-wlan` context.

### description

To set the WLAN service description, use the following command:

```
description {WLAN description}
```

**Syntax Description**

| | |
|---|---|
| description | Configure the WLAN description |
| {WLAN description} | Set the WLAN description this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
```

```
ruckus(config-wlan-randy-wlansvc-01-open)#
```

## ssid

To set the WLAN service's SSID or network name, use the following command:

```
ssid {SSID}
```

**Syntax Description**

| | |
|---|---|
| `ssid` | Configure the WLAN service's SSID |
| `{SSID}` | Set the SSID to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# description Auth-
open-ENc-None
The command was executed successfully.
ruckus(config-wlan-randy-wlansvc-01-open)#
```

## open none

To set the authentication method to 'open' and encryption method to 'none', use the following command:

```
open none
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to 'open' |
| none | Set the encryption method to 'none' |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open none
The command was executed successfully.
```

## open wpa passphrase {PASSPHRASE} algorithm AES

To set the authentication method to 'open', encryption method to 'WPA', and algorithm to 'AES', use the following command:

```
open wpa passphrase {passphrase} algorithm AES
```

## Syntax Description

| | |
|---|---|
| open | Set the authentication method to open |
| wpa | Set the encryption method to WPA |
| passphrase {passphrase} | Set the WPA passphrase to {passphrase} |
| algorithm AES | Set the encryption algorithm to AES |

## Defaults

None.

## Example

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open wpa passphrase
12345678 algorithm AES
The command was executed successfully.
```

## open wpa passphrase {PASSPHRASE} algorithm TKIP

To set the authentication method to 'open', encryption method to 'WPA', and algorithm to 'TKIP', use the following command:

```
open wpa passphrase {passphrase} algorithm TKIP
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to open |
| wpa | Set the encryption method to WPA |
| passphrase {passphrase} | Set the WPA passphrase to {passphrase} |
| algorithm TKIP | Set the encryption algorithm to TKIP |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open wpa passphrase
12345678 algorithm TKIP
The command was executed successfully.
```

## open wpa2 passphrase {PASSPHRASE} algorithm AES

To set the authentication method to 'open', encryption method to 'WPA2', and algorithm to 'AES', use the following command:

```
open wpa2 passphrase {passphrase} algorithm AES
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to open |
| wpa2 | Set the encryption method to WPA2 |
| passphrase {passphrase} | Set the WPA2 passphrase to {passphrase} |
| algorithm AES | Set the encryption algorithm to AES |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
```

```
ruckus(config-wlan-randy-wlansvc-01-open)# open wpa2 passphrase
12345678 algorithm AES
The command was executed successfully.
```

## open wpa2 passphrase {PASSPHRASE} algorithm TKIP

To set the authentication method to 'open', encryption method to 'WPA2', and algorithm to 'TKIP', use the following command:

```
open wpa2 passphrase {passphrase} algorithm TKIP
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to open |
| wpa2 | Set the encryption method to WPA2 |
| passphrase {passphrase} | Set the WPA2 passphrase to {passphrase} |
| algorithm TKIP | Set the encryption algorithm to TKIP |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open wpa2 passphrase
12345678 algorithm TKIP
The command was executed successfully.
```

## open wep-64 key {KEY} key-id {KEY-ID}

To set the authentication method to 'open', encryption method to 'WEP-64', key index, and WEP key, use the following command:

```
open wep-64 key {key} key-id {key ID}
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to open |
| wep-64 | Set the encryption method to WEP 64-bit |
| key {key} | Set the WEP key to {key} |
| key-id {key ID} | Set the WEP key ID to {key ID} |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open wep-64 key
1234567890 key-id 1
The command was executed successfully.
```

## open wep-128 key {KEY} key-id {KEY-ID}

To set the authentication method to 'open', encryption method to 'WEP-128', key index, and WEP key, use the following command:

```
open wep-128 key {key} key-id {key ID}
```

**Syntax Description**

| | |
|---|---|
| open | Set the authentication method to open |
| wep-128 | Set the encryption method to WEP 128-bit |
| key {key} | Set the WEP key to {key} |
| key-id {key ID} | Set the WEP key ID to {key ID} |

**Defaults**

None.

**Example**

```
ruckus(config)# wlan randy-wlansvc-01-open
The WLAN service 'randy-wlansvc-01-open' has been created. To save
the WLAN service, type end or exit.
ruckus(config-wlan-randy-wlansvc-01-open)# open wep-128 key
12345678901234567890123456 key-id 1
The command was executed successfully.
```

## mac none auth-server

To set the authentication method to 'MAC Address' and encryption method to 'none', use the following command:

```
mac none auth-server {auth server}
```

**Syntax Description**

| | |
|---|---|
| mac | Set the authentication method to 'MAC Address' |
| none | Set the encryption method to 'none' |
| auth-server {auth server} | Set the authorization server address to {auth server} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randall-wlansvc-01)# mac none auth-server
Ruckus-Auth-01
The command was executed successfully.
```

## mac wpa passphrase {PASSPHRASE} alogrithm AES auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WPA', and algorithm to 'AES', use the following command:

```
mac wpa passphrase {passphrase} algorithm AES auth-server
{AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac | Set the authentication method to 'MAC Address' |
| wpa | Set the encryption method to 'WPA' |
| passphrase {passphrase} | Set the WPA passphrase to {passphrase} |
| algorithm AES | Set the encryption algorithm to ‘AES’ |
| auth-server {AUTHSVR-NAME} | Set the authorization server address to `{AUTHSVR-NAME}` |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randall-wlansvc-01)# mac wpa passphrase
12345678 algorithm AES auth-server Ruckus-Auth-01
The command was executed successfully.
```

## mac wpa passphrase {PASSPHRASE} alogrithm TKIP auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WPA', and algorithm to 'TKIP’, use the following command:

```
mac wpa passphrase {PASSPHRASE} alogrithm TKIP auth-server
{AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac wpa | Set the authentication method to 'MAC Address' and encryption method to 'WPA' |
| passphrase {passphrase} | Set the WPA passphrase to {passphrase} |
| algorithm TKIP | Set the encryption algorithm to ‘TKIP’ |

| | |
|---|---|
| auth-server {AUTHSVR-NAME} | Set the authorization server address to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randall-wlansvc-01)# mac wpa passphrase
12345678 algorithm TKIP auth-server Ruckus-Auth-01
The command was executed successfully.
```

## mac wpa2 passphrase {PASSPHRASE} alogrithm AES auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WPA2', and algorithm to 'AES', use the following command:

```
mac wpa2 passphrase {PASSPHRASE} alogrithm AES auth-server
{AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac wpa2 | Set the authentication method to 'MAC Address' and encryption method to 'WPA2' |
| passphrase {PASSPHRASE} | Set the WPA2 passphrase to {passphrase} |
| algorithm AES | Set the encryption algorithm to ‘AES’ |
| auth-server {AUTHSVR-NAME} | Set the authorization server address to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randall-wlansvc-01)# mac wpa2 passphrase
12345678 algorithm AES auth-server Ruckus-Auth-01
The command was executed successfully.
```

## mac wpa2 passphrase {PASSPHRASE} alogrithm TKIP auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WPA2', and algorithm to 'TKIP’, use the following command:

```
mac wpa2 passphrase {PASSPHRASE} alogithm TKIP auth-server
{AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac wpa2 | Set the authentication method to 'MAC Address' and encryption method to 'WPA2' |
| passphrase {PASSPHRASE} | Set the WPA2 passphrase to {passphrase} |
| algorithm TKIP | Set the encryption algorithm to 'TKIP' |
| auth-server {AUTHSVR-NAME} | Set the authorization server address to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randall-wlansvc-01)# mac wpa2 passphrase
12345678 algorithm TKIP auth-server Ruckus-Auth-01
The command was executed successfully.
```

## mac wep-64 key {KEY} key-id {KEY-ID} auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WEP-64', key index, and WEP key, use the following command:

```
mac wep-64 key {KEY} key-id {KEY-ID} auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac | Set the authentication method to MAC address |
| wep-64 | Set the encryption method to WEP 64-bit |
| key {KEY} | Set the WEP key to {KEY} |
| key-id {KEY-ID} | Set the WEP key ID to {KEY-ID} |
| auth-server {AUTHSVR-NAME} | Set the authorization server address to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-wpa2)# mac wep-64 key
15791BD8F2 key-id 2 auth-server Ruckus-Auth-01
The command was executed successfully.
```

## mac wep-128 key {KEY} key-id {KEY-ID} auth-server {AUTHSVR-NAME}

To set the authentication method to 'MAC Address', encryption method to 'WEP-128', key index, and WEP key, use the following command:

```
mac wep-128 key {KEY} key-id {KEY-ID} auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| mac | Set the authentication method to MAC address |
| wep-128 | Set the encryption method to WEP 128-bit |
| key {KEY} | Set the WEP key to {key} |
| key-id {KEY-ID} | Set the WEP key ID to {key ID} |
| auth-server {AUTHSVR-NAME} | Set the authorization server address to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-wpa2)# mac wep-128 key
15715791BD8F212345691BD8F2 key-id 2 auth-server Ruckus-Auth-01
The command was executed successfully.
```

## shared wep-64 key {KEY} key-id {KEY-ID}

To set the authentication method to 'Shared', encryption method to 'WEP-64', key index, and WEP key, use the following command:

```
shared wep-64 key {KEY} key-id {KEY-ID}
```

**Syntax Description**

| | |
|---|---|
| shared | Set the authentication method to 'Shared' |
| wep-64 | Set the encryption method to WEP 64-bit |
| key {KEY} | Set the WEP key to {key} |
| key-id {KEY-ID} | Set the WEP key ID to {KEY-ID} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-wpa2)# shared authentication
encryption wep-64 key 15791BD8F2 key-id 2
The command was executed successfully.
```

## shared wep-128 key {KEY} key-id {KEY-ID}

To set the authentication method to 'Shared', encryption method to 'WEP-128', key index, and WEP key, use the following command:

```
shared wep-128 key {KEY} key-id {KEY-ID}
```

**Syntax Description**

| | |
|---|---|
| shared | Set the authentication method to 'Shared' |
| wep-128 | Set the encryption method to WEP 128-bit |
| key {KEY} | Set the WEP key to {key} |
| `key-id {KEY-ID}` | Set the WEP key ID to {KEY-ID} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-wpa2)# shared wep-128 key
15791B15791BD8F2123456D8F2 key-id 2
The command was executed successfully.
```

## dot1x eap-type EAP-SIM auth-server

To set the authentication method to 'EAP-SIM', use the following command:

```
dot1x eap-type EAP-SIM auth-server [local | name {AUTHSVR-NAME}]
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to '802.11x' |
| EAP-SIM | Set the EAP type |
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan)# dot1x eap-type EAP-SIM auth-server local
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## dot1x eap-type PEAP auth-server

To set the authentication method to 'PEAP', use the following command:

```
dot1x eap-type PEAP auth-server  [local | name {AUTHSVR-NAME}]
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to '802.11x' |
| PEAP | Set the EAP type |

| | |
|---|---|
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan)# dot1x eap-type PEAP auth-server local
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## dot1x wpa algorithm AES auth-server

To set the authentication method to '802.1x EAP', encryption method to 'WPA', and algorithm to 'AES', use the following command:

```
dot1x wpa algorithm AES auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to ‘802.11x’ |
| wpa | Set the encryption method to WPA |
| algorithm AES | Set the algorithm to AES |
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-wlansvc-012)# dot1x wpa algorithm AES auth-
server Ruckus-Auth-01
The command was executed successfully.
```

## dot1x wpa algorithm TKIP auth-server {AUTHSVR-NAME}

To set the authentication method to '802.1x EAP', encryption method to 'WPA', and algorithm to 'TKIP', use the following command:

```
dot1x wpa algorithm TKIP auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to ‘802.11x’ |
| wpa | Set the encryption method to WPA |
| algorithm TKIP | Set the algorithm to TKIP |
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults** None.

**Example**

```
ruckus(config-wlan-wlansvc-012)# dot1x wpa algorithm TKIP auth-server Ruckus-Auth-01
The command was executed successfully.
```

## dot1x wpa2 algorithm AES auth-server {AUTHSVR-NAME}

To set the authentication method to '802.1x EAP', encryption method to 'WPA2', and algorithm to 'AES', use the following command:

```
dot1x wpa2 algorithm AES auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to ‘802.11x’ |
| wpa2 | Set the encryption method to WPA2 |
| algorithm AES | Set the algorithm to AES |
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults** None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-open)# dot1x wpa2 algorithm AES auth-server Ruckus-RADIUS
The command was executed successfully.
```

## dot1x wpa2 algorithm TKIP auth-server {AUTHSVR-NAME}

To set the authentication method to '802.1x EAP', encryption method to 'WPA2', and algorithm to 'TKIP', use the following command:

```
dot1x wpa2 algorithm TKIP auth-server {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| dot1x | Set the authentication method to ‘802.11x’ |
| wpa2 | Set the encryption method to WPA2 |
| algorithm TKIP | Set the algorithm to TKIP |
| `auth-server {AUTHSVR-NAME}` | Set the auth server to {AUTHSVR-NAME} |

**Defaults** None.

**Example**

```
ruckus(config-wlan-wlansvc-012)# dot1x authentication encryption
wpa2 algorithm TKIP auth-server Ruckus-Auth-01
The command was executed successfully.
```

## dot1x authentication encryption wep-64 auth-server

To set the authentication method to '802.1x EAP', encryption method to 'WEP-64', key index, and WEP key, use the following command:

```
dot1x authentication encryption wep-64 auth-server {auth server}
```

**Syntax Description**

| | |
|---|---|
| dot1x authentication | Set the authentication method to ’802.11x’ |
| encryption wep-64 | Set the encryption method to WEP 64-bit |
| `auth-server {auth server}` | Set the auth server to `{auth server}` |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-wlansvc-012)# dot1x authentication encryption
wep-64 auth-server Ruckus-Auth-01
The command was executed successfully.
```

## dot1x authentication encryption wep-128 auth-server

To set the authentication method to '802.1x EAP', encryption method to 'WEP-128', key index, and WEP key, use the following command:

```
dot1x authentication encryption wep-128 auth-server
```

**Syntax Description**

| | |
|---|---|
| dot1x authentication | Set the authentication method to ’802.11x’ |
| encryption wep-128 | Set the encryption method to WEP 128-bit |
| `auth-server {auth server}` | Set the auth server to `{auth server}` |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-wlansvc-012)# dot1x authentication encryption
wep-128 auth-server Ruckus-Auth-01
The command was executed successfully.
```

## client isolation

To enable wireless client isolation, use the following command:

```
client isolation
```

**Syntax Description**

| | |
|---|---|
| client isolation | Enable client isolation |

**Defaults**

None.

**Example**

```
ruckus(config-wlan-randy-wlansvc-01-open)# client isolation
The command was executed successfully.
```

## no client-isolation

To disable wireless client isolation, use the following command:

```
no client-isolation
```

**Syntax Description**

| | |
|---|---|
| no client-isolation | Disable client isolation |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no client-isolation
The command was executed successfully.
```

## no web-auth

To disable Web authentication, use the following command:

```
no web-auth
```

**Syntax Description**

| | |
|---|---|
| no web-auth | Disable Web authentication |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no web-auth
The command was executed successfully.
```

## no acct-server

To disable the AAA server, use the following command:

```
no acct-server
```

**Syntax Description**

| | |
|---|---|
| no acct-server | Disable AAA server authentication |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no acct-server
The command was executed successfully.
```

## no vlan

To disable the management VLAN, use the following command:

```
no vlan
```

**Syntax Description**

| | |
|---|---|
| no vlan | Disable the management VLAN |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no vlan
The command was executed successfully.
```

## no dynamic-vlan

To disable dynamic VLAN, use the following command:

```
no dynamic-vlan
```

**Syntax Description**

| | |
|---|---|
| no dynamic-vlan | Disable dynamic VLAN |

**Defaults**

None.

**Example**

```
ruckus(config-wlan)# no dynamic-vlan
```

```
The dynamic vlan can't be enabled or disabled when the authentication
method is not '802.1x-EAP' or 'MAC Address' and Encryption method
is not WPA,WPA2,WPA mixed,or none.
ruckus(config-wlan)# no dynamic-vlan
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## dynamic-vlan

To enable dynamic VLAN, use the following command:

```
dynamic-vlan
```

**Syntax Description**

| | |
|---|---|
| dynamic-vlan | Enable dynamic VLAN |

**Defaults**

None.

**Example**

```
ruckus(config-wlan)# dynamic-vlan
The command was executed successfully. To save the changes, type
'end' or 'exit'
```

## no zero-it-activation

To disable Zero-IT activation, use the following command:

```
no zero-it-activation
```

**Syntax Description**

| | |
|---|---|
| no zero-it-activation | Disable Zero-IT activation |

**Defaults**

None.

**Example**

```
ruckus(config-wlan)# no zero-it-activation
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## zero-it-activation

To enable Zero-IT activation, use the following command:

```
zero-it-activation
```

**Syntax Description**

| | |
|---|---|
| zero-it-activation | Enable Zero-IT activation |

**Defaults** None.

**Example**

```
ruckus(config-wlan)# zero-it-activation
The Zero-IT Activation can't be enabled or disabled when the wlan
type is Guest Access or Hotspot Service Or Encryption method is
WPA-Mixed Or Authentication method is 802.1x EAP + MAC Address Or
Authentication method is 802.1x EAP and Authentication Server is
Local Database Or Encryption Algorithm is Auto.
ruckus(config-wlan)# zero-it-activation
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## rate-limit-uplink

To set the uplink rate limit, use the following command:

```
rate-limit-uplink [disabled |100K | 250K |500K |1M |2M |5M |10M
|20M |50M]
```

**Syntax Description**

| | |
|---|---|
| rate-limit-uplink | Set the uplink rate limit |
| disabled | Disable uplink rate limiting |
| 100K \| 250K \|500K \|1M \|2M \|5M \|10M \|20M \|50M | Enable uplink rate limiting and set it to this value |

**Defaults** None.

## no rate-limit-uplink

To disable the uplink rate limit, use the following command:

```
no rate-limit-uplink
```

**Syntax Description**

| | |
|---|---|
| no rate-limit-uplink | Disable the downlink rate limit |

**Defaults** None.

**Example**

```
ruckus(config-wlan)# rate-limit-uplink disabled
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## rate-limit-downlink

To set the downlink rate limit, use the following command:

```
rate-limit-uplink [disabled |100K | 250K |500K |1M |2M |5M |10M
|20M |50M]
```

**Syntax Description**

| | |
|---|---|
| rate-limit-downlink | Set the downlink rate limit |
| disabled | Disable downlink rate limiting |
| 100K \| 250K \|500K \|1M \|2M \|5M \|10M \|20M \|50M | Enable downlink rate limiting and set it to this value |

**Defaults** None.

## no rate-limit-downlink

To disable the downlink rate limit, use the following command:

```
no rate-limit-downlink
```

**Syntax Description**

| | |
|---|---|
| no rate-limit-downlink | Disable the downlink rate limit |

**Defaults** None.

**Example**

```
ruckus(config-wlan)# rate-limit-downlink disabled
The command was executed successfully. To save the changes, type
'end' or 'exit'.
```

## no tunnel-mode

To disable the tunnel mode, use the following command:

```
no tunnel-mode
```

**Syntax Description**

| | |
|---|---|
| no tunnel-mode | Disable the tunnel mode |

**Defaults** None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no tunnel-mode
The command was executed successfully.
```

## no l2 access control

To disable the L2 ACL, use the following command:

```
no l2 access control
```

**Syntax Description**

| | |
|---|---|
| no l2 access control | Disable L2 access control |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no l2 access control
The command was executed successfully.
```

## no l3 access control

To disable the L3/L4/IP ACL, use the following command:

```
no l3 access control
```

**Syntax Description**

| | |
|---|---|
| no l3 access control | Disable L3 access control |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no l3 access control
The command was executed successfully.
```

## web authentication

To enable Web authentication, use the following command:

```
web-auth {AUTHSVR-NAME}
```

**Syntax Description**

| | |
|---|---|
| web-auth | Enable Web authentication |
| {AUTHSVR-NAME} | The AAA server to use for Web authentication |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# web authentication Ruckus-RADIUS
The command was executed successfully.
```

```
ruckus(config-wlan-wlan-123)#
```

## acct-server

To set the AAA server, use the following command:

```
acct-server {AAA server}
```

**Syntax Description**

| | |
|---|---|
| acct-server | Configure the AAA server |
| {AAA server} | Set the AAA server to this address |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# acct-server Ruckus-Acct-01
The command was executed successfully.
```

## acct-server interim-update

To configure the interim update frequency (in minutes) of the AAA server, use the following command:

```
acct-server {AAA name} interim-update {minutes}
```

**Syntax Description**

| | |
|---|---|
| acct-server {AAA name} | Confgure the interim update frequency of the AAA server |
| interim-update {minutes} | Set the update frequency to this value (in minutes) |

**Defaults**

5 (minutes)

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# acct-server Ruckus-Acct-01 intrim-update 5
The command was executed successfully.
```

## vlan

To enable the management VLAN and set the VLAN ID, use the following command:

```
vlan {VLAN ID}
```

**Syntax Description**

| | |
|---|---|
| `vlan` | Enable management VLAN |
| `{VLAN ID}` | Set the VLAN ID to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# vlan 12
The command was executed successfully.
```

## hide-ssid

To hide an SSID from wireless users, use the following command. Wireless users who know the SSID will still be able to connect to the WLAN service.

```
hide-ssid
```

**Syntax Description**

| | |
|---|---|
| hide-ssid | Hide SSID from wireless users |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# hide-ssid
The command was executed successfully.
```

## no hide-ssid

To unhide or broadcast an SSID to wireless users, use the following command:

```
no hide-ssid
```

**Syntax Description**

| | |
|---|---|
| no hide-ssid | Broadcast SSID to wireless users |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# no hide-ssid
The command was executed successfully
```

## tunnel-mode

To enable tunnel mode, use the following command:

```
tunnel-mode
```

**Syntax Description**

| | |
|---|---|
| tunnel-mode | Enable tunnel mode |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# tunnel-mode
The command was executed successfully.
```

## max-clients

To set the maximum number of clients for a specific WLAN, use the following command:

```
max-clients {NUMBER}
```

**Syntax Description**

| | |
|---|---|
| max-clients | Configure the maximum number of clients that the WLAN can support |
| {NUMBER} | Set the maximum clients to this value |

**Defaults**

None.

**Example**

To set the maximum number of clients on WLAN-123 to 50, enter this command:

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# max-clients 50
The command was executed successfully.
```

## acl l2

To configure the L2 ACL, use the following command:

```
acl l2 {L2ACL-NAME}
```

**Syntax Description**

| | |
|---|---|
| `acl l2` | Configure the L2 ACL |
| `{L2ACL-NAME}` | The name of the L2 ACL that you want to configure |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# acl l2 L2-ACL-name
The command was executed successfully.
```

## acl l3

To configure the L3/L4/IP ACL, use the following command:

```
acl l3 {L2ACL-NAME}
```

**Syntax Description**

| | |
|---|---|
| `acl l3` | Configure the L3 ACL |
| `{L2ACL-NAME}` | The name of the L3 ACL that you want to configure |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan wlan-123
ruckus(config-wlan-wlan-123)# acl l3 L3-ACL-name
The command was executed successfully.
```

## show

To display the WLAN settings, use the following command:

```
show
```

**Syntax Description**

| | |
|---|---|
| `show` | Display WLAN settings |

**Defaults**

None.

**Example**

```
ruckus> en

ruckus# conf wlan show

WLAN Service
==========================================================
ID: 1
Name: corporate
Description:
Authentication: open
Encryption: wpa
Algorithm: aes
Passphrase: test1234
Authentication Server: Disabled
Accounting Server: Disabled
Tunnel Mode: Disabled
Max Clients: 100
Web Authentication: Disabled
Client Isolation: Disabled
VLAN: Disabled
Closed System: Disabled (Broadcast SSID)
L2/MAC: No ACLS
L3/L4/IP address: No ACLS
----------------------------------------------------------
```

# Configure WLAN Group Settings Commands

Use the `wlan-group` commands to configure the settings of a particular WLAN group.

## wlan-group

To create a new WLAN group or update an existing WLAN group, use the following command:

```
wlan-group {WLAN group name}
```

**Syntax Description**

| | |
|---|---|
| wlan-group | Configure the WLAN group |
| {WLAN group name} | Create or edit this WLAN group |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
The WLAN group has been created. To save the WLAN group, type end
or exit.
```

## abort

To exit the `wlan-group` context without saving changes, use the `abort` command. Enter this command from within the context of the WLAN group that you are configuring.

```
abort
```

**Syntax Description**

| | |
|---|---|
| `abort` | Exit the WLAN group without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# abort
No changes have been saved.
```

## end

To save changes to the WLAN group settings and exit the `wlan-group` context, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
end
```

**Syntax Description**

| | |
|---|---|
| `end` | Save changes, and then exit the WLAN group |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# end
The WLAN group 'hello-wlangrp' has been updated.
Your changes have been saved.
```

## exit

To save changes to the WLAN group settings and exit the `wlan-group` context, use the `exit` command. Enter this command from within the context of the WLAN group that you are configuring.

```
exit
```

**Syntax Description**

| | |
|---|---|
| `exit` | Save changes, and then exit the WLAN group |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# exit
The WLAN group 'hello-wlangrp' has been updated.
Your changes have been saved.
```

## quit

To exit the `wlan-group` context without saving changes, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
quit
```

**Syntax Description**

| | |
|---|---|
| `quit` | Exit the WLAN group without saving changes |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# quit
No changes have been saved.
```

## name

To set the WLAN group name, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
name {WLAN group name}
```

**Syntax Description**

| | |
|---|---|
| `name` | Configure the WLAN group name |

| | |
|---|---|
| {WLAN group name} | Set the WLAN group name to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# name hello-wlangrp
The command was executed successfully.
```

## description

To set the WLAN group description, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
description {WLAN group description}
```

**Syntax Description**

| | |
|---|---|
| description | Configure the WLAN group description |
| {WLAN group description} | Set the WLAN group description to this value |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# description my-description-123
The command was executed successfully.
```

## no wlan

To delete a WLAN service, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
no wlan {WLAN name to be deleted}
```

**Syntax Description**

| | |
|---|---|
| no wlan | Delete an existing WLAN service |
| {WLAN name to be deleted} | Delete the WLAN service with this name |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# no wlan wlansvc-012
The command was executed successfully.
```

## wlan

To add a WLAN service to the WLAN group, use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
wlan {WLAN name to be created}
```

**Syntax Description**

| | |
|---|---|
| `wlan` | Create a WLAN service |
| {WLAN name to be created} | Name of the new WLAN |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# wlan wlansvc-012
The command was executed successfully.
```

## wlan vlan override none

To add a WLAN service to the WLAN group and set the VLAN tag to 'No Change', use the following command. Enter this command from within the context of the WLAN group that you are configuring.

```
wlan {WLAN name} vlan override none
```

**Syntax Description**

| | |
|---|---|
| wlan {WLAN name} | Add the {WLAN name} to the WLAN group |
| vlan override none | Set the VLAN tag of {WLAN name} to No Change |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# wlan wlansvc-012 vlan override
none
The command was executed successfully.
```

## wlan vlan override untag

To add a WLAN service to the WLAN group and set the VLAN tag to 'Untag', use the following command:

```
wlan {WLAN name} vlan override untag
```

**Syntax Description**

| | |
|---|---|
| wlan {WLAN name} | Add the {WLAN name} to the WLAN group |
| vlan override untage | Set the VLAN tag of {WLAN name} to Untagged |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group wlangrp-01
ruckus(config-wlangrp-wlangrp-01)# wlan wlansvc-012 vlan override untag
The command was executed successfully.
```

## wlan vlan override tag

To add a WLAN service to the WLAN group and set the VLAN tag to 'Tag', use the following command:

```
wlan {WLAN name} vlan override tag {vlan ID}
```

**Syntax Description**

| | |
|---|---|
| wlan {WLAN name} | Add the {WLAN name} to the WLAN group |
| vlan override tag {vlan ID} | Set the VLAN tag of {WLAN name} to Tagged for {vlan ID} |

**Defaults**

None.

**Example**

```
ruckus# config
ruckus(config)# wlan-group RW-group

The WLAN group 'RW-group' has been created. To save the WLAN
group, type end or exit.
ruckus(config-wlangrp-RW-group)# wlan corporate vlan override
tag 33
The WLAN service (SSID) 'corporate' has been added.
ruckus(config-wlangrp-RW-group)#
```

# 4

# Using Debug Commands

**In This Chapter**

# Deauthorizing a Device

Deauthorizing a device refers to removing it from the list of devices that have been approved to join the controller.

## delete-station {MAC address}

To deauthorize the station with the specified MAC address, use the following command.

```
delete-station {MAC address}
```

**Syntax Description**

| | |
|---|---|
| `delete-station` | Delete the station with the specified MAC address |
| `{MAC address}` | The MAC address of the station that will be deleted |

**Defaults**

None.

**Example**

```
ruckus# debug
ruckus(debug)# delete-station 00:10:77:01:00:01
The command was executed successfully.
```

# Restarting a Device

Use the `restart` command to restart a device that is reporting to the controller.

## restart-ap {MAC address}

To restart the device with the specified MAC address, use the `restart ap` command.

```
restart-ap {MAC address}
```

### Syntax Description

| | |
|---|---|
| `restart-ap` | Restart the device with the specified MAC address |
| `{MAC address}` | The MAC address of the device to be restarted |

### Defaults

None.

### Example

```
ruckus# debug
ruckus(debug)# restart-ap 00:13:92:EA:43:01
The command was executed successfully.
```

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