Aruba Central
Switch Configuration

a Hewlett Packard
Enterprise company

User Guide

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Contacting Support

Table 1: *Contact Information*

Main Site	arubanetworks.com
Support Site	support.arubanetworks.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	licensing.arubanetworks.com
End-of-life Information	arubanetworks.com/support-services/end-of-life/
Security Incident Response Team	Site: arubanetworks.com/support-services/security-bulletins/ Email: sirt@arubanetworks.com

This chapter describes the procedure for configuring Switches. For more information on Switch configuration, see the following topics:

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Configuring Switch Parameters on page 6
Viewing Port Details on page 6
Configuring VLANs on page 7
Configuring DHCP Pools on page 8
Configuring System Parameters for a Switch on page 9

Aruba Switches

The Aruba Switches enable secure, role-based network access for wired users and devices, independent of their location or application.

The Switch operates as a wired access point when deployed with an Aruba Mobility Controller. As a wired access point, users and their devices are authenticated and assigned a unique role by the Mobility Controller. These roles are applied irrespective of whether the user is a Wi-Fi client, or is connected to a port on the Switch. The use of Switch allows an enterprise workforce to have consistent and secure access to network resources based on the type of users, client devices, and connection method used.

Central supports the following Aruba Switch platforms:

New Switch Platforms

Aruba 2920 Switch Series
Aruba 2930F Switch Series
Aruba 2540 Switch Series

Supported Firmware Versions

Central supports the following firmware versions on Aruba switches:

Aruba 2920 Switch Series—WB.16.02.0012 or later
Aruba 2930F Switch Series—WC.16.02.0012 or later
Aruba 2540 Switch Series—YC.16.02.0012 or later

Legacy Aruba Switch Platforms

Central also supports the following legacy Switch models:

S1500-12P
S1200-24P
S2500-24P
S3500-24T

Supported Firmware Versions

The following ArubaOS software versions are supported on the legacy Switch platforms:

7.3.2.6

7.4.0.3

7.4.1.4

Configuring Switch Parameters

You can export configurations from an existing Switch to a new Switch within the same group. In this case, the new configuration of the Switch overwrites the existing configuration (including the device override).

You can configure parameters of a Switch through the UI. By default, these parameters have the values configured using the Switch.

If the switch inherits the group configuration, the configuration parameters are already defined. However, if required, you can edit these parameters.

To view the configuration parameters for the Switch, complete the following steps:

1. Click **Configuration**.

   To configure a legacy Aruba Switch, click **Switch-MAS**.

   To configure other Aruba Switches, click **Switch-Aruba**.
2. Click **Switches**. The Switches page displays information described in the following table.

Table 2: *Switches Pane*

Name	Description
MAC Address	MAC address of the Switch
Hostname	Name of the host.
IP Assignment	Method of IP assignment as Static or DHCP.
IP Address	IP address for static IP assignment.
Netmask	Netmask for static IP assignment.
Default Gateway	Default gateway for static IP assignment.

3. To view the details of the switch, click the MAC address of the switch.
4. To edit the switch configuration parameters, click the edit icon.

Viewing Port Details

To view the port details of a switch, complete the following steps:

1. Click **Configuration**.

   To configure a legacy Aruba switch , click **Switch-MAS**.

   To configure other Aruba switches, click **Switch-Aruba**.
2. Click **Ports**. The **Ports** page displays the list of ports configured on the switch.

For the legacy switches, the **Ports** page displays the following information:

Table 3: *Contents Of The Ports Page For Legacy Switches*

Name	Description
Port Number	Indicates the number assigned to the switch port.
Admin Status	Indicates the operational status of the port.
Port Mode	Indicates the mode of operation. The port can be configured to function in Trunk or Access mode.
VLAN	Shows the VLAN to which the port is assigned. Based on the port mode, you can assign different types of VLAN. For **Access** mode, an **Access VLAN** can be specified. For **Trunk** mode, the **Native VLAN** and **Allowed VLAN** can be configured.
PoE	Displays the enabled or disabled status of Power over Ethernet (PoE).
Auto Negotiation	Indicates the status of the Auto Negotiation. If auto negotiation is enabled, the Speed and Duplex fields are automatically set to **Auto**. If auto negotiation is disabled, the speed can be set to 10 Mbps, 100 Mbps, or 1 Gbps and the duplex mode can be set to half or full.
Speed/Duplex	Displays the speed and duplex configuration settings for the client traffic.
Trusted	Indicates if the port is trusted.

For the other Aruba switches, the **Ports** page displays the following information:

Table 4: *Contents Of The Ports Page For Other Aruba Switches*

Name	Description
Port Number	Indicates the number assigned to the switch port.
Admin Status	Indicates the operational status of the port.
PoE	Displays the enabled or disabled status of Power over Ethernet (PoE).

3. To edit port details, click **Edit** and configure the port parameters.
4. Click **Save**.

Configuring VLANs

The Aruba switches support the following types of VLANs:

Port-based VLANs — In the case of trusted interfaces, all untagged traffic is assigned a VLAN based on the incoming port.

Tag-based VLANs — In the case of trusted interfaces, all tagged traffic is assigned a VLAN based on the incoming tag.

The Aruba legacy switches such as the Mobility Access Switch also support the following types of VLANs.

Voice VLANs — You can use voice VLANs to separate voice traffic from data traffic when the voice and data traffic are carried over the same Ethernet link.

MAC-based VLANs — In the case of untrusted interfaces, you can associate a client to a VLAN based on the source MAC of the packet. Based on the MAC, you can assign a role to the user after authentication.

Viewing and Modifying VLAN Details

By default, all the ports in the Switches are assigned to VLAN 1. However, if the ports are assigned to different VLANs, the VLANs page displays these details.

To view the VLAN details, complete the following steps:

1. Click **Configuration**.

   To configure a legacy Aruba switch , click **Switch-MAS**.

   To configure other Aruba switches, click **Switch-Aruba**.
2. Click **VLANs**. The **VLANs** page is displayed.
3. To edit the VLAN details, click the edit icon and configure the following parameters:

   ID—VLAN ID.

   Description—A short description for VLAN.

   IP Address—IP address of the VLAN interface.

   Netmask—Netmask of the IP address of the VLAN interface.

   Tagged Ports—Tagged ports if any. A tagged port will normally carry traffic for multiple VLANs from the switch to other network devices such as an upstream router or an edge switch.

   Untagged Ports—Untagged ports if any. In case of untagged ports, the Ethernet frames are not VLAN tagged.
4. Click **Update**.
5. Click **Save Settings**.

Deleting VLAN Details

To delete the VLAN details, complete the following steps:

1. Ensure that the VLANs are not tagged to any ports.
2. Click the delete icon for the VLAN you want to delete.

VLAN 1 is the primary VLAN and cannot be deleted.

Configuring DHCP Pools

To configure a new DHCP pool on a switch, complete the following steps:

1. To configure a DHCP pool on a Mobility Access Switch, click **Configuration**> **Switch-MAS** > **DHCP Pools**.

   If the DHCP pools are already configured, the **DHCP Pools** page displays the details such as the name of the pool, IP address of the network, netmask, and the IP address of the default router.
2. To activate the DHCP service, select the **Enable DHCP service** check box.
3. To edit the DHCP pool details, click the edit icon.
4. To delete a DHCP pool, click the delete icon. When the **Do you want to delete <DHCP Pool Name>?** pop-up window prompts you, click **Yes**.

Adding a New DHCP Pool

1. To add a new DHCP pool, click **New** and configure the following parameters:

   Name—Name of the pool.

   Network—IP address assigned to the DHCP pool.

   Netmask—Netmask of the DHCP pool.

   Lease Time—The lease time for the DHCP pool in days-hours-minutes format.

   Default Router—IP address of the default router.

   DNS Server—Address of the DNS server. To add multiple DNS servers, click +.

   WINS Server—Address of the WINS server. The WINS server address is required for legacy Aruba switches only. To add multiple WINS servers, click +.

   Exclude Address Range—The IP address range to exclude. To add multiple excluded address range, click +.

   Option—The code and type of the DHCP option to configure.

   Value—The value to assign to the DHCP option. To add multiple values, click +.

2. Click **Add**.

Configuring System Parameters for a Switch

The **System** menu under **Switch-MAS** and **Switch-Aruba** allows you to configure administrator credentials and enable mode on a switch.

Configuring Administrator Credentials for Mobility Access Switch

To configure administrator credentials for a Mobility Access Switch, complete the following steps:

1. Click the **Configuration**> **Switch-MAS** > **System**. The **System** page opens.
2. Enter the password for admin in the **Admin Password** text box and confirm the administrator password.
3. Enter the password for enable mode in the **Enable Mode Password** text box and confirm the password.
4. Click **Save Settings**.

Configuring Administrator and Operator Credentials for Other Aruba Switches

To configure administrator credentials for other Aruba switches, complete the following steps:

1. Click the **Configuration** > **Switch-Aruba** > **System**. The **System** page opens.
2. Enter the username for the administrator user.
3. Enter the password for admin in the **Admin Password** text box and confirm the administrator password.
4. Enter the password for enable mode in the **Enable Mode Password** text box and confirm the password.
5. To configure the operator user credentials, complete the following steps:
6. Select the **Set Operator Username** check box.
7. Enter a username and password for the operator user.
8. Confirm the password.
9. Click **Save Settings**.

Configuring a Name Server

To set a static IP switches, you must configure a name server. To configure a name server, complete the following steps:

1. Click **Configuration**.

   To configure a legacy Aruba switch , click **Switch-MAS**.

   To configure other Aruba switches, click **Switch-Aruba**.
2. Enter the IP address of the name server obtained from the DNS server in the **Name Server** text box.
3. Click **Save Settings**.