

Provision

This chapter contains the following sections:

- Port Management, on page 1
- Network Configuration, on page 2

Port Management

Port Management provides a front panel view of each device that includes switch ports that can be configured by Cisco Business Dashboard. This page allows you to view the status of the ports including traffic counters, and make changes to the port configuration. This page also lets you view and configure the Smartports role for ports on devices that support Smartports. You can use the search box to limit the devices displayed. Type in all or part of a device name, product ID, or serial number to find the desired device.

A list view of the same information is also provided to show all the switch ports in a tabular format. The front panel view in **Port Management** presents two different views of the device:

The **Physical** view allows you to see the status and change the configuration of the port at the physical layer. You can view or change settings for speed, duplex, Energy Efficient Ethernet (EEE), Power over Ethernet (PoE), and VLANs. Each port is shown with a green LED indicating link and a yellow LED indicating that power is being supplied to the attached device.

The **Smartports** view allows you to see the current Smartports role for each port, and to change the role.

Note A **Smartport** is an interface to which a built-in (or user-defined) template can be applied. These templates are designed to provide a means of quickly configuring the device to support the communication requirements and utilize the features of various types of network devices.

To view the status of a port, click on the port in either the front panel view or list view. The Basic Info panel for the port appears, showing a series of panels as follows:

General	This panel shows the physical layer status of the port and allows you to enable the port or shut it down
Ethernet	Use this panel to control speed and duplex settings
VLAN	This panel shows the VLANs currently configured on the port. Click the **Select VLAN** or **Create VLAN** buttons to modify this configuration

POE	This panel is only displayed for POE-enabled ports, and allows you to configure the POE settings for the port. You can also power-cycle an attached POE device by clicking the Toggle Power button
Green Ethernet	This panel allows you to manage the Energy Efficient Ethernet (EEE) configuration for the port
Port Authentication	This panel allows you to enable 802.1x port authentication on this port. Authentication will be performed against the authentication server(s) specified in the Authentication profile.
Smartports	This panel shows the Smartports roles available for this port. Click on a role to apply that configuration to the port. The currently configured role is highlighted.

To make changes to the port settings, click the **edit** icon in the top right of the pane containing that setting. Once the changes have been made, click the **Save** icon.

Network Configuration

The **Network Configuration** pages allow you to define various configuration parameters that typically apply to all devices in the network. These parameters include configuration such as time settings, domain name services, administrator authentication, and Virtual LANs.

Time Management

The **Time Management** page allows you to configure timezones, daylight saving, and NTP servers for the network. The following sections provide instructions on modifying the Time Settings configuration profile.

Modifying a Time Management Configuration Profile

1. Navigate to **Provision > Network Configuration** > **Time Management**.
2. Click the toggle button to enable the profile.
3. In the **Time Setting** section, select an appropriate timezone from the drop-down list.
4. Optionally enable **Daylight Saving** by checking the check box, and then specify the parameters for daylight saving in the fields provided. You may choose to specify fixed dates or a recurring pattern. You may also specify the offset to be used.
5. Optionally enable the Network Time Protocol (NTP) in the **Use NTP** section for clock synchronization by checking the check box. In the boxes provided specify at least one NTP server address.
6. Click **Update**.

DNS Resolvers

The **DNS Resolvers** page allows you to configure the domain name and domain name servers for the network. The following sections provide instructions on creating, modifying and deleting the DNS resolvers configuration profile.

Modifying a DNS Resolver Configuration Profile

1. Navigate to **Provision > Network Configuration** > **DNS Resolvers**.
2. Click the toggle button to enable the profile.
3. Specify the domain name for the network.
4. Specify at least one DNS server address.
5. Click **Save**.

Authentication

The **Authentication** page allows you to configure administrative user access to network devices and set authentication servers (RADIUS servers) to use when authenticating network access. The following sections provide instructions on modifying the authentication configuration profile.

1. Navigate to **Provision > Network Configuration > Authentication**.
2. Click the toggle button to enable the profile.
3. Optionally, specify one or more username and password combinations for local user authentication. Additional users may be added by clicking the ✚ (plus) icon.
4. Optionally specify one or more RADIUS servers to use for authentication.
5. Click **Update**.

Virtual LANs

The **Virtual LANs** page allows you to divide your switch network into multiple virtual networks or VLANs. You can find the existing VLANs in the network that were not configured by Cisco Business Dashboard Lite also displayed on this page in a separate table. The following sections provide instructions on modifying Virtual LAN configuration profile.

Create a Virtual LAN

1. Navigate to **Provision > Network Configuration** > **Virtual LANs**.
2. Click the toggle button to enable the profile.
3. Click the ✚(plus) icon to add a new VLAN.
4. Specify a descriptive name for the VLAN, and the VLAN ID to be used. The VLAN ID should be a number in the range 1-4094.
5. You may create multiple VLANs. If you want to create additional VLANs, click **+ (plus) icon** and go back to step 4.
6. Click **Update**. The new VLAN will be created on all VLAN-capable devices.

If the VLAN ID of the newly created VLAN matches an existing VLAN already present on devices, that VLAN will be adopted by Cisco Business Dashboard Lite and removed from the discovered Virtual LANs table.

Modify a VLAN

1. Click the edit button.
2. Make the required changes to the VLAN settings and click **Update**.

Remove a VLAN

1. Click the edit button.
2. Click the X icon next to the VLAN to be removed.

Remove a VLAN not created by Cisco Business Dashboard Lite

In the table of discovered VLANs, click the **delete** icon next to the VLAN or VLANs to be removed.



Note VLAN 1 may not be deleted.

Wireless LANS

The Wireless LANs page allows you to manage the wireless networks in your environment. You can find the existing Wireless LANs in the network that were not configured by Cisco Business Dashboard Lite also displayed in a separate table. The following sections provide you instructions on modifying Wireless LAN configuration profile.

Create a Wireless LAN

To create a wireless LAN, complete the following steps.

Procedure

Step 1 Navigate to **Provision > Network Configuration > Wireless LANs**

Step 2 Click the toggle button to enable the profile

Step 3 Click the ✚(plus) icon to add a new Wireless LAN.

Step 4 Specify an SSID name for the Wireless LAN, and the VLAN ID that it should be associated with. The VLAN ID should be a number in the range 1-4094.

Step 5 Select the type of security required.

Step 6 If you select an **Enterprise** security type, then make sure to enable the authentication profile containing the preferred RADIUS server(s) to use.

Step 7 Optionally, click to expand the Advanced Settings to change the **Broadcast**, **Application Visibility**, **Local Profiling** and **Radio** settings to match your requirements.

Step 8 Click **Save** to continue or **Cancel** to discard your changes.

Step 9 You can create multiple Wireless LANs. If you want to create additional Wireless LANs, Click the ✚ (plus) icon and go back to step 4.

Step 10 Click **Update**. The new WLANs will be created on all devices with wireless access point capabilities.

If the newly created Wireless LAN matches an existing Wireless LAN already present on devices, that Wireless LAN will be adopted by Cisco Business Dashboard Lite and removed from the discovered Wireless LANs table.

Step 11 To modify a Wireless LAN, click **Edit,** make the required changes and then click **Update.**

Step 12 To remove a Wireless LAN, click **Edit**, then click **Delete** and then click **Update**.

Step 13 To remove a Wireless LAN that was not created by Cisco Business Dashboard Lie, in the table of discovered Wirless LANs, click the radio button for the Wireless LAN to be removed and then click **Delete.**

Reapply Network Configurations

In certain situations, such as when the device is offline or lacks the correct credentials, changes made to a network configuration profile may not be applied to the devices. To fix this, the network configuration profile may be reapplied to all devices using the following steps:

1. Navigate to the network configuration page.
2. Click **Reapply Configuration**.

Alternatively, you can go to the device detail page to perform the reapplication. Cisco Business Dashboard Lite supports reapplication at two levels.

- **Profile level**: Applies the current network configuration profile to all devices.
- **Device level**: Applies selected network configuration profiles to an individual device.