



## **Software Configuration Guide, Cisco IOS XE Cupertino 17.7.x (Catalyst 9400 Switches)**

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## Preface

This preface describes the conventions of this document and information on how to obtain other documentation. It also provides information on what's new in Cisco product documentation.



**Note** The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on standards documentation, or language that is used by a referenced third-party product.

- [Document Conventions](#) , on page iii
- [Related Documentation](#), on page v
- [Obtaining Documentation and Submitting a Service Request](#), on page v

## Document Conventions

This document uses the following conventions:

Convention	Description
<code>^</code> or Ctrl	Both the <code>^</code> symbol and Ctrl represent the Control (Ctrl) key on a keyboard. For example, the key combination <code>^D</code> or <b>Ctrl-D</b> means that you hold down the Control key while you press the D key. (Keys are indicated in capital letters but are not case sensitive.)
<b>bold</b> font	Commands and keywords and user-entered text appear in <b>bold</b> font.
<i>Italic</i> font	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic</i> font.
Courier font	Terminal sessions and information the system displays appear in <code>courier</code> font.
<b>Bold Courier</b> font	<b>Bold Courier</b> font indicates text that the user must enter.
[x]	Elements in square brackets are optional.

Convention	Description
...	An ellipsis (three consecutive nonbolded periods without spaces) after a syntax element indicates that the element can be repeated.
	A vertical line, called a pipe, indicates a choice within a set of keywords or arguments.
[x   y]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
{x   y}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x {y   z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
<>	Nonprinting characters such as passwords are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

### Reader Alert Conventions

This document may use the following conventions for reader alerts:



**Note** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



**Tip** Means *the following information will help you solve a problem*.



**Caution** Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



**Timesaver** Means *the described action saves time*. You can save time by performing the action described in the paragraph.

**Warning****IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

## Related Documentation

### Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.





# CHAPTER 1

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## CHAPTER 2

# Configuring the Switch Using the Web User Interface

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**Note** Any figures included in the document are shown for illustrative purposes only.

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- [Introduction to Day 0 WebUI Configuration, on page 3](#)
- [Cisco DNA Center Cloud Onboarding Day 0 Wizard, on page 4](#)
- [Classic Day 0 Wizard, on page 7](#)

## Introduction to Day 0 WebUI Configuration

After you complete the hardware installation, you need to setup the switch with configuration required to enable traffic to pass through the network. On your first day with your new device, you can perform a number of tasks to ensure that your device is online, reachable and easily configured.

The Web User Interface (Web UI) is an embedded GUI-based device-management tool that provides the ability to provision the device, to simplify device deployment and manageability, and to enhance the user experience. You can use WebUI to build configurations, monitor, and troubleshoot the device without having CLI expertise.

You have two methods to configure the switch using the WebUI.

- [Cisco DNA Center Cloud Onboarding Day 0 Wizard](#)
- [Classic Day 0 Wizard](#)

Figure 1: WebUI Day 0 Wizard

This device is detected as a factory-fresh device. To begin, Click on below cards to create a new user account and launch the setup wizard to bring up the device quickly.

**DNAC Cloud Onboarding Day 0 Wizard**

This wizard would enable you to on-board this device to dnacentercloud.cisco.com. The wizard would give you step by step guidance to configure the management interface and check the cloud reachability. Make sure you have created a Cisco DNA Center Cloud account and added the device before you start the wizard.

**Classic Day 0 Wizard**

This wizard would enable you to configure the Switch with basic and advanced settings like User account, Management Interface IP address, VLAN, STP mode selection etc. Once the wizard is successfully completed, user can access the Switch via WEBUI and command line using the Management Interface IP address provided.

READ THE INSTRUCTIONS BELOW BEFORE YOU BEGIN

- Ensure that you have all the required information from your service provider to complete the configuration.
- By default, the wizard enables some recommended configurations. We recommend that you keep these defaults unless you have a reason to change them.
- This wizard helps you to bring up your WAN/LAN connectivity quickly. You can change the configuration and configure advanced features after the wizard completes successfully.
- As a best practice, when you use WebUI to configure a device, do not delete or modify the configuration directly by logging into the device. Changing the configuration method could lead to errors.

# Cisco DNA Center Cloud Onboarding Day 0 Wizard

Use this wizard to configure the management interface and check if it is reachable through the cloud.



**Note** You must add the device to your Cisco DNA Center Cloud account before proceeding with this wizard.

## Configuring Account Settings

Setting a username and password is the first task you will perform on your device. Typically, as a network administrator, you will want to control access to your device and prevent unauthorized users from seeing your network configuration or manipulating your settings.

**Step 1** Log on using the default username **webui** and password **cisco**.

**Step 2** Set a password of up to 25 alphanumeric characters.

The username password combination you set gives you privilege 15 access. The string cannot start with a number, is case sensitive, and allows spaces but ignores leading spaces.

**Step 3** In the **Device ID Settings** section, type a unique name in the **Device Name** field to identify your device in the network.

**Step 4** Enter the date and time for your device manually in the **Time & Device Mode** field. To synchronize your device with an external timing mechanism such as a Network Time Protocol (NTP) clock source, enter the IP address in the **NTP Server** field.

Figure 2: Account Settings

The screenshot displays the 'Configuration Setup Wizard' interface. At the top, there are four progress indicators: ACCOUNT SETTINGS (active), BASIC SETTINGS, TEST CONNECTIVITY, and SUMMARY. The main content area is divided into two sections: 'Create New Account' and 'Device ID Settings'. The 'Create New Account' section includes fields for 'Login Name\*' (filled with 'testuser'), 'Login User Password\*', and 'Confirm Login User Password\*'. The 'Device ID Settings' section includes fields for 'Device Name\*' (filled with 'testdevice'), 'NTP Server' (filled with 'X.X.X.X'), and 'Date & Time Mode' (a dropdown menu set to 'NTP Time'). On the right side, there is a 'HELP AND TIPS' section with the following text: 'Establish a new Username and Password for the Device. Please remember it for next Login. Establish a new password for the privileged command level. Device name is an identification that is given to the physical hardware device. Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. Enter the IP address of the NTP server. If manual time is set then the difference in time will be adjusted at the time of configuring the device.' At the bottom, there are navigation buttons: '< Welcome Page' on the left and 'Basic Settings >' on the right.

## Configuring Basic Device Settings

On the **Basic Settings** page configure the following information:

- Step 1** In the **Device Management Settings** section, assign an IP address to the management interface using either *Static* or *DHCP* address.
- Step 2** If you chose *Static*, perform the following steps:
- Enter a VLAN ID to associate with the interface in the **Associate VLAN Interface** drop-down list.
  - Ensure that the IP address you assign is part of the subnet mask you enter.
  - Optionally, enter an IP address to specify the default gateway.
  - Enter the address of the DNS Server.

Figure 3: Basic Settings - Static Configuration

The screenshot shows the Cisco Configuration Setup Wizard interface. At the top, there is a progress bar with four steps: ACCOUNT SETTINGS (completed), BASIC SETTINGS (current), TEST CONNECTIVITY, and SUMMARY. Below the progress bar, the "Device Management Settings" section is visible. It includes the following fields and options:

- IP Address:** Radio buttons for  Static and  DHCP.
- VLAN ID\*:** A text input field containing the value "2".
- IP Address\*:** A text input field with a placeholder "x.x.x.x".
- Subnet Mask\*:** A text input field with a placeholder "x.x.x.x".
- Default Gateway (optional):** A text input field with a placeholder "x.x.x.x (optional)".
- Associate VLAN Interface:** A dropdown menu showing "GigabitEthernet1/0/2".
- DNS Server:** A text input field with a placeholder "x.x.x.x".

At the bottom left, there is a button labeled "< Create New Account". At the bottom right, there is a button labeled "Test Connectivity >". On the right side of the page, there is a "HELP AND TIPS" section with the following text:

Select this to enable access to the device using Telnet. Configure a username and password to authenticate user access to the device.

Select this to enable access to the device using Telnet. Configure a username and password to authenticate user access to the device.

Select this to enable secure remote access to the device using Secure Shell (SSH). Configure a username and password to authenticate user access to the device.

Enable transparent mode if you do not want the switch to participate in VTP. A VTP transparent switch does not advertise its VLAN configuration and does not synchronize its VLAN configuration based on received advertisements, but transparent switches do forward VTP advertisements that they receive out their trunk ports in VTP Version 2.

**Step 3** If you chose *DHCP*, perform the following steps:

- Enter a value in the VLAN ID field.  
VLAN ID must be a value other than 1.
- Ensure that the IP address you assign is part of the subnet mask you enter.
- Optionally, enter an IP address to specify the default gateway.
- Enter the address of the DNS Server.

Figure 4: Basic Settings - DHCP Configuration

The screenshot shows the Cisco Configuration Setup Wizard interface, similar to Figure 3, but with the DHCP configuration options selected. The "Device Management Settings" section is visible with the following fields and options:

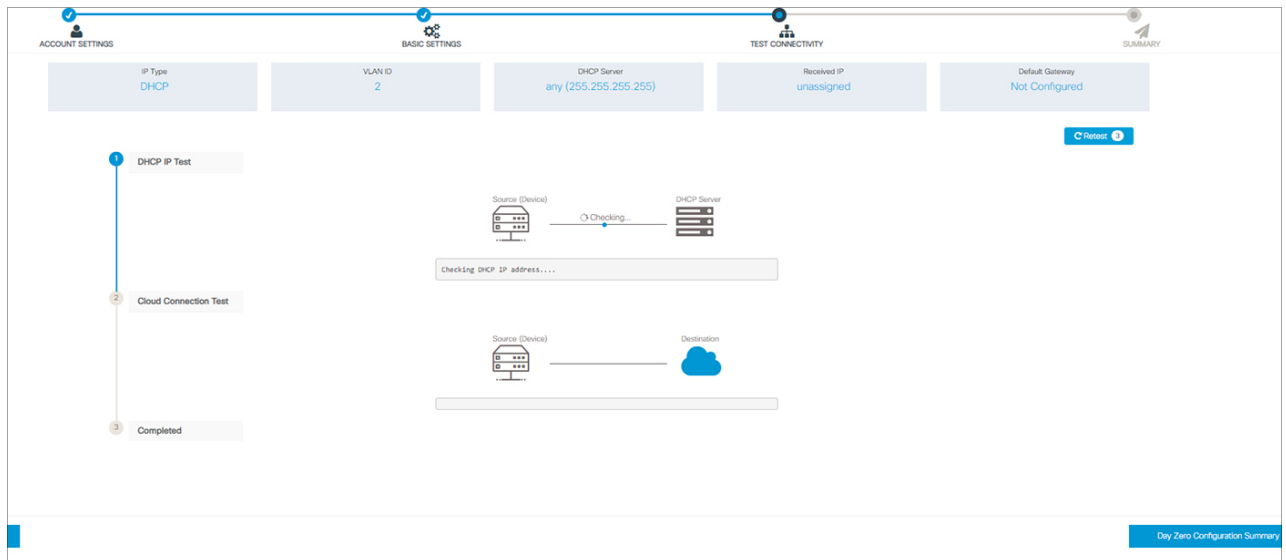
- IP Address:** Radio buttons for  Static and  DHCP.
- VLAN ID\*:** A text input field containing the value "2".
- IP Address\*:** A text input field with a placeholder "x.x.x.x".
- Subnet Mask\*:** A text input field with a placeholder "x.x.x.x".
- Default Gateway (optional):** A text input field with a placeholder "x.x.x.x (optional)".
- DNS Server:** A text input field with a placeholder "x.x.x.x".

The "HELP AND TIPS" section on the right side of the page contains the same text as in Figure 3.

## Configuring Test Connectivity

- Step 1** Use the **Test Connectivity/Retest** button to ensure that connection is established between the device to the Cisco DNAC Cloud.
- Step 2** If connection is not established, click the **Retest** button.  
If connection still fails, go to the previous **Basic Settings** page, make changes to the settings, and test connectivity again.
- Step 3** Once connectivity is established, go to the **Day Zero Configuration Summary** to save the configurations.

Figure 5: Test Connectivity



- Step 4** Verify that the configurations are applied successfully, and the device is redirected to Cisco DNAC Cloud.

### What to do next

If redirection does not succeed, verify if the device is associated with a redirection controller profile on *Cisco PnP Connect (devicehelper)*.

## Classic Day 0 Wizard

Use this wizard to configure the device with basic and advanced settings. Once complete, you can access the device through the WebUI using the management interface IP address.

## Connecting to the Switch

### Before you begin

Set up the DHCP Client Identifier on the client to get the IP address from the switch, and to be able to authenticate with Day 0 login credentials.

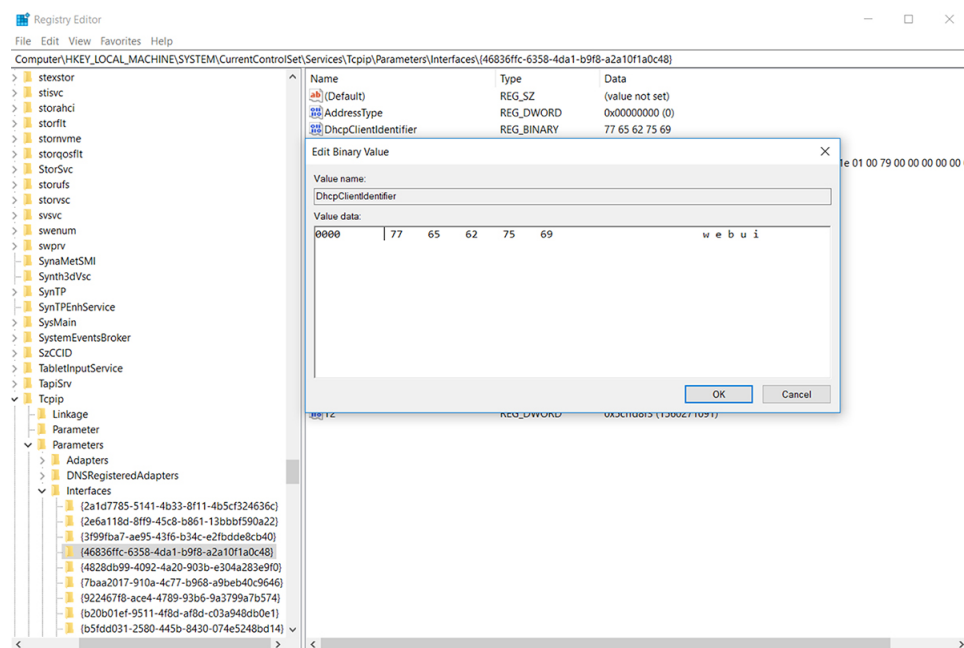
### Setting up the DHCP Client Identifier on the client for Windows

1. Type **regedit** in the Windows search box on the taskbar and press *enter*.
2. If prompted by User Account Control, click **Yes** to open the Registry Editor.
3. Navigate to

**Computer\HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\** and locate the **Ethernet Interface** Global Unique Identifier (GUID).

4. Add a new REG\_BINARY **DhcpClientIdentifier** with Data **77 65 62 75 69** for **webui**. You need to manually type in the value.

**Figure 6: Setting up DHCP Client Identifier on Windows**

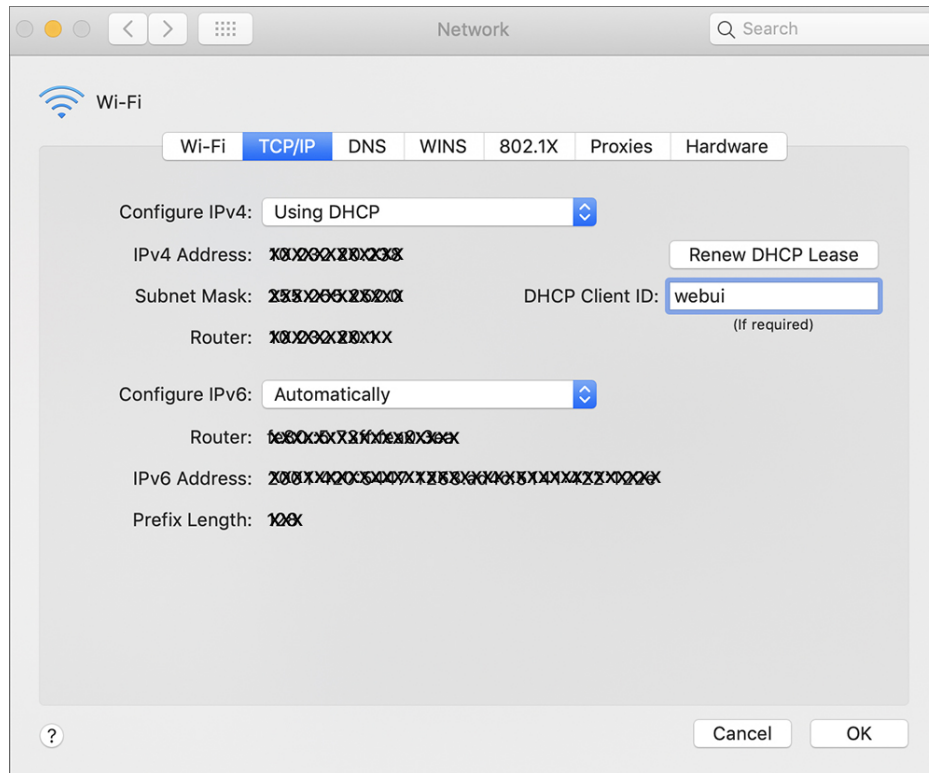


5. Restart the PC for the configuration to take effect.

### Setting up the DHCP Client Identifier on the client for MAC

1. Go to **System Preferences > Network > Advanced > TCP > DHCP Client ID:** and enter **webui**.

Figure 7: Setting up DHCP Client Identifier on MAC

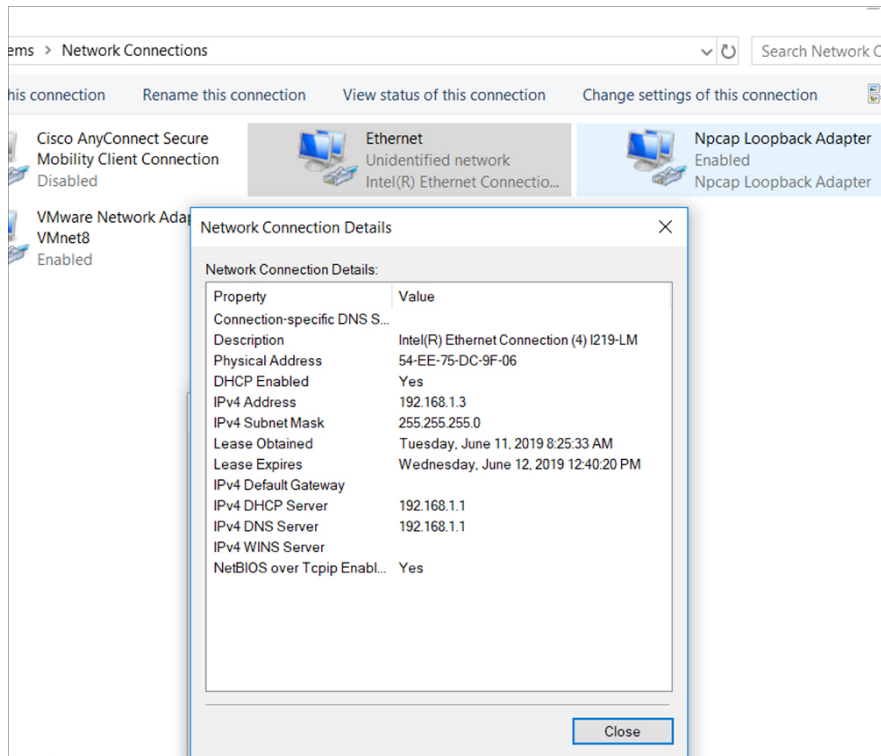


2. Click **OK** to save the changes.

The bootup script runs the configuration wizard, which prompts you for basic configuration input: (**Would you like to enter the initial configuration dialog? [yes/no]:** ). To configure Day 0 settings using the web UI, do not enter a response. Perform the following tasks instead:

- 
- Step 1** Make sure that no devices are connected to the switch.
  - Step 2** Connect one end of an ethernet cable to one of the downlink (non-management) ports on the active supervisor and the other end of the ethernet cable to the host (PC/MAC).
  - Step 3** Set up your PC/MAC as a DHCP client, to obtain the IP address of the switch automatically. You should get an IP address within the 192.168.1.x/24 range.

Figure 8: Obtaining the IP Address



It may take up to three mins. You must complete the Day 0 setup through the web UI before using the device terminal.

**Step 4** Launch a web browser on the PC and enter the device IP address (<https://192.168.1.1>) in the address bar.

**Step 5** Enter the Day 0 username **webui** and password **cisco**.

### What to do next

Create a user account.

## Creating User Accounts

Setting a username and password is the first task you will perform on your device. Typically, as a network administrator, you will want to control access to your device and prevent unauthorized users from seeing your network configuration or manipulating your settings.

**Step 1** Log on using the default username and password provided with the device.

**Step 2** Set a password of up to 25 alphanumeric characters. The username password combination you set gives you privilege 15 access. The string cannot start with a number, is case sensitive, and allows spaces but ignores leading spaces.



Figure 9: Create Account

## Choosing Setup Options

Select **Wired Network** to configure your device based on a site profile, and continue to configure switch wide settings. Otherwise, continue to the next step and configure only basic settings for your device.

## Configuring Basic Device Settings

On the **Basic Device Settings** page configure the following information:

- Step 1** In the **Device ID and Location Settings** section, type a unique name to identify your device in the network.
- Step 2** Choose the date and time settings for your device. To synchronize your device with a valid outside timing mechanism, such as an NTP clock source, choose Automatic, or choose Manual to set it yourself.

Figure 10: Basic Settings - Device ID and Location Settings

**Step 3** In the **Device Management Settings** section, assign an **IP address** to the management interface. Ensure that the IP address you assign is part of the subnet mask you enter.

**Step 4** Optionally, enter an **IP address** to specify the default gateway.

**Step 5** To enable access to the device using telnet, check the **Telnet** check box.

**Step 6** To enable secure remote access to the device using Secure Shell (SSH), check the **SSH** check box.

**Step 7** Check the **VTP transparent mode** check box to disable the device from participating in VTP.

If you did not select **Wired Network**, in the earlier step, continue to the next screen to verify your configuration on the **Day 0 Config Summary** screen, and click **Finish**. To automatically configure your device based on a site profile, click **Setup Options**, and select **Wired Network**.

Figure 11: Basic Settings - Device Management Settings

## Configuring Your Device Based on a Site Profile

To ease your configuration tasks and save time, choose a site profile based on where your device may be installed and managed in your network. Based on the site profile you choose, your device is automatically configured according to Cisco best practices. You can easily modify this default configuration, from the corresponding detailed configuration screens.

Choosing a site profile as part of Quick Setup allows you to configure your device based on the business needs of your enterprise. For example, you could use your device as an access switch, to connect client nodes and endpoints on your network, or as a distribution switch, to route packets between subnets and VLANs.

## Configuring VLAN Settings

- Step 1** In the **VLAN Configuration** section, you can configure both data and voice VLANs. Type a name for your data VLAN.
- Step 2** To configure a data VLAN, ensure that the **Data VLAN** check box is checked, type a name for your VLAN, and assign a VLAN ID to it. If you are creating several VLANs, indicate only a VLAN range.
- Step 3** To configure a voice VLAN, ensure that the **Voice VLAN** check box is checked, type a name for your VLAN, and assign a VLAN ID to it. If you are creating several VLANs, indicate a VLAN range.

## Configure STP Settings

- Step 1** RPVST is the default STP mode configured on your device. You can change it to PVST from the **STP Mode** drop-down list.
- Step 2** To change a bridge priority number from the default value 32748, change **Bridge Priority** to Yes and choose a priority number from the drop-down list.

*Figure 12: VLAN and STP Settings*

The screenshot displays the Cisco Configuration Setup Wizard interface. At the top, a progress bar shows six steps: CREATE ACCOUNT, BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS, and SUMMARY. The current step is SWITCH WIDE SETTINGS, which is divided into three sections: VLAN Configuration, STP Configuration, and General Configuration.

**VLAN Configuration:** Three checkboxes are visible: Data VLAN (unchecked), Voice VLAN (unchecked), and Management Vlan (Switch Wide Settings) (unchecked).

**STP Configuration:** The STP Mode is set to RPVST. The Bridge Priority checkbox is checked, and the Bridge Priority Number is set to 32748.

**General Configuration:** Navigation buttons for '< Site Profile' and 'Port Settings >' are present.

**HELP AND TIPS:** A light blue box on the right contains the following text:
 

- A data VLAN is a VLAN that is configured to carry user-generated traffic. Voice VLAN allows you to enhance VoIP service by configuring ports to carry IPvoice traffic from IP phones on a specific VLAN.
- STP is to prevent bridge loops and the broadcast radiation that results from them. The part of a network address which identifies it as belonging to a particular domain. Configure Syslog Client within the Cisco Device, use a severity level of warnings through emergencies to generate error message about software and hardware malfunctions.
- Protocol for network management and its collecting information from, and configuring, network devices, such as switches, and routers on an IP network.

## Configuring DHCP, NTP, DNS and SNMP Settings

- Step 1** In the **Domain Details** section, enter a domain name that the software uses to complete unqualified hostnames.
- Step 2** Type an IP address to identify the DNS server. This server is used for name and address resolution on your device.
- Step 3** In the **Server Details** section, type the IP address of the DNS server that you want to make available to DHCP clients.
- Step 4** In the **Syslog Server** field, type the IP address of the server to which you want to send syslog messages.
- Step 5** To ensure that your device is configured with the right time, date and timezone, enter the IP address of the NTP server with which you want to synchronize the device time.
- Step 6** In the **Management Details** section, type an IP address to identify the SNMP server. SNMPv1, SNMPv2, and SNMPv3 are supported on your device.
- Step 7** Specify the **SNMP community** string to permit access to the SNMP protocol.

*Figure 13: DHCP, NTP, DNS and SNMP Settings*

The screenshot shows the 'Configuration Setup Wizard' interface. At the top, there is a progress bar with six steps: CREATE ACCOUNT, BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS, and SUMMARY. The 'SITE PROFILE' step is currently active. Below the progress bar, the 'General Configuration' section is displayed. It is divided into three sub-sections: 'Domain Details' with fields for 'Domain Name' and 'DNS Server'; 'Server Details' with fields for 'DHCP Server', 'Syslog Server', and 'NTP Server'; and 'Management Details' which is currently empty. To the right of the configuration fields is a 'HELP AND TIPS' panel with a 'HELP AND TIPS' icon. The panel contains text about data VLANs, STP, and Syslog Client, and a bullet point: '• Protocol for network management and its collecting information from, and configuring, network devices, such as switches, and routers on an IP network.' At the bottom of the wizard, there are two navigation buttons: '< Site Profile' and 'Port Settings >'.

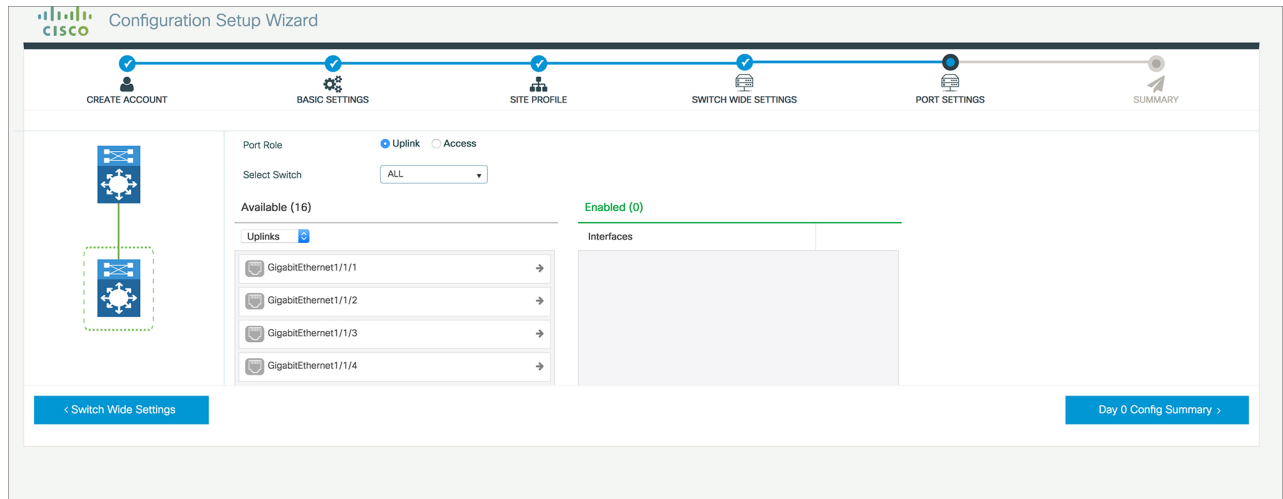
### What to do next

Configure port settings.

## Configuring Port Settings

- Step 1** Based on the site profile chosen in the earlier step which is displayed in the left-pane, select the **Port Role** from among the following options:
- Uplink – For connecting to devices towards the core of the network.
  - Downlink – For connecting to devices further down in the network topology.
  - Access – For connecting guest devices that are VLAN-unaware.
- Step 2** Choose an option from the **Select Switch** drop-down list.
- Step 3** Make selections from the **Available** list of interfaces based on how you want to enable them and move them to the **Enabled** list.

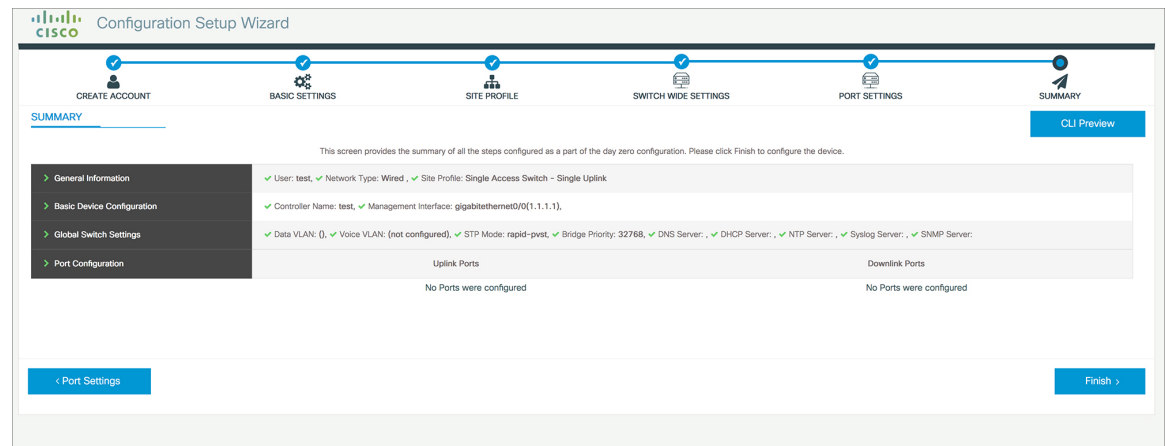
Figure 14: Port Settings



### What to do next

- Click **Day 0 Config Summary** to verify your setup.
- Click **Finish**.

Figure 15: Day 0 Config Summary



## Configuring VTY Lines

For connecting to the device through Telnet or SSH, the Virtual Terminal Lines or Virtual TeleType (VTY) is used. The number of VTY lines is the maximum number of simultaneous access to the device remotely. If the device is not configured with sufficient number of VTY lines, users might face issues with connecting to the WebUI. The default value for VTY Line is . The device allows up to simultaneous sessions.

- Step 1** From the WebUI, navigate through **Administration > Device** and select the **General** page.
- Step 2** In the **VTY Line** field, enter **0-xx**, depending on how many VTY lines you want to configure.

**Figure 16: Configuring VTY Line**

The screenshot displays the Cisco WebUI configuration interface for VTY Lines. The breadcrumb navigation shows 'Administration > Device'. The 'General' tab is selected, and the 'IP Routing' option is disabled. The configuration fields are as follows:

Field	Value
IP Routing	DISABLED
Host Name*	SW-9200
Banner	
Management Interface	GigabitEthernet0/0
IP Address*	
Subnet Mask*	
System MTU(Bytes)	1500
VTY Line	0-30
VTY Transport Mode	Select a value

A link labeled 'View VTY options' is visible next to the VTY Line field.