# cisco.



# Software Configuration Guide, Cisco IOS XE Cupertino 17.9.x (Catalyst 9500 Switches)

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#### **Americas Headquarters**

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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.

- 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
^ or Ctrl	Both the ^ symbol and Ctrl represent the Control (Ctrl) key on a keyboard. For example, the key combination ^D or Ctrl-D 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.
Italic 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 courier font.
Bold Courier font	Bold Courier font indicates text that the user must enter.
[x]	Elements in square brackets are optional.
	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.
$[x \mid y]$	Optional alternative keywords are grouped in brackets and separated by vertical bars.

Convention	Description
{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.

Means the following information will help you solve a problem.

# Ŵ

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

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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

# **Contents**

**BGP EVPN VXLAN** 

Cisco DNA Service for Bonjour Cisco TrustSec High Availability Interface and Hardware Components **IP** Addressing Services **IP Multicast Routing IP** Routing Layer 2 Multiprotocol Label Switching Network Management Programmability Quality of Service Security System Management VLAN

Contents

I



# **Configuring the Switch Using the Web User** Interface



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

- 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

	DNAC Cloud Onboarding Day 0 Wizard		Classic 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.		This wizard would enable you to configure the Switch with basic and advanced settings like User account, Management Interface IP address/UAN_STP mode solection etc. Once the wizard is successfully completed, user can access the Switch via WEBUI and command line using the Management Interface IP address provided.
	NS BELOW BEFORE YOU BEGIN		
Ensure that you	have all the required information from your service provide	er to complete the	configuration.
	wizard enables some recommended configurations. We rec		
them.			
them.	ps you to bring up your WAN/LAN connectivity quickly. You	can change the	configuration and configure advanced features after the
them.		i can change the o	configuration and configure advanced features after the
them. <ul> <li>This wizard hel</li> <li>wizard completes</li> </ul>			

# **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.



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.

#### Procedure

Step 1	Log on using the default username <b>webui</b> and password <b>cisco</b> .
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 <b>Device ID Settings</b> section, type a unique name in the <b>Device Name</b> field to identify your device in the network.
Step 4	Enter the date and time for your device manually in the <b>Time &amp; Device Mode</b> 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 <b>NTP Server</b> field.

#### Figure 2: Account Settings

Configuration Setup Wiz	ard			
	BASIC SETTINGS		SUMMARY	
Create New Account		DEVICE INFO	HELP AND TIPS	-
Login Name*	testuser	Free billing and the second second	ame and Password for the Device.	
Login User Password*		Please remember it fo	r next Login.	
Confirm Login User Password*		Establish a new passw level.	ord for the privileged command	
Device ID Settings		 Device name is an ide physical hardware dev	ntification that is given to the rice.	
Device Name*	testdevice	clock synchronization	I (NTP) is a networking protocol for between computer systems over able-latency data networks. Enter VTP server.	
NTP Server	X.X.X.X		en the difference in time will be f configuring the device.	
Date & Time Mode	NTP Time			- 1
< Welcome Page			Basic Settings	s >

# **Configuring Basic Device Settings**

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

#### Procedure

- **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:
  - a) Enter a VLAN ID to associate with the interface in the Associate VLAN Interface drop-down list.
  - b) Ensure that the IP address you assign is part of the subnet mask you enter.
  - c) Optionally, enter an IP address to specify the default gateway.
  - d) Enter the address of the DNS Server.

ACCOUNT SETTINGS	C C BASIC SETTINGS	SUMMARY
evice Management Settings		HELP AND TIPS
IP Address	Static      DHCP	
VLAN ID*	2	Select this to enable access to the device using Telnet. Configur username and password to authenticate user access to the device
IP Address*	x.x.x.x	Select this to enable access to the device using Telnet. Configur username and password to authenticate user access to the devic
Subnet Mask*	XXXX	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.
Default Gateway (optional)	x.x.x.x (optional)	Enable transparent mode if you do not want the switch to particip
Associate VLAN Interface	GigabitEthernet1/0/2 👻	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
DNS Server	XXXX	forward VTP advertisements that they receive out their trunk por VTP Version 2.

#### Figure 3: Basic Settings - Static Configuration

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

a) Enter a value in the VLAN ID field.

VLAN ID must be a value other than 1.

- b) Ensure that the IP address you assign is part of the subnet mask you enter.
- c) Optionally, enter an IP address to specify the default gateway.
- d) Enter the address of the DNS Server.

#### Figure 4: Basic Settings - DHCP Configuration

Configuration Setu	ıp Wizard		
	BASIC SETTINGS	TEST CONNECTIVITY	SUMMARY
Device Management Settings			HELP AND TIPS
IP Address	Static		
VLAN ID* IP Address* Subnet Mask* Default Gateway (optional) DNS Server	2 XXXX XXXX XXXX (optional) XXXX		Select this to enable access to the device using Teinet. Configure a username and password to authenticate user access to the device. Select this to enable access to the device using Teinet. Configure a username and password to authenticate user access to the device. Select this to enable access the device using Teinet. The device authenticate user access to the device using Secure Shell (SH). Configure a username and password to authenticate user access to the device. Enable transparent model I/sou do not want the switch to participate in VTP. A VTP transparent switch doe not advertise in VLAN configuration and dees not parkennies have configuration based on received advertisements, but transparent switchs do forward VTP advertisements that they receive cut their trank ports in
Create New Account			VTP Version 2.

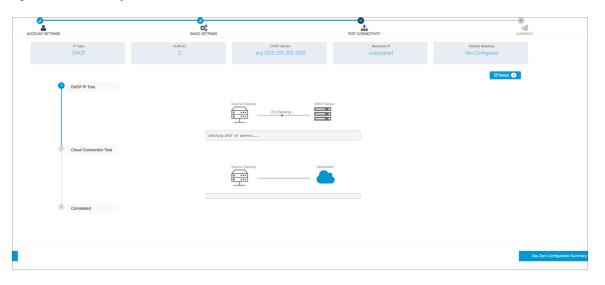
### **Configuring Test Connectivity**

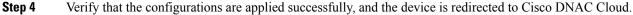
#### Procedure

- **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 3Once connectivity is established, go to the Day Zero Configuration Summary to save the configurations.Figure 5: Test Connectivity





#### 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

📑 Registry Editor				- 🗆 🗙
File Edit View Favorites Help				
Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlS	\Services\Tcpip\Parameters\Interfaces\{46836	ffc-6358-4da1-b9f8-a2a10f1a0c48}		
> stexstor	Name Ty	pe Data		
> stisvc		G_SZ (value not set)		
> 📙 storahci		G_DWORD 0x0000000 (0)		
> 📕 storfit		G_BINARY 77 65 62 75 69		
> 📙 stornvme		0_511VAR1 11 05 02 15 05		
> 📙 storqosfit	Edit Binary Value		×	le 01 00 79 00 00 00 00 00 00 0
> StorSvc	Value name:			
> 📙 storufs	DhcpClientIdentifier			
> storvsc				
> svsvc	Value data:			
> swenum	0000 77 65 62 7	5 69	webui	
> swprv				
- 📙 SynaMetSMI				
- Synth3dVsc				
> SynTP				
SynTPEnhService     SysMain				
SystemEventsBroker     SzCCID				
> TabletInputService				
> TapiSrv				
			OK Cancel	
Linkage	10 12			
- Parameter		<u></u>		
✓ Parameters				
> Adapters				
> DNSRegisteredAdapters				
✓ Interfaces				
2a1d7785-5141-4b33-8f11-4b5cf324636c				
-] {2e6a118d-8ff9-45c8-b861-13bbbf590a22}				
-] {3f99fba7-ae95-43f6-b34c-e2fbdde8cb40}				
-] {46836ffc-6358-4da1-b9f8-a2a10f1a0c48}				
- 4828db99-4092-4a20-903b-e304a283e9f0}				
-1 {7baa2017-910a-4c77-b968-a9beb40c9646}				
- 4922467f8-ace4-4789-93b6-9a3799a7b574				
-] {b20b01ef-9511-4f8d-af8d-c03a948db0e1}				
- [ {b5fdd031-2580-445b-8430-074e5248bd14} ·				
< >	<			>

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.

L

	$\langle \rangle$ :				Netw	ork		Q Search
	Vi-Fi							
· • · · ·	Wi-Fi			DNS	WINS	802.1X	Proxies	Hardware
	VVI-F	1	ICP/IP	DNS	WINS	802.1X	Proxies	Hardware
	Configure IF	Pv4:	Using D	OHCP			0	
	IPv4 Addre	ess:	X8X.X2X3X2X	210XXX38				Renew DHCP Lease
	Subnet Ma	ask:	2222/00	<b>XXXXXX</b>		DHCP	Client ID:	webui
	Rou	iter:	X8X2032X	<b>210XX</b> X				(If required)
	Configure IF		Automa	tically			0	
							~	
			5e80x35x					
	IPv6 Addre	ess:	2008726	2003542477	XXXBBBXX	XXXBXXXXX	K <u>XXXXXXX</u> XX	
	Prefix Len	gth:	1/2/ <del>/</del> /					
								Cancel OK
?								Cancel OK

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:

#### Procedure

**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

ems > Network Connectio	ins			~ Ū	Search Network C
his connection Rename	e this connection View st	atus of this connection	Change settings	of this	connection
Cisco AnyConnect Secu Mobility Client Connec Disabled	tion 🦰 🛼 Unio	e <b>rnet</b> dentified network I(R) Ethernet Connectio	<b>N</b>	Enable	Loopback Adapter d Loopback Adapter
VMware Network Ada VMnet8 Enabled	Network Connection Details		×		
	Property Connection-specific DNS S Description Physical Address DHCP Enabled IPv4 Address IPv4 Address IPv4 Subnet Mask Lease Obtained Lease Expires IPv4 Default Gateway IPv4 DHCP Server IPv4 DHS Server IPv4 WINS Server NetBIOS over Tcpip Enabl	Value Intel(R) Ethernet Connection 54-EE-76-DC-9F-06 Yes 192 168.1.3 255 255 255.0 Tuesday, June 11, 2019 8.22 Wednesday, June 12, 2019 192 168.1.1 192 168.1.1 Yes	5:33 AM		

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.

```
Procedure
```

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

L

**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.

	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
te New Account				Hardware and Software	details of the device.
in Name				Platform Type:	
sword				IOS Installed:	
firm password					
				Serial Number:	
				Modules:	
				License Installed:	
		Create New Account			Basic Device Settings

#### 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:

#### Procedure

- **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 1	10: Basic	Settings -	Device ID	and L	ocation	Settings
----------	-----------	------------	-----------	-------	---------	----------

Configuration Se	tup Wizard				
CREATE ACCOUNT	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
Device ID and Location Settings				HELP A	ND TIPS
Device Name			① Device name is mandatory		
Date & Time Mode	Automatic	•		device name is an identification that is g	ven to the physical hardware device.
				If manual time is set then the difference configuring the device.	n time will be adjusted at the time of
Device Management Settings	Mon Aug 13 2018 14:18:06			The management VRF is a dedicated, se manage the router inband on switched v interfaces.	
Management Interface	gigabitethernet0/0			Select this to enable access to the devic password to authenticate user access to	e using Telnet. Configure a username and the device.
Management IP	x.x.x.x			Select this to enable secure remote acc Configure a username and password to	ass to the device using Secure Shell (SSH). authenticate user access to the device.
Subnet Mask	x.x.x.x			transparent switch does not advertise its	
Default Gateway (optional)	x.x.x.x (optional)			synchronize its VLAN configuration base transparent switches do forward VTP ad	d on received advertisements, but vertisements that they receive out their trunk
< Setup Options					Site Profile >

- **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

CREATE ACCOUNT	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
	Mon Aug 13 2018 14:18:37			😧 HELP A	ND TIPS
vice Management Settings					
anagement Interface	gigabitethernet0/0			device name is an identification that is gi If manual time is set then the difference i	
anagement IP	x.x.x.x			configuring the device.	
ubnet Mask	X.X.X.X			The management VRF is a dedicated, se manage the router inband on switched v interfaces.	
efault Gateway (optional)	x.x.x.x (optional)			Select this to enable access to the devic password to authenticate user access to	
linet				Select this to enable secure remote acce Configure a username and password to a	
н				Enable transparent mode if you do not w transparent switch does not advertise its	
P transparent mode				synchronize its VLAN configuration base transparent switches do forward VTP ad	d on received advertisements, but
< Setup Options					Site Profile :

# **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**

#### Procedure

Step 1	In the <b>VLAN Configuration</b> 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 <b>Data VLAN</b> 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 <b>Voice VLAN</b> 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**

#### Procedure

- **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

		-
CREATE ACCOUNT BASIC SETTINGS SITE PROFILE SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
VLAN Configuration	HELP AND TIPS	
Valce VLAN       Management VEnton Web Setting:       STP Configuration       STP Mode       Bridge Priority	<ul> <li>A data VLAN is a VLAN that is configured generated traffic. Voice VLAN allows you service by configuring ports to carry IPvo phones on a specific VLAN.</li> <li>STP is to prevent bridge loops and the tradition The part of a network address which identifies it as belong Configure Systep Client within the Claco Device, use a ser- intradja emergeneiras to generate emr reassas about soft mathematics.</li> </ul>	to enhance VoIP ice traffic from IP that results from them. Ing to a particular domain. wity level of warnings tware and hardware aston from, and configuring,
Bridge Priority Number 32768	network devices, such as switches, and routers on an IP ne	twork.
Ceneral Configuration Configuration		Port Settings >

### **Configuring DHCP, NTP, DNS and SNMP Settings**

#### Procedure

- **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

CREATE ACCOUNT	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
General Configuration				O HELP A	ND TIPS
Iomain Details					
Domain Name					t to carry user-generated traffic.Voice VLAN onfiguring ports to carry IPvoice traffic from
DNS Server				STP is to prevent bridge loops and the b	roadcast radiation that results from them.
erver Details					ntifies it as belonging to a particular domain
DHCP Server				Configure Syslog Client within the Cisco through emergencies to generate error r malfunctions.	
Syslog Server				<ul> <li>Protocol for network manag</li> </ul>	
NTP Server				information from, and config as switches, and routers on	uring, network devices, such an IP network.
Management Details					
< Site Profile					Port Settings >
< Site Profile					Port Settings >

#### What to do next

Configure port settings.

### **Configuring Port Settings**

#### Procedure

**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

CREATE ACCOUNT	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY
	Port Role O Uplink C Select Switch ALL	Access			
1. S	Available (16)	Enabled (	))		
	Uplinks 😒	Interfaces			
	GigabitEthernet1/1/1	÷			
-∰-	GigabitEthernet1/1/2	÷			
()	GigabitEthernet1/1/3	>			
	GigabitEthernet1/1/4	>			
witch Wide Settings					Day 0 Config Summar

#### What to do next

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

Figure 15: Day 0 Config Summary

Configuration Set	tup Wizard					
CREATE ACCOUNT	BASIC SETTINGS	SITE PROFILE	SWITCH WIDE SETTINGS	PORT SETTINGS	SUMMARY	
SUMMARY					CLI Preview	
	This screen provides	the summary of all the steps configured as a pa	rt of the day zero configuration. Please click Finish to confi	gure the device.		
> General Information	✓ User: test, ✓ Network Type: Wire	✓ User: test, ✓ Network Type: Wired , ✓ Site Profile: Single Access Switch - Single Uplink				
> Basic Device Configuration	✓ Controller Name: test, ✓ Manager	✓ Controller Name: test, ✓ Management Interface: glgabitethernet0/0(1.1.1.1),				
> Global Switch Settings	✓ Data VLAN: (), ✓ Voice VLAN: (no	✓ Data VLAN: (), ✓ Voice VLAN: (not configured), ✓ STP Mode: rapid-pvst, ✓ Bridge Priority: 32768, ✓ DNS Server:, ✓ DHCP Server:, ✓ NTP Server:, ✓ Syslog Server:, ✓ Syslog Server:, ✓ SNMP Server:				
> Port Configuration	Uplink Ports Downlink Ports					
		No Ports were configured		No Ports were configured		
< Port Settings					Finish >	

## **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.

#### Procedure

- **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

Q Search Menu Items	Administration * > Device		
Dashboard	General	IP Routing	DISABLED
Monitoring >	FTP/SFTP/TFTP	Host Name*	SW-9200
Configuration >	Bluetooth	Banner	
(O) Administration			
C Licensing		Management Interface	GigabitEthernet0/0
		IP Address* <b>1</b>	
Croubleshooting		Subnet Mask*	
		System MTU(Bytes) 6	1500
		VTY Line <b>0</b>	0-30 ©View VTY options
		VTY Transport Mode	Select a value 🔹