

Configuring the Web GUI

The web-based GUI is used to configure the Cisco Edge 300 series switch and monitor the status locally or remotely. The implementation of the web GUI configuration causes no conflict between the Smart Install configuration and local configuration.

In an Smart Install (SMI) environment, the web GUI only monitors the configuration status. The configurations are retrieved from the running-config file of SMI. In a non-SMI environment, you can configure and monitor the Cisco Edge 300 through the web GUI. The web GUI then generates a Clish configuration file for the local Clish to execute. The local Clish records the configurations that have been done and provides feedback to the web GUI.

To configure the Cisco Edge 300 series switch using the web-based GUI, follow these steps:

- Login, page 5-2
- Welcome, page 5-3
- Basic Configuration, page 5-3
- WiFi AP Configuration, page 5-8
- VLAN Configuration, page 5-9
- Ethernet Configuration, page 5-10
- Monitoring the Status, page 5-10

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Login

You can access the web-based GUI at **https://**[*Cisco Edge 300's IP address*] and log in to the web portal locally or remotely by entering the password of **root**.

 Blank Page - Windows Internet Explorer

 Image: Search Google

 Image: Search Goo

Figure 5-1 Login Page

Choose the **Remember password** option so that the next time you visit the website, you can directly enter the relevant page.

Note

If you access the web GUI by Internet Explorer and enable the remember password function, make sure that the date and time on the Cisco Edge 300 series switch is correct. The stored cookies are used for future authentication. If the date and time of Cisco Edge 300 is not correct, the authentication fails and the remember password function does not take effect.

Welcome



After you log in to the web GUI, you will see the Welcome page.

Figure 5-2 Welcome Page

The Welcome page shows the brief introduction of the Cisco Edge 300 Series switches and their features and capabilities.

Basic Configuration

In the Basic tab, you can configure the basic information of Cisco Edge 300 series switch, import and export a configuration file, and configure IP addresses. The Basic tab consists of the following three sections:

- Basic Information
- Importing and Exporting a Configuration File
- IP Configuration

Basic Information

You can configure host name, login GUI, resolution, WiFi mode, bluetooth, language, timezone, NTP server, and log size in the basic information section.

Figure 5-3 Basic Information Configuration

Welcome Basic	Wifi	Vlan	Ethernet	Status
Enter Basic Infor	mation			
Basic Information				
Hostname:	intel_ce_lin	ux		
Login GUI:	ON		-	
Resolution:	1024 x 768	3p60	-	
Wifi mode:	AP Mode	Switch	to Client Mode	
Bluetooth:	ON		-	
Language:	English		-	
Timezone:	Asia/Shan	ghai	-	
NTP Server:				
Log Size:	10 MB		-	

When the Cisco Edge 300 series switch is in WiFi AP mode, click the **Switch to Client Mode** button to switch to WiFi client mode. If it is in the WiFi client mode, click the **Switch to AP mode** button to switch to the AP mode.

The language options in the language drop-down list are associated with the following values of the **language support** Clish command:

- 1=en_US.utf8, English (US)
- 3=es_MX.utf8, Spanish (Mexico)
- 4=zh_CN.utf8, Simplified Chinese
- 6=zh_TW.utf8, Traditional Chinese (TW)
- 7=pt_PT.utf, Portuguese (PT)
- 9=th_TH.utf8, Thai

When the modifications for resolution, hostname or language are applied, or a configuration file is imported, the switch needs to be rebooted. An indication in red will appear next to the item that you have changed, as shown in Figure 5-4.

Welcome Basic	Wifi	Vlan Eti	hernet	Status	
Enter Basic Infor	mation				
Basic Information					
Hostname:	intel_ce_linu>	τ			
Login GUI:	ON		•		
Resolution:	720p		•	CE300 requires reboot to change it	
Wifi mode:	AP Mode	Switch to Cli	ent Mode		
Bluetooth:	ON		•		
Language:	English		•		
Timezone:	Asia/Shangh	ai	•		
NTP Server:					
Log Size:	10 MB		•		0
					0100

Figure 5-4 Reboot Indication of Basic Information Changes

Although timezone settings will take effect immediately, some applications or services may need to be restarted to reload the new timezone (for example, the rsyslog service). You are recommended to reboot the system after changing the timezone.

When you click the **Apply** button on the bottom right of the Basic tab, a prompt window is displayed so that you can choose if you want to reboot the switch right now.

For other fields, clicking the **Apply** button applies the changes to the switch directly. A prompt message of "Changes apply successfully" is displayed to confirm the changes.



Clicking **Restore** resets all the fields on the Basic tab to factory default values.

Importing and Exporting a Configuration File

There are three types of configuration files on the Cisco Edge 300 series switch:

- Startup config—Local configurations of the Cisco Edge 300 series switch stored in /etc/startup-config.
- Mode file—The file used to mark whether the startup config is local or smartinstall, and whether the WiFi mode is ap or client.
- WiFi client network configuration—Stored in /etc/wpa_supplicant.

You can import or export a configuration file for the Cisco Edge 300 series switch in the Basic tab.

Figure 5-5	Import and Export	
Import/Export:	overall ∩ wifi-network-only ∩ startup-config	
Import Path:		
Export Type: Export Path:	overall wint-network-contry statup-contrig Export	89 90 10 10 10 10 10 10 10 10 10 10 10 10 10

Importing a Configuration File

You can import a configuration file from either the USB storage or a local directory. If you choose to import a configuration file from the USB storage, the configuration is automatically detected, mounted, and imported from the external USB storage.

Note

An imported startup config or overall configuration needs a reboot to take effect. An imported wifi client network configuration will take effect immediately if the Cisco Edge 300 series switch is in wifi client mode.

To import a configuration file, follow these steps:

Step 1 Choose one of the following import types:

- overall—Copies all the three configuration files together.
- wifi-network-only—Copies the startup config and WiFi client network configuration.
- startup-config—Copies the mode file and startup config local together.
- **Step 2** Enter the path of the configuration file in the Import Path field.
- **Step 3** Click **Import** to import the configuration file.

Note

If you click the **Import** button while the Import Path is empty, a warning message is displayed.

Exporting a Configuration File

You can export a configuration file to either the USB storage or a local directory. If you choose to export a configuration file to the USB storage, the configuration is automatically detected, mounted, and exported to the external USB storage.

To export a configuration file, follow these steps:

Step 1 Choose one of the following export types:

- overall—Copies all the three configuration files together.
- wifi-network-only—Copies the startup config and WiFi client network configuration.

- startup-config—Copies the mode file and startup config local together.
- **Step 2** Enter the destination that you want to export the configuration file in the **Export Path** field.
- **Step 3** Click the **Export** button to export the configuration file.



If you click the **Export** button while the **Export Path** field is empty, a warning message is displayed.

IP Configuration

You can choose DHCP or static mode in the IP Configuration section of the Basic tab. By default, the Cisco Edge300 series switch uses DHCP to obtain IP address.

Figure 5-6 IP Configuration

IPv4 connection type:	DHCP			
IPv4 address:	10.140.28.58			
IPv4 netmask:	255.255.255.0			
IPv4 default gateway:	10.140.28.1			
DNS Server:	64.104.123.144			



If you choose DHCP as the IPv4 connection type, the IPv4 address, IPv4 netmask, and IPv4 default gateway fields are disabled and greyed out. Only the DNS server can be configured for DHCP mode.

Configuring Static IP Address

To configure the static IP address, follow these steps:

 Step 1
 From the IPv4 connection type drop-down list, choose Static.

 Step 2
 Enter IPv4 address, IPv4 netmask, and IPv4 default gateway.

 Note
 A warning message is displayed if the value entered is invalid.

 Step 3
 Enter DNS server information.

 Step 4
 Click Apply to apply the changes.

 Note
 Clicking Restore resets all the fields in the Basic tab to factory default values.



If you change the IP address of Cisco Edge 300 series switch by using the web GUI, you need to enter the new IP address in the address box of the browser. Otherwise, the configuration and monitoring feature will be unavailable because the original IP address no longer exists.

WiFi AP Configuration

You can configure SSID name, radio, broadcast SSID, wireless mode, channel number, channel allocation, channel bandwidth, transmit power, MCS, Multicast-MCS, IGMP snoop, and security in the WiFi tab.



The Wifi AP configuration can only be visible when the Cisco Edge 300 series switch is in AP mode.

Figure 5-7 shows the WiFi tab.

D: CISCO_EDGE lio: ON OFF adcast SSID: ON OFF adcast MCS: Z V); 0'	CISCO_EDGE			
lio: ON OFF adcast SSID: ON OFF eless mode: 802.11b/g/n v innel number: 6 v innel cation: China v innel dwidth: 20/40 v issmit power: 100 v is: 33 v	n [.]				
adcast SSID: ON OFF eless mode: 802.11b/g/n • innel number: 6 • cation: China • dwidth: 20/40 • insmit power: 100 • S: 33 •		O ON	OFF		
eless mode: 802.11b/g/n • innel number: 6 • innel China • innel 20/40 • ismit power: 100 • 3: 33 • icast MCS: 2 •	dcast SSID:	ON	OFF		
nnel number; 6 v innel China v innel 20/40 v insmit power: 100 v i: 33 v iicast MCS: 2 v	less mode:	802.11b/g/n	-		
Immel China cation: v inmel 20/40 asmit power: 100 3: 33 vitast MCS: 2	nnel number:	6	-		
Immel 20/40 dwidth: 100 1smit power: 33 icast MCS: 2	nnel ation:	China	•		
1500 • 33 • icast MCS: 2	nnel Iwidth:	20/40	•		
5: 33 V licast MCS: 2 V	smit power:	100	•		
iicast MCS: 2	:	33	-		
	cast MCS:	2			
P snoop: 🔿 ON 🔍 OFF	snoop:	O ON	OFF		
ryption mode: wpa2psk v ryption type: tkipaes v	urity yption mode: yption type:	wpa2psk tkipaes	•		
		CISCO123			

Figure 5-7 WiFi AP Configuration

VLAN Configuration

You can click the gear icon on the right of the Vlan column to add or remove VLANs. You can also choose a port type of Gi1, fe1, fe2, fe3, and fe4 in the Mode field. When the port type is trunk, you can choose a native VLAN in the select list on the right of the table.

Figure 5-8 shows the Vlan tab.

an man	ademen						
	otagged chu	vlan in di1					
Securi	ty Managen	nent					
Interfa	ice	Mode			Vlan	-	Native vlan
Gi1		Access 🗸			1		
Fa1		Access 👻			@ 1		
Fa2		Access 🗸]		@ 1		
Fa3		Access 💌			1		
Fa4		Access 🗸]		1		
CPU	J				9 1		
Wifi					@ 1		

It is recommended that you keep **Use untagged cpu vlan in gi1** checked, otherwise, the system may lose network connection due to wrong configuration.

Note

When the Cisco Edge 300 series switch is in Wifi client mode, CPU and Wifi interface are invisible.

Cisco Edge 300 Series Switch Software Configuration Guide, Release 1.6

Ethernet Configuration

You can configure the status (for downlink), output-queue-strategy, pause (for downlink), priority, rate-limit, speed, duplex, enable, and disable in the Ethernet tab.

Figure 5-9 Ethernet Configuration

Velcome Basic	Wifi Vian Ethe	rnet Status
ithernet		
EInterface Gi1	Enabled	
Status:	Enabled	
Output-queue-strategy:	wrr	•
Pause:	O ON	OFF
Priority:	Normal	•
Rate-limit	None	•
Speed:	auto	•
Duplex:	auto	•
EInterface Fe1	Enabled	
CInterface Fe2	Enabled	
CInterface Fe3	Enabled	
Interface Fe4	Enabled	

Monitoring the Status

You can monitor the status of system, version, network, WiFi, Ethernet port, other devices, logs, system status, and Ethernet/Wifi/Bluetooth/USB status in the Status tab. (See Figure 5-10, Figure 5-11, and Figure 5-12.)

'elcome Basic	Wifi Vlan	Ethernet Status		
tatus				
System				
Hostname:	ntel_ce_linux	Bluetooth:	On	
Login Gui:	On	NTP server:		
CPU:	Detail	Memory:	Detail	
Disk Usage:	Detail	Wifi Mode:	AP Mode	
HDMI information:	Detail			
Version Informatio	n			
OS version:	1.4.4.1	Factory mode OS v	rsion: 1.4.3.2	
Cisco software vers	ion:	Partner software ve	sion: 1.4.3.2	
Network				
IP mode:	dhop	Mac address:	1C:AA:07:97:A3:C0	
IPv4 address:	10.140.28.58	Broadcast:	255.255.255.255	
Netmask:	255.255.255.0	Gateway:	10.140.28.1	
DNS server:	64.104.123.144			

Figure 5-10 Monitoring the Status–System, Version Information, and Network

Mifi							
Status:	Off		SSID:	CISCO_EDGE			
Channel:	6		Mode:	9			
Encryption:	wpa2psk		Key:	Cisco123			
Access device:							
Ethernet Port							
Port Number	Status	Speed	Duplex	Port Statistics	Qos	MAC address learned	
Gi1	Connected	100Mbps	Full duplex	Detail	Detail	Detail	
Fe1			Not connected				
Fe2			Not connected				
Fe3			Not connected				
Fe4			Not connected				
Other devices							
Device	Mount Point	Туре					

Figure 5-11 Monitoring the Status–Wifi, Ethernet Port, and Other Devices

Figure 5-12 Monitoring the Status–Logs

Logs				
User log:	Detail	Daemon process log:	Detail	
Security log:	Detail	Operation log:	Detail	
Program log:	Detail			
Log archives:	Remove			