



Configuring the Cisco VG310 and Cisco VG320 Voice Gateways

This chapter describes how to power up the Cisco VG310 and Cisco VG320 and perform the initial configuration in the following sections:

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Getting Your Network Information

Before you begin the configuration process, get the IP address for the 10/100/1000BASE-T ports.

Checklist for Power Up

Check the following items before powering up Cisco VG310 or Cisco VG320:

- Chassis is securely mounted and grounded.
- Power and interface cables are connected.
- The external CompactFlash memory card is properly seated into its slot.
- PC with terminal-emulation program (HyperTerminal or equivalent) is connected to the console port and configured for 9600 baud, 8 data bits, 1 stop bit, no parity, and flow control is set to **None**.
- Suitable PC COM port is selected in the terminal-emulation program.
- Passwords for access control are selected.
- IP addresses for the Ethernet and serial interfaces have been determined.

Power-On Procedure

Before you begin

Perform this procedure to power on your voice gateway and verify that it goes through its initialization and self-test. When this is finished, the voice gateway is ready to configure.

Procedure

Step 1 Power on your terminal or PC, and configure it for 9600 bps, 8 data bits, 1 stop bit, and no parity.

Step 2 Move the voice gateway power switch to the ON position.

- The SYS LED on the back panel of the chassis begins blinking green.
- The fan begins to operate.
- Startup messages appear in your Console window. When the startup messages finish, the SYS LED appears solid green.

Caution It takes a few minutes for the messages to stop. Do not press any keys on the keyboard until the messages stop and the SYS LED is solid green. Any keys pressed during this time are interpreted as the first command typed when the messages stop, which might cause the voice gateway to power off and start over.

Step 3 Use any of the following tools to perform the initial configuration:

- The Setup Command Facility—This enables you configure the initial settings for the voice gateway using a configuration dialog. If you see the following messages, it indicates that the gateway has booted and is ready for initial configuration using the **setup** command facility:

```
--- System Configuration Dialog ---
```

```
At any point you may enter a question mark '?' for help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.
Would you like to enter the initial configuration dialog? [yes/no]:
```

For information about using the CLI to configure the voice gateway, see [Performing the Initial Configuration on the Voice Gateway](#).

- Cisco Configuration Professional Express—See [Using Cisco Configuration Professional Express](#).
- Cisco CLI—This enables you to configure the initial settings for the voice gateway manually. If you see the following messages, it indicates that the gateway has booted and is ready for initial configuration using the CLI:

```
--- System Configuration Dialog ---
```

```
At any point you may enter a question mark '?' for help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.
Would you like to enter the initial configuration dialog? [yes/no]:
```

For information about using the CLI to configure the gateway, see [Using Cisco IOS CLI—Manual Configuration](#).

If the `rommon 1>` prompt is displayed, your system has booted in ROMmon mode. For information on the ROMmon, see the section on using the ROMmon in the *Cisco VG350, Cisco VG310 and Cisco 320 Voice Gateway Software Administration and Configuration Guide* at Cisco.com.

Performing the Initial Configuration on the Voice Gateway

Use the following tools to perform the initial configuration on the voice gateway:

- [Using the setup Command Facility, on page 3](#)
- [Using Cisco Configuration Professional Express, on page 6](#)
- [Using Cisco IOS CLI—Manual Configuration, on page 6](#)

Using the setup Command Facility

Before you begin

The **setup** command facility prompts you to enter the information that is needed to configure Cisco VG310 or Cisco VG320 quickly. The facility steps you through a initial configuration, including LAN and WAN interfaces. For more general information about the **4719407618** command facility, see the chapter *Configuration Using Setup and Autoinstall in the Cisco IOS Configuration Fundamentals Configuration Guide, Release 12.4*, at [Configuration Fundamentals Configuration Guide, Cisco IOS Release 15.0S](#).

This section explains how to configure a hostname for the voice gateway, set passwords, and configure an interface for communication with the management network.



Note If you make a mistake while using the **setup** command facility, you can exit and run the **setup** command facility again. Press **Ctrl-C**, and enter the **setup** command in privileged EXEC mode (`Router#`).

Procedure

Step 1 From the Cisco IOS CLI, enter the **setup** command in privileged EXEC mode:

```
Router> enable
Password: <password>
Router# setup
```

```
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]:
```

You are now in the Setup Configuration Utility.

Step 2 To proceed using the setup command facility, enter *yes*.

The following message is displayed:

Continue with configuration dialog? [yes/no]:

At any point you may enter a question mark '?' for help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.

Step 3 To continue with the configuration, enter *yes*.

The following message is displayed:

Would you like to enter basic management setup? [yes/no]:

Note Basic management setup configures the minimum settings required for connectivity.

Step 4 Enter *yes* to continue.

The following message is displayed:

Configuring global parameters:
Enter host name [Router]:

Step 5 Enter a hostname for the voice gateway.

The following message is displayed:

The enable secret is a password used to protect access to privileged EXEC and configuration modes. This password, after entered, becomes encrypted in the configuration.
Enter enable secret:

Step 6 Enter an *enable secret password*. This password is encrypted and cannot be seen when viewing the configuration.

The following message is displayed:

The enable password is used when you do not specify an enable secret password, with some older software versions, and some boot images.
Enter enable password:

Step 7 Enter an *enable password* that is different from the *enable secret password*. This password is not encrypted (and is less secure) and can be seen when viewing the configuration.

The following message is displayed:

The virtual terminal password is used to protect access to the router over a network interface.
Enter virtual terminal password:

Step 8 Enter the *virtual terminal password* and press **Enter**. The virtual terminal password prevents unauthenticated access to the gateway through ports other than the console port. The following message is displayed:

Configure SNMP Network Management? [no]:
Community string [public]:

Step 9 Enter *yes*.

A summary of the available interfaces is displayed, as shown in the following example:

Current interface summary

| Interface | IP-Address | OK? | Method | Status | Protocol |
|--------------------|-------------|-----|--------|-----------------------|----------|
| GigabitEthernet0/0 | unassigned | YES | NVRAM | administratively down | down |
| GigabitEthernet0/1 | 10.10.10.12 | YES | DHCP | up | up |

Any interface listed with OK? value "NO" does not have a valid configuration

Step 10 Select one of the available interfaces to connect the voice gateway to the management network. In the following example, **gigabitethernet0/1** is selected:

Enter interface name used to connect to the management network from the above interface summary: gigabitethernet0/1

Step 11 Respond to the following prompts as appropriate for your network:

```
Configuring interface GigabitEthernet0/1:
  Configure IP on this interface? [yes]: yes
  IP address for this interface [10.10.10.12]:
  Subnet mask for this interface [255.0.0.0] : 255.255.255.0
  Class A network is 10.0.0.0, 24 subnet bits; mask is /24
```

The configuration command script is created.

```
hostname myrouter
enable secret 5 $1$t/Dj$yAeGKviLLZNOBX0b9eif00 enable password cisco123 line vty 0 4
password cisco snmp-server community public !
no ip routing

!
interface GigabitEthernet0/0
shutdown
no ip address
!
interface GigabitEthernet0/1
no shutdown
ip address 10.10.10.12 255.255.255.0
!
end
```

Step 12 Respond to the following prompts. Enter 2 to save the initial configuration:

```
[0] Go to the IOS command prompt without saving this config.
[1] Return back to the setup without saving this config.
[2] Save this configuration to nvram and exit.
Enter your selection [2]: 2
Building configuration...
Use the enabled mode 'configure' command to modify this configuration.
Press RETURN to get started! RETURN
```

The user prompt is displayed:

```
myrouter>
```

The facility prompts you to save the configuration.

- If you answer *no*, the configuration information you entered is not saved, and you return to the voice gateway enable prompt (Router#). Enter **setup** to return to the System Configuration dialog box.
- If you answer *yes*, the configuration is saved, and you are returned to the user EXEC prompt (Router>).

Step 13 To save the configuration, enter *yes*. The following message is displayed:

```
Use this configuration? {yes/no} : yes

Building configuration...
Use the enabled mode 'configure' command to modify this configuration.

Press RETURN to get started!

%LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up
%LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up
```

```
%LINK-3-UPDOWN: Interface Serial0/0/0, changed state to up
%LINK-3-UPDOWN: Interface Serial0/0/1, changed state to down
%LINK-3-UPDOWN: Interface Serial0/2, changed state to down
%LINK-3-UPDOWN: Interface Serial1/0, changed state to up
%LINK-3-UPDOWN: Interface Serial1/1, changed state to down
%LINK-3-UPDOWN: Interface Serial1/2, changed state to down
```

<Additional messages omitted.>

Step 14

When the messages stop appearing on your screen, press **Return** to get the `Router>` prompt.

The `Router>` prompt indicates that you are now at the CLI and you have just completed the initial configuration.

At this stage, you have the following two options:

- Run the **setup** command facility again, and create another configuration:

```
Router> enable
Password: password
Router# setup
```

- Modify the existing configuration or configure additional features by using the CLI:

```
Router> enable
Password: password
Router# configure terminal
Router(config)#
```

Using Cisco Configuration Professional Express

Use Cisco Configuration Professional Express web-based application to configure the initial router settings. For detailed instructions, see the *Cisco Configuration Professional Express User Guide* at:

http://www.cisco.com/c/en/us/td/docs/net_mgmt/cisco_configuration_professional_express/v2_7/guides/userguide/ccp_express_EndUser_Guide.html.

Using Cisco IOS CLI—Manual Configuration

Before you begin

This section shows how to access the CLI to perform the initial configuration on Cisco VG310 or Cisco VG320.

If the system configuration dialog message does not appear, a default configuration file was installed on the voice gateway before it was shipped. See [Using Cisco Configuration Professional Express, on page 6](#) to configure the voice gateway.

Procedure

Step 1

Enter *no* as the response when the following system message is displayed:

Example:

```
--- System Configuration Dialog ---
```

At any point you may enter a question mark '?' for help.
Use ctrl-c to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.

Would you like to enter the initial configuration dialog? [yes/no]: **no**

- Step 2** Press **Return** to terminate autoinstall and continue with manual configuration when the following message is displayed:

Would you like to terminate autoinstall? [yes] **Return**

Several messages are displayed, ending with lines similar to the following:

```
...
Copyright (c) 1986-2004 by cisco Systems, Inc.
Compiled <date> <time> by <person>
```

- Step 3** Press **Return** to bring up the Router> prompt:

```
...
flashfs[4]: Initialization complete.
Router>
```

- Step 4** Enter *enable* to enter privileged EXEC mode:

```
Router> enable
Router#
```

What to do next

See the *Using the Cisco IOS CLI to Perform Initial Configuration* section in the [Cisco VG310 and Cisco VG320 Voice Gateways Software Configuration Guide](#) to complete the initial configuration settings on Cisco VG310 or Cisco VG320.

Troubleshooting Cisco VG310 and Cisco VG320

If there appears to be a malfunction, check all the cables and connections first. If these are in order, see the following table for specific troubles and solutions.

For problems with the configuration, refer to the [Cisco VG350, Cisco VG310 and Cisco 320 Voice Gateway Software Administration and Configuration Guide](#) at Cisco.com.

Table 1: Troubleshooting Cisco VG310 and Cisco VG320

| Symptom | Possible Cause | Corrective Action |
|----------------------------|-------------------------------|---|
| Power LED and fans are off | Power source switched off. | Power on the chassis. |
| | Faulty power cable. | Check and replace the power cable, if required. |
| | Faulty power source. | Check and correct the input power, if required. |
| | Faulty internal power supply. | Contact Cisco or your Cisco reseller. |

| Symptom | Possible Cause | Corrective Action |
|---|------------------------------------|---|
| Power LED on; fan off | Faulty Cisco VG310 or Cisco VG320. | Contact Cisco ¹ Technical Service Center or your Cisco reseller. |
| Power LED off; fan on | Faulty Cisco VG310 or Cisco VG320. | Contact Cisco ¹ or your Cisco reseller. |
| No initialization response from Cisco VG310 or Cisco VG320 | Faulty modem console terminal. | Check and replace the modem or terminal, if required. |
| | Faulty cabling to terminal. | Check and replace the cable, if required. |
| | Faulty Cisco VG310 or Cisco VG320. | Contact Cisco ¹ or your Cisco reseller. |
| Unit shuts off after operating for some time | Overheating. | Check the ventilation of the chassis. |
| | Faulty Cisco VG310 or Cisco VG320. | Contact Cisco ¹ or your Cisco reseller. |
| Console screen display freezes | Console fault. | Reset or replace the console. |
| | Software error. | Repeat the power-on procedure. |
| | Faulty Cisco VG310 or Cisco VG320. | Contact Cisco ¹ or your Cisco reseller. |
| ¹ See Obtaining Technical Assistance . | | |