



**Quick Start for Hardware  
Installation:**  
Avaya G430 Media Gateway

03-603236  
Issue 2  
November 2009

© 2009 Avaya Inc.  
All Rights Reserved.

#### **Notice**

While reasonable efforts were made to ensure that the information in this document was complete and accurate at the time of printing, Avaya Inc. can assume no liability for any errors. Changes and corrections to the information in this document may be incorporated in future releases.

**For full support information, please see the complete document, *Avaya Support Notices for Hardware Documentation*, document number 03-600759.**

**To locate this document on our Web site, simply go to <http://www.avaya.com/support> and search for the document number in the search box.**

#### **Documentation disclaimer**

Avaya Inc. is not responsible for any modifications, additions, or deletions to the original published version of this documentation unless such modifications, additions, or deletions were performed by Avaya. Customer and/or End User agree to indemnify and hold harmless Avaya, Avaya's agents, servants and employees against all claims, lawsuits, demands and judgments arising out of, or in connection with, subsequent modifications, additions or deletions to this documentation to the extent made by the Customer or End User.

#### **Link disclaimer**

Avaya Inc. is not responsible for the contents or reliability of any linked Web sites referenced elsewhere within this documentation, and Avaya does not necessarily endorse the products, services, or information described or offered within them. We cannot guarantee that these links will work all of the time and we have no control over the availability of the linked pages.

#### **Warranty**

Avaya Inc. provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language, as well as information regarding support for this product, while under warranty, is available through the following Web site: <http://www.avaya.com/support>.

#### **Copyright**

Except where expressly stated otherwise, the Product is protected by copyright and other laws respecting proprietary rights. Unauthorized reproduction, transfer, and or use can be a criminal, as well as a civil, offense under the applicable law.

#### **Avaya support**

Avaya provides a telephone number for you to use to report problems or to ask questions about your product. The support telephone number is 1-800-242-2121 in the United States. For additional support telephone numbers, see the Avaya Web site: <http://www.avaya.com/support>.

# Chapter 1: Before you start

Before you install your Avaya G430 Media Gateway, prepare all the information, resources, and tools that you need during the installation process.

---

## Preparing the Pre-Installation Worksheet

The Electronic Pre-installation Worksheet (EPW) is a customized Excel spreadsheet that you can use to collect configuration information. The EPW verifies that you have a complete set of installation information. Once filled out by the customer and project manager, the EPW can be loaded directly into the Avaya Installation Wizard (IW) or Gateway Installation Wizard (GIW) for configuration. The EPW should be completed before the installation. Download the latest version of the EPW spreadsheet from the Avaya Web site at <http://support.avaya.com/avayaiw>.

---

## Preparing contacts you might need

Ensure that you have the names and phone numbers of any people you might need to contact at the installation site. This list might include the people responsible for network architecture, system administration, site security, site deliveries, etc.

---

## Preparing installation files

Ensure that you load the latest versions of all firmware files for the G430, S8300, and media modules onto your laptop before configuration. If you install a G430 without an S8300 Server, the configuration process prompts you for the filenames of all firmware files needed. You can download the firmware files needed for your installation from the Avaya Support Web site, at <http://support.avaya.com>.

---

## Preparing the G430 serial number

In order to register the gateway to CM, you need the serial number of the G430. The serial number is printed on a sticker on the back of the G430 chassis.

---

## Obtaining RFA access

You need to obtain a personal Single Sign-On (SSO) for Remote Feature Activation (RFA) web site authentication login before going to the site for installation. You must complete the authentication process before you can be assigned an SSO authentication login.

## Before you start

As a first-time user:

- Business Partners should point their browsers to the Business Partner portal option sales\_market, services-voice, training tools and procedures to select RFA.
- Associates should point their browsers to the Avaya Associate portal.
- Contractors should point their browsers to Avaya.com.
- Alternatively go directly to <http://rfa.avaya.com>.

From that point, log into SSO and complete the process to obtain your personal login.

---

## Downloading CM license and authentication files to your laptop

If you are installing a G430 with an S8300 Server as a primary controller, you need license and authentication files for the Communication Manager.

1. Create a directory on your laptop for storing license and authentication files.
2. Access the Internet from your laptop and go to [rfa.avaya.com](http://rfa.avaya.com).
3. Login using your SSO login and password. The AFS and RFA information home page appears.
4. Start the RFA application from the RFA information page. To create and download the license file and authentication file, follow the instructions outlined in the *Avaya Remote Feature Activation (RFA) User Guide*, 03-300149.
5. Use the download or e-mail capabilities of the RFA web site to download the license and authentication files to your laptop.

---

## Preparing the INADS IP address

The INADS IP address is required in order to configure the S8300's modem for alarming. Use the Automatic Registration Tool (ART) to obtain an IP address for an INADS alarming modem.

1. Access the ART Web site on your laptop.
2. Select **Administer S8x00 Server products for installation script**, and then log in.
3. Enter the customer information, select **Installation Script**, and click **Start Installation script & IP Addr Admin**. A script file is created and downloaded or e-mailed to you.

---

## Preparing needed hardware

- Laptop – to configure the Avaya G430 Media Gateway, you need to prepare a laptop with an Ethernet port. The laptop must have Internet Explorer installed. If you install a G430 without an S8300, you must prepare the laptop with a Windows 2000 or Windows XP operating system and a TFTP server.

- Modem – in order to set up a remote configuration of the G430, you must prepare a USB modem. Currently, the G430 supports the MultiTech USB modem, model MT5634ZBA-USB-V92, and the USRobotics USB modem, model 5637.

---

## Preparing tools needed for mounting

To mount on a rack or wall, prepare a Phillips head screwdriver.

To mount on a wall prepare also:

- A 48 in. x 48 in. (1.2 m x 1.2 m) plywood board (US: 3/4 inch plywood), 0.75 in (20 mm) thick.
- Wood screws
- Minimum of four screws (pan head at least ½ in, # 10-12 screw) to fasten the G430 to the wall

You might also need wire cutters to attach the grounding conductors, if your site uses a ground block.

---

## Choosing the installation site

Ensure that the location where you install your G430 fulfills the following requirements:

- Cables are away from sources of electrical noise such as radio transmitters, broadcast amplifiers, power lines, fluorescent light fixtures
- Water or moisture cannot enter the case of the chassis.
- Air can flow freely around all sides of the chassis.
- The vents on the sides of the case are not blocked.
- The installation is no more than 25 feet (7.6 m) from an approved ground or close enough for use with the supplied secondary grounding conductor.

**Note:**

If the installation location is greater than the length of the supplied secondary grounding conductor from an approved ground, you must contact a licensed electrician to install a supplementary ground conductor.

- The environmental conditions match the following requirements:
  - Ambient temperature – 32° to 104°F (0° to 40°C)
  - Relative humidity – 10-90% relative humidity
  - Minimum clearance for ventilation – 18 in. (45 cm)
  - Weight support – 11-14 lbs (5-7 kg) for a G430, and 11-13 lbs (5-6 kg) for each EM200

**Before you start**

# Chapter 2: Unpack the device



**CAUTION:**

Wear an anti-static wrist ground strap whenever you handle components of a G430 Media Gateway or an EM200. Connect the strap to an approved ground, such as an unpainted metal surface.

---

## Equipment

For the G430 package and for each EM200 package, if ordered:

Open the box that contains the device, and ensure that it contains the following components and accessories:

- One device chassis. The required media modules that may be installed.
- An Accessory Kit (see [Table 1](#)). The EM200 Accessory kit contains the same items as the G430 Accessory kit, except that there are no wall mount brackets and it includes an expansion cable for connecting the EM200 to the G430.

Table 1: G430 Accessory Kit

		
Nine 4-40 Flat Head Screws	One Grounding Cable Assembly	Four Rubber Standoffs

**Unpack the device**

Table 1: G430 Accessory Kit (continued)

		
Two 19 in. Rack mount brackets	One Cable Management Assembly	Two wall mount brackets

---

**Other components**

The Avaya Partner Contact Closure adjunct box, if ordered, is packaged separately.

If you ordered an upgrade memory kit or an add-on VoIP module, refer to *Job Aid: Replacing the Field Replaceable Units (FRUs) for the Avaya G430 Media Gateway*, 03-603237 for installation instructions.



# Chapter 3: Mount the devices

You can position the G430 on a suitable table, or mount it in a rack or on the wall.

The EM200s enable you to optionally extend the G430 by attaching one or two EM200 expansion modules to the G430. Since the cables attaching the EM200 expansion modules to the G430 are short, you must install the G430 and EM200s directly above or below each other.

Keep in mind the following:

- If you are mounting the G430 and EM200 module(s) on a table, always place the G430 on top of the EM200(s). This enables easy access in case you need to open the G430 cover in order to add or replace a VoIP module or the RAM card.
- You can mount a G430 on a wall only if you do not attach any EM200 modules to it.

**Note:**

Although the figures illustrating the mounting instructions depict a G430, all rack and table mounting procedures apply equally to both the G430 and the EM200.

---

## Positioning on a table

To install a G430 or EM200 as a tabletop unit:

1. Remove the four rubber standoffs from their package.
2. Turn the device upside down.
3. Position each standoff into one of the mounting sites, near each corner of the chassis.

---

## Mounting in a rack

You can fasten the G430 or EM200 to a standard 19-inch rack either at the front of the device or at its middle. Before you mount the device, attach the mounting brackets to the device.

### Front mounting bracket placement

Attach a regular mounting bracket to one side of the device, near the front, as shown in [Figure 1](#). Attach a mounting bracket with cable guides to the other side of the device, as shown in [Figure 3](#).

### Middle mounting bracket placement

Attach regular mounting brackets to both sides of the device, as shown in [Figure 2](#). You can also attach a mounting bracket with cable guides on one side of the device, as shown in [Figure 3](#).

## Mount the devices

**Figure 1: Front mounting bracket placement**



**Figure 2: Middle mounting bracket placement**



**Figure 3: Attaching a mounting bracket with cable guides**



## Attaching mounting brackets

Follow these steps to attach the mounting brackets:

1. Position a bracket over the holes in the chassis in the desired mounting position.
2. Affix the bracket to the chassis with three flat head 4-40 screws.
3. Tighten the screws with the screwdriver.

## Rack mounting the device

1. Position the device in the rack. Ensure that there is adequate ventilation.

2. Verify that the screw holes are aligned with the rack hole positions.
3. Insert two mounting screws on each side.
4. Verify that the device is level and horizontal.
5. Tighten the mounting screws. Avoid overtightening.
6. Verify that ventilation vents are not obstructed.

---

## Mounting on the wall

To mount the G430 on a wall, use the two wall mounting brackets. You can also add a mounting bracket with cable guides if desired (refer to [Figure 3](#)).

**Note:**

You can mount a G430 on a wall only if you do not attach any EM200 modules to it.

**Note:**

a 48 in. x 48 in. (1.2 m x 1.2 m) plywood board (US: 3/4 inch plywood), 0.75 in (20 mm) thick. The plywood and the hardware to mount the plywood are customer-provided.

1. If the wall does not have a portion of plywood available, mount , horizontally onto the wall. Make sure the plywood is sufficiently anchored in the wall. Use a minimum of four wood screws and ensure the screws are driven into wall studs, or use four wall anchors rated not less than 50 pounds (22.5 kg) shear strength each.
2. Mark the plywood with the location of the G430 bracket screw holes before fastening the plywood to the wall.
3. Position the G430 so that its front panel is facing up, and secure it to the plywood using a minimum of four screws (pan head at least 3/4 in, #10-12 screw).

Mount the devices

---

**Figure 4: Wall mounting bracket placement**



## Chapter 4: Connect EM200 expansion modules to the G430

If you mounted one or two EM200 modules for the purpose of expanding the G430, connect each EM200 to the G430 using the expansion cable supplied with each EM200.

- If you mounted one EM200:
  - a. Connect one end of the expansion cable to the CONNECTOR OUT 1 connector on the rear of the G430.
  - b. Connect the other end of the expansion cable to the CONNECTOR IN connector on the rear of the EM200.

---

**Figure 5: Connecting an EM200 to the G430**



- 
- If you mounted two EM200 modules, connect one EM200 to the CONNECTOR OUT 1 connector on the rear of the G430, and one EM200 to the CONNECTOR OUT 2 connector on the rear of the G430.

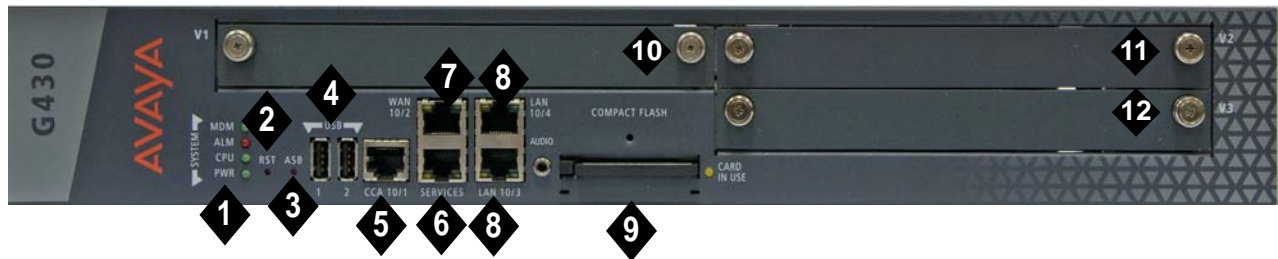
**Connect EM200 expansion modules to the G430**

# Chapter 5: Install media modules

The required media modules may be pre-installed in the G430 chassis and EM200 device(s). If this is the case, skip this chapter.

If the media modules are not pre-installed, or if you want to replace modules or add new media modules, install the necessary media modules and related components to support the configuration required for your site. If this Media Gateway needs to function as an ICC or as an LSP, install an S8300 Server module.

**Figure 6: The G430 front panel ports and slots**



**Figure notes:**

- |                               |  |
|-------------------------------|--|
| 1. System LEDs                | 8. 10/100M ETH LAN ports                       |
| 2. RST button                 | 9. Compact Flash slot                          |
| 3. ASB button                 | 10. V1 — slot for media module or S8300 Server |
| 4. USB ports                  | 11. V2 — slot for media module                 |
| 5. CCA (Contact Closure) port | 12. V3 — slot for media module                 |
| 6. 10/100M Services port      |  |
| 7. 10/100M ETH WAN port       |  |

Figure 7: The EM200 front panel slots



Figure notes:

- 1. System LEDs
- 2. V5/V7 — slot for media module
- 3. V6/V8 — slot for media module

Table 2: Permitted slots for G430 and EM200 media modules

Media module	Permitted slots	Description
MM710	V1-V3, V5-V8	1 T1/E1 ISDN PRI trunk port
MM710B	V1-V3, V5-V8	1 T1/E1 ISDN PRI trunk port
MM711	V1-V3, V5-V8	8 universal analog ports
MM712	V1-V3, V5-V8	8 DCP telephone ports
MM714	V1-V3, V5-V8	4 analog telephone ports and 4 analog trunk ports
MM714B	V1-V3, V5-V8	4 analog telephone ports, 4 analog trunk ports, and an emergency transfer relay
MM716	V1-V3, V5-V8	24 analog ports
MM717	V1-V3, V5-V8	24 DCP telephone ports
MM720	V1-V3, V5-V8	8 ISDN BRI trunk or endpoint (telephone or data) ports
MM722	V1-V3, V5-V8	2 ISDN BRI trunk ports
S8300C or S8300D	V1	CM server



---

## Installing an S8300 server module

You can only insert the S8300 in slot V1 on the left side of the Avaya G430 Media Gateway.

1. Remove the blank plate from slot V1.
2. Position the media module before the V1 bay opening and engage both sides of the module in the interior guides.
3. Slide the S8300 module slowly into the chassis. Maintain an even pressure to ensure that the module does not become twisted or disengaged from the guides.

---

**Figure 8: Inserting the S8300 Server module**



4. Apply firm pressure to engage the connectors.
5. Tighten the spring-loaded captive screws on the front of the module to lock the S8300 Server module into the chassis.

---

## Installing other Media Modules

---

### Combination Limitations

The G430 chassis is designed to accommodate:

- Up to three of the following telephony media modules: MM710, MM710B, MM711, MM712, MM714, MM714B, MM720, MM722
- Up to two of the following telephony modules: MM716, MM717
- Up to one S8300 server, in slot V1 only.

Each EM200 chassis is designed to accommodate:

- Up to two of the following telephony media modules: MM710, MM170B, MM711, MM712, MM714, MM714B, MM716, MM717, MM720, MM722

## Install media modules

### Note:

Although you can insert a total of seven MM710 media modules in the extended G430 (a G430 with two EM200 expansion modules), the optimum number is four MM710 media modules, since the G430 can support up to 100 VoIP channels.

The G430 chassis is designed to accommodate:

- Up to three of the following telephony media modules: MM710, MM710B, MM711, MM712, MM714, MM714B, MM720, MM722
- Up to two of the following telephony media modules: MM716, MM717
- Up to one S8300 server, in slot V1 only

Each EM200 chassis is designed to accommodate:

- Up to two of the following telephony media modules: MM710, MM710B, MM711, MM712, MM714, MM714B, MM716, MM717, MM720, MM722

### Note:

Although you can insert a total of seven MM710 or MM710B media modules in the extended G430 (a G430 with two EM200 expansion modules), the optimum number is four MM710 or MM710B media modules, since the G430 can support up to 100 VoIP channels.

---

## Inserting media modules

Media modules are restricted to certain slots. Ensure that you insert each module in a slot appropriate for that module. For a list of allowable slots for each media module, see [Table 2](#).

Insert the media modules needed for your configuration.

# Chapter 6: Power up

---

## G430 and EM200 Grounding requirements

**Note:**

Grounding requirements differ widely from country to country. In addition to the grounding instructions presented in this section, you must follow the local electrical installation codes for your location.

You must use two safety grounds to ensure safe operation of each G430 Media Gateway and EM200:

- The ground conductor that is part of the AC power cord.
- The field-installed green/yellow conductor, referred to as the supplementary ground conductor.



Both safety grounds must be connected to an approved ground (see Chapter 2 of *Installing and Upgrading the Avaya G430 Media Gateway*, 03-603233, for the definition of an approved ground). If a power cord accompanies the G430 or EM200, use that cord whenever possible.

**⚠ WARNING:**

Connection of both grounds (the AC power cord and the supplementary ground conductor) is required for safe operation of each G430 Media Gateway and EM200.

**⚠ WARNING:**

An improper ground can cause electrical shock, equipment failures, and service outages.

---

## Connecting ground conductors

For each G430 and EM200:

1. Unscrew the lock nut of the ground screw on the rear of the chassis adjacent to the ground symbol.
2. Place the ring terminal of the 10 AWG (4.0 mm<sup>2</sup>) Supplementary Ground Conductor on the ground screw
3. Tightly close the lock nut.

---

### Using a ground block

A ground block must be provided for use with multiple Media Gateway installations. If the ground block is to be used, you must supply it and have it installed by an electrician.

To attach the supplementary ground conductor (that is already attached to the grounding screw on the chassis) to a ground block:

1. Cut the supplementary ground conductor to the length needed to terminate the conductor into one of the terminals of the ground block. Do not coil the supplementary ground conductor.
2. Attach one end of the remaining 10 AWG (4 mm<sup>2</sup>) ground wire to one of the terminals in the ground block and the other end to an approved ground.
3. Cut this ground wire to the length needed to reach the approved ground. Do not coil this wire.

---

### Connecting power to the G430

1. Connect the AC power cable to the inlet receptacle on the rear of the chassis.
2. Connect the other end of the power cable into a mains socket.

---

### G430 LED sequence

When you turn on the G430, the following LED sequence occurs:

1. The PWR LED on the front panel lights.
2. The CPU LED lights if the firmware is running.
3. At least one LED on each media module lights initially and then goes off after about 20 seconds.

# Chapter 7: Prepare for configuration

Before you prepare the G430 for configuration, ensure that you load the completed Electronic Pre-Installation Worksheet onto the laptop. You should also load any CM license and authentication files and any firmware files that you have prepared onto the laptop.

Preparations for configuration differ depending on whether your G430 contains an S8300 Server. This chapter describes both options.

---

## Preparing a G430 with an S8300 server

Use the Avaya Installation Wizard (IW) to configure the G430 with an S8300.

1. Connect a laptop computer to the Services port of the S8300, using a crossover cable.
2. Make sure the laptop is configured as follows:
  - IP Address: 192.11.13.5
  - NetMask: 255.255.255.252
  - Disable DNS
  - Clear the primary WINS and secondary WINS IP Addresses
  - Disable the Proxy Server in the Internet Explorer
3. Launch Internet Explorer on the laptop and type the following URL to access the S8300 Server Home Page: <http://192.11.13.6>.

The welcome screen for Avaya Integrated Management appears.

4. Click **Continue**. The Logon screen for Integrated Management appears.
5. Enter the appropriate login name and password.
6. Ask a customer representative for a login name and password that the customer would like for the superuser login. If you are a business partner, you can also repeat this procedure to add the dadmin login.

### Note:

Make sure the customer can change this login, its password, or its permissions later.

7. From the Integrated Management main menu, select **Launch Maintenance Web Interface**.
  8. From the navigation menu of the Maintenance Web Pages, select **Security > Administrator Accounts**.
- The Administrator Accounts screen appears.
9. Select **Add Login**.
  10. Select **Privileged Administrator** and click **Submit**.

The Administrator Logins -- Add Login: Privileged Administrator screen appears.

## Prepare for configuration

11. Type a login name for the account in the **Login name** field.
12. Verify the following:
  - **susers** appears in the **Primary group** field.
  - **prof18** appears in the **Additional groups (profile)** field. *prof18* is the code for the customer superuser.
  - **/bin/bash** appears in the **Linux shell** field.
  - **/var/home/login name** appears in the **Home directory** field, where *login name* is the name you entered in step 11.
13. Skip the fields **Lock this account** and **Date on which account is disabled-blank to ignore**.
14. For the **Select type of authentication** option, select **password**.

### Note:

Do not lock the account or set the password to be disabled.

15. Enter the password in the **Enter password or key** field and the **Re-enter password or key** field.
16. In the section **Force password/key change on next login** select **no**.
17. Click **Submit**.

The system informs you that the login is added successfully.
18. From the Integrated Management main menu, select **Launch Avaya IW**. The Avaya Installation Wizard (IW) opening screen appears.


---

## Configuring the G430 and S8300 using the Avaya IW

Step through the screens of the Avaya IW to configure the S8300 and the G430. Take note of the following items:

1. On the initial IW screen, you can upgrade the wizard if you have a more current version of the `AIW.rpm` wizard file. You can download the most current version of the `AIW.rpm` wizard file from the Avaya Web site at <http://support.avaya.com/avayaiw>. The format of the name of the file is `si_S8300-<version_number>.noarch.rpm`, where `<version_number>` is the Avaya IW version number.
2. On the Import EPW screen, import the Electronic Pre-Installation Worksheet (EPW) that was prepared.
3. On the Usage Options screen, verify the role of this S8300 server.
4. Use the NVRAM Init screen to initialize the G430.
5. On the Date/Time screen, set the correct date, time, and time zone.
6. Click **Continue** in the Communication Manager Software Upgrade screen. You cannot use the Avaya IW to upgrade Communication Manager software. Use the Software Update Manager instead.
7. On the SES Co-Res screen, you can optionally enable SES.
8. If you have a software update (patch) file for Communication Manager, use the Software Update screen to select the file and update the software.
9. On the Phone Message Files screen, you can install standard and custom phone message files.

## 22 Quick Start for Hardware Installation: Avaya G430 Media Gateway

10. On the Media Server - IP Addresses screen, enter IP information for the S8300.
11. If you selected the **Install this media server as an LSP** option in the Usage Options screen, the LSP Controller screen appears. Enter the primary controller IP addresses for registration and synchronization.
12. You can configure optional services: Uninterruptible Power Supply (UPS), Domain Name Service (DNS), Network Time Protocol (NTP), or INADS remote support.
13. If you are *not* using IW to generate basic translations, select the **Translation will be added after the installation** option on the Translation Source screen.
14. On the Security File screen, load the CM License file that you prepared from your laptop.
15. On the IP Addresses screen, click  to configure the following information for the G430:
  - a. To specify the details of the Primary Management Interface of the G430, use the PMI screen.
  - b. To specify SNMP community strings and trap destinations, use the SNMP screens.
  - c. To specify the Media Gateway Controller(s) used to manage the G430 and the Transition Point information, use the MGC List screen. Click **Ping Test** to test the accessibility of each MGC.
16. On the Firmware screen, upgrade G430 and media module firmware. New firmware files can be loaded from your laptop directly into the server /tftpboot directory, if needed.
17. Use the Change Master Key - Optional screen to optionally change the master key which is used to encrypt gateway secrets (passwords, etc.) in the gateway configuration file.
18. If you have a service contract, the Gateway Authentication screen displays the installed gateway Authentication file.
19. Review the status of the Field Replaceable Units (FRU) in the FRU Status screen.
20. On the TFTP Server screen, configure the media gateway TFTP server capability to upload IP Phone configuration files.
21. You can configure the modem in the modem configuration screens.
22. If you selected the option **Use this wizard to create basic translations** in the Translation Source screen, you can configure Telephony, Trunking, and Endpoints.
23. Optionally configure alarming for the modem, OSS alarming, and SNMP alarming.
24. Optionally change the root password on the media gateway.
25. On the Authentication File screen, load the CM authentication file that you prepared from your laptop.

---

## Preparing a G430 without an S8300 server

You can use the Gateway Installation Wizard (GIW) to configure the Avaya G430 Media Gateway without an S8300. You can perform the configuration on site, or prepare the G430 for a remote configuration.


1. Prepare a laptop with a CD-ROM drive and a TFTP server on the network. This may be needed for installing software and firmware upgrades.
2. Install the GIW software on your laptop. You can download the GIW software from the Avaya support Web site, at [http://support.avaya.com/avaya\\_iw](http://support.avaya.com/avaya_iw) and go to File Downloads.

## Prepare for configuration

3. Make sure the laptop is configured as follows:
  - IP Address: 192.11.13.5
  - NetMask: 255.255.255.252
  - Disable DNS
  - Clear the primary WINS and secondary WINS IP Addresses
  - Disable the Proxy Server in the Internet Explorer
4. Connect the laptop computer to the G430 Services port, using a cross-over Ethernet cable.
5. Double-click the GIW icon on the laptop to open the Gateway Installation Wizard. The Overview screen appears.
6. Click **Continue**. The Gateway Connection Details screen appears.
7. **Enter the connection details:**
  - a. Select **Select if this is a G430 Gateway**.
  - b. At the prompt, enter username **root** and password **root**.
  - c. Change the password when prompted.
8. Click Continue. The Initialize Components screen appears.
9. To perform an on site configuration using the GIW, continue with [Configuring the G430 using the GIW](#) on page 24. To prepare for a remote configuration, continue with [Preparing for a remote configuration of the G430](#) on page 25.

---

## Configuring the G430 using the GIW

1. On the Initialize Components screen, check the options that are appropriate for your installation.
2. On the Import EPW screen, import the Electronic Pre-Installation Worksheet (EPW) that was prepared.
3. Use the IP Address screen to configure addresses and communication parameters for the G430. Click  to configure the following information for the media gateway:
  - a. To specify the details of the Primary Management Interface of the G430, use the PMI screen.
  - b. To specify SNMP community strings and trap destinations, use the SNMP screens.
  - c. To specify the Media Gateway Controller(s) used to manage the G430, and the Transition Point information, use the MGC List screen. Click **Ping Test** to test the accessibility of each MGC.
4. On the Firmware screen, identify the TFTP server used for file transfer, and specify the firmware upgrade files to load.
5. Use the Change Master Key - Optional screen to optionally change the master key which is used to encrypt gateway secrets (passwords, etc.) in the gateway configuration file.
6. The Gateway Authentication screen displays the installed gateway Authentication file.
7. Review the status of the Field Replaceable Units (FRU) in the FRU Status screen.
8. On the TFTP Server screen, configure the media gateway TFTP server capability to upload IP Phone configuration files.



9. You can configure the modem in the modem configuration screens.
10. Change the root password on the media gateway.
11. Click **Finish** to complete the G430 configuration.

**Note:**

If you run GIW, ensure that services can log in to the system using USB modem after you run the GIW.

---

## Preparing for a remote configuration of the G430

The G430 can be remotely configured through the network or via a modem.

### Preparing for a remote configuration of the G430 through the network

If you need to prepare the G430 for remote configuration through the network, run the installation script for newly installed gateways. The installation script configures the gateway's basic network parameters required to achieve network connectivity: VLAN number, IP address, IP netmask, IP address for the default router, MGCs list, and hostname. A remote technician can then further configure the gateway as required.

Run the installation script after installing the G430 and EM200s and connecting them to power, as described in previous chapters.

**Note:**

The installation script is supported from branch gateway firmware version 29.22.x.

1. Prepare a laptop with SSH client software.
2. Set the laptop's TCP/IP properties as follows:
  - IP address: 192.11.13.5
  - Subnet mask: 255.255.255.252
  - Disable DNS service
  - Disable WINS Resolution
3. Connect the laptop computer to the G430 Services port, using an Ethernet cable.
4. SSH to 192.11.13.6.
5. At the prompt, enter username **root** and password **root**.
6. At the prompt, configure a new password.
7. At the prompt, enter **y** to configure basic gateway connectivity.

**Note:**

If you enter **n** but then change your mind, you can use the **script-config** CLI command to run the installation script, so long as you have not saved any configuration changes you may have made.

## Prepare for configuration

8. You are prompted to configure the following parameters. For each parameter, you can enter a value, or press Enter to accept the default value shown in square brackets:
  - VLAN number
  - IP address for the primary management interface
  - Subnet mask for the primary management interface
  - IP address for the default gateway (router)
  - Up to four IP addresses to specify the Media Gateway Controllers
  - Hostname for the G430
9. The settings you configured are displayed, and you are prompted for confirmation.
  - If you confirm the settings, they are saved and the G430 reboots.
  - If you do not confirm the settings, you are prompted to re-configure them. If you enter **y**, the parameters are presented again for configuration.
10. Connect the Ethernet port to the network to enable remote access to the gateway. A remote technician can now further configure the gateway using the CLI.

## Preparing for a remote configuration of the G430 via a modem

If you need to prepare the G430 for a remote configuration via a USB modem, you must attach a USB modem and enable it using the GIW.

### Note:

If you have an Avaya Service contract, no configuration is necessary for Services personnel to remotely access the gateway through a USB modem. Simply connect the modem to a USB port and plug in a loop start dial tone line into it, and a remote technician can dial in to the G430 and complete the configuration using the CLI interface.

### Note:

You must provide the loop start dial tone for the modem to dial in to the Media Gateway.

1. Click **Continue** until the Modem Type Selection screen appears.
2. Select USB modem, and click **Continue**.
3. In the Modem Configuration screen, enter the modem parameters. If you do not have an Avaya Service contract, select **Enable CHAP Authentication** and enter the CHAP secret key.
4. Click **Continue** until you exit the Gateway Installation Wizard.
5. Connect the modem that you specified in Step 2 and plug in a loop start dial tone line into it .
6. Dial in to the modem to ensure that it is set up correctly.
7. A remote technician can now dial in to the G430 and complete the configuration using the **script-config** CLI command to run the installation script.

---

## Next steps

---

### Using Avaya IW and GIW

The full configuration process is performed using the Avaya Installation Wizard or Gateway Installation Wizard interface. For more detailed information about IW and GIW:

- See the online help for IW and GIW at <http://support.avaya.com/avayaiw>.
- Review *Job Aid: Avaya Installation Wizard*, 555-245-754, and *Job Aid: Avaya Gateway Installation Wizard*, 555-245-756.

---

### Using the Command Line Interface

For information about configuring the G430 with the Command Line Interface:

- For instructions on how to connect to the CLI, review Chapter 4 of *Administration for the Avaya G430 Media Gateway*, 03-603228 - Accessing the Avaya Media Gateway.
- For detailed information about CLI commands, refer to the *Avaya Aura G430 CLI Reference*, 03-603234.

**Prepare for configuration**