Job Aid:
Avaya Gateway Installation Wizard
For installation of Avaya G250, G250-BRI, G350, and G700 Media Gateways and W310 WLAN Gateway

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The Avaya Gateway Installation Wizard (GIW) supports the following:

- Avaya G250, G250-BRI, G350, and G700 Media Gateway initial configuration and firmware upgrades — when the media gateway does *not* contain an S8300 Media Server (primary controller or LSP).

  For all other tasks associated with a G250, G250-BRI, G350, or G700 installation, follow the instructions in the installation documents for the media gateways:

  - *Quick Start for Hardware Installation: Avaya S8300 Media Server and Avaya G700 Media Gateway*, 555-233-150
  - *Installation and Upgrades for the Avaya G700 Media Gateway and S8300 Media Server*, 555-234-100
  - *Quick Start for Hardware Installation: Avaya G350 Media Gateway*, 03-300148
  - *Installation and upgrade for the Avaya G350 Media Gateway*, 03-300394
  - *Quick Start for Hardware Installation: Avaya G250 Media Gateways*, 03-300433
  - *Installation and upgrade for the Avaya G250 Media Gateway*, 03-300434

  See Installing the G250, G250-BRI, G350, or G700 Media Gateway later in this document.

- Avaya W310 WLAN Gateway initial configuration and firmware upgrades.

  For all other tasks associated with a W310 WLAN Gateway installation, follow the instructions in the installation document:

  - *Avaya W310 WLAN Gateway Installation and Configuration Guide*, 21-300041
  - *Avaya W310 WLAN Gateway Quick Reference Guide*

  See the Installing the W310 WLAN Gateway later in this document.

Additionally, you *cannot* configure an X330 Expansion Module with the GIW. Instead, use the instructions in *Installation and Upgrades for Avaya G700 Media Gateway and Avaya S8300 Media Server*, 555-234-100.

> **Note:** If the G250, G250-BRI, G350, or G700 Media Gateway contains an S8300 primary controller or LSP, use the Avaya Installation Wizard (IW), which allows you to install the S8300 Media Server or LSP as well as configure the media gateway and its components.

Installing the G250, G250-BRI, G350, or G700 Media Gateway

G350/G700 Installation Checklist

The tasks to install a G350 or G700 Media Gateway and the personnel who normally perform the tasks are summarized in the following table:

Task	Who Does It
Step 1: Obtain a License for VPN, If Necessary (G250, G250-BRI, and G350 Only)	Project Manager
Step 2: Complete the Electronic Pre-installation Worksheet	Project Manager and Customer LAN Administrator
Step 3: Download the Avaya Gateway Installation Wizard	Installer
Step 4: Set up a TFTP Server, If Necessary, and Download Firmware to a TFTP Server	Installer and Customer LAN Administrator
Step 5: Install Hardware for the G250, G250-BRI, G350 or G700 Media Gateway	Installer
Step 6: Prepare to Install the Firmware on the G250, G250-BRI, G350, or G700	Installer, using the Electronic Pre-installation Worksheet
Step 7: Run the Avaya Gateway Installation Wizard	Installer
Step 8: Administer Communication Manager on the Primary Controller	Installer
Step 9: Complete the Installation	Installer

Step 1: Obtain a License for VPN, If Necessary (G250, G250-BRI, and G350 Only)

The Project Manager normally creates the file from the RFA Web site and sends it to the installer. The license file is required only if the customer wants to enable VPN on the media gateway.

Step 2: Complete the Electronic Pre-installation Worksheet

Complete this worksheet with the assistance of the customer's corporate local area network (LAN) administrator. Complete the sections for each G250, G250-BRI, G350 or G700 Media Gateway as appropriate.

Allow up to 1 hour to complete this worksheet.

CAUTION: If you do not have a completed document, DO NOT BEGIN THE MEDIA GATEWAY CONFIGURATION. DO NOT GUESS AT THESE VALUES. If you use the wrong values, you can corrupt the customer's network.

Note: The customer's LAN administrator might require you to change IP addresses to prevent conflicts with existing endpoints on the corporate LAN. Make precise notes of any changes and follow the LAN administrator's instructions exactly.

CAUTION: You MUST coordinate the IP addresses that you will use with your Avaya gateway with the IP addresses on the corporate LAN. If you specify, for the media gateway component, an IP address that conflicts with another network endpoint, you can cause problems with traffic on the LAN. These problems can be extremely difficult to diagnose and resolve.

Note: When you assign IP addresses for the G700/G350/G250/G250-BRI Media Gateway and associated components, you may want to use a convention of consecutive IP addresses to create a consistent numbering scheme. This makes identification of components easier.

For example, in a G700:

subnet mask = 255.255.255.0
default gateway = 149.83.124.250

Set IP addresses for the components in the gateway in consecutive order in the fourth octet of the IP address. For example:

S8300: 149.83.124.224
Stack Master (i960): 149.83.124.225
MGP: 149.83.124.226
VoIP: 149.83.124.227

Step 3: Download the Avaya Gateway Installation Wizard

To download the GIW software, connect your laptop to the Internet and go to http://support.avaya.com/avayaiw. Find the GIW executable file, doubleclick it, and follow the instructions.

Note: Refer to the appropriate installation and upgrades documentation.

Step 4: Set up a TFTP Server, If Necessary, and Download Firmware to a TFTP Server

If you or the customer does not have a TFTP directory, you or the customer can create one using the downloadable TFTP Server software that is accessible at http://avaya.com/support.
Note: Refer to the appropriate installation and upgrades documentation.

Download the most recent firmware files for the G250, G250-BRI, G350 or G700 Media Gateways and their respective media modules to either your laptop or to a TFTP server on the customer's LAN.

You need to enter the firmware filenames in the appropriate fields on the Gateway Installation Wizard screen. The correct filenames should first be entered on the Gateway Installation Wizard Worksheet. The software/firmware filenames have a different format for each type of device. The following table shows example filenames for each type of device.

Table 1: Example G250/G350/G700 Software and Firmware Filenames

Component	Filename Example
G250 Processors	
G250 Processor	g250_sw_24_10_0.bin
G350 Processors	
G350 Processor	g350_sw_24_9_1.bin
G350 Device Manager	g350_emweb_2_1_6.bin
MM312 DCP Media Module	mm312v6.fdl
MMANALOG Media Module (Integrated Analog)	Mmanalogv62.fdl
G700 Processors	
P330 Stack Processor	Viisa4_1_1.exe
P330 Device Manager	p330Tweb.4.6.2.exe
G700 Media Gateway Processor (MGP)	mgp_24_10_0.bin
VoIP Media Module and Motherboard VoIP (MM760)	mm760v3.fdl
Media Modules (G350 and G700)	
MM710 E1/T1 Media Module	mm710v11.fdl
MM711 Analog Port/Trunk Media Module (version 6 or earlier)	mm711v17.fdl
MM711 Analog Port/Trunk Media Module (version 7)	mm711h7v24.fdl
MM711 Analog Port/Trunk Media Module (version 20or later)	mm711h20v62.fdl
MM712 DCP Media Module	mm712v5.fdl
MM714 Analog Media Module	mm714v62.fdl
MM717 DCP Media Module	mm717v2.fdl
MM720 BRI Media Module	mm720v6.fdl
MM722 BRI Media Module	mm722v2.fdl

Step 5: Install Hardware for the G250, G250-BRI, G350 or G700 Media Gateway

Note: Refer to the appropriate installation and upgrades documentation:

Step 6: Prepare to Install the Firmware on the G250, G250-BRI, G350, or G700

1. Verify contents of the tftp directory
2. Determine which firmware to install

Step 7: Run the Avaya Gateway Installation Wizard

1. With a direct connect cable, connect the serial port of your laptop to the Console port of the G250, G250-BRI, G350 or G700 Media Gateway. Remember which COM port you used.

2. Locate the GIW executable file on your laptop, and doubleclick it.

3. At the screen where the option to use the EPW is presented, select the option to use the EPW.

4. Use the GIW Help button for additional information.

Note: For a G700, see Chapter 4 in *Installation and Upgrades for Avaya G700 Media Gateway and Avaya S8300 Media Server* to configure the X330 Expansion Module, if necessary.

Overview of Wizard Tasks for the G250, G250-BRI, G350, and G700 Media Gateway

The following checklist shows the tasks you perform with the GIW during an installation of a G350 or G700 Media Gateway. If a task is optional, you can leave the page for that task blank and move to the next page of the GIW.

1.	View gateway type and gateway firmware version
2.	Import of Electronic Pre-installation Worksheet (EPW). Using the EPW provides default values from the EPW for following steps.
3.	(G250, G250-BRI, and G350 only) Enter IP address information for the G350 Processor, also known as the Primary Management Interface (PMI)
4.	(G250, G250-RI, and G350 only) Enter SNMPv1 community strings [optional]
5.	(G250, G250-RI, and G350 only) Configure SNMPv3 [optional]
6.	(G700 only) Enter IP address information for the P330 Stack Processor
7.	(G700 only) Enter IP address information for the Media Gateway Processor (MGP)
8.	Enter primary controller IP addresses
9.	(G700 only) Enter IP address information for the VoIP modules
10.	(G700 only) Configure optional services (UPS, DNS, NTP, INADS)
11.	Upgrade the firmware for all media gateway components
12.	(G250, G250-BRI, and G350 only) Configure the TFTP server and upload IP phone configuration files [optional]
13.	(G250, G250-BRI, and G350 only) Install the license file for VPN [optional]
14.	(G250, G250-BRI, and G350 only) Configure the modem. This is a different modem than that configured for alarming for the primary controller.
15.	Configure the modem
16.	(G700 only) Configure SNMP [optional]
17.	(G250, G250-BRI, and G350 only) Change the root password
18.	Save installation log file

Step 8: Administer Communication Manager on the Primary Controller

See the appropriate installation documentation to perform the following administration of the primary controller:

1. Reboot the system
2. Assign node names, if necessary
3. Administer network regions
4. Assign LSPs to network regions
5. Administer IP interfaces
6. Administer the LSP form
7. Add media gateway
8. Verify changes
9. Enable announcements, if necessary
10. Save translations

Step 9: Complete the Installation

See the appropriate installation documentation to:

1. Check planning documentation
2. Connect and administer test endpoints
3. Complete electrical installation.

Installing the W310 WLAN Gateway

W310 WLAN Gateway Installation Checklist

The tasks to install a W310 WLAN Gateway and the personnel who normally perform the tasks are summarized in the following table:

Task	Who Does It
Step 1: Complete the Electronic Pre-installation Worksheet	Project Manager and Customer LAN Administrator
Step 2: Download the Avaya Gateway Installation Wizard	Installer
Step 3: Set up a TFTP server, if necessary, and download firmware and device images to the TFTP server	Installer
Step 4: Install the access points (W110 LAP or AP4/5/6)	Installer
Step 5: Install hardware for the W310 WLAN Gateway	Installer
Step 6: Install and configure a Radius Server	Customer LAN Administrator
Step 7: Connect to and log in to the W310 WLAN Gateway	Installer
Step 8: Run the Gateway Installation Wizard	Installer, using the Electronic Pre-installation Worksheet

Step 1: Complete the Electronic Pre-installation Worksheet

Complete this worksheet with the assistance of the customer's corporate local area network (LAN) administrator. Complete the sections for each W310 WLAN Gateway as appropriate.

CAUTION: If you do not have a completed document, DO NOT BEGIN THE GATEWAY CONFIGURATION. DO NOT GUESS AT THESE VALUES. If you use the wrong values, you can corrupt the customer's network.

Note: The customer's LAN administrator might require you to change IP addresses to prevent conflicts with existing endpoints on the corporate LAN. Make precise notes of any changes and follow the LAN administrator's instructions exactly.

CAUTION: You MUST coordinate the IP addresses that you will use with your Avaya gateway with the IP addresses on the corporate LAN. If you specify, for the WLAN

gateway component, an IP address that conflicts with another network endpoint, you can cause problems with traffic on the LAN. These problems can be extremely difficult to diagnose and resolve.

Step 2: Download the Avaya Gateway Installation Wizard

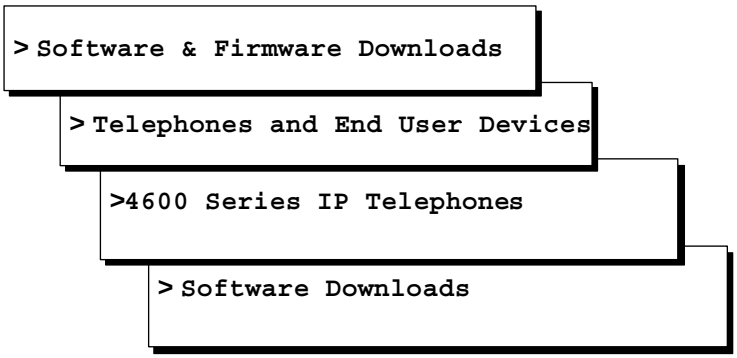
To download the GIW software, connect your laptop to the Internet and go to http://support.avaya.com/avayaiw. Find the GIW executable file, double-click it, and follow the instructions.

Step 3: Set up a TFTP server, if necessary, and download firmware and device images to the TFTP server

If you or the customer does not have a TFTP directory, you or the customer can create one using the downloadable TFTP Server software that is accessible at http://avaya.com/support.

NOTE: A Linux or Unix TFTP server should be used only if the customer already has an existing one. In these cases, you download the image files to your laptop and give them to the customer for proper placement and execution.

1. On the hard drive of your laptop or the customer's PC, create a directory into which you will load the G700 software. It is recommended that you create a directory called C:\tftp.
2. Connect to the LAN using a browser on your laptop or the customer's PC and access **http:// www.avaya.com/support** on the Internet.
3. At the Avaya support site, select the following sequence of menu options:



4. Double-click on one of the links listed with "TFTP Server"; for example,
   4630 IP Telephone R 1.73 and TFTP Server.
5. Scroll to bottom of page to find the TFTP Server Application file, iptel_avaya_tftp.exe.
6. Double-click on the program and download it to your laptop or the customer PC that will serve as the TFTP server. Remember where the iptel_avaya_tftp.exe file is installed on your laptop or PC and write it down.

   You may also wish to download and view or print the file iptel.pdf, which provides instructions on installing the iptel_avaya_tftp.exe for Windows servers.

7. After downloading the iptel_avaya_tftp.exe file to the PC, double-click it and follow instructions to install it. By default, the installation program creates the directory, C:\Program Files\Walusoft\TFTPSuite that contains the application files.

8. When the file has been installed, go to the directory where the software was installed and double-click the file tftpserver32.exe to open the program.

   The TFTP Server window appears. It reflects the IP address of the PC in the upper border, plus port 69.

9. Enable the TFTP server as follows:
   - Click on `System` from menu bar and select `setup`.

     The server option window appears.
   - Select the Outbound tab, and enter C:\tftp - (or your alternate tftp location) for the outbound file path.
   - Under Options tab, enter **69** in the Use Port field (default).
   - Select **No Incoming** (default). However, if you wish to copy files as a backup prior to performing an upgrade of software, leave this field unchecked.
   - Select the Inbound tab, and enter C:\tftp (or your alternate tftp location) for the inbound file path.
   - Click **OK**.

Note: Refer to the appropriate installation and upgrades documentation:

- *Avaya W310 WLAN Gateway Installation and Configuration Guide*, 555-245-104, Issue 1
- *Avaya W310 WLAN Gateway Quick Reference Guide*

Download the most recent firmware/image files for the W310 WLAN Gateway and its respective access points to the designated TFTP server on the customer's LAN.

You need to enter the firmware filenames in the appropriate fields on the Gateway Installation Wizard screen. The correct filenames should first be entered on the Gateway Installation Wizard Worksheet. The software/firmware filenames have a different format for each type of device. The following table shows example filenames for each type of device.

Table 2: **Example Software and Firmware Filenames**

Component	Filename Example
W310 Processor	
W310 Software Image	W310
W310 Device Manager	W310.web
Access Points	
W110 Light Access Point	lap.cyn
AP4, 5, or 6 Access Point	lap_ap-4-5-6.cyn

Step 4: Install the access points (W110 LAP or AP4/5/6)

The access points are the receiver/transmitters that are strategically placed throughout a location served by the wireless system. These access points allow signaling to occur between the wireless phones and the wireless network. The access points that work with the W310 WLAN Gateway are the W110 Light Access Point and the AP-4, AP-5, and AP-6 Access Points that have been upgraded for Light AP support.

For information on installing these devices, see the following documents:

- *Wireless AP-4, AP-5, and AP-6 User Guide*, 555-301-708, Issue 3, June 2004
- *Avaya W110 Installation and Configuration Guide*

Step 5: Install hardware for the W310 WLAN Gateway

For information on installing the W310 WLAN Gateway, see the following documents:

- *Avaya W310 WLAN Gateway Installation and Configuration Guide*, 555-245-104, Issue 1
- *Avaya W310 WLAN Gateway Quick Reference Guide*

Step 6: Install and configure a Radius Server

The Radius server is a server used for endpoint registration authentication over the LAN. The customer is responsible for installing and administering a Radius server.

Step 7: Connect to and log in to the W310 WLAN Gateway

For information on connecting and logging in to the W310 WLAN Gateway, see *Avaya W310 WLAN Gateway Installation and Configuration Guide*, 555-245-104, Issue 1.

Step 8: Run the Gateway Installation Wizard

The Gateway Installation Wizard allows you to automatically configure the W310 WLAN Gateway and install appropriate firmware and software images. See the Overview of Wizard Tasks for the W310 WLAN Gateway.

Overview of Wizard Tasks for the W310 WLAN Gateway

The following checklist shows the tasks you perform with the GIW during an installation of a W310 WLAN Gateway. If a task is optional, you can leave the page for that task blank and move to the next page of the GIW.

1.	Import of Electronic Pre-installation Worksheet (EPW). Using the EPW provides default values from the EPW for following steps.
2.	Enter IP address information for the W310 Processor
3.	Configure SNMP [optional]
4.	View gateway type and gateway firmware version
5.	Enter TFTP server information and firmware for upgrade
6.	Enter IP information for Radius Server
7.	Enter IP information for Wireless Domain Server
8.	Add and configure Service Set Identifiers (SSIDs) [optional]
9.	Set new root password [optional]
10.	Save installation log file

Firmware Installation Worksheet

The Gateway Installation Wizard automatically detects and allows you to upgrade the firmware versions for the G250, G250-BRI, G350 and G700 Media Gateways, their associated media modules, and the W310 WLAN Gateway. If your configuration requires specific firmware versions, write the information in the space provided below. Make a copy of this page to use for each media gateway in the configuration.

Gateway Identifier: _____

Note: The media gateway identifier is the serial number of the G250, G250-BRI, G350 or G700 Media Gateway. This information is on a label on the back of the G700 Media Gateway.

Component	Filename
G250 Processors	
G250 Processor	
G350 Processors	
G350 Processor	
G350 Device Manager	
MM312 DCP Media Module	
MMANALOG Media Module (Integrated Analog)	
G700 Processors	
P330 Stack Processor	(software image)
P330 Device Manager	(EW Archive)
G700 Media Gateway Processor (MGP)	
VoIP Media Module and Motherboard VoIP (MM760)	
Media Modules (G350 and G700)	
MM710 E1/T1 Media Module	
MM711 Analog Port/Trunk Media Module (version 6 or earlier)	
MM711 Analog Port/Trunk Media Module (version 7)	
MM711 Analog Port/Trunk Media Module (version 20or later)	
MM712 DCP Media Module	
MM714 Analog Media Module	
MM717 DCP Media Module	
MM720 BRI Media Module	
MM722 BRI Media Module	
W310 Processor	
W310 Software Image	
W310 Device Manager	
Access Points	
W110 Light Access Point	
AP-4, 5, or 6 Access Point	

Notes