Quick Start

Avaya™ S8300 Media Server and Avaya™ G700 Media Gateway Hardware Installation

1 Get License File, Software, and Firmware
2 Conduct Equipment Inventory
3 Mount Media Gateway
4 (Optional) Install Octaplane Stacking Module
5 (Optional) Connect Media Gateways
6 (Optional) Install S8300 Media Server
7 Install Media and Expansion Modules
8 Install Modem
9 (Optional) Install UPS
10 Apply Power
11 Connect the Laptop

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Safety Instructions

Audience

The intended audience for the documentation for this product is trained service personnel.

Admonishments

Admonishments used in the documentation for this product have the following meanings:

⚠ CAUTION:
Indicates the presence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided.

⚠ WARNING:
Indicates the presence of a hazard that can cause death or severe personal injury if the hazard is not avoided.

Power Requirements

The G700 Media Gateway uses an auto-ranging 100-240 VAC power supply, 50 to 60 Hz, 5 A maximum at 100-120 VAC and 3 A maximum at 200-240 VAC. The AC power source is to be single phase, 3-conductor (Line, Neutral and Ground) with a 15 A circuit breaker for 100-120 VAC or a 10 A circuit breaker for 200-240 VAC.

⚠ WARNING:
Do not overload the power circuit.

Electrical Hazards

⚠ WARNING:
To prevent access to electrical hazards by unauthorized personnel and to ensure continued compliance to international radiated emissions requirements, all captive screws must be securely tightened such that they cannot be loosened without the use of a tool.

⚠ WARNING:
The Avaya G700 Media Gateway must not be operated with any slots open. Empty slots should be covered with the supplied blank plates.

Grounding

⚠ CAUTION:
System grounding must comply with the general rules for grounding provided in Article 250 of the National Electrical Code (NEC), National Fire Protection Agency (NFPA) 70, or the applicable electrical code in the country of installation.

⚠ WARNING:
If the installation location is greater than 50 feet (15 m) from an approved ground, do not install the Avaya G700 Media Gateway until a licensed electrician is present to install a Supplementary Ground Conductor.

WARNING:
Failure to install both grounds will void the Product Safety certifications (UL and the CE Mark) on the product and create a hazard that could result in death or severe personal injury.

LASER Product

The equipment described in the documentation for this product may contain Class 1 LASER Device(s). The LASER devices operate within the following parameters:

- Power output –9.5 dBm to -4 dBm
- Wavelength 1285 nm to 1343 nm

CLASS 1 LASER PRODUCT EN 60825-1:1994 + A11, EN60825-2:194, EN60950:1992 + A1 + A2 + A3.

Laser components used in the G700 are Class 1 Laser Products that comply with 21CFR 1040.10 and CFR 1040.11. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Contact your Avaya representative for more laser product information.

Luokan 1 Laserlatte

Klass 1 Laser Apparat

Rack-Mounting

WARNING:
Warning: if the rack is not securely fixed in place, do not proceed with the installation.

WARNING:
Balancing the G700 Media Gateway requires two people. Use caution to avoid injury.

WARNING:
If the G700 Media Gateway is being mounted in a rack with other equipment already installed, the G700 Media Gateway must be positioned to avoid imbalance.

Technical Specifications

Table 1. Technical Specifications

Chassis Dimensions					
Height	2U (3.5 in)	88 mm	Depth	17.7 in	450 mm
Width	19 in	482.6 mm	Weight empty	22.25 lbs	10 kg
			Weight (with media modules)	27-34 lbs	12-16 kg
Required Clearances					
Front	12 in	30 cm	consistent with EIA 464 data rack standards		
Rear	18 in	45 cm			
Temperature Tolerances					
Recommended		65 to 85 deg Farenheit		18 to 29 deg Celsius	

WARNING:
Installation in a Restricted Access Location is required in Finland and Norway.

1 Get License File, Software, and Firmware

The following activities must take place before you can install an Avaya S8300 Media Server with an Avaya G700 Media Gateway:

- A meeting is held with the customer to complete the Preinstallation Worksheet. The Preinstallation Worksheet contains specific information about the customer's network configuration and telephony requirements. This information is required to use the Avaya Installation Wizard to configure the Avaya IP solution.
- The following steps are completed to retrieve the required license files and password files from Remote Feature Activation (RFA):

  1 - For an S8300 Media Server as a primary controller only, one license file with FEAT_DADMIN on must be retrieved by selecting FEAT_DADMIN on the RFA Features screen.

  2 - For an S8300 primary controller installation completed by an Avaya technician (not required for installations completed by Avaya authorized dealer technicians), a second license file with FEAT_DADMIN off must be retrieved by clearing the FEAT_DADMIN selection on the RFA Features screen. The Modify System Record function is used to create the second license file. This step is not required for installations completed by Avaya authorized dealer technicians.

  Note: *Each license file must be labeled carefully because the files will be used at different points in the installation process.*

  3 - The password file is retrieved.

- The most recent versions of software and firmware are retrieved from the support.avaya.com website. The firmware updates must be uploaded onto the S8300 Media Server. The Avaya Communication Manager update can be uploaded onto the S8300 Media Server or can remain on the laptop PC used for the Avaya Installation Wizard.

  Important: *To use the Avaya Installation Wizard, Release 1.1.2 or later of the Communication Manager must be on the S8300 Media Server. If a pre-1.1.2 release of the Communication Manager is installed on the S8300 Media Server, the software must be upgraded before the Avaya Installation Wizard can be used.*

- If you are using the Avaya Installation Wizard, get the customer's name and number file and the customer's electronic Preinstallation Worksheet from your installation project manager. Copy these files to your laptop. You may also receive a template for setting up customer telephony parameters. The Preinstallation Worksheet contains instructions for the worksheet and the Name/ Number Files.
- The technician is advised if ProVision will be used in addition to the Avaya Installation Wizard. ProVision can be used to upload all of the *Communication Manager* translations, or a subset of the translations. Information on the Avaya Installation Wizard options for ProVision is in the Preinstallation Worksheet.

1 Get License File, Software, and Firmware

Once you have verified that all activities are completed, you can begin product hardware installation following instructions in this *Quick Start Avaya™ S8300 Media Server and Avaya™ G700 Media Gateway Hardware Installation* guide.

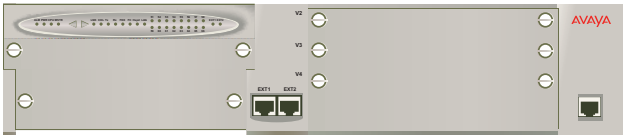
Note: *The laptop PC that you use to launch the Avaya Installation Wizard must meet the following requirements:*

- A minimum display resolution of 800 by 600
- 10/100 ethernet card installed
- Windows 95 or later
- Internet Explorer 5.0 or later

Note: *The current release of the Avaya Installation Wizard supports only an English-language operating system.*

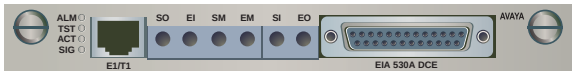
Once you complete all Avaya Installation Wizard steps, you can use VisAbility products to further customize software (optional). The registration file can be sent to the organization that currently registers this product in lieu of current registration documentation.

2 Conduct Equipment Inventory



Avaya G700 Media Gateway

Avaya S8300 Media Server



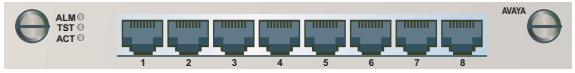
Avaya MM710 T1/E1 Media Module

Avaya IA770 Messaging Module

Avaya MM760 VoIP Media Module

DCP Media Module

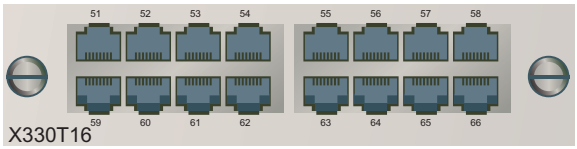
Note: *The DCP and the Analog media modules look similar. Check their labels to verify the module type.*



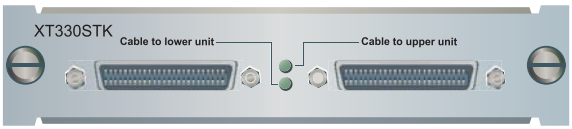
Avaya MM711 Analog Media Module

Note: *The Analog and the DCP media modules look similar. Check their labels to verify the module type.*

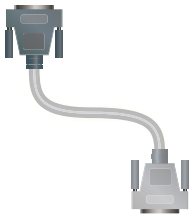
2 Conduct Equipment Inventory



Expansion Module



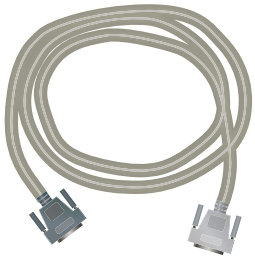
X330STK Octaplane Stacking Module



X330SC Short Cable

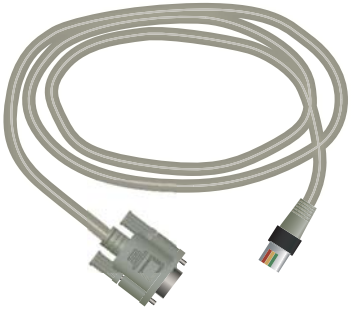
Note: *The X3300SC Short Cable is sometimes shipped attached to the X3300STK Octaplane Stacking Module.*

X3300RC Redundancy Cable

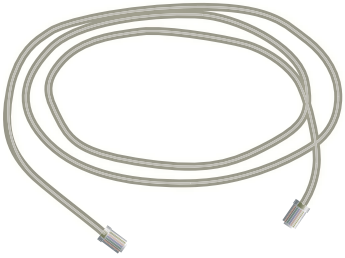


X3300 LC Long Cable

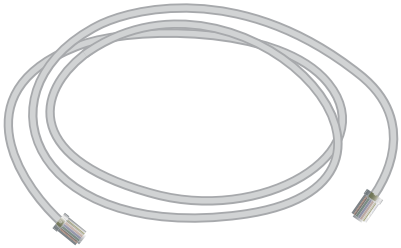
2 Conduct Equipment Inventory

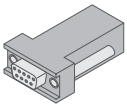


USB Cable and Adapter



Crossover Ethernet Cable (CAT5)





Serial or "Console" Cable and Adapter

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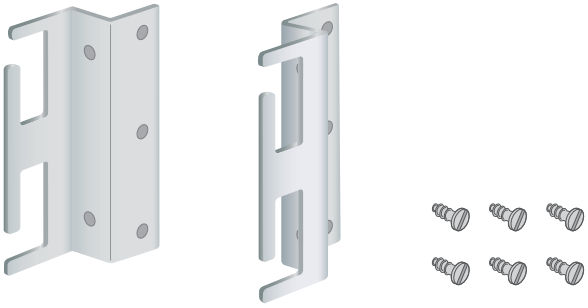
2 Conduct Equipment Inventory

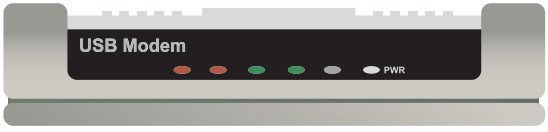
Uninterruptable Power Supply (UPS), Optional

Note: *A Stand-alone version of the Uninterruptable Power Supply (UPS) is shown.*

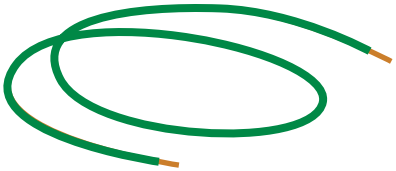


Screw Packet and Rack Mount Brackets

Note: *.There are four sizes of lock-washer screws in the packet for attaching the brackets to the rack. Use the appropriate size screws to match the specific hole size of the rack.*

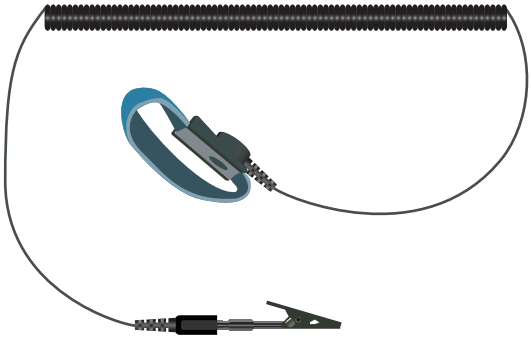


Modem



Groundwire

2 Conduct Equipment Inventory



Anti-Static Wrist Ground Strap (ESD)

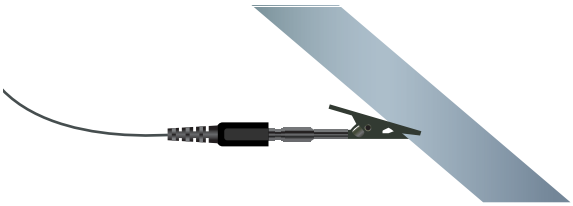
> ***Note:*** *The Anti-Static Wrist Ground Strap (ESD) is not shipped with the product and must be supplied by the technician.*

Power Cord

Feet

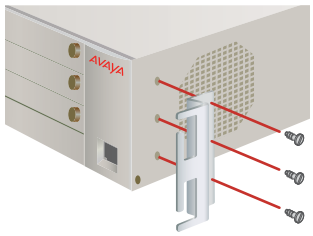
2 Conduct Equipment Inventory

3 Mount Media Gateway



1

Wear an anti-static ground wrist strap and attach to an approved ground.



2

For rack mount, install the mounting brackets using flathead screws from the screw packet.

3

Lift media gateway and mount in a rack.

⚠ DANGER

- *The weight of the media gateway is unevenly distributed and may require two persons to mount in the rack.*

3 Mount Media Gateway

4

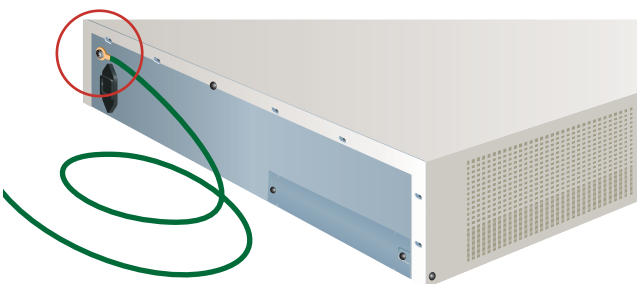
For desktop mount. Install feet using plastic push rivets.

5

Lift media gateway and place on desktop.

⚠ DANGER

- *The weight of the media gateway is unevenly distributed and may require two persons to lift and place on the desktop.*



6

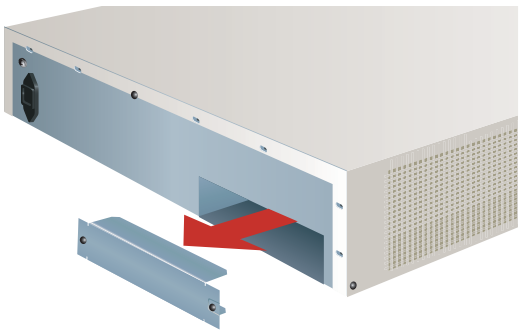
Connect the ground wire to the ground conductor on the back of the media gateway.

7

Attach the other end of the ground wire to an approved ground.

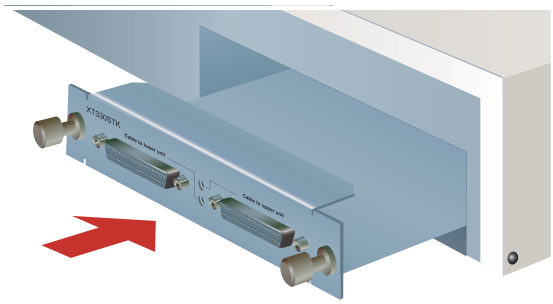
4 Install Octaplane Stacking Module

Note: *Complete this step only if you are connecting more than one G700 Media Gateway in a stack configuration.*



1

From the back of the media gateway, remove the blank faceplate from the media module slot.

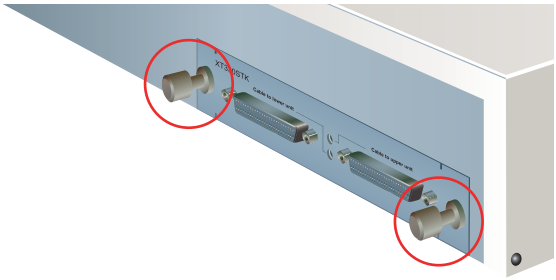


2

Align the X330STK Octaplane Stacking Module with the interior guides and insert until firmly seated

⚠ WARNING

To prevent damage to equipment, handle module by faceplate or edge.



3

Tighten the captive screws.

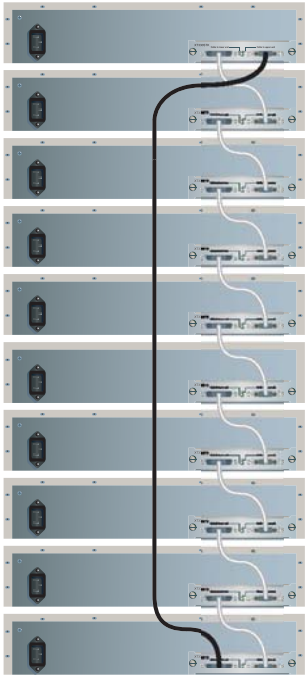
5 Connect Media Gateways

Note: *Complete this step only if you are connecting more than one G700 Media Gateway in a stack configuration.*

1

Using the gray X330SC short cables, connect the media gateways from the bottom up:

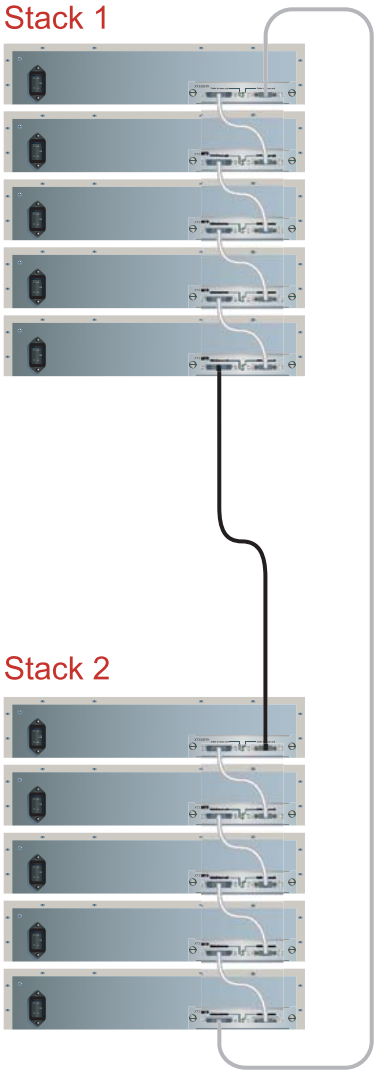
- *Connect the light gray connector to the port labeled “Cable to upper unit.”*
- *Connect the dark gray connector to the port labeled “Cable to lower unit.”*
- *Repeat both steps until all units in the stack are connected (maximum of 10 units).*



2

For single stack redundancy, connect the bottom unit and the top unit using the black X330RC redundancy cable:

- *Connect the light gray connector to the port labeled “Cable to upper unit: on the top unit of the stack.*
- *Connect the dark gray connector to the port labeled “Cable to lower unit” on the bottom unit of the stack.*



3

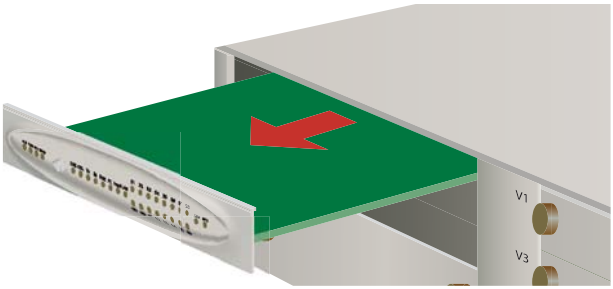
For multiple stack redundancy, connect the stacks using the black X330RC redundancy cable and the gray X330LC long cable:

- *Connect the light gray connector of the black X330RC redundancy cable to the port labeled “Cable to upper unit” on the top unit of the stack 2.*
- *Connect the dark gray connector of the black X330RC redundancy cable to the port labeled “Cable to lower unit” on the top unit of the stack1.*
- *Connect the light gray connector of the gray X3300LC long cable to the port labeled “Cable to upper unit” on the top unit of the stack 1.*
- *Connect the dark gray connector of the gray X330LC long cable to the port labeled “Cable to lower unit” on the bottom unit of the stack 2.*

6 Install S8300 Media Server

1

From the front of the G700 Media Gateway, remove the blank faceplate from slot V1.



2

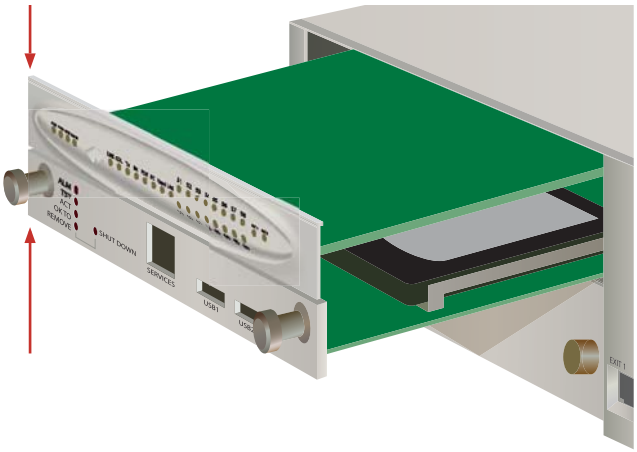
Remove the LED module and place in an anti-static bag.

3

Optional. Using the instructions packaged with the IA770 Messaging Module, attach the IA770 module to the S8300 Media Server.

4

Align the S8300 Media Server with the lower interior guides and insert about 2" into slot V1.



5

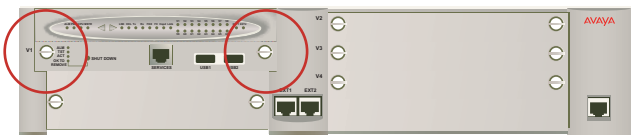
Align the LED module with the upper interior guides and insert until the faceplate is flush with the S8300 Media Server.

6

Continue inserting both modules together until firmly seated.

⚠ WARNING

Failure to seat both modules together could result in equipment damage.



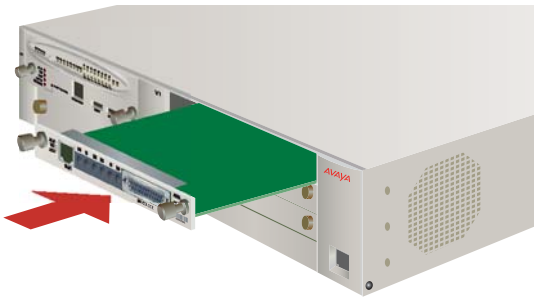
7

Tighten the captive screws on the S8300.

Note: *In each gateway, a single expansion module may be installed. The expansion module can be installed in the lower left slot only. If the S8300 is installed, a maximum of 3 media modules can be installed in each gateway. In this case, media modules can be installed in the right slots only, starting from the top. If no S8300 is installed, four media modules can be installed, with one media module using the upper left Slot 1.*

1

For installation of the media module(s), from the front of the G700 Media Gateway remove the upper right blank faceplate.

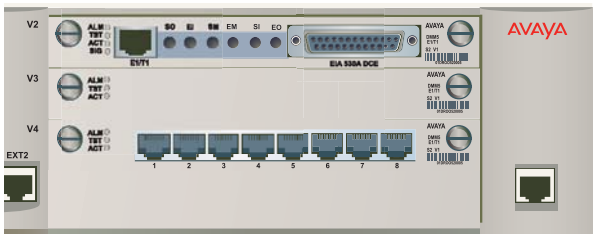


2

Align each media module with the interior guides and insert into slot until firmly seated.

3

Tighten the captive screws.



4

Repeat steps 1 through 3 for each required type of media module.

5

Optional. For installation of the expansion module, from the front of the G700 Media Gateway remove the lower left blank faceplate.

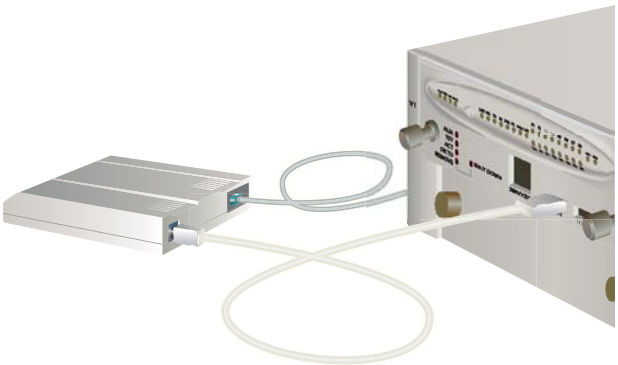
6

Align the expansion module with the interior guides and insert into slot until firmly seated.

7

Tighten the captive screws.

8 Install Modem



1

From the front of the S8300 Media Server, connect the USB cable to either USB port.

2

Following the instructions packaged with the modem, connect the other end of the USB cable to the modem.

3

Connect the analog telephone line to the RJ-11 jack on the modem.

8 Install Modem

9 Install UPS

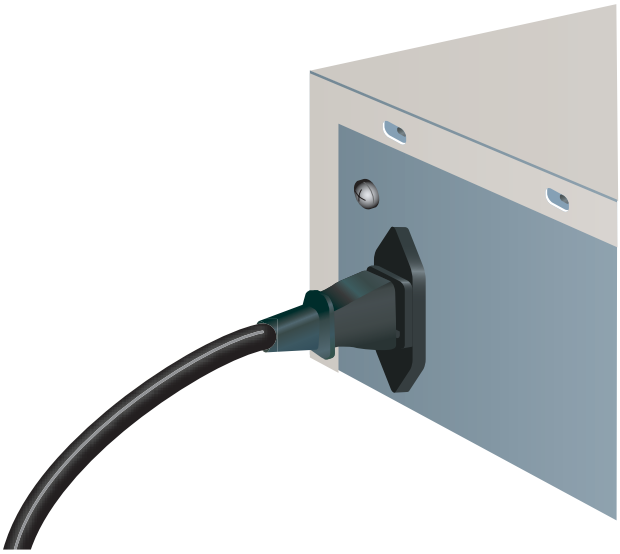
1

Optional. From the back of the G700 Media Gateway, connect the UPS using the manufacturer's instructions.

> ***Note:*** *A stand-alone version of the Uninterruptable Power Supply (UPS) is shown.*

9 Install UPS

10 Apply Power



1

Apply power to each media gateway by connecting the power cord.

⚠ WARNING

There is no on/off switch. The units will power up when connected.

11 Connect the Laptop

1

From the front of the S8300 Media Server, connect the crossover Ethernet cable to the Services port.

2

Connect the other end of the cable to the Ethernet port on the laptop.

3

Power on the laptop.

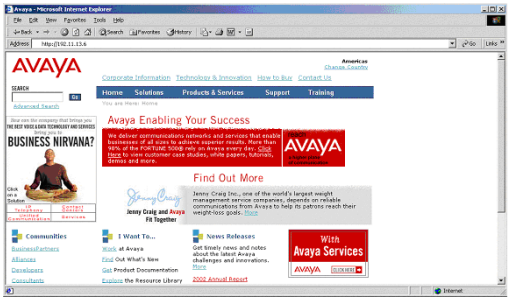
4

Verify the Services network settings:

a. IP Address: 192.11.13.5
b. Subnet Mask: 255.255.255.252
c. Domain Name Service (DNS): disabled.

5

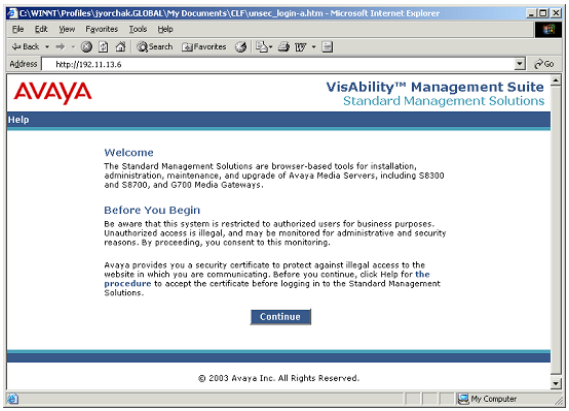
Open MS Internet Explorer and disable the Proxy Server.



6

In the browser address field, initiate access to the S8300 by typing in lower case:

http://192.11.13.6

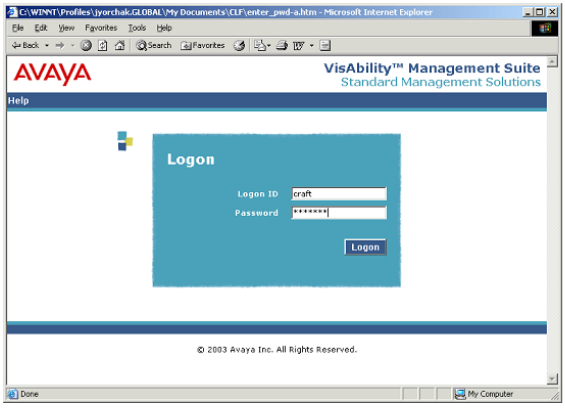


7

Click **Continue** to access the Logon page.

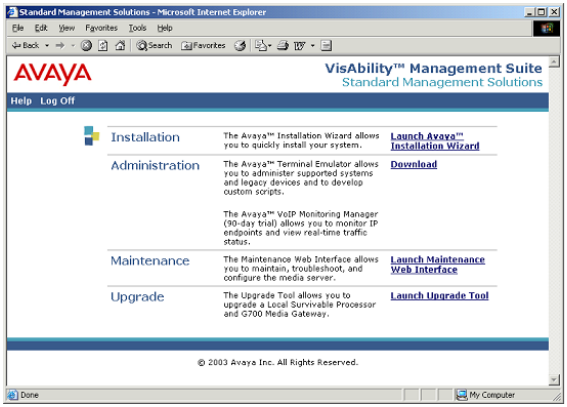
8

Click **OK** or **Yes**, as appropriate, for any security pages that may appear prior to the Logon page.



9

Log in to the S8300 Media server with the **craft** login and password for initial installation.



10

If you are using the Avaya Installation Wizard, click on **Launch Avaya Installation Wizard** and continue.

If you are *not* using the Avaya Installation Wizard, refer to the document, *Avaya™ G700 Media Gateway Controlled by an Avaya S8300 or S8700 Media Server*, 555-234-100, for additional instructions.