Job Aid

Pre-Installation Information—S8700 Media Server

Avaya™ S8700 Media Server with MCC1 or SCC1 Media Gateway
Avaya™ S8700 Media Server with G600 Media Gateway

This job aid provides the information, hardware requirements, and computer hardware and software specifications necessary for installing an Avaya™ S8700 Media Server with either MCC1/SCC1 Media Gateways or G600 Media Gateways. It covers the following items:

Required information

Before going on site, make sure the customer has a local area network set up and running and a network administrator available the day of the installation. Before beginning the installation, refer to the filled-out job aid entitled *Pre-Installation Network Planning Forms—S8700 Media Server*.

Site Requirements

The Avaya S8700 Media Server control network components consist of the 2 media servers, the Ethernet switch(es), and the 2 UPSs. These components are designed to be mounted in an open (not a cabinet), standard 19-in. (48-cm) equipment rack. We do not recommend a rack cabinet as it may not allow sufficient ventilation.

The customer is responsible for providing sturdy racks built to the EIA 310D (or equivalent) standards and installing, securing, and grounding them per local code and rack specifications *before* the equipment is mounted in them. The rack must be rated at a minimum of 200 pounds (90 kilograms). Make sure that the rail kits, required to support the very heavy UPSs, are installed on the rack or available for installation. The customer must also provide AC power to the rack from a nonswitched outlet.

Equipment Specifications

This section provides specifications for the control network components and the media gateways.

Control Network Components

The Avaya S8700 Media Server control network components consist of the 2 media servers, the 1 or 2 Ethernet switch(es), and the 2 UPSs. See ‘‘Control Network Components Specifications’’.

Control Network Components Specifications

Compenent	Dimensions English (in.)	Metric (cm)	Us (height in rack)	Weight (lb/kg)
Media Server	3.5h x 17d x 17w	9h x 43d x 43w	2	25/11
Ethernet Switch: P133G2/P134G2 P333T/334T	 3.5h x 14d x 19w 3.5h x 18d x 19w	 9h x 35d x 48w 9h x 45d x 48w	 2 2	 11,13/5,6 16.5/7.5
UPS: 700 VA 1500 VA	 3.5h x 19d x 17w 3.5h x 24d x 17w	 9h x 48d x 43w 9h x 30d x 43w	 2 2	 34/15 50/23

The internal room temperature must not exceed 43 deg C (110 deg F)

Media Gateways

The Avaya media gateways should be installed in a well-ventilated area. Maximum equipment performance is achieved at an ambient temperature between 40 and 120 deg F (4 and 49 deg C) for a short-term operation (not more than 72 consecutive hours or 15 days in a year) and up to 110 deg F (43 deg C) for continuous operation. The relative humidity range is 10% to 95% at up to 84 deg F (29 deg C).

The other Environmental Considerations and System Protection requirements described in the Online Guide *Avaya MultiVantage Solutions Hardware Guide* under "Site Requirements" apply to the Avaya media gateways.

‘‘Media Gateway Specifications’’ below provides the dimensions for 3 types of media gateways. Refer to the *Avaya MultiVantage Solutions Hardware Guide* for more detailed information.

Media Gateway Specifications

Media Gateway	Dimensions English (in.)	Metric (cm)	Us (height in rack)	Weight(lb/kg)
MCC1	70h x 28d x 32w	178h x 71d x 81w	NA	200–800/90–363
SCC1	20h x 22d x 27w	51h x 56d x 69w	NA	125/56
G600	12h x 22d x 19w	30h x 56d x 48w	7	35–39/16–18

Avaya MCC1 Media Gateway

Installation requires 38 inches (97 centimeters) of clearance in the rear and at least 3 feet (91 centimeters) of clearance in the front of the cabinet to permit the door to open.

Avaya SCC1 Media Gateway

Installation requires 16 inches (41 centimeters) of clearance in the rear, and 3 feet (91 centimeters) of clearance in the front.

Avaya G600 Media Gateway

The Avaya G600 Media Gateway can be mounted at its midpoint by removing the mounting brackets and remounting them at a medial position.

Installation requires 12 inches (30 centimeters) of clearance in the rear, and 18 inches (45 centimeters) of clearance in the front, which is consistent with the EIA 310D data rack standards. In a multiple media gateway configuration, the dimensions of the TDM/LAN cable require that media gateways be mounted directly over each other (flush). For information on the power sources, see ''Chassis Power Source Information''. and ''Circuit Breakers for AC-Powered Chassis''

Chassis Power Source Information

Chassis Style and Power Distribution Unit	Power Source Options	Power Input Receptacles
Avaya G600 Media Gateway: AC power supply (650A integrated power supply) There is no integrated DC power supply. DC rectifiers can be used if desired; follow manufacturer's instructions.	Single phase 120 VAC with neutral wire Single phase 240 VAC with neutral wire	120 VAC, 60 Hz NEMA 5-15R 240 VAC, 50 Hz IEC 320 Japan installations use country specific receptacles for 100 and 200 VAC, 50/60 Hz Mexico installations use country specific receptacles for 127 VAC

Circuit Breakers for AC-Powered Chassis

Chassis Type	Circuit Breaker Size
Rack Mount Chassis (120 VAC) 60 Hz	15 A
Rack Mount Chassis (240 VAC) 50 Hz	10 A

Required hardware

Before beginning the process, make sure you have the hardware listed in ‘‘List of Required Hardware—Control Network’’ and ‘‘List of Required Hardware—SCC1/MCC1 Media Gateways’’ or ‘‘List of Required Hardware—G600 Media Gateway’’on hand.

List of Required Hardware—Control Network

Comcode	Description	Number
700169246	Avaya S8700 Media Server	2
408357002 408427409 700181928	Powerware 9125 uninterruptible power supply (UPS) – US & Canada – International – Japan	2
700230733 700230741	Rail kits for mounting UPSs in rack – 2-post rack (Powerware code: 05141562-0021) – 4-post rack (Powerware code: 05146726-5501)	2
408427656	SNMP Network Interface Adapters for UPS	2
108563123 108644451	10/100BaseT Ethernet switch (if Avaya supplied) – Avaya Ethernet P333 switch – Avaya Ethernet P334 switch	1 or more
700169121	External V.90 56K USB modem with cable (if used)	2
700181050	128-MB PCMCIA PCCARD flashdisk (formatted)	2
700237332	Avaya MultiVantage Software CD	1
700252828	Avaya S8300 and S8700 Media Server Library CD (555-233-824)	1
700170012 700178056 700178064	Green CAT5 Ethernet cables – 5-meter (16 feet) – 25-meter (82 feet) – 50-meter (164 feet)	 4 2-68 2-68
700169998	Blue CAT5 Ethernet crossover cable for duplication	1
700179898	Yellow single-mode fiber optic cable	1
700170053	Black CAT5 Ethernet crossover cable for laptop computer	1

List of Required Hardware—SCC1/MCC1 Media Gateways

Comcode	Description	Number
J58890X-1, List 1, 4	Avaya Media Gateway	1-44
108774696	TN2312AP IP Server Interface circuit pack	1-44
700071251	IPSI Amphenol adapter (new installation only)	1/IPSI
700055015	TN799DP Control LAN circuit pack (if needed)	1-64
102631413	Control LAN Amphenol adapter (259A)	1/CLAN
108774696	TN2302AP IP Media Processor circuit pack	1-200
848525887	Media Processor Amphenol adapter	1/MedPro
700168727	Cable - IPSI to Maintenance MCC A carrier (Migration only)	1-44
700168735	Cable - IPSI to Maintenance MCC B carrier to A carrier (Migration only)	1-44
700168727	Cable - IPSI to Maintenance SCC A carrier (Migration only)	1-44
700168834	Cable - IPSI to Maintenance SCC B cabinet to A cabinet (Migration only)	1-44

List of Required Hardware—G600 Media Gateway

Comcode	Description	Number
J58890X-1, List 1, 4	Avaya G600 Media Gateway (control)	1-64
J58890X-1, List 1, 2	Avaya G600 Media Gateway (port)	1-192
700017924 700017916 700207111	TDM Kit – TDM cable and EMI Gasket Installation Instructions – Rack Mounting Template – Circuit pack label	1-192
108774696	TN2312AP IP Server Interface circuit pack	1/PN
700071251	IPSI Amphenol adapter	1/IPSI
700055015	TN799DP Control LAN (C-LAN) circuit pack	1 or more
102631413	C-LAN 259A Adapter	1/C-LAN
108774696	TN2302AP IP Media Processor circuit pack	1-200
848525887	Media processor adapter	1/MedPro

Computer specifications

The computer used for configuring the hardware must have the following minimum specifications:

- Windows 95/98/NT4.0/2000/XP/ME operating system
- 32-MB RAM
- 40-MB available disk space
- RS-232 port connector
- Network interface card (NIC) with a 10/100 BaseT Ethernet interface
- Ethernet crossover cable (MDI to MDI-X)
- CD-ROM drive

It must also have the following software installed:

- FTP program
- Telnet program
- Terminal emulation program (HyperTerminal or Avaya Terminal Emulation)
- TCP/IP networking software (comes with Windows OS)
- Web browser (Netscape 4.7.x [Netscape 6 is not currently supported] or Internet Explorer 5.x or higher only)

It must have the following files available:

- License and Avaya Authentication (pasword) files. These must be downloaded from the Remote Feature Activation (RFA) Web site.

The terminal emulation program port settings must be configured as follows:

- 9600 baud rate
- No parity
- 8 bits
- 1 stop bit

Network Configuration

A new network connection must be configured as follows:

NOTE:
Write down the original settings in case you need to change them back.

Windows 95/98/NT4.0/ME

1. On your desktop right-click **Network Neighborhood > Properties** to display the Network dialog box.
2. In the window select the TCP/IP that corresponds to your Ethernet card.
3. Click **Properties**.
4. Select **Specify an IP address**:
5. IP address: 192.11.13.5
6. Subnet Mask: 255.255.255.252
7. Click **OK, OK** to accept the information and close the windows.
8. Reboot the computer to effect the changes.

Windows 2000/XP instructions:

1. On your desktop (under Start for XP) right-click **My Network Places > Properties** to display the Network and Dial-up Connections window.

   Windows 2000 should have automatically detected the Ethernet card in your system and created a LAN connection for you. More than one connection may appear.
2. Right-click on the correct **Local Area Connection > Properties** to display the Local Area Connection Properties dialog box.
3. Select Internet Protocol (TCP/IP).
4. Click the Properties button to display the Internet Protocol (TCP/IP) Properties dialog box.
5. On the General tab, select "Use the following IP address." Enter the following:

   IP address: 192.11.13.5

   Subnet mask: 255.255.255.252

   Make a note of any IP addresses or other entries that you have to clear. You may need to restore them later to connect to another network.
6. Select "Use the following DNS server addresses." The entries for Preferred DNS server and Alternate DNS server should both be blank.
7. Click the Advanced button at the bottom of the dialog box to display the Advanced TCP/IP Settings dialog box.
8. Click the **DNS** tab. Make sure no DNS server is administered (the address field should be blank).