

# Pre-Installation Network Worksheet—S8700 Multi-Connect



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## S8700 Media Server for Multi-Connect Configuration

Before you install and configure an Avaya media server, complete the preinstallation worksheet for the Multi-connect configuration.

Allow up to 4 hours to complete the worksheet. If you do not have this information complete, **DO NOT BEGIN THE SERVER CONFIGURATION. DO NOT GUESS AT THESE NUMBERS.** To do so could corrupt the customers network.

Review this worksheet with and get the data to fill it out from the customer corporate **LAN administrator**.

Default values are shown in braces.

- The administrator may require you to change IP addresses to prevent conflicts with existing endpoints on the corporate LAN. Make precise notes of any changes and follow instructions exactly.

### **CAUTION:**

*It is crucial to coordinate the IP addresses that will be used with your Avaya media server with those on the enterprise LAN. If you specify an Ethernet address for the Avaya server component that conflicts with another Ethernet endpoint, the resulting problems with traffic on the local area network may be extremely difficult to diagnose and solve.*

This worksheet is made of sections as follows:

- [QoS Policy](#)
- [License and Registration Data](#)
- [Avaya S8700 media server for multi-connect configuration worksheet](#)
- [Other Media Server complex components](#)
- [Other Interfaces - Not in the S8700 Media Server complex](#)

## QoS Policy

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The network administrator must define the quality policy for telephony applications on the corporate enterprise network.

## QoS Design Background

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Will VLANs and Priority be used? (Y/N)\_\_\_\_\_

If Yes:

- What priority (6 recommended)\_\_\_\_\_
- What VLAN(s)\_\_\_\_\_
- (Show VLAN assignment by Subnet if not consistent across the Corporate Enterprise LAN)
- Will VLAN IDs for the server be tagged in the telephony product or by the Ethernet switch?\_\_\_\_\_
- Will priority be tagged in the telephony product or by the Ethernet switch?\_\_\_\_\_
- Will VLAN IDs for the IP telephones be tagged by the telephones or by the Ethernet Switch?\_\_\_\_\_
- \_\_\_\_\_
- (If by Ethernet switch, configure VLAN IDs in the DHCP server)

Will Diffserve be used on IP connections?\_\_\_\_\_

- What Diffserve Value for Telephony will be used?\_\_\_\_\_
- (Recommend 46)
- What Refresh time?\_\_\_\_\_
- What Retry?\_\_\_\_\_
- What Profile?\_\_\_\_\_

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## License and Registration Data

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The following information will be required when using either the Remote Feature Activation (RFA) web site or the Automatic Registration Tool (ART) web site.

### RFA Data

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SAP Order number: \_\_\_\_\_

Serial Number of 'Reference' TN2312 IP Server Interface (IPSI) circuit pack: \_\_\_\_\_

This serial number may not be available until delivery of equipment. This serial number is used in the creation of the license file that will be used on the S8700 Media Server. The IPSI circuit pack that will be closest, from a logical data point of view, to the media servers should be selected. This will decrease the amount of intervening equipment that could cause a lapse in communication with the reference IPSI.

#### NOTE:

Product/alarm ID (PID) numbers will be obtained by RFA and incorporated into the S8700 servers via the license file.

### Automatic Registration Tool Data

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Full telephone number for the line used to access the S8700 Media Servers modems: \_\_\_\_\_

ART needs this information to generate a skeleton MAESTRO record for the S8700 Media Server installation. ART will provide the following information to the user:

- Two Avaya IP addresses to configure into the servers. See item(s) 7a, 7b under the [“For the Set Modem Interface screen \(7x\)”](#) on page 11

### Software Release - Patches - Firmware Versions

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Enter the software release that should be installed on the S8700 Media Servers: \_\_\_\_\_

Enter any patches that should be installed on the S8700 Media Servers: \_\_\_\_\_

Enter the firmware version that should be installed on the TN2312 IPSI boards: \_\_\_\_\_

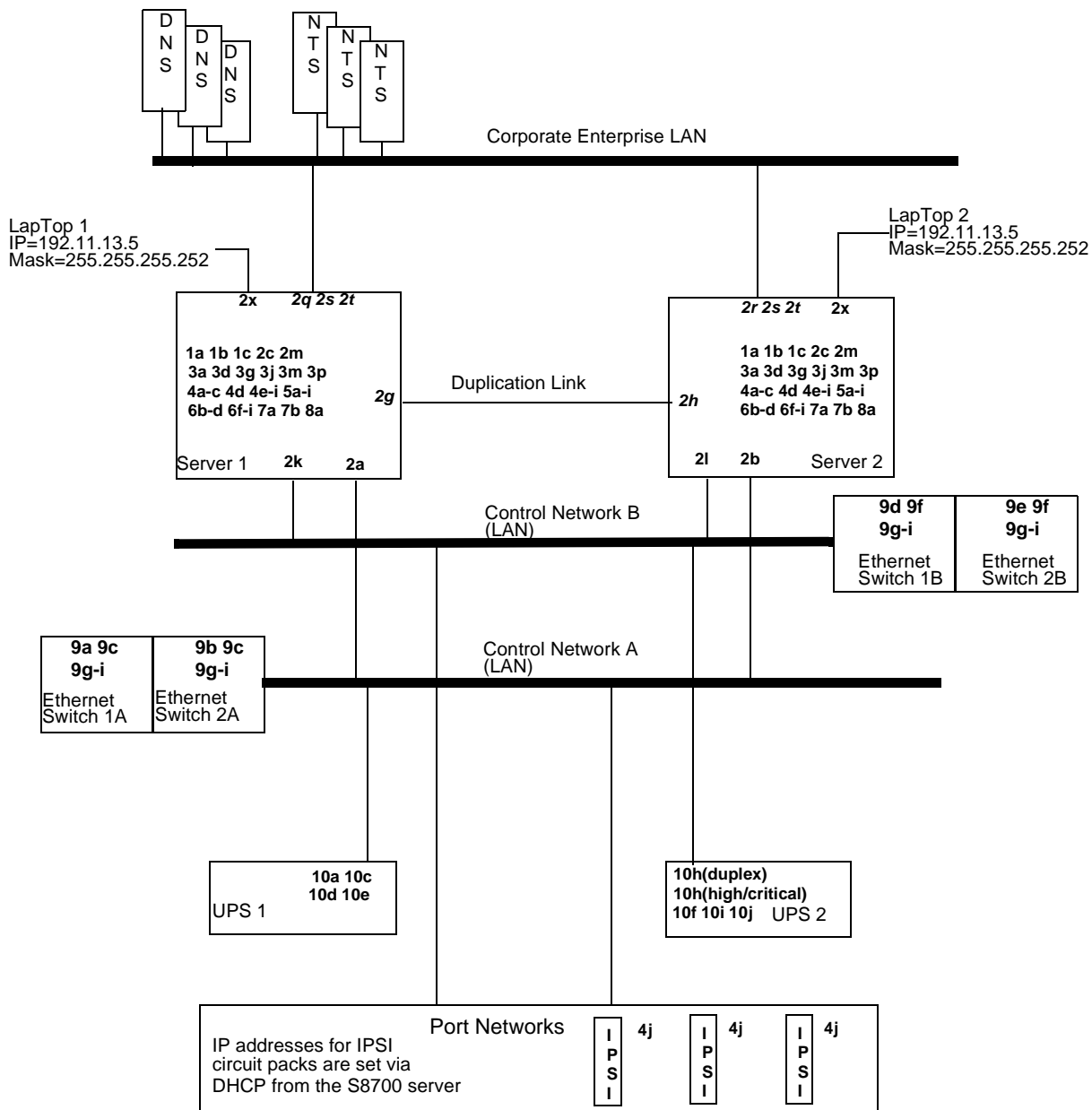


Figure 1. Multi-Connect Component Connectivity

## **Avaya S8700 media server for multi-connect configuration worksheet**

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The worksheet items are arranged in the order in which they are needed during server configuration. For an illustration of these items, see Figure above. Each entry is identified with an alphanumeric reference. IP address entries are shown in “Multi-Connect Component Connectivity” on page 4 by their reference number.

### **For the Set Server Identities Screen**

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#### **⇒ NOTE:**

Server number 1 & 2 must be on the same subnet (be sure to configure both servers)

#### **Server names (1x)**

These should also be administered on any relevant corporate DNS servers. This information must be supplied by the corporate LAN administrator. Do not guess at a name, it could conflict with an existing name.

**1a** Name of server 1: \_\_\_\_\_

**1b** Name of server 2: \_\_\_\_\_

**1c** Active server name: \_\_\_\_\_

#### **Ethernet interface functions (1x)**

Control network B is only used for high- and critical-reliability configurations; the others are always present.

#### **⇒ NOTE:**

**For Ethernet interface functions, always use the defaults unless specifically instructed to do otherwise. Physical cabling will have to match what is entered here.**

**1d** Function assigned to Ethernet 0: {control network A} \_\_\_\_\_

**1e** Function assigned to Ethernet 1: {services laptop} \_\_\_\_\_

**1f** Function assigned to Ethernet 2: {duplication link} \_\_\_\_\_

**1g** Function assigned to Ethernet 3: {control network B} \_\_\_\_\_

Note In a duplex configuration this Ethernet port should be set to {Unused}

**1h** Function assigned to Ethernet 4: {corporate LAN} \_\_\_\_\_

**For the Configure Ethernet Interfaces screen (2x)**

**Ethernet 0 default addresses (for control network A):**

**2a** Server 1 IP address on control network A: {198.152.254.201} \_\_\_\_\_

The same data will be entered at **10c, 10h(Duplex)**

**2b** Server 2 IP address on control network A: {198.152.254.202} \_\_\_\_\_

**2c** Active server IP address on control network A: {198.152.254.200} \_\_\_\_\_

The same data will be entered at **9c**

**2d** Subnet mask for control network A: {255.255.255.0} \_\_\_\_\_

**2e** Speed of link (10 or 100 megabit, full or half duplex): {autosense} \_\_\_\_\_

**2f** VLAN 802.1q priority tagging: {off} \_\_\_\_\_

Note: Tagging should be set the same on both control networks

**Ethernet 2 default addresses (for duplication link):**

**2g** Server 1 IP address on duplication link: {192.11.13.13} \_\_\_\_\_

**2h** Server 2 IP address on duplication link: {192.11.13.14} \_\_\_\_\_

**2i** Subnet mask for the duplication link: {255.255.255.252} \_\_\_\_\_

**2j** Speed of link (100 megabit, full duplex): {autosense} \_\_\_\_\_

**Ethernet 3 default addresses (for control network B, if present):**

**2k** Server 1 IP address on control network B: {198.152.255.201} \_\_\_\_\_

**2l** Server 2 IP address on control network B: {198.152.255.202} \_\_\_\_\_

The same data will be entered at **10h (High/Critical)**

**2m** Active server IP address on control network B: {198.152.255.200} \_\_\_\_\_

The same data will be entered at **9f**

**2n** Subnet mask for control network B: {255.255.255.0} \_\_\_\_\_

**2o** Speed of link (10 or 100 megabit, full or half duplex): {autosense} \_\_\_\_\_

**2p** VLAN 802.1q priority tagging: {off} \_\_\_\_\_

Note: Tagging should be set the same on both control networks

**Ethernet 4 addresses (for corporate LAN, no default values):**

**2q** Server 1 IP address on the corporate LAN: \_\_\_\_\_

**2r** Server 2 IP address on the corporate LAN: \_\_\_\_\_

**2s** Active server IP address on the corporate LAN: \_\_\_\_\_

**2t** Gateway IP address for the corporate LAN: \_\_\_\_\_

**2u** Subnet mask for the corporate LAN: \_\_\_\_\_

**2v** Speed of link (10 or 100 megabit, full or half duplex): {autosense} \_\_\_\_\_

**2w** VLAN 802.1q priority tagging: {off} \_\_\_\_\_

**Ethernet 1 addresses are fixed for the services (laptop) interface:**

**⇒ NOTE:**

This address and subnet mask are fixed and not changeable.

**2x** Service IP address for every Avaya media server: 192.11.13.6

Subnet mask for the laptop link: 255.255.255.252

**For the Control Switches and UPS screen (3x)**

**Specify the Ethernet switches for each control network**

Two may be two used per control network if there are a large number of port networks.

Number of Ethernet switches per control network: {1} \_\_\_\_\_

**3a** Ethernet switch 1 IP address on control network A: {198.152.254.240} \_\_\_\_\_

The same data will be entered at **9a**

**3b** SNMP GET (read) community string: {public} \_\_\_\_\_

**3c** SNMP SET (write) community string: \_\_\_\_\_

**3d** Ethernet switch 2 IP address on control network A: {198.152.254.241} \_\_\_\_\_

The same data will be entered at **9b**

**3e** SNMP GET (read) community string: {public} \_\_\_\_\_

**3f** SNMP SET (write) community string: \_\_\_\_\_

**3g** Ethernet switch 1 IP address on control network B: {198.152.255.240} \_\_\_\_\_  
The same data will be entered at **9d**

**3h** SNMP GET (read) community string: {public} \_\_\_\_\_

**3i** SNMP SET (write) community string: \_\_\_\_\_

**3j** Ethernet switch 2 IP address on control network B: {198.152.255.241} \_\_\_\_\_  
The same data will be entered at **9e**

**3k** SNMP GET (read) community string: {public} \_\_\_\_\_

**3l** SNMP SET (write) community string: \_\_\_\_\_

**Specify the UPS units for each control network**

Note: There are always 2 UPS units. For a Duplex reliability configuration they both have addresses on Control Network A. For the High/Critical reliability configuration one will have an address on control network A and one will have an address on control network B.

Number of UPS units for the control network: {2} \_\_\_\_\_

**3m** UPS 1 IP address on control network A: {198.152.254.239} \_\_\_\_\_  
The same data will be entered at **10a**

**3n** SNMP GET (read) community string: {public} \_\_\_\_\_

**3o** SNMP SET (write) community string: \_\_\_\_\_

**High/Critical**

**3p** UPS 2 IP address on control network B: {198.152.255.239} \_\_\_\_\_  
The same data will be entered at **10f**

**Duplex**

**3p** UPS 2 IP address on control network A: {198.152.254.238} \_\_\_\_\_  
The same data will be entered at **??**

**3q** SNMP GET (read) community string: {public} \_\_\_\_\_

**3r** SNMP SET (write) community string: \_\_\_\_\_

**For the DNS and DHCP Server Configuration screen (4)**

Optional: If domain name service (DNS) servers are to be used, complete as many of the following fields as needed to set up DNS service and limit unresolved name searching. Fill out only as many server and search domain fields as are needed:

**4a** DNS server 1 IP address: \_\_\_\_\_

**4b** DNS server 2 IP address: \_\_\_\_\_

**4c** DNS server 3 IP address: \_\_\_\_\_

**4d** DNS domain name: \_\_\_\_\_

**4e** Search domain name 1: \_\_\_\_\_

**4f** Search domain name 2: \_\_\_\_\_

**4g** Search domain name 3: \_\_\_\_\_

**4h** Search domain name 4: \_\_\_\_\_

**4i** Search domain name 5: \_\_\_\_\_

**Specify whether the Avaya media server will provide DHCP service, or whether IPSI IP addresses will be manually assigned:**

**4j** Enable DHCP service on media servers: {yes} \_\_\_\_\_

**For the Set Static Network Routes screen**

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Optional: Enter any static IP addresses specified by the customer's LAN administrator.

	IP address of endpoint server is trying to reach	Subnet mask used by all endpoints	Gateway IP address (optional)	Ethernet interface (optional)
<b>5a</b>				
<b>5b</b>				
<b>5c</b>				
<b>5d</b>				
<b>5e</b>				
<b>5f</b>				
<b>5g</b>				
<b>5h</b>				
<b>5i</b>				

**For the Network Time Server screen (6x)**

**6a** Is a Network Time Server (NTS) available to be used as the time source? (y/n) \_\_\_\_\_

Note: If a NTS is available, both servers in the S8700 Media Server complex should be administered to synchronize with it. Select the second radio button on the screen and fill in the fields detailed below on both servers.

If an external NTS is not available both servers should have the first radio button selected on the Network Time Server screen. In this case Server 1 will always act as a Network Time Server and Server 2 will synchronize with it.

**If NTSs are available, enter their DNS names or IP addresses**

**6b** Primary NTS name or IP address: \_\_\_\_\_  
 Trusted Key \_\_\_\_\_ (Leave blank if not used)

**6c** Secondary NTS name or IP address: \_\_\_\_\_  
 Trusted Key \_\_\_\_\_ (Leave blank if not used)

**6d** Tertiary NTS name or IP address: \_\_\_\_\_  
 Trusted Key \_\_\_\_\_ (Leave blank if not used)

**6e** Multicast Client Support? (Y/N): \_\_\_\_\_

**Additional Keys  
 (Leave blank if not used)**

**6f** Trusted Key: \_\_\_\_\_

**6g** Requested Key: \_\_\_\_\_

**6h** Control Key: \_\_\_\_\_

**6i** Will a *Keys file* be used (Y/N): \_\_\_\_\_

Note: If Yes, it must be supplied during this configuration step and should reside in the */var/home/ftp* directory.

**For the Set Modem Interface screen (7x)**

Specify the IP address for each server's modem (this information must be provided by Avaya Services if a maintenance contract is in force) This data will be supplied by the Automatic Registration Tool (ART):

**7a** IP address of the PPP dial-up link for server 1: \_\_\_\_\_

**7b** IP address of the PPP dial-up link for server 2: \_\_\_\_\_

Use the default return routes (unless specifically instructed to change them). The default return route codes for Avaya Service are:

Information	IP address	Subnet mask
Services return route for PPP dial-up connection (if Avaya supports)	135.9.0.0	255.255.0.0
	135.17.0.0	255.255.0.0
	135.39.0.0	255.255.0.0
	135.60.0.0	255.255.0.0
	198.152.171.0	255.255.255.0
	198.152.171.0	255.255.255.0

**For the Configure Trap Destinations screen (8x)**

Specify Simple Network Management Protocol (SNMP) data trap destination. This information will allow the active server to send SNMP trap information to a Network Management System, i.e. CajunView.

**8a** IP address of SNMP trap receiver: \_\_\_\_\_

**8b** SNMP protocol version (1, 2c or 3): \_\_\_\_\_

**Required for version 1:**

**8c** Community name: \_\_\_\_\_

**Required for version 2c:**

**8d** Notification type (trap/inform): \_\_\_\_\_

**8e** Community name: \_\_\_\_\_

**Required for version 3:**

**8f** Notification type (trap/inform): \_\_\_\_\_

**8g** User name: \_\_\_\_\_

**8h** Security model (none, authentication, or privacy): \_\_\_\_\_

**8i** Authentication password (required for authentication and privacy model):  
\_\_\_\_\_

**8j** Privacy password (required for privacy model): \_\_\_\_\_

## Other Media Server complex components

### Ethernet Switch(s) (9x)

The following information will be configured directly in the Ethernet switch(s)

#### **IP Address on control network A**

**9a** Ethernet switch 1 IP address on control network A: {198.152.254.240} \_\_\_\_\_  
Use IP address from entry **3a**

**9b** Ethernet switch 2 IP address on control network A: {198.152.254.241} \_\_\_\_\_  
Use IP address from entry **3d**

#### **Trap receiver destination on control network A**

**9c** Trap receiver destination for both Ethernet switches on control network A: {198.152.254.200} \_\_\_\_\_  
Use IP address from entry **2c**

#### **IP Address on control network B**

**9d** Ethernet switch 1 IP address on control network B: {198.152.255.240} \_\_\_\_\_  
Use IP address from entry **3g**

**9e** Ethernet switch 2 IP address on control network B: {198.152.255.241} \_\_\_\_\_  
Use IP address from entry **3j**

#### **Trap receiver destination on control network B**

**9f** Trap receiver destination for both Ethernet switches on control network B: {198.152.255.200} \_\_\_\_\_  
Use IP address from entry **2m**

#### **Community Strings for all Ethernet Switches**

**9g** Community String: {Public} \_\_\_\_\_ Community Access: {Read-Only} \_\_\_\_\_

**9h** Community String: {Public} \_\_\_\_\_ Community Access: {Read-Write} \_\_\_\_\_

**9i** Community String: {Public} \_\_\_\_\_ Community Access: {trap} \_\_\_\_\_

## Uninterruptible Power Supplies

### UPS 1

**10a** UPS 1 IP address on control network A: {198.152.254.239} \_\_\_\_\_  
Use IP address from entry **3m**

**10b** Subnet Mask for UPS 1 on control network A:{255.255.255.0} \_\_\_\_\_

**10c** Default gateway for UPS 1 on control network A:{198.152.254.201} \_\_\_\_\_  
Use IP address from entry **2a**

**10d** SNMP GET (read) community string: {public} \_\_\_\_\_

**10e** SNMP SET (write) community string: \_\_\_\_\_

### UPS 2

#### High/Critical

**10f** UPS 2 IP address on control network B: {198.152.255.239} \_\_\_\_\_  
Use IP address from entry **3p**

#### Duplex

**10f** UPS 2 IP address on control network A: {198.152.254.238} \_\_\_\_\_

**10g** Subnet Mask for UPS 2 on control network A:{255.255.255.0} \_\_\_\_\_

#### High/Critical

**10h** Default gateway for UPS 2 on control network B:{198.152.255.202} \_\_\_\_\_  
Use IP address from entry **2l**

#### Duplex

**10h** Default gateway for UPS 2 on control network A:{198.152.254.201} \_\_\_\_\_  
Use IP address from entry **2a**

**10i** SNMP GET (read) community string: {public} \_\_\_\_\_

**10j** SNMP SET (write) community string: \_\_\_\_\_



