

Job Aid: Replacing the S8300 Media Server or its Hard Drive

This job aid describes the procedures to replace an installed S8300 Media Server or its hard drive.

**NOTE:**

In this Job Aid, the term "S8300 hardware" is used to refer to either the S8300 Media Server circuit pack, including its hard drive, or to just the S8300 hard drive.

Assumptions

The following items are assumed for the successful completion of this replacement procedure. If any of these assumptions do not apply to your scenario, some steps in the on-site replacement procedures may need to be modified:

- The existing S8300 hardware may or may not be functional.
- The S8300 may be configured as a primary controller or as an LSP.
- The following information is available:
 - customer FTP server IP address, login, and password
 - contents of a Pre-Installation Worksheet
- The technician is familiar with the connection and access methods to the S8300, including setting up a direct connection to the S8300 Services port and using the Maintenance Web interface.

**NOTE:**

See *Installation and Upgrades for the G700 Media Gateway*, 555-234-100, for detailed information about setting up connections to the G700 and S8300 and the associated laptop configurations.

Before you go to the site

There are seven possible scenarios for replacing the S8300 hardware, as summarized in the table below. Each scenario requires a slightly different pre-installation preparation and a slightly different installation procedure. The different scenarios depend on:

- whether the original (currently installed) hardware is functional, and
- whether the software releases installed on the original and new hardware are the same, different, or unknown.

Original Hardware is:	Software Release on Hardware is:	Scenario #	Replacement Procedure:
Functional	Original <i>earlier than</i> New	1	<ul style="list-style-type: none"> - Upgrade software on original hardware - Back up data - Replace hardware - Install license and authentication files - Configure network data - Restore all data
	Original <i>same as</i> New	2	<ul style="list-style-type: none"> - Back up data - Replace hardware - Install license and authentication files - Configure network data - Restore all data
	Original <i>later than</i> New	3	<ul style="list-style-type: none"> - Back up data - Replace hardware - Install license and authentication files - Upgrade software on new hardware - Configure network data - Restore all data
Not Functional	Original <i>earlier than</i> New	4	<ul style="list-style-type: none"> - Replace hardware - Install license and authentication files - Use IW to configure server data - Restore only translations & Audix announcements
	Original <i>same as</i> New	5	<ul style="list-style-type: none"> - Replace hardware - Install license and authentication files - Configure network data - Restore all data
	Original <i>later than</i> New	6	<ul style="list-style-type: none"> - Replace hardware - Install license and authentication files - Upgrade software on new hardware - Configure network data - Restore all data
	Original SW release <i>unknown</i>	7	<ul style="list-style-type: none"> - Replace hardware - Install license and authentication files - Upgrade new hardware to latest bug-fix load, if needed - Use IW to fully configure server data - Restore only translations & Audix announcements

You should determine which of the hardware replacement scenarios applies and obtain the needed information, software CDs, patches, and firmware files before going to the site.

When the S8300 hardware is replaced, you need to reconfigure the S8300 Media Server. The easiest way to do this is to back up the configuration data from the original hardware and do a full restore to the new hardware. This procedure will work only if the hardware that you back up from, and restore to, are running the same media server software release.

For scenarios **1**, **3**, and **6**, the original and new hardware are running different software releases. In these scenarios, you will need to do a software upgrade (on the original hardware for **1** and on the new hardware for **3** and **6**) to make the software releases the same. In scenario **6**, since the hardware is not functional, you cannot do a backup so you will restore the latest available backup. To do these upgrades, you will need to have a CD containing the appropriate media server software load. The software load will typically be the latest GA bug-fix load, but it could be an earlier load depending on what is required to make the software releases the same on the original and new hardware.

For scenarios **2** and **5**, the original and new hardware are running the same software release so no upgrades are required. For scenario **5**, you will restore the latest available backup.

For scenario **4**, you cannot use the latest available backup to restore the configuration data. (You cannot upgrade the original hardware or backup the configuration data because the hardware is not functional. You cannot do a full restore of the latest available backup because the original and new hardware have different software releases). In this scenario, you must do a full configuration using the Installation Wizard or the Maintenance Web Interface and restore just the translations and AUDIX files from the latest available backup.

For scenario **7**, you (and the customer) don't know the software release on the original hardware. You can't check the software release because the hardware is not functional. In this case, you must follow the replacement procedure in scenario **4**, with the additional step of upgrading the new hardware to the latest GA bug-fix load, if that load is not already installed on the new hardware. This upgrade step ensures that the system will not be downgraded in case the original hardware had the latest GA bug-fix load installed.

Perform the following steps before going to the customer site:

- 1** Download the current license file and authentication (password) file from the RFA website. The license file must be associated with the serial number of the G700 in which the defective hardware resides. Save the license and authentication files on the laptop that you will use at the customer site.
- 2** For scenarios **4** and **7** — if the original hardware is not functional, and the original hardware has an earlier (or unknown) software release than the release installed on the new hardware, then you need to do a full configuration (rather than a full restore).

Create a pre-installation server worksheet, which will be used when configuring the S8300 after hardware replacement. There is an electronic version and a printable version of the pre-installation worksheet. The electronic version is used with the Installation Wizard to directly load the configuration data onto the S8300. The printable version is used to record the configuration data, which is then manually entered into the screens of the Installation Wizard or the Maintenance Web. The electronic version, used with the Installation Wizard, is recommended because it simplifies the data-entry task and is more accurate.

You can obtain the pre-installation worksheet from <http://support.avaya.com/avayaiw/>.



NOTE:

You do not need to create a pre-installation worksheet for the other scenarios (**1**, **2**, **3**, **5**, and **6**).

- 3 For scenario 7 — if the software release on the original hardware is unknown, check to see if the software release on the new hardware is the latest GA bug-fix load. If not, obtain a CD with the latest GA bug-fix load.
- 4 Determine backup location, user name, ftp host name, directory, and password to do an FTP backup when on site. Keep this information handy for the restore.
- 5 For scenarios 1, 3, and 6 — if an upgrade is needed, obtain a CD with the appropriate release of the media server software to be used for upgrading the original or new hardware. (The appropriate release is whatever makes the releases on the original and new hardware the same after the upgrade).
- 6 For scenarios 1, 2, and 3, obtain information about the customer's FTP backup server: IP address, user name, password, ftp host name, and directory.
- 7 Determine whether software patches will be needed and, if so, download the appropriate software patch to your laptop.
- 8 If the new hardware has a release of the media server software that is later than the release installed on the original hardware, you may need to upgrade the G700 firmware.

You may need to use the following links for a firmware upgrade:

- a To see if you need to upgrade the G700 firmware, check the Software/Firmware Compatibility Matrix at <http://www.avaya.com/support>. Select the following links:
 - > Software & Firmware Downloads
 - > G700 Media Gateway & S8300 Media Server
 - > Firmware Downloads
 - > Software / Firmware Compatibility Matrix
 - > View Doc
- b To download G700 firmware, go to <http://www.avaya.com/support>. Select the following links:
 - > Software & Firmware Downloads
 - > G700 Media Gateway & S8300 Media Server
 - > Firmware Downloads
 - > G700 Firmware DownloadsDouble-click on the firmware files you need.
- c To obtain instructions for checking the firmware versions on a G700 and for upgrading the firmware, go to <http://www.avaya.com/support>. Select the following links:
 - > Software & Firmware Downloads
 - > G700 Media Gateway & S8300 Media Server
 - > Firmware Downloads
 - > G700 Firmware DownloadsClick on "Installation Instructions for G700 Firmware".

At the customer site

Use the following procedure to replace the S8300 hard drive or the S8300 Media Server circuit pack (including its hard drive).

Procedure to replace the S8300 hardware

- 1** If the S8300 hardware is still functional or can be made functional, connect your laptop to the Services port on the S8300 and access the Maintenance Web Interface.
If you do not know whether the S8300 hardware is functional, perform the following procedure to determine if it is functional:
 - a** Connect your laptop (with a crossover cable) to the Services port on the S8300, open the IE browser, and connect to <http://192.11.13.6>.
 - b** If you do not get the Welcome screen, skip to [Step e](#).
 - c** If you get the Welcome screen, click **Continue**, log in, and launch the Maintenance Web Interface.
 - d** Select **View Partition Status** under the "Server Configuration and Upgrades" category.
 - If the View Partition Status table, showing the status of the hda1 and hda6 partitions, the S8300 hardware is functional; skip to [Step 2](#)
 - If the View Partition Status table is not displayed, or you get an error message, the S8300 hardware may not be functional; continue with [Step e](#)
 - e** If the previous steps indicate that the S8300 hardware may not be functional, power-cycle the G700 (unplug and plug-in the power cord) and repeat Steps **a - d**. If you do not get the Welcome screen in Step **b** or if the View Partition Status table is not displayed in Step **d**, then the S8300 hardware is not functional — skip to [Step 4](#).



NOTE:

If the S8300 hardware is not functional, skip Steps **2** and **3** and continue with Step **4**.

- 2** Check to see if the new hardware has a higher software release than the current system. If so, upgrade the media server software on the original hardware to the same release as is on the new hardware. This applies to dot releases as well as major releases.
- 3** Back up data:
 - f** On the Maintenance Web Interface navigational panel, select **Backup Now** under the "Data Backup / Restore" heading.
 - g** On the Backup Now screen, check all of the following data sets:
 - **ACP Translations**; select the radio button for **Save ACP translations before backup**
 - **Server and System Files**
 - **Security Files**
 - If IA770 is installed on the S8300, also select **Audix Names, Translations and Messages**
 - h** Select the **FTP Backup Method** and enter the customer-supplied information for:
 - **User Name**
 - **Password**

- **Host Name**
- **Directory**
- i** Click the **Start Backup** button.
- j** If IA770 is installed on the S8300, back up AUDIX announcements:
 - Return to the **Backup Now** screen and uncheck all but **Audix Announcements**
 - Select the **FTP Backup Method** and enter the login destination information as in **Step 3-c**.
 - Click the **Start Backup** button.
- 4** Install the new hard drive or S8300 Media Server.

 **CAUTION:**

Be sure to wear a properly grounded ESD wrist strap when handling the S8300 Media Server, hard drive, and the (optional) CWY1. Place all components on a grounded, static-free surface when working on them. When picking up the hard drive, be sure to hold it only on the edges — do not touch the bottom of the hard drive.

- a** Shutdown the S8300 Media Server using either the Web interface or the manual Shutdown button on the S8300 faceplate.
 - On the Maintenance Web Interface, select **Shutdown this Server** under the "Server" heading. Select the **Delayed** option, leave the "After Shutdown, Restart System" unchecked, and click **Shutdown**.
 - Alternatively, you can manually initiate a shutdown by pressing the Shutdown button on the S8300 faceplate. Hold the button in until the green "OK to Remove" LED starts blinking.

In either case, when the "OK to Remove" LED goes on steady, you can power-down the G700. If the LED does not go on steady within 5 minutes, proceed to the power-down step.
- b** Power-down the G700 by unplugging the power cord.
- c** Loosen the two thumb screws on the S8300.

 **NOTE:**

When removing or inserting the S8300 circuit pack, the LED module (above slot V1) must also be removed or inserted together with the S8300.

- d** Disengage the LED module and the S8300 circuit pack and remove them together from the G700.

 **NOTE:**

If you are replacing only the hard drive (and keeping the S8300 circuit pack), continue with [Step e](#). If you are replacing the entire S8300 Media Server (including its hard drive), skip to [Step 1](#).

- e** Unscrew the four screws on the bottom of the S8300 circuit pack that attach to the hard-drive standoffs (Refer to [Figure 1](#)).

- f** Detach the hard-drive ribbon cable from the hard drive (leave cable attached to the S8300 circuit pack).
- g** Unpack and install the new hard drive on the S8300. Standoffs for the new hard drive should be included in the new hard drive package.

**NOTE:**

If standoffs are not included with the new hard drive, remove the standoffs from the old drive and reuse them. *Before screwing the standoffs into the new hard drive, clean the threads thoroughly with a damp cloth or paper towel.*

- h** Screw the standoffs into the new hard drive.

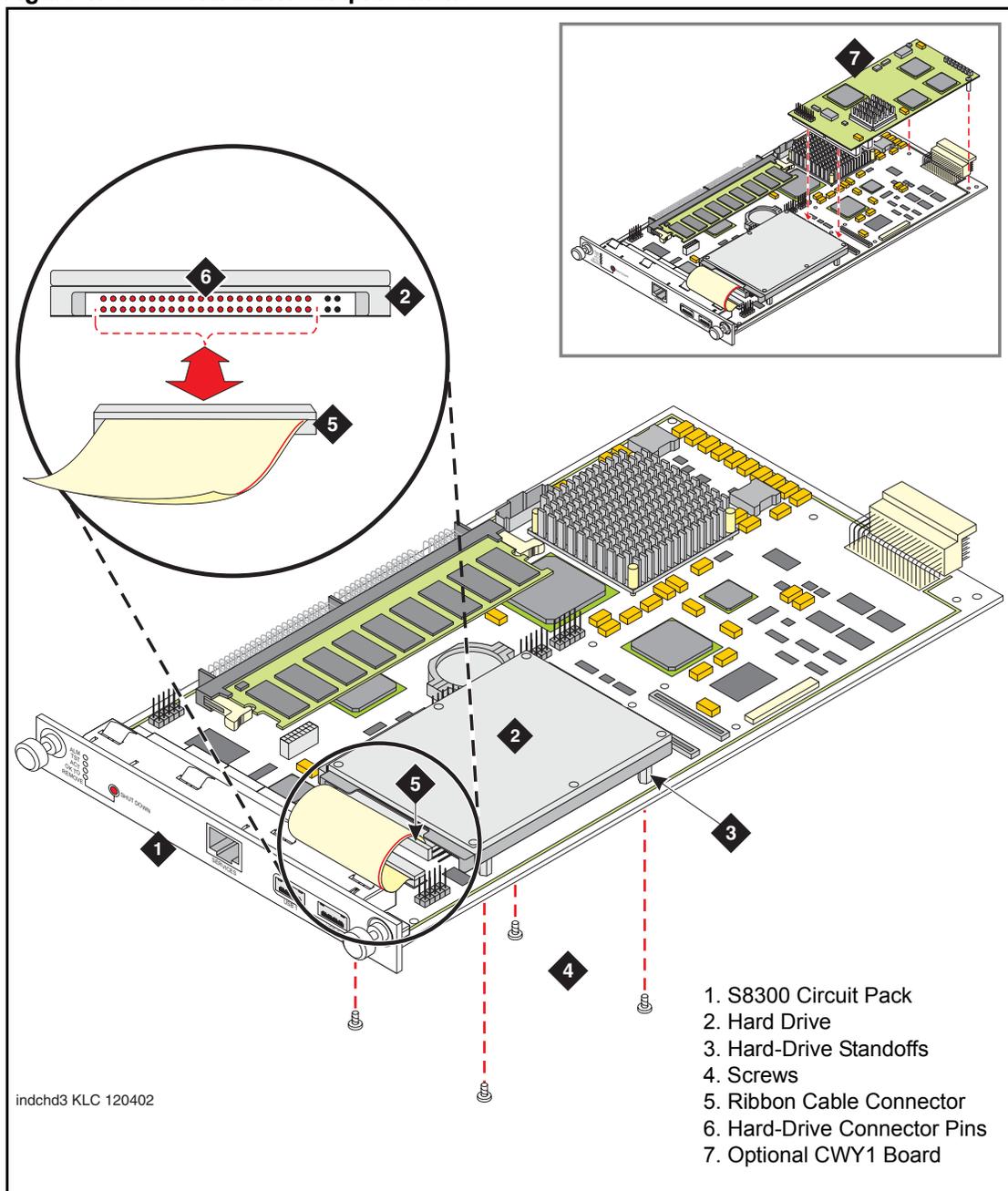
**CAUTION:**

In [Step i](#), be careful not to bend the pins on the hard drive. Leave the four jumper pins to the right of the ribbon cable open and unconnected, as shown in [Figure 1](#).

- i** Connect the open end of the hard-drive ribbon cable (which is attached to the S8300 circuit pack) to the replacement hard drive, as shown in [Figure 1](#). Connect pin number one to the end of the ribbon connector marked with the red stripe.
 - j** Place the hard drive on the S8300 circuit pack with the standoffs aligned with the screw holes.
 - k** Hold the S8300 circuit pack on its side, with the hard drive in place, and screw the four screws through the bottom of the S8300 circuit pack into the hard-drive standoffs.
 - l** If you are replacing the S8300 circuit pack, and if the CWY1 board is installed on the original S8300, remove the CWY1 board from the original S8300 and install it on the new S8300 circuit pack.
 - m** Insert the S8300 into slot V1 of the G700. The LED panel (above slot V1) must be removed and reinserted together with the S8300 circuit pack. Insert both the LED panel and S8300 circuit pack about 1/3 of the way into the guides (the guides are in slot V1 for the S8300 and above slot V1 for the LED panel). Push both circuit packs (together) back into the guides, gently and firmly, until the front of each circuit pack aligns with the front of the G700.
 - n** Secure the S8300 faceplate with the thumb screws. Tighten the thumb screws with a screw driver.
- 5** Power up the G700 by plugging in the G700 power cord.
 - 6** Connect your laptop to the Services port on the S8300 and access the Maintenance Web Interface.
 - 7** Enable FTP on the S8300:
 - a** On the Maintenance Web Interface, select **Enable/Disable Anonymous FTP** under the "Security heading
 - b** Click on **Enable**
 - 8** Install the license and authentication files.

- 9 If necessary, upgrade the media server software on the new hardware:
 - a If the software release installed on the new hardware is earlier than the release on the original hardware, upgrade the software on the new hardware to match the release on the original hardware.
 - b If the software release on the original hardware is unknown, and the software on the new hardware is not the latest bug-fix load, upgrade the software on the new hardware to the latest bug-fix load.
- 10 Configure the S8300 and restore data. Do either [Step a](#) or [Step b](#):
 - a If the original hardware is functional *or* if the software release installed on the original hardware is the *same as* or *later than* the release installed on the new hardware, then:
 - Configure the network data (Host Name, IP address, subnet mask, default gateway IP address).
 - Restore all data
 - b If the original hardware is *not* functional *and* the software release installed on the original hardware is either *unknown or earlier than* the release installed on the new hardware, then:
 - Configure the S8300 as you would a new install using either the Avaya Installation Wizard and the Pre-Installation Worksheet previously created, or using the Maintenance Web Interface.
 - Restore only the translations and the Audix announcements
- 11 If the new hardware has a later software release than the original hardware, check to see if you need to upgrade the G700 firmware as described in [Step 8](#) in the [Before you go to the site](#) section.
- 12 Install any software patches required.
- 13 Check for and resolve any new alarms.
- 14 Test as appropriate — for example, make station and trunk calls.
- 15 Save translations. If the S8300 on which you replaced the hardware is configured as an LSP, save translations on the primary controller, not the LSP.
- 16 Disable FTP on the S8300:
 - a On the Maintenance Web Interface, select **Enable/Disable Anonymous FTP** under the "Security heading
 - b Click on **Disable**

Figure 1: S8300 Hard Drive Replacement



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