

ZOLL Medical Corporation

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

Before you begin

To install the AED Plus AHA 2005 Guidelines upgrade, please verify the following:

- A. You have a Personal Computer equipped with an IrDA port and running Windows 2000 or Windows XP Pro.
- B. You have the latest Zoll Administration Software CD for the AED Plus (**ZAS AED Plus**) version **3.30**.
- C. It is recommended that you uninstall your prior ZAS AED Plus version. To uninstall your ZAS AED Plus version. Click Start, Click Settings, and Click “Control Panel”. Double click the “Add/Remove Programs”. Click “ZOLL AED Plus Administration Software”. Click “Change/Remove” and follow the un-installation instructions. Click finish.

Upgrade Instructions

1. Install the AED Plus ZOLL Administration Software (ZAS AED Plus) on your PC

- 1.1. Close all open programs.
- 1.2. Place the latest Zoll Administration Software CD for the AED Plus (**ZAS AED Plus**) version **3.30** into your CD drive and close the drive. If the installation software does not start automatically, navigate to your CD drive and double click the file setup.exe
- 1.3. Click next through the displayed screens, accepting the license agreement and entering your user name and company name. Click finish when the installation is complete.



AED Plus IrDA Port

ZOLL Medical Corporation

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

2. Start the AED Plus unit in the Non-Rescue Mode and launch the ZAS program

- 2.1. Make sure your computer is turned on. Line up the IrDA port on your computer with the IrDA port on the AED Plus Device. **The Recommended distance between the IrDA Ports is 8 inches to 3 feet.**
- 2.2. Start the AED Plus in the Non-Rescue mode (Press and hold the AED Plus power on button, release after the LED moves from the first light to the second, verify that you hear the “Communication Established” Audio prompt).
- 2.3. Run the ZAS software (version 3.30) installed on your PC by double clicking the **ZAS AED Plus** icon on your desktop (or through the start menu, select Programs, select ZOLL Medical, select AED Plus Administration and finally select ZAS AED Plus).

3. Update the AED Plus Application and Boot-Loader software

IMPORTANT: Keep the AED Plus turned on until the “AED Plus Updated” message is displayed in step 3.6 below. Do not attempt to turn off the unit while software update is in progress.

- 3.1. From the ZAS software, select **“Update Software”** from the list on the left hand side.
- 3.2. Highlight the Boot software (**Boot350.loa**) by clicking anywhere on the line.
- 3.3. Click **Send**. (Note: If you receive a message “This software is current!...Reload?” click **No**, the correct boot file is loaded, skip to step 3.5)
- 3.4. Wait until the **“AED Plus Updated”** message is displayed on your PC screen, and then click **OK**.
- 3.5. Highlight Program software (**Prog518.loa**) by clicking anywhere on the line, then click **Send**. (Note: If you receive a message “This software is current!...Reload?” click **No**, the correct application software file is loaded, skip to step 3.7).
- 3.6. Wait until the **“AED Plus Updated”** message is displayed on your PC screen, and then click **OK**.
- 3.7. Click **Done**.

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

4. Update the AED Plus Language

IMPORTANT: Keep the AED Plus turned on until the “AED Plus Updated” message is displayed in step 4.4 below. Do not attempt to turn off the unit while language update is in progress.

- 4.1. Select “**Configure Language**” from the list on the left hand side.
- 4.2. Highlight the language file you want to upgrade your AED Plus unit with. For example to upgrade your English Language unit, select the file **English505.loa**. Please note the version field must contain the value **5.05**
- 4.3. Click **Send**. (Note: If you receive a message “This component is current!...Reload?” click **No**, the language file you chose is loaded, skip to step 4.5).
- 4.4. Wait until the “AED Plus Updated” message is displayed on your PC screen, and then click **OK**.
- 4.5. Click Done.
- 4.6. **IMPORTANT:** Turn the AED Plus unit off. Wait approximately 10 seconds until the Unit is powered off.

5. Configure the AED Plus Unit

- 5.1. Start the AED Plus in the Non-Rescue mode (Press and hold the AED Plus power on button, release the button after the LED moves from the first light to the second, verify that you hear the “Communication Established” Audio prompt).
- 5.2. On the ZAS screen, click configuration.
- 5.3. Choose the “Load Saved Configuration from Disk” option.
- 5.4. To upgrade the AED Plus unit per the AHA 2005 guidelines, select the APLUS_AHA_2005.CFG file and click OK. To upgrade the AED Plus unit per the ERC 2005 guidelines, select the APLUS_ERC_2005.CFG file and click OK.
- 5.5. Click next on each of the following configuration screens and finally click “Done” to send the configuration file to the AED Plus unit. If the configuration was transmitted successfully to the AED Plus unit, a “Configuration Uploaded Ok” message will be displayed in the ZAS status bar at the bottom left corner of the ZAS screen.

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

6. Verify Your AED Plus unit is Upgraded Successfully

- 6.1. On the ZAS screen, click History.
- 6.2. Select “Upload History Data from Device” and click "Next".
- 6.3. Specify a file name in the displayed dialog box and click Save.
- 6.4. Note the displayed Application Software Revision, the Boot Software Revision and the Language Revision. The correct revisions should be:

Application Software	5.18
Boot Software	3.50
Language	5.05


- 6.5. Turn the AED Plus Unit off. Wait approximately 10 seconds until the Unit is powered off.
- 6.6. Make sure the Electrodes connector is plugged into the device. Turn on the AED Plus unit in clinical mode (press and release the on button).
- 6.7. Verify that you can hear a “Unit Ok” audio prompt when the unit is turned on.
- 6.8. Turn unit off. Wait 2 minutes and verify that a green ✓ appears in status indicator window. If steps 6.4 and 6.7 are successful then the software has been successfully upgraded.

ZOLL Medical Corporation

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

Troubleshooting

Please consult the below table for help resolving upgrade issues. If unable to correct the issue, please contact ZOLL Technical Services at 1-800-348-9011.

Step	Problem	Cause / Remedy
2	IrDA Communications not Established	<ul style="list-style-type: none"> - Make sure that the AED Plus is turned on in Non-rescue Mode (see step 2). - Check for any obstructions between the IrDA port on the AED Plus and the IrDA port on your computer. - Check for Multiple ZAS programs running. Exit all your ZAS programs. Launch only one ZAS application.
3 or 4	Send Button Doesn't appear	Refer to remedy for the problem "IrDA Communications not Established" in step 2 above.
3 or 4	"AED Updated" message not displayed. Or progress bar at the bottom of the ZAS window freezes.	You may need to wait for 10 minutes until the message is displayed. Keep the AED Plus unit turned on until a response message is displayed.
3 or 4	<p>"No Response from AED Plus" message is displayed.</p> 	Click OK. Proceed to next step. Do not restart AED Plus. Verify that you can see an IrDA Icon at the bottom right corner of your computer's screen. If not, refer to remedy for the problem "IrDA Communications not Established" in step 2 above.
3 or 4	The ZAS screen turns gray with only an hour-glass displayed.	You may have clicked on other windows while the update software/language is in progress. The ZAS screen will re-appear after the software/language is updated. You may need to wait 10 minutes until the update is complete. Do Not attempt to kill the ZAS application or turn off the AED Plus unit.

ZOLL Medical Corporation

Upgrade Instructions for the AED Plus AHA 2005 Guidelines

Step	Problem	Cause / Remedy
5	Configuration Error Message displayed.	<p>Make sure that the AED Plus unit has been turned off completely at the end of step 4.</p> <ul style="list-style-type: none"> - Turn the AED Plus unit off. - Wait 10 seconds. - Repeat step 5. <p>If error persists:</p> <ul style="list-style-type: none"> - Make sure that you are running ZAS version 3.30 Click on the Help/About in the ZAS screen and verify that you are running ZAS version 3.30. - Execute step 6 and if any of the Boot/Language/Application software versions is incorrect, follow the troubleshooting procedure associated with step 6.
6.4	Incorrect Application Software Revision Or Incorrect Boot Software Revision	<ul style="list-style-type: none"> - Turn the unit off, wait 10 seconds. - Exit the ZAS program. - Repeat steps 2 and 3. - Make sure you follow steps 3.1 through 3.7. - Turn the unit off, wait 10 seconds. - Repeat step 6.
6.4	Incorrect Language Revision	<ul style="list-style-type: none"> - Turn the unit off, wait 10 seconds. - Exit the ZAS program. - Repeat steps 2 and 4. - Turn the unit off, wait 10 seconds. - Repeat step 6.
6.7	“Unit Ok” not heard or “Green Check” does not appear in the status indicator.	<p>Turn the unit on.</p> <ul style="list-style-type: none"> - If you don't hear any audio prompts and the unit powers off in a few seconds showing a Red-X, repeat steps 2, 4 and 6 to re-load the correct language file. The correct language file must have a revision of 5.05 - If you hear “Plug in Cable” instead of “Unit Ok”, make sure Electrode Connectors are attached firmly. Let the unit run for a few seconds then turn the AED Plus unit off. - Start the AED Plus unit in Non-Rescue Mode and repeat step 6.