Title: **3500Plus/Win3500Plus Upgrade to v3.0**

Products: **3500Plus System Controller, Win3500Plus Control System**

Date: **March 26, 2001**

ECO No.: **CE00179**

Issue:

This technical bulletin provides the instructions for upgrading 3500Plus/Win3500Plus software to v3.0. The specific changes associated with this software release are detailed in Part 5 on page 4. This technical bulletin assumes the following upgrade paths:

- 3500Plus System Controller embedded software from v2.1 to v3.0 (CD Part No. 81-9065-2268-0)

- Win3500Plus Control System software from v2.0 to v3.0 (CD part number 81-9065-2213-0)

Solution:

Part 1 – 3500Plus Embedded Software v3.0 Installation Using Load3500

The 3500Plus embedded software resides in Flash ROM and is upgraded by running Load3500 on the PC used to run Win3500Plus.

Insert the 3500Plus v3.0 CD into the PC and run Load3500Setup.exe. This installation wizard will add four program icons to the PC. If a previous version of Load3500 has been used, some of these icons may already exist.

- Load3500Interactive

- LoadInstallerV2_0

- LoadLoaderV2_0

- LoadUserV3_0

CAUTION

Load3500Interactive is a powerful troubleshooting tool which should only be used under the guidance of Customer Service. Do not attempt to use this utility unless instructed to do so. Incorrect operation may result in rendering your 3500Plus System Controller inoperable.

Load3500Setup.exe will also install three data files in the Load3500\Src\ folder. If a previous version of Load3500 has been used, some of these files may already exist. [PESA Engineering Note: 3500PV3_0.abs data range is 0 to 5B000].

- InstpgmV2_0.abs

- LoaderV2_0.abs

- 3500PV3_0.abs

For More Information, Contact PESA Customer Service:
(256) 726-9222 or service@pesa.com

When Load3500Setup.exe has finished installing the data files and icons, complete the v3.0 installation as follows:

NOTE

The upgrade process will delete the configuration currently residing on the system controller. To avoid loss of data, ensure that you have saved a copy of this configuration on your PC.

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1. Use Win3500Plus to upload a copy of the configuration from the 3500Plus to your hard drive.

2. Exit Win3500Plus.

3. Remove power from the 3500Plus.

4. Remove the 3500Plus from the chassis.

5. Set the Operational Mode DIP switch S1-1 to Software Upgrade Mode (ON).

6. Install the 3500Plus in the chassis.

7. Apply power to the 3500Plus. The red Alarm LED, the green Run LED, and the yellow Active LED will all turn ON.

NOTE

Installation progress is not indicated for the files installed in Steps 8 through 10. After each file is installed, the following dialog box will be displayed:

3500PV3_0.abs (installed in Step 10) is a much larger file than the other two. The installation of this file may take several minutes to complete. Do not proceed with Step 11 until the dialog box shown above is displayed for Step 10.

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8. Use the LoadInstallerV2_0 icon to install the InstpgmV2_0.abs file.

9. Use the LoadLoaderV2_0 icon to install the LoaderV2_0.abs file.

10. Use the LoadUserV3_0 icon to install the 3500PV3_0.abs file.

11. Remove power from the 3500Plus.

12. Remove the 3500Plus from the chassis.

13. Set the Operational Mode DIP switch S1-1 to Normal Operation Mode (OFF).

14. Install the 3500Plus in the chassis.

15. Apply power to the 3500Plus. The red Alarm LED will turn ON briefly, then turn OFF. The green Run LED and the yellow Active LED will turn ON.

Part 2 – Win3500Plus Control System v3.0 Installation
Win3500Plus v2.0 will be needed for configuration conversion. Read Part 4 below before installing v3.0 in the v2.0 folder. It may be desirable to install v3.0 in a new folder, and retain v2.0 for possible future use.

Insert the Win3500Plus v3.0 CD into the PC and run W35Plus Setup.EXE, the installation wizard.

Part 3 – Upgrade Verification
After completing Parts 1 and 2, verify that the upgrade was performed correctly as follows:

1. Press and hold the Reset button on the front of the 3500Plus System Controller for approximately three seconds. The yellow Active LED will turn OFF and the red Alarm LED will turn ON.

2. Release the Reset button. The red Alarm LED will turn OFF and the yellow Active LED will turn ON when the reset is complete. Since there is no configuration in residence, the reset cycle should take five seconds or less.

    If the yellow Active LED does not turn ON within five seconds, repeat Steps 1 and 2. If it still doesn't turn ON, contact Customer Service.

    If the red Alarm LED does not turn OFF within five seconds, repeat Steps 1 and 2. If it still doesn't turn OFF, contact Customer Service.

3. Start Win3500Plus v3.0 and select **Help|About** from the pull down menu. Verify that v3.0 is running. Click the OK button.

4. In Win3500Plus, select **Diagnostics|CPU Link Test** from the pull down menu. Verify that the system controller is 3500Plus v3.0. Click the OK button.

Part 4 – Configuration Conversion
Win3500Plus v2.0 configurations are not compatible with Win3500Plus v3.0, and must be converted as follows:

1. Start Win3500Plus v2.0 and open the configuration saved in Part 1 Step 1.

2. Select **Diagnostics|Import/Export Functions|Database Convert to ASCII File** from the pull down menu. When the Open dialog box is displayed, specify a drive and directory to be used for the temporary ASCII file. Then enter a filename (e.g., SAMPLE.TXT) in the ASCII Definition File text box and click the Open button.

3. Exit Win3500Plus v2.0.

4. Start Win3500Plus v3.0.

5. Select **Diagnostics|Import/Export Functions|Import ASCII File to PC** from the pull down menu. When the Open dialog box is displayed, select the file created in Part 4 Step 2 and click the Open button.

6. Save the converted configuration on the PC.

7. Download the configuration to the 3500Plus.

Configuration conversion will delete all indices. This may require some manual clean-up such as:

- Adding v2.x indices back as v3.0 categories.

- Adding trailing spaces to categories to duplicate their previous performance.

- Adjusting Data Key Lists to handle the new category layout.

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Part 5 – What's New for v3.0

<u>Source/Destination/Reentry Names:</u> Previous versions of the 3500Plus required that all source, destination and reentry names be constructed from a set of categories and indices. For v3.0, the rules for source, destination, and reentry names are as follows:

1. Names shall be constructed from the following characters:

   - Letters: A through Z (mixed case if enabled, see "Case Sensitivity" on page 5)

   - Numbers: 0 through 9

   - Other Characters: Space (   ), hyphen-minus (-), exclamation mark (!), ampersand (&), plus sign (+), equals sign (=), commercial at (@), and low line (_).

2. Names shall contain a minimum of one, and a maximum of eight characters.

3. Names shall not begin or end with a space.

4. Source names shall be unique in the universe of source and reentry names.

5. Destination names shall be unique in the universe of destination and reentry names.

6. Reentry names shall be unique in the universe of reentry, source, and destination names.

<u>Category/Index Operation:</u> Indices no longer exist and categories are now simply sub strings used to build names by concatenation. When the user presses a category button on a panel, the category is concatenated onto the right side of the name in the preset. If necessary, the left side of the name will be trimmed to bring its length to a maximum of eight characters. For v3.0, the rules for category names are as follows:

1. Names shall be constructed from the following characters:

   - Letters: A through Z (mixed case if enabled, see "Case Sensitivity" on page 5)

   - Numbers: 0 through 9

   - Other Characters: Space (   ), hyphen-minus (-), exclamation mark (!), ampersand (&), plus sign (+), equals sign (=), commercial at (@), and low line (_).

2. Names shall contain a minimum of one, and a maximum of eight characters.

3. Names shall not begin with a space. Names may end with a space, have embedded spaces, and consist of a single space.

4. Category names shall be unique in the universe of category names.

<u>Using Categories:</u> Functionally, categories only affect panel operations where panels have been defined to have categories assigned to their data keys.

Prior to v3.0, panels could have both a category and index assigned to a data key. Now, panels can have one or two categories assigned to a data key. When the user presses a category button, the panel concatenates the category to the source or destination name on the panel.

When two categories are assigned to a button, the panel uses the first category if the preset is blank. Otherwise, the panel concatenates the second category. This requires the user to use the CLEAR button to clear out the preset name before accessing the first category assigned to a key.

When there is only one category assigned to a button, it is always concatenated to the name in the preset.

For example, given a panel with the following definitions:

Button 1	Button 2	Button 3	Button 4	Button 5
Cat1: VTR	Cat1: CAM	Cat1: CG	Cat1: 3	Cat1: 4
Cat2: 0	Cat2: 1	Cat2: 2	Cat2:	Cat2:

To access VTR13 and take it online, the user would press:

- CLEAR (Clears out the name in the preset display)
- Button 1 (**VTR** in the preset display)
- Button 2 (**VTR1** in the preset display)
- Button 4 (**VTR13** in the preset display)
- TAKE (Causes **VTR13** to be taken to the active destination.)

Win3500Plus: In Win3500Plus v3.0, the index configuration menu has been deleted, and the category menu implements the new category name rules mentioned above, plus the following:

1. Trailing spaces in a category name shall be represented with the tilde (~) character.
2. Embedded spaces in a category name shall be represented with the space (   ) character.

Due to a screen font limitation, the low line character (_) will be represented on-screen by Win3500Plus as the space character (   ). It will, however, be correctly displayed on panels as the low line character (_).

Case Sensitivity: The v3.0 change allowing mixed case names only applies to source, destination, reentry, and category names. The use of mixed case names must be explicitly enabled in the Configuration Information dialog box accessed through the Win3500Plus **Configuration|Configuration Info** pull down menu.