

IMPORTANT PRODUCT INFORMATION

READ THIS INFORMATION FIRST

Product: VersaPro™ Programming Software Release 1.10

IC641VPS300D	VersaPro - Windows Programming software for Series 90™-30 and VersaMax™ PLCs
IC641VPS002A	VersaPro - Windows Programming software for Series 90 Micro, VersaMax Nano/Micro PLCs
IC640VPS002A	VersaPro - Windows Programming software for Series 90 Micro, VersaMax Nano/Micro PLCs with cable
IC641VUG300D	VersaPro Upgrade for Series 90-30 and VersaMax PLCs
IC641VPH300D	VersaPro - Windows Programming software for Series 90-30 and VersaMax PLCs with SNP Cable
IC641VUG301D	Logicmaster 90-30 Subscription to VersaPro Upgrade - Via Direct Mail Coupon
IC641VPS305D	VersaPro 5 Pack - Windows Programming software for Series 90-30 and VersaMax PLCs
IC641VPS310D	VersaPro 10 Pack - Windows Programming software for Series 90-30 and VersaMax PLCs
IC641VPS325D	VersaPro 25 Pack - Windows Programming software for Series 90-30 and VersaMax PLCs
IC641VPS350D	VersaPro 50 Pack - Windows Programming software for Series 90-30 and VersaMax PLCs
IC641VPD010D	VersaPro Distributor Demo 10 Pack
IC641VPD050D	VersaPro Distributor Demo 50 Pack
IC641VPP050D	VersaPro Media Kit - 50 Pack

Caution

You should back up VersaPro 1.0x folders before installing VersaPro 1.10 because saving any of these folders with VersaPro 1.10 will prevent the folder from being used with VersaPro 1.0x.

Caution

When using the 90-30 Profibus Master Module (HE693PBM101) with VersaPro 1.10 , you must upgrade the PBM101 module firmware to the latest version in order for the configurations produced by VersaPro 1.10 to be usable by the module. This upgrade is located on the VersaPro CD at the following location: \HE693PBM101E\Version303. Open the clickme.bat and follow the directions.

Caution

When using VersaPro Version 1.10 or earlier, you must be sure to read and comply with Product Safety Bulletins M-04-00-03 and M-05-00-05.

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Note

When using SNP protocol, it is recommended that the communications settings be changed to the settings described in "Serial Parameter Settings" on page 15.

VersaPro Release 1.10 provides support for several new or updated hardware platforms including: 90-30 CPU Release 10, 90-30 DSM314 motion module, VersaMax CPU version 1.5, VersaMax Micro, VersaMax Nano and Series 90 Micro. In addition, many usability improvements have been added to this release based on customer feedback from Version 1.00. For details on the new features, refer to "VersaPro 1.10 New Features" (page 19) and "Problems Resolved from Version 1.0" (page 16). Please refer to "Special Operational Notes" (page 7) and "Open Problems" (page 17) to understand limitations with this version.

Note

In order to properly view the electronic copy of this document located on the CD, you will either need Word-97 or Microsoft Word Viewer 97-2000. You can obtain information on how to download a free copy of Microsoft Word Viewer 97-2000 at the following Web site:

<http://support.microsoft.com/support/kb/articles/q165/9/08.asp>.

Minimum System Requirements

- 486, 66 MHz processor (except when using Profibus modules, a Pentium class processor with 32MB RAM minimum is required)
- 16 MB RAM Memory for Windows 95/98
- 24MB RAM Memory for Windows NT 4.0
- 27 MB Hard Disk Space
- VGA Monitor
- CD ROM Drive

Operating Systems Supported

- Windows 95B
- Windows 98 (First Edition Service Pack 1, Second Edition)
- Windows NT 4.0 (Service Pack 5, Service Pack 5 international version, Service Pack 6)

Note

VersaPro 1.10 is Windows 2000 Ready: Preliminary tests did not show any problems with Windows 2000 Beta and VersaPro will fully support Windows 2000 in the near future. Windows 2000 requires a minimum of 64MB of RAM.

Please note that the Logicmaster 90-30 Version 9.02 provided on the VersaPro 1.10 CD is not Windows 2000 compliant. For details, see the installation section under "Special Operational Notes."

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Installation

1. It is recommended that you close all applications including virus checking, Internet Explorer 5.0, and CIMPLICITY HMI software that might be running in the background. You may need to check the task manager to determine if other applications are running.
2. Put the VersaPro CD in CD-ROM Drive.
3. Select the CD drive from Windows Explorer.
4. Double click Setup.exe
5. Follow the user prompts to complete the installation. If you have a previous version of VersaPro installed, the installation tool will first uninstall the previous version. During this uninstall process, you may be asked whether you would like to remove shared files. It is recommended that you always answer "No to All" to ensure that no files are deleted that might be needed by another application.

Note

When you upgrade from VersaPro Version 1.0 to 1.1, your user screen settings and the directory location for program files will be lost. You will need to re-establish these settings after completing the upgrade.

Starting the VersaPro Application

The VersaPro application is installed in the GE Fanuc Software Program group. The application can be started by selecting Start->Programs->GE Fanuc Software->VersaPro. It is also possible to create a shortcut to the VersaPro application and place the shortcut on the desktop, or to click on a file created by VersaPro (the file in the VersaPro folder with a .fld extension), and start the application in the context of the selected folder. VersaPro may also be started using CTRL-ALT-V.

VersaPro 1.10 New Features

1. **Programming and configuration for Series 90 Micro.** This includes support for the following Series 90 Micro PLC models.

IC693UDR001/2	14 Point DC In/Relay Out, AC/DC
IC693UAA003	14 Point AC In/AC Out/AC
IC693UDD104	14 Point DC/DC/DC
IC693UDR005/10	28 Point DC In/Relay Out, AC/DC
IC693UAL006	23 Point Analog DC In/Relay Out
IC693UAA007	28 Point AC In/AC Out/AC
IC693UDD110/120	28 Point DC/DC/DC
IC693UEX011/012	14 Point Expansion AC-DC/DC/Relay
IC693UEX122	14 Point Expansion DC/DC/DC

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- 2. Programming and Configuration of the new Nano/Micro VersaMax PLCs.** This includes support for the following Nano/Micro VersaMax PLC models.

IC200NDR001	10 Point DC\DC\Relay
IC200NDD101	10 Point DC\DC\DC
IC200UDR001	14 Point AC\DC\Relay
IC200UDR002	14 Point DC\DC\Relay
IC200UAA003	14 Point AC\AC\AC
IC200UDD104	14 Point DC\DC\DC
IC200UDR005	28 Point AC\DC\Relay
IC200UAL006	23 Point AC\DC\Relay Analog
IC200UAA007	28 Point AC\AC\AC
IC200UDR010	28 Point DC\DC\Relay
IC200UDD110	28 Point DC\DC\DC
IC200UEX011	14 Point Expansion AC\DC\Relay
IC200UEX012	14 Point Expansion DC\DC\Relay
IC200UEX014	14 Point Expansion DC\DC\DC

- 3. Support for Series 90-30 CPU Release 10, which includes the following features:**

- Series 90-30 DSM 314 Configuration. This configuration also specifies what Motion/Local Logic Programs to download to the DSM314 via the PLC CPU.
- Configure Reboot After Fatal Fault
- Configure Serial I/O protocol
- DRUM Sequencer Function Block (same Function as VersaMax PLC).

- 4. Local Logic Editor for the 90-30 DSM314 that allows you to create Local Logic programs in the VersaPro programming environment.** These Local Logic Programs can be loaded from the PLC, stored to the PLC, and verified with the PLC.

- 5. Motion Program Editor for the 90-30 DSM 314 that allows you to create Motion programs in the VersaPro programming environment.** These Motion Programs can be loaded from the PLC, stored to the PLC, and verified with the PLC.

- 6. New Series 90-30 Module Configuration Support.**

IC693PWR331	Power Supply 24 VDC 30 Watts
IC693PWR332	Power Supply 12 VDC 30 Watts

- 7. New VersaMax Module Configuration Support.**

IC200PWR201	Power Supply 12 VDC
IC200PWR202	Power Supply 12 VDC with Expanded 3.3 VDC
IC200CPU002	CPU Module with expanded user memory

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- 8. Existing VersaMax Module Configuration Support listed below.** These modules were configured with Generic module configurations in VersaPro 1.00.

IC200ALG260 Analog Input Module, 12 bit Voltage/Current, 8 channels

IC200BEM103 DeviceNet Network Master/Slave Module

IC200MDL140 Discrete Input Module, 120VAC, one group of 8 points

IC200MDL141 Discrete Input Module, 240VAC, one group of 8 points

IC200MDL329 Discrete Output Module, 120VAC, isolated, 8 points

IC200MDL742 Discrete Output Module, 24VDC, positive logic, ESCP, 32 points

IC200MDD845 Mixed Input/Output Module, 24VDC In/Relay Out, isolated, 16 points in/8 points out

IC200MDD846 Mixed Input/Output Module, 120VAC In/Relay Out, isolated, 8 points in/8 points out

IC200MDD847 Mixed Input/Output Module, 240VAC In/Relay Out, isolated, 8 points in/8 points out

IC200MDD848 Mixed Input/Output Module, 120VAC In/120VAC Out, isolated, 8 points in/8 points out

- 9. Hardware Configuration user interface improvements:**

- Reference View Restructure
- New Module Parameter Edit Feature

- 10. Word for Word changes for LD blocks only.** PLCs that support Word-for-Word changes include Series 90-30, and VersaMax CPU. Note: VersaMax Nano/Micro Release 1.0 and Series 90 Micro do not support Word-for-Word changes.

- 11. PLC Status Dialog Additions**

- OEM Protection
- CPU Password Protection
- PLC Sweep Mode/Constant Sweep Time setting
- PLC Windows mode setting

- 12. VersaMax PLC Version 1.5**

Expansion I/O Configuration includes the following modules:

IC200ETM001 Expansion Transmitter

IC200ERM001 Expansion Receiver Isolated

IC200ERM002 Expansion Receiver

- 13. 'C' Block Capability for Series 90-30 High End CPUs (CPU35x, 36x)**

- Import C Block from C Toolkit
- Load, Store, and Verify C Blocks

- 14. Auto Assign Next Highest Reference**

Recalculate Highest Reference Used

- 15. Variable Declaration Table Programmatic Interface**

- 16. Integrated Import of Logimaster 90 hardware configuration and Control hardware configuration.**

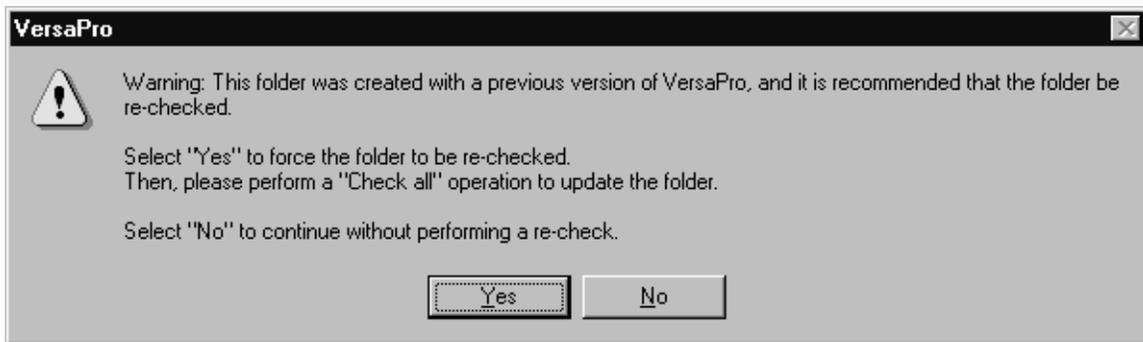
GFK-1671E**17. VersaPro Release 1.10 also adds the following usability improvements:**

- Reference View Table Enhancements
 - Individual data formats
 - Addition of Signed Decimal data formats
 - Individual bit selection
 - Direct editing of on-line values
 - Status Bar for: Reference Address, Binary Value and Display Font
- LD/IL Editor Enhancements
 - Zoom into Blocks from LD/IL Editors
 - Rung Knuckle Selection in LD Editor
 - Coil justification In Configurable Columns 10-20
 - Goto Coil in LD Editor
 - Insert Mode for Functions in LD Editor
 - Find - Instructions in Block
 - Direct edit of on-line values in IL
- Variable Declaration Table (VDT) Improvements
 - Variable Declaration Table Import Conflict Resolution
 - Delete blank entry in VDT
 - Compact variables in VDT
 - Show External in VDT
 - Save sort order of VDT
 - Change state of all selected items in VDT
- Print Enhancements
 - Implicit Cross References
 - Global Highest Reference Used
- Insert of Blocks with Offsetting Capability
- On-line Cross Reference View
- Flag errors and continue on SNF Import
- Remove (filter) unsupported instructions from Function Toolbar
- Search for unused variables
- Search for Overridden Variables
- Variable View Table “array” enhancements
- Additional tabs in the Information Window – General, Cross References, and Find

Special Operational Notes

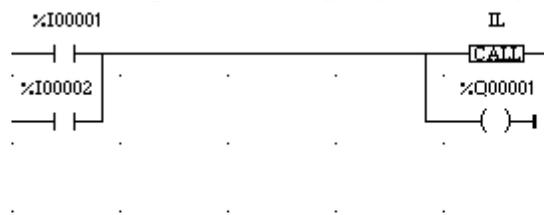
Opening VersaPro 1.00 created folders:

When opening VersaPro 1.00 folders, the following dialog will be presented asking if you want to recheck the folder. The purpose of the re-check is to flag any syntax errors that were not being caught by 1.00 version (see Changes in Syntax Check topic discussed later in the Special Operational Notes section). It is recommended that you select Yes, perform a check all on the folder and correct any syntax errors. After going through this process, the message will not be presented the next time the folder is opened. Selecting No, will not force you to recheck the folder or correct any syntax errors. However, the dialog shown below will appear each time the folder is opened.

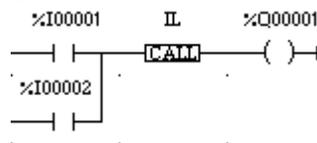


Changes in Syntax Check

1. VersaPro 1.10 has additional syntax checks to catch errors that were not detected in the previous version. This means that programs that previously compiled in VersaPro 1.00 without errors may have errors when using VersaPro 1.10. If this occurs, you can double click on the error message in the Information Window to navigate to the error. For example the following rung would compile in VersaPro 1.00 without error:

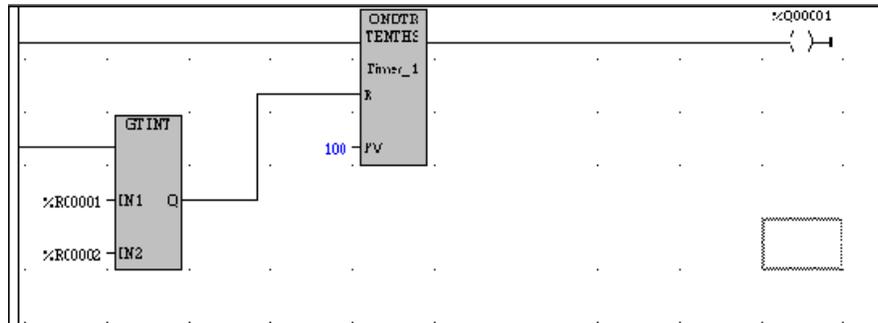


However, this type of construct should not have been allowed because power flow around a function block is not allowed in the 90-30 and VersaMax PLCs. This type of construct should be converted to the following structure to achieve the same functionality:



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- In some cases VersaPro 1.00 allowed the Boolean output of a function to be used as a power flow input to another function. This is considered an illegal construct which is now being flagged as an error in VersaPro 1.10. An example is shown below:



Note

The above syntax checks will not become effective for folders produced with earlier versions of VersaPro unless you make a change and recompile on a per block basis. The syntax checks will be immediately effective on new folders and new blocks.

- Another new check prevents the use of negative decimal constants as parameters with a function like `RANGE_WORD`. The reason is that this function treats all parameters as unsigned decimal. For example, if a range from -1000 to + 1000 is programmed, the results will be the opposite of what you might expect because -1000 will be executed as an unsigned positive number, +64536. If you want to use negative parameters, you should use the `RANGE_INT` function. This same check is also applied to other functions that require or allow Word constants (for example `MOVE_WORD`).

IL Issues:

- Due to LD to IL conversion issues, the LD to IL conversion has been turned off in this version. This functionality will be corrected and turned back on in the next release. IL to LD conversion is still supported.

Series 90 Micro Issues

- There are few cases where you will not be able to establish Logic Equality with the Series 90 Micro PLC after storing or loading. These issues relate to the fact that the Series 90 Micro calculates its own highest reference used rather than using the value provided by VersaPro. You should also perform a “Check All” before storing the program to ensure equality. There are similar problems in Logicmaster for the `DOIO` and `Move_bool` instruction. (CR71458, CR71694, CR72644).
 - Adding a %S7 Always On (ALW_ON) contact for some programs may be required in order to gain equality.** This occurs if the program uses function blocks connected directly to the power rail (i.e. without an interposing contact). Since the Series 90 Micro does not allow function blocks to be directly connected to the power rail, VersaPro inserts a hidden %S7 contact. If the program does not use a %S7 contact explicitly in the program, the Series 90 Micro will not use the %S7 in the highest used reference calculation. However, VersaPro does use the %S7 in the highest used reference calculation. The Series 90 Micro also requires the programmer to insert a hidden `ALW_ON` contact after a timer function which can also cause the same issue.

Resolution: In these cases, you should add a %S7 contact somewhere in the program. This will allow the program to be stored and the status will show Logic Equal.

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- b. **If you use a MOVE_BOOL instruction that has an output operand with the same address as the ALT input operand on the DO_IO instruction, VersaPro will not go equal after a store to the Series 90 Micro.** The problem is that the use map is calculated differently between VersaPro and the Series 90 Micro in this case. This same issue also occurs in Logicmaster.

Resolution: The simplest way to fix this is to not use the same address on the output of a MOVE_BOOL and the input of the DO_IO. If this is not possible, you can add a MOVE_WORD with the output operand set to the same address used by the MOVE_BOOL and DO_IO Alt input. This causes the use maps to be calculated the same in VersaPro and Logicmaster.

- c. **Using temporary variables can cause an equality issue with the Series 90 Micro. Create a Series90 Micro folder and connect to the PLC.** Declare temporary variables: for the Boolean temporary variables use %Q or %M. Store to the PLC. The store will be successful; however, “Logic Not Equal” will be displayed. Perform a verify of Logic and the _Main.dec file will be not equal. This is due to the recalculation of the Dec file by the Series90 Micro PLC. (CR72430)

Resolution: Use %T as the temporary Boolean memory area and the folder will be equal after storing to the Series 90 Micro.

2. The IL language is not supported on the Series 90 Micro.
3. **Invalid Program after import and modification of Series 90 Micro LM90 folder.** A Logicmaster 90 Micro program that contains a vertical wire immediately in front of a single coil will result in the error 0x05F2 - Invalid Program (or too large for PLC) if it is imported into VersaPro, edited, and then stored to the Series 90 Micro PLC. For details, see CR73144 on page 24.

Conversion of Series 90 Micro Folders to VersaMax Nano/Micro folders:

Use the following steps to convert Series 90 Micro folders to VersaMax Nano/Micro folders:

- a. Select File -> New Folder; provide a folder name for the new VersaMax Nano/Micro folder, a location for the folder and a description if desired.
- b. Press the Next button
- c. Choose “Import Logicmaster 90” radio button and select the Logicmaster Series 90 Micro folder under the “From:” text box.
- d. Press the Finish button; VersaPro will convert the Series 90 Micro folder to a VersaPro folder
- e. Open Hardware configuration from the toolbar button, from the View menu or by entering Alt + 4 to change the hardware to a VersaMax Nano/Micro configuration.
- f. Under the Hardware configuration application, select File -> Convert to -> VersaMax Nano/Micro. Select Yes to the “Convert to VersaMax Nano/Micro Rack System” dialog. This creates a UDR005/010 configuration. If this is not the type of VersaMax Nano/Micro required, right mouse click on the picture of the module, select “Replace CPU” and select the desired model from the list.
- g. Select Yes to the HWC dialogs.
- h. Return to the main VersaPro application; select Tools-> Non-Nested to Nested Conversion; Select Yes to the VersaPro dialog. This will convert any non-Nested Jumps and Labels used by the Series 90 Micro program to the Nested form of the instructions supported by the VersaMax Nano/Micro. This conversion will increase the size of the program slightly.
- i. The Hardware configuration for the VersaMax Nano/Micro will be the default configuration since the hardware configuration conversion process does not copy the specific Series 90 Micro configuration. You should set the VersaMax Nano/Micro configuration parameters to match those in the Series 90 Micro Logicmaster folder.

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- j. This completes the conversion process.

Ethernet Global Data (EGD) Issues:

1. **EGD configuration Compatibility Issue:** VersaPro does not allow you to configure EGD exchanges for one byte of data (or an odd number of bytes) when using word type memory such as %R, %AI or %AQ. These exchanges are always even byte exchanges (2, 4, ...).

Resolution: To send or receive one byte (or an odd number of bytes) of data via EGD to PLCs programmed with Control or other non GE Fanuc PLCs, VersaPro must configure the EGD bytes in bit type memory (%I,%Q, etc). Word memory (%R etc) does not allow addressing in individual bytes which means a word causes 2 bytes to be used in EGD transactions. (CR72716)

2. **The configuration for Ethernet Global Data can not be loaded from the PLC.** Uploading a hardware configuration from a PLC containing EGD will result in loss of EGD configuration in the folder (though it will still exist in the PLC). (CR69711).

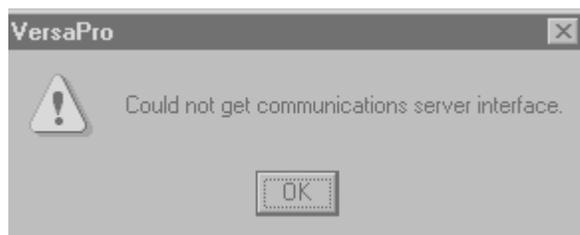
Resolution: The load dialog provides a warning that data will be overwritten. Always make sure that you have a back-up before you load a hardware configuration from the PLC. This is a good programming practice in any situation.

Installation Issues

1. **After installing VersaPro 1.10 and then subsequently installing VersaPro 1.00, 1.01 or 1.02, you may receive the following error during the installation process:**



In addition, you may not be able to connect to PLCs after the installation completes and the following error message may appear.



Resolution: A VersaPro 1.10 user wishing to install VersaPro 1.0 can avoid this problem by following these steps:

- a. **Uninstall VersaPro 1.10:** In the Windows Start menu, select Programs\GE Fanuc Software\VersaPro\Uninstall. You can also open the Control Panel's Add/Remove Programs, then select "VersaPro 1.10" for removal. (Uninstalling VersaPro 1.10 by letting the VersaPro 1.0 installer perform the uninstall should be avoided.)
- b. After the uninstall, shutdown and restart the computer.

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- c. After the computer has started up, delete the "\Program Files\Common Files\GE Fanuc Automation\PLCServer" directory on the hard drive that contains the computers operating system. If you don't delete this directory and instead choose to delete all the files in the directory, you should make sure that the "Show All Files" option is selected under Folder options in Windows explorer. This is to ensure that all files including hidden files are deleted from the directory.
 - d. Install VersaPro 1.0.
2. **VersaPro 1.10 beta customers who previously used builds 1122 and 1129 may see the following error when opening VersaPro for the first time: "gfx_enu.dll is missing".** The problem is due to a issue in the beta versions.

Resolution: Re-installing VersaPro 1.10 a second time will resolve the issue.

3. **Logicmaster 90-30 Version 9.02 provided on the VersaPro 1.10 CD is not Windows 2000 compliant.** When installing Logicmaster 90-30 Version 9.02 with the Windows 2000 operating system, you will get the following error:



Even though this message occurs, Logicmaster appears to work correctly, but it cannot be guaranteed.

Resolution: Logicmaster should be installed on a PC that supports the Windows 95, Windows 98 or Windows NT operating system.

4. **During the installation process, you may be asked to re-boot the PC. In some instances you may receive the following messages on the Windows NT 4.0 operating system:** "Your hard drive may be corrupt. Autochk is running. Skipping Autochk may make the volume unmountable." Autochk will complete, NT comes up as expected, VersaPro operates normally and there are not errors on subsequent re-boots.

Resolution: The problem is caused by starting the re-boot process before a Crypkey service completes and this makes the system believe there was a problem on the previous shutdown. This causes no problems for the system and VersaPro installs correctly.

5. **When installing on Windows 95/98, you may receive the following error:** "Isuninst has performed an illegal operation and will be shutdown."

Resolution: You should simply close the dialog and the install will proceed normally and VersaPro will be installed correctly.

6. **When installing on Windows 95/98 and selecting "Yes" to re-boot the PC to complete the installation, the PC may lock-up rather than power down correctly.**

Resolution: You can reset or power cycle the PC. The PC may run scan disk on power-up but will power up correctly and VersaPro will install normally.

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7. **VersaPro loses default CCU settings if HMI project exists.** VersaPro loses all the default CCU settings if HMI has been installed prior to it and an HMI project has already been created. The gef_cfg.ini file created by HMI does not put information about the serial devices used in the project.

Resolution: Using a text editor, such as Notepad, open the file gef_cfg.snp and copy and paste its contents into gef_cfg.ini. Edit gef_cfg.ini to provide the correct defaults.

Memory Leak when On-line using Windows 95/98

1. **For users with Windows 95, a memory leak exists in the communications sub-system due to an unresolved issue in Microsoft's DCOM.** This will cause the memory usage to grow when you are on-line and actively monitoring changing values on the PLC (~150 bytes per change in data that is in view). There will also be some memory growth even when monitor is off due to updating the PLC status. Depending on the amount of data that is changing, this can cause the program to start running very slowly or become totally unresponsive after approximately 12 hours of continuous usage (CR72361). In addition, this problem can also prevent VersaPro from reconnecting with the PLC after first being on-line and then disconnecting. This problem occurs because the communications server may not have completed the disconnect process due to the time needed to recovery memory.

Resolution: You should disconnect when not actively viewing on-line PLC values. In addition, you should select Monitor Active rather than Monitor All when viewing on-line values when possible. If constant monitoring is required, it is recommended that you re-boot the PC once a day to recover the lost memory or use the NT operating system. If you cannot reconnect after a disconnect, you should re-boot the PC.

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Profibus Issues:

Caution

When using the 90-30 Profibus Master Module (HE693PBM101) with VersaPro 1.10 , you must upgrade the PBM101 module firmware to the latest version in order for the configurations produced by VersaPro 1.10 to be usable by the module. This upgrade is located on the VersaPro CD at the following location: \\HE693PBM101E\Version303. Open the clickme.bat and follow the directions.

1. **If VersaPro is run on a 486 66Mhz PC with 16MB RAM on the Windows NT operating system, the response when adding a 90-30 Profibus module HE693PBM101 can be slow** (up to 60 seconds before the Parameters Dialog for the Module appears). This is caused by some changes to improve the user interface in the hardware configuration and because the Profibus module configuration size has increased significantly. (CR71380)

Resolution: When using Profibus modules in the configuration, you should use a PC with a Pentium class processor and 32MB of RAM minimum.

2. **When loading a Profibus module HE693PBM101 with an older configuration, the configuration will be automatically converted to a new format required to support the new capabilities of the module.** However, this means that the configuration is not compatible with the older module. At this point you must upgrade the firmware of the Profibus module in order for the new configuration to be usable by the module. This upgrade is located on the VersaPro CD at the following location: \\HE693PBM101E\Version303. Open the clickme.bat and follow the directions.

Resolution: The Profibus module firmware should be updated at the same time that the VersaPro 1.10 is installed to avoid this issue.

Docking/Undocking Issues

1. **If the information window, folder browser window or variable declaration table (variable table) window are undocked and you click in the undocked window, you will not be able to select any items from the main menus or other windows in VersaPro until the window is docked again.** These windows can be docked and undocked by using the right mouse within the window and selecting the "Allow Docking" item.

Resolution: You should undock these windows only temporarily in order to move them to a new docked location.

Word for Word Issues:

- **Word for Word online edits cannot be performed** on output coils when the "Coil justification column" option is set under the menu "Tools -> Options", "Ladder" Tab. Word for Word specifications indicate that COIL (), CLOSED_COIL (/), SET (S), RESET (R), TRP(↑), and TRN (↓) should all interchange. When these exchanges are attempted, the coil justification option kicks in and makes the replacement a new coil, making the status go NOT EQUAL. (CR71286)

Resolution: The coil justification column should be turned off when doing word for word changes on these outputs.

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Known Crashes or Lock Up

1. **Insert row in VDT local tab with all blocks closed causes endless loop.**

Details: Close all blocks. Switch to the local tab in the variable declaration table (VDT). Select "insert row". This puts the program in an endless loop and VersaPro must be closed with the Task Manager. After closing, you are prompted to save the VDT. On re-opening the folder a variable with no name exists. (CR72739)

Resolution: You should not attempt to insert row on the local tab in the VDT when all blocks are closed.

2. **Attempting drag on undocked window outside of the VersaPro application window may cause a crash.** (CR72655)

Resolution: You should not attempt to drag an undocked window outside of the VersaPro frame.

3. **VersaPro crashes when putting focus on Find/Replace dialog after closing folder** (CR73125)

Details: Start VersaPro and create a new or open an existing folder. Select Edit->Find/Replace which brings up the Find/Replace dialog box. From VersaPro, select File->Close and then click on any part of the Find/Replace dialog box. VersaPro crashes with the following Application error message: "The instruction at '0x5f40277e' referenced memory at '0x00000000'. The memory could not be 'read'."

Resolution: To avoid this problem, you should not close the folder after starting the search and replace process.

4. **VersaPro locks up during a search operation if focus is placed 5 rows below the last row of logic in a block with 6 rows or less of logic.** (CR72963).

Resolution: Before performing a search on a block that has 6 rows or less of logic, you should place focus on a cell that contains logic.

Communications Issues

1. **VersaPro Stops Communicating with CPU352 on the PLC's second serial port on Windows 95/98** (CR73211).

Details: VersaPro will run for about 20-30 minutes communicating with a CPU352 on the second serial port. After that the light on the PLC stops flickering, indicating the CPU is no longer communicating with the programmer. If you disconnect and then reconnect, you will get an error 'Entry not found in Database' Major Code = 0".

Resolution: When using VersaPro with Windows 95/98 to communicate with a CPU352, it is required that you communicate with the PLC through the serial port on the power supply. In order to release the communications driver for correct operation if you do encounter the problem, you must perform a Ctrl-Alt-Del and then terminate the gefsrv.exe and hdrvsnp.exe programs.

2. Many communication issues can be resolved by properly setting the communications timing parameters which may have been altered from previous programmer sessions on the same PC. Here are some guidelines which can sometimes help when experiencing communication problems:

Guidelines for Communications Configuration

The Communications Configuration Utility (CCU) allows you to view and change your settings for the PLCs that you connect to (over Ethernet or serial line). This information is intended to give you guidelines on how to configure your communications parameters properly.

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Invoking the CCU

From VersaPro you can select Tools -> Communications Setup to invoke the CCU application.

From a command line (within a MS-DOS box or from Start -> Run) you may enter GEFCCU32.EXE. This application is installed in the Windows root directory (usually C:\Windows for Windows 95 or Windows 98, and usually C:\WinNT for Windows NT). Since this location is always in your path, you do not need to specify the path when invoking the CCU.

Logging In to CCU

When you first invoke the CCU, you are presented with a dialog box asking for a password. If you only want to look at your communications parameters (not making changes), then you may click the "View Only" button to view the parameters in Read-Only mode.

The default password is **netutil** (all lower case). This password can be changed (by the Change Password button on the Password dialog box).

Serial Parameter Settings

The original COM port settings that were distributed with Control version 1.00 (and Beta versions earlier than that) had invalid settings for some of the SNP timers (SNP is the GE Fanuc proprietary protocol used to communicate to PLCs over a serial line). These settings can be inherited by VersaPro since it uses the same communications driver. If you encounter communications difficulties, it is recommended that you check your settings in the CCU on the Port tab for each serial COM port and use the following values:

1. Select the Display Advanced Parameters checkbox
2. If you need to make changes, click the Edit button.
3. Set your Request Timeout to 20000 or higher (units are in milliseconds, highest valid value is 63000).
4. Set your SNP_T3 parameter to a value at least 250 greater than Request Timeout. For example, if your Request Timeout parameter is 20000, set SNP_T3 to 20250 or more.
5. Set your SNP_T3P parameter to a value at least 250 greater than your SNP_T3 parameter. For example, if your SNP_T3 parameter is 20250, set your SNP_T3P parameter to 20500 or more.
6. Set your SNP_T3PP parameter to a value at least 250 greater than your SNP_T3P parameter. For example, if your SNP_T3P parameter is 20500, set your SNP_T3PP parameter to 20750 or more.
7. You will need to click OK on both the Edit dialog box and on the main CCU screen to save your changes.

Modem Issues

1. When editing modem parameters in the CCU, any settings made in the setup that the Configure Line button brings up are not saved.

Resolution: In order for the modem settings to be retained, they need to be entered through the Windows operating system. From the Windows Start menu, select Settings->Control Panel->Modems.

2. When setting up VersaPro to communicate with the PLC via modem, the user should ensure that the settings in the PLC match those of the modem. For example, for typical modem applications the PLC should be set up for 19200 baud, no parity, 1 stop bit, and a modem turn around time of 1 using the hardware configuration package in VersaPro and then storing this configuration to the PLC.

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Next, the programmer's PC port must be set up through the Windows operating system by selecting Start->Setting->Control Panel and selecting the Modems icon. The Modems Properties dialog box will appear. The Modem Properties should be set to match the PLCs configuration for number of bits, parity and stop bits. The Advanced Connection Settings should be set to enable Use Flow Control and Hardware (RTS/CTS).

3. From VersaPro, the user should select **Tools -> Communications Setup** to invoke the CCU application. Select Ports->Edit to set the modem turn around time.

Reference View Table Conversion

Upon opening a VersaPro 1.00 folder, the Reference View Tables will be converted to the new format. However, the table formats will be reset to the defaults.

Problems Resolved From Version 1.0

1. **When a variable is created with a length greater than can be displayed in a window in the Variable View Table it is not possible to scroll to see all values for that variable in the table.** The scroll bar is not available to scroll within the context of a single variable. (CR68624)

Resolution: The scroll bar is now available.

2. **It is not possible to paste a rung after the last rung in a ladder logic program.** It automatically gets inserted immediately prior to the last rung of the program. (CR69569)

Resolution: The rung now gets inserted into the proper location.

3. **It is not possible to change the display format of individual entries in the Reference View Table.**

Resolution: Reference view table now support this functionality.

4. **It is not possible to display double integers (DINT) as a display format in the Variable View Table.** (CR69712)

Resolution: DINT is now supported in VVT.

5. **While monitoring Logic and References, the animation of data may appear to slow down after extended periods of operation.** (CR70024)

Resolution: corrected in this version.

6. **An application error may occur when attempting to print to a printer that is not connected to the PC.** (CR70057)

Resolution: corrected in this version.

7. **If the PC is not connected to an Ethernet LAN, and you attempt to connect VersaPro via Ethernet, VersaPro may stay in the Connecting condition.** (CR70076)

Resolution: corrected in this version.

8. **On some Windows 95 or Windows 98 computers, the VersaPro application does not terminate properly if a user initiates a Windows Logoff while VersaPro is still running.** Once this occurs, you must reboot the computer in order to re-start VersaPro. (CR69710)

Resolution: corrected in this version.

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9. **The default display format for timer and counter variables in the monitor mode is a hexadecimal display.** Many users prefer to see the decimal equivalent of these values at run time. (CR69346)

Resolution: The default format for timers and counters is decimal in this version.

10. **If CIMPLICITY HMI is running during installation including running in the background, VersaPro will not be properly installed and the HMI application will no longer run properly.** (CR71683)

Resolution: VersaPro will now install correctly even if HMI is running.

11. **The process for creating a variable can not be aborted or cancelled.** Once an entry in the Variable Declaration Table is initiated, it must be completed before it can be deleted. (CR68086)

Resolution: corrected in this version.

12. **When using the IL editor to paste text data to a text editor application such as Microsoft NotePad, Multi-line comments lose internal formatting characters (carriage returns and line feeds).** This compresses the comment into a single line.

Resolution: corrected in this version.

13. **If multiple variables at the same scope reference the same reference address within the PLC, a conflict message will occur to prevent you from storing reference values to the PLC.** This restriction is limited to within VersaPro, and in no way does this restrict an HMI package from accessing this data.

Resolution: corrected in this version.

14. **It is not possible to double-click on a call instruction in logic and automatically open that block for editing.**

Resolution: This was resolved by the new right mouse menu option to Open block.

Open Issues and Problems

Open issues from Version 1.0:

1. **If you load a hardware configuration from the PLC with the Hardware configuration window open, that hardware configuration is not automatically saved.** If you close the folder at this point without saving the configuration, the loaded hardware configuration will be lost.

Suggested Resolution: There are two simple remedies to this situation: Save the hardware configuration immediately after it has been loaded, or make sure that the hardware configuration application is closed whenever you load a hardware configuration from the PLC. (CR69799)

2. **Auto-configuration of VersaMax generic modules is not supported by hardware configuration.** If you upload a configuration from an auto-configured VersaMax PLC, all generic modules will be replaced by an empty slot. (CR69308)

Suggested Resolution: There is no requirement that you load the Hardware Configuration if the system is autoconfigured. If you choose to load the hardware configuration for documentation purposes, you will need to configure generic modules after loading the hardware configuration from the PLC in this situation.

3. **Coil use checking only checks for explicitly used coils.** If you write to outputs (%Q memory) with a word-oriented function, only the first bit of this memory type will be checked during the coil check process. (CR69797)

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Suggested Resolution: The find operation has implicit reference capabilities to check for this type of operation.

4. **Cut and paste of parameters does not work as expected.** When an input parameter from a function block is copied, it can not be placed as an output parameter on a function block. (CR69512)

Suggested Resolution: Parameters are instance-specific. Inputs to function blocks can be copied to inputs on other function blocks – they will not attach to outputs.

5. **It is possible to configure the VersaMax Thermocouple Module (IC200ALG630) with parameters that exceed the modules range.** If this happens, you will be presented with a System Configuration Mismatch Error in the PLC Fault Table. Until this fault is corrected, this module will not function in the PLC system

Suggested Resolution: Clear the PLC Fault Table, Re-configure the module using the correct parameters for the attached thermocouple device, and store the configuration to the PLC.

6. **The VersaPro product uses the latest version of GE Fanuc communication services.** Products that use TCP communications drivers that are common with VersaPro must be installed before VersaPro in order for VersaPro to operate properly with Ethernet network. This is a TCP I/P driver registration issue. This includes such products as Host Communications Toolkit and Control. If version 2.2 or later of Control is used on the same PC as VersaPro, this is not an issue.

Suggested Resolution: Install VersaPro last, or re-install VersaPro to correct the driver registration.

7. **Storing a hardware configuration that does not match the physical hardware in the rack does not generate fault message in VersaPro and VersaPro states that the item Stored Normally.** (CR69473)

Suggested Resolution: The PLC provides a Config Mismatch fault which can be observed in the Fault Table.

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Other Open Issues:

Communications Issues

ID	Description
CR72181	<p>Communications server (gefsvr) is not unloaded when VersaPro is closed.</p> <p>Details: When closing VersaPro, one of its components that handles communications with the PLCs will remain in memory (gefsvr). When VersaPro is started again, it uses the existing gefsvr component rather than creating a new server. There are no detrimental side effects of leaving this component in memory except that users of laptop computers may have an issue with shutting down..</p> <p>Resolution: If you use a laptop computer with Windows NT, the gefsvr component can be shut down through the task manager. If you use Windows 95 or 98, shut down gefsvr by pressing Ctrl-Alt-Del one time, selecting gefsvr from the list of tasks and then selecting the End Task button.</p>
CR72971	<p>VersaPro Can Not Reinitiate Communications After repeated load/stores/disconnects.</p> <p>Details: In the course of running a test which load/stores/connects and disconnects from the PLC many time, VersaPro will not reconnect. The connection attempt does not time out, it just keeps trying. The connection attempt can be aborted but any subsequent connection attempts will not be successful</p> <p>Resolution: The user can end the following communication tasks through the Task manager (Windows NT) or through Ctrl-Alt-Del (Windows 95/98): gefsvr.exe and hdsrvsnp.exe. This will allow connection to the PLC again. The other option is to re-boot the PC.</p>
	<p>Association of Device Feature in CCU Not Used by VersaPro</p> <p>Details: The CCU is a shared software component with the Control programmer. This utility includes a feature called Association of device which is used by Control. This feature is not supported in VersaPro.</p> <p>Resolution: The Association of Device feature in the CCU should not be used in conjunction with VersaPro.</p>

DSM314 Local Logic and Motion Program Issues

ID	Description
CR70864	<p>Motion and Local Logic Editors Displaying Unprintable characters under Windows 95.</p> <p>Details: Create a comment text below using Microsoft-Word as an editor (Times New Roman, font size 10). When text is copied into local logic and motion editors, the four dots were replaced with the unprintable square box and one dot. This occurs only when running under Windows 95. It is not a problem on Windows NT.</p> <p>//This is a simple comment that //can be copied into an editor....</p> <p>Resolution: When using Word as a text source for motion programs, you should configure Word to view only printable characters. This can be selected under Tools->Options->View.</p>

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ID	Description
	<p>Incorrect Time Constant descriptions and unsupported variables in Local Logic Variable Table</p> <p>Details:</p> <p>1) The comments for Position_Loop_TC_1 and Position_Loop_TC_2 are incorrect. The comment reads "Position Loop Time Constant command in units of 0.01 ms" which is incorrect. It should read "Position Loop Time Constant command in units of 0.1 ms".</p> <p>2) Servo_Ready_3 variable is not supported. The motion parser will issue an error message if this variable is used in a local logic program.</p> <p>Resolution: The user should take into account that the time constant for Position Loop Time is in 0.1ms rather than 0.01ms. Also, the Servo_Ready_3 variable should not be used.</p>

Find and Replace Issues

ID	Description
CR72914	<p>Find/Replace Auto-Assign Increments by 16 on contacts/coils.</p> <p>Details: Using the Find/Replace dialog, I specified to replace %S00008 with %T. Each time the replace occurred on a contact, the Auto-Assign created a new Word type variable. You would expect it to create a new Bit type variable since a Bit type memory is specified for the replace. This issue also applies to IL Blocks and Boolean Constructs (I.e. LD_BOOL, ST_BOOL,...)</p> <p>Resolution: You should avoid using the auto-assign feature when using find/replace since the assignments will not be optimal and the type created for the replacement may not be correct. To avoid using the auto-assign feature, you must specifically put a reference address in for the replace. For example %T2 in the case described.</p>

Hardware Configuration Issues:

ID	Description
CR71631	<p>Incompatibility between MS IntelliPoint Mouse S/W and VersaPro H/W Config.</p> <p>Details: The IntelliPoint software enables you to expand Mouse properties. Under the Visibility Tab, one of the parameters is Hide Pointer While Typing. If this parameter is selected and you attempt to edit CPU or module parameters, the mouse pointer disappears.</p> <p>Resolution: The mouse pointer re-appears once the pointer is positioned outside the H/W Config window. If another application is selected to be in focus and then the H/W Config window is re-selected, the pointer re-appears. Another work around is to disable the "hide mouse pointer while typing" feature in the IntelliPoint software.</p>
CR72897	<p>HE693PBM101 - Import of GSD with comments on Module/EndModule fails.</p> <p>Details When configuring the HE693PBM101 Profibus Master module, importing some GSD Files from the Slave Information tab may fail. GSD files that have comments inside the Module/EndModule declaration cannot be imported in this release.</p> <p>Resolution: With any text editor, remove the comments from the GSD file and try again.</p>

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ID	Description
CR72919	<p>Windows 2000 - Opening Hardware Configuration without Administrator privileges gives error.</p> <p>Details: If you log on to Windows 2000 and do not have Administrator privileges to Windows 2000, then every time that you open Hardware Configuration you get the message: "Failed to update the system registry. Please try using REGEDIT." Click OK to this box and HWC opens normally and there don't seem to be any problems with it.</p> <p>Resolution: Hardware configuration opens and operates normally despite the error message. To avoid receiving the error message, you can log on as Administrator of the PC.</p>
CR71294	<p>Windows NT - When you press F1 in the Data Entry Tool, a "help topic does not exist" message appears.</p> <p>Resolution: Press the dialog box Help button.</p>
CR72999	<p>After load of old Profibus master configuration (PBM101) , verify after successful store of HWC reports checksum and Rack&IO NOT EQUAL</p> <p>Details: When loading from a PLC that contains the configuration for an older Profibus module, the configuration is converted to the new format. However, the hardware checksum is not recalculated which prevents the hardware configuration from being equal with the PLC after a store.</p> <p>Resolution: The user should make a small change in a hardware configuration item which will force the hardware configuration to re-calculate its checksum.</p>
CR73008	<p>If a "module" list in a GSD file contains more than 320 bytes, Hardware Configuration crashes.</p> <p>Details: Importing a GSD file which contains a "module" list that exceeds 320 bytes causes Hardware Configuration to crash.</p> <p>Resolution: The module list in the GSD file must be shortened to 320 characters. To make maximum use of the size available, spaces should be eliminated. If the module list required is still greater than 320 characters, shorten the module list to 320 characters, import the GSD file and then enter the rest of the information directly through the hardware configuration utility in VersaPro.</p>
CR73061	<p>EGD Configuration erroneously appears to be stored successfully to the CPU364 Revision 9.01, which does not support EGD.</p> <p>Details:</p> <ol style="list-style-type: none"> 1) Create an EGD Producer Exchange in VersaPro, Hardware Configuration CPU364 2) Connect to a 364 Firmware Version 9.01. The store will succeed with no errors reported to the user. 3) Set the PLC to Run and try to read the exchange data. No EGD exchanges happen because this version of firmware does not support EGD. However, VersaPro should inform the user that the feature is not supported on the store. <p>Resolution: You should upgrade the CPU364 to firmware revision 9.10 or later when configuring a CPU364 for EGD exchanges.</p>

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HMI Interaction Issues

ID	Description
CR71605/ CR71607	<p>DCOM for Windows 95 version conflict between VersaPro and CIMPLICITY HMI</p> <p>Details: There is a version conflict of DCOM for Windows 95 between VersaPro and CIMPLICITY HMI (version 4.01).</p> <p>STEPS TO REPRODUCE</p> <ol style="list-style-type: none"> 1) Install VersaPro. 2) Install HMI. 3) During the beginning of the installation of HMI, a dialog box is displayed with the message "A newer version of DCOM for Windows 95 had been installed. To override, you must uninstall the current version first." The dialog provides only one OK button. After pressing the "OK" button, the installation proceeds normally and the install is not aborted even though the message suggests that it should abort. 4) Authorize VersaPro. 5) Authorize HMI. 6) Run the VersaPro program and set the PLC to run mode so that a variable can be imported into HMI and that the values are read from the PLC and updated on the HMI screen. 7) Run an HMI project that monitors the point in the PLC and observe the variable online value updates in the point control panel. 8) Stop the HMI project from the HMI workbench. 9) On stopping the project an illegal operation dialog comes up with the message: "HCT_rp caused an invalid page fault in module MFC42.dll at 0137:5f4012a1" <p>Resolution: Even though this error is produced, the HMI project stops without any problems. The HMI project can also be re-started without any issues.</p>

Information Window Issues:

ID	Description
CR71367	<p>Information Window Scroll Bar Issue.</p> <p>Details: In the Information window the following incorrect characteristic exists.</p> <p>When an information window is resized to a larger window, the slider bar/button in the slider area on the right hand side of the display grows to the point it cannot be not be moved up and down. It, therefore, cannot be used to scroll the window (and there is information that can't be seen on the screen). The arrow buttons are the only method to scroll the window.</p> <p>Resolution: The window can be re-sized or the arrow keys can be used to see the information not in view.</p>

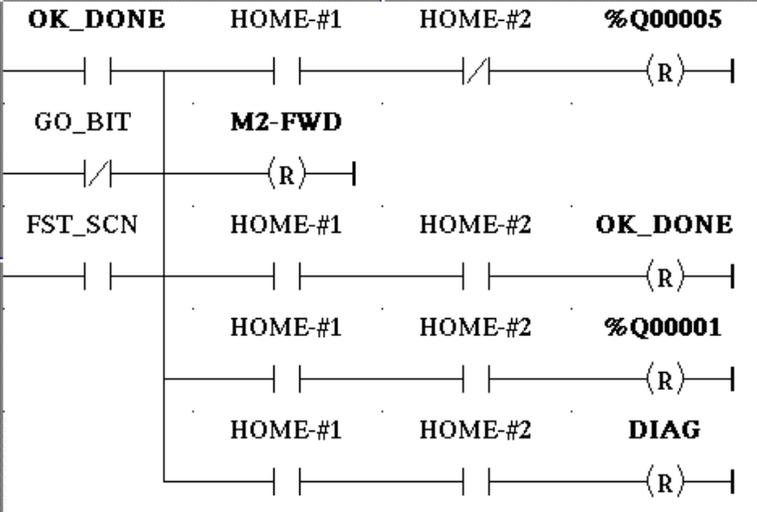
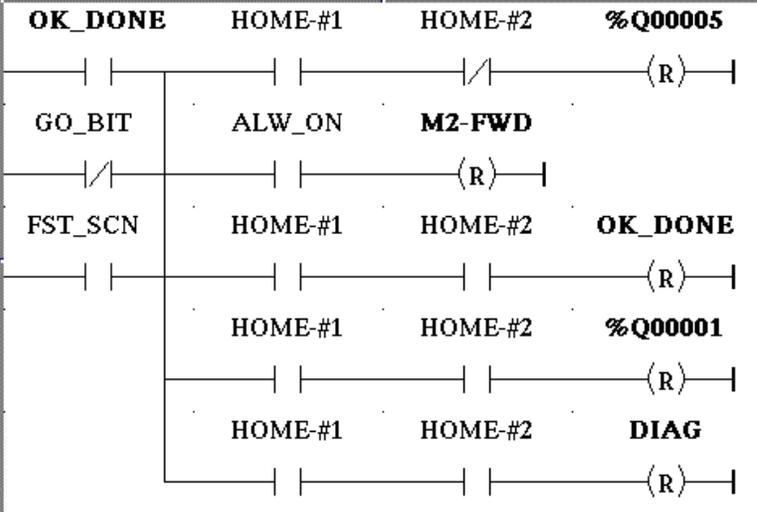
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IL Issues:

ID	Description														
CR72862	<p>Previously created Folders with IL give error.</p> <p>Details:</p> <p>The following IL logic in VersaPro 1.00 stored with no errors to the PLC.</p> <pre> SHFR_BIT(R := %T00210 %T00210 IN := 0 ST :=%R00778 %R00778 Length := 5 Q => %Q00178 %Q00178) SHFR_WORD(R := %T00210 %T00210 IN :=43981 ST :=%R01036 %R01036 Length := 5 Q => %Q00193 %Q00193) </pre> <p>Storing this same logic to the PLC using VersaPro 1.10 fails with two errors: ERROR: [SHFR_BIT()] The accumulator stack is empty. ERROR: [SHFR_WORD()] The accumulator stack is empty. IL - 2 error(s), 0 warning(s).</p> <p>However, VersaPro 1.00 should have flagged this program as an error because these function blocks require the accumulator be initialized with a LD_BOOL instruction in front of them. VersaPro 1.10 has corrected this and will give the errors shown for the sample program above: You may find existing folders that previously compiled with no errors will now have syntax errors.</p> <p>Resolution: You should correct your folders by adding a LD_Bool in front of the following functions: SHFR_BIT and SHFR_WORD.</p> <p>The following functions also require the LD_Bool function in front of them in order to pass syntax check. However, VersaPro 1.00 was already checking these functions and so existing VersaPro 1.00 folders should not have syntax errors on these function blocks.</p> <table border="0"> <tr> <td>TMR_TENTHS</td> <td>ONDTR_HUNDS</td> </tr> <tr> <td>TMR_HUNDS</td> <td>ONDTR_THOUS</td> </tr> <tr> <td>TMR_THOUS</td> <td>BIT_SEQ</td> </tr> <tr> <td>OFDT_TENTHS</td> <td>PID_ISA</td> </tr> <tr> <td>OFDT_HUNDS</td> <td>PID_IND</td> </tr> <tr> <td>OFDT_THOUS</td> <td>SER</td> </tr> <tr> <td>ONDTR_TENTHS</td> <td>DRUM</td> </tr> </table>	TMR_TENTHS	ONDTR_HUNDS	TMR_HUNDS	ONDTR_THOUS	TMR_THOUS	BIT_SEQ	OFDT_TENTHS	PID_ISA	OFDT_HUNDS	PID_IND	OFDT_THOUS	SER	ONDTR_TENTHS	DRUM
TMR_TENTHS	ONDTR_HUNDS														
TMR_HUNDS	ONDTR_THOUS														
TMR_THOUS	BIT_SEQ														
OFDT_TENTHS	PID_ISA														
OFDT_HUNDS	PID_IND														
OFDT_THOUS	SER														
ONDTR_TENTHS	DRUM														

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Import of LM90 or Control Folder Issues

ID	Description
CR71941/ CR71940/ CR71976	<p>Control Version 2.20 VersaMax Configurations can't be imported into VersaPro.</p> <p>Details: Control Version 2.20 VersaMax folders can't be imported into VersaPro.</p> <p>Resolution: Control VersaMax folders should first be opened with Control Release 2.3 and then saved. The updated folder can then be imported into VersaPro.</p>
CR73144	<p>Invalid Program after import and modification of Series 90 Micro LM90 folder.</p> <p>Details: A Logicmaster 90 Micro program that contains a vertical wire immediately in front of a single coil will result in the error 0x05F2 - Invalid Program (or too large for PLC) if it is imported into VersaPro, edited, and then stored to the Series 90 Micro PLC. The Series 90 Micro does not support the optimization that VersaPro performs on this structure.</p> <p>Example:</p>  <p>Resolution: The work around is to add an ALW_ON contact in front of any single coil that has a vertical wire immediately in front of it.</p> <p>Example: An ALW_ON contact was inserted in front of the M2-FWD coil.</p> 

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Installation/Licensing Issues:

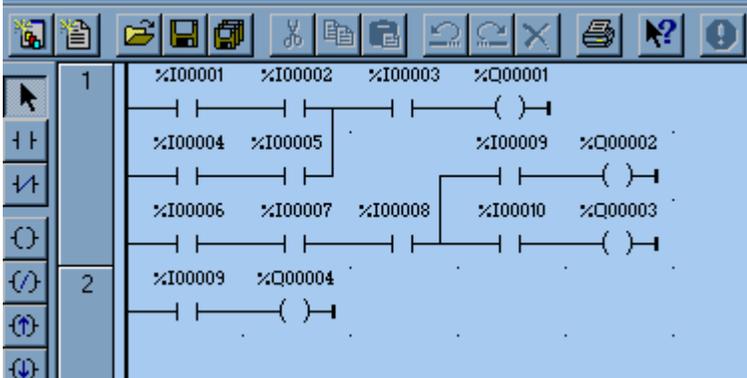
ID	Description
CR71676/ CR71599	<p>Installation of CIMPLICITY HMI 4.01 after VersaPro causes General Protection Fault.</p> <p>Details: After installing CIMPLICITY HMI 4.01 with VersaPro already installed and using VersaPro with a 9030 PLC, a message box popped up with the message "This program performed an illegal operation and will be shutdown. Details: VersaPro caused a general protection fault in module CRP9516A.dll at 0001:0000bd72." After this error is encountered, you won't be able to launch the VersaPro application.</p> <p>Resolution: The HMI install is overwriting a newer version CRYP95A.DLL file which is needed by VersaPro. The solution to this problem is to re-install VersaPro. This will re-install the correct file and HMI will continue to run correctly.</p>
CR72511	<p>Convert File system from FAT to NTFS and defrag of disk remove VersaPro license.</p> <p>Details:</p> <ol style="list-style-type: none"> 1. Install and License VersaPro 2. Open Control Prompt 3. Type at the Prompt convert c: /fs:ntfs 4. In response to the prompt "Do you want to convert at start up?" type y for "yes." 5. Restart your PC. 6. Observe conversion during OS Loader 7. Log on and run VersaPro and message indicates that VersaPro needs to be licensed. <p>This is also occurs after defrag of the disk.</p> <p>Resolution: You should not change the file format or defrag the disk where VersaPro is installed. If this is needed, VersaPro will need to be re-licensed on the affected PC by selecting the Register Now item in the VersaPro program group.</p>
CR73074	<p>Settings.reg error on VersaPro 1.10 install after manually deleting files</p> <p>Details:</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none"> 1) Install VersaPro 1.0. 2) Manually delete the files from "\Program Files\Common Files\GE Fanuc Automation\PLCServer" and the files from "\Program Files\GE Fanuc Automation\VersaPro" 3) Install VersaPro 1.10 from the CD 4) Upon Installation the following error was received: "Cannot import settings.reg: Error opening the file. There may be a disk or a file system error. <p>After dismissing this error, install continues but it also appears that the license tag on the subsequent dialog is missing.</p> <p>Resolution: You should not delete files in order to perform an uninstall of VersaPro. In order to correct the problem after deleting the files and receiving this error, you should re-install VersaPro and it will install correctly.</p>

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ID	Description
CR73105	<p>VersaPro 1.0 uninstall issue</p> <p>Details:</p> <ul style="list-style-type: none"> -Clean machine -Install VersaPro 1.0 Service Pack 2(build 1031) and register the software -Uninstall VersaPro 1.0. -Click "Yes to all" when prompted to delete files -Install VersaPro 1.1_Nano Micro Edition -On reboot, you will get a Windows error message: "At least one system or driver failed during system start up" However this doesn't effect the functionality of VersaPro 1.1_Nano Micro <p>Notes: On using Event viewer, it indicates that system start drivers failed to load Network XX. However this doesn't effect the functionality of VersaPro 1.1_Nano Micro (Build 1150)</p> <p>Resolution: To avoid this problem, choose No to All when uninstalling VersaPro 1.0.</p>
CR73114	<p>VersaPro 1.0 appears non-functional if login profile used with Nano/Micro Edition</p> <p>Details:</p> <p>The Nano/Micro Edition stores user preferences, including the default hardware preference, in a user profile, which Windows often stores on a network. Nano/Micro VersaPro sets this hardware preference to Nano/Micro. If a customer uses Nano/Micro VersaPro on one computer, and then logs onto another computer on the same network that has VersaPro 1.0 -- then VersaPro 1.0 will appear to be non-functional. Whenever the customer tries to create a new folder, the hardware creation fails (because Nano/Micro is not supported by VersaPro 1.0), the New folder command does nothing and no error message is presented.</p> <p>The same thing happens if the customer uninstalls VersaPro Nano/Micro and re-installs VersaPro 1.0 on a single computer.</p> <p>Resolution: The solution is for the user to go to the Tools Menu -> Options dialog in VersaPro 1.0 and set the default hardware type to a 90-30 or VersaMax CPU. VersaPro will crash once on the creation of a new folder and after that it will function correctly.</p>
CR73149	<p>VersaPro 1.0 appears non-functional if login profile used with Nano/Micro Edition</p> <p>Details: If the Default Hardware Configuration was set to 90-30 Low End in VersaPro 1.0, after upgrading to VersaPro 1.1, when you create a new folder, you will get the message "Cannot Create Hardware configuration" and the folder will not be created.</p> <p>Resolution: Changing the Default Hardware Configuration setting fixes this problem. (From the Tools menu, select Options. On the General tab in the Options dialog box, select a default hardware type from the Default Hardware Configuration list.)</p>
CR73136	<p>VersaPro Install problem when logged onto a Novell network</p> <p>Details: When attempting to install VersaPro when also logged onto a Novell network, the following errors will be reported:</p> <ul style="list-style-type: none"> RUNDLL has performed an illegal operation and will be shutdown NWPOPUP has performed an illegal operation..... MSGSRV32 " " ESSVC " " MNTASK " " Installation aborted <p>Resolution: You should re-boot the computer and not log onto a Novell network. VersaPro will then install successfully.</p>

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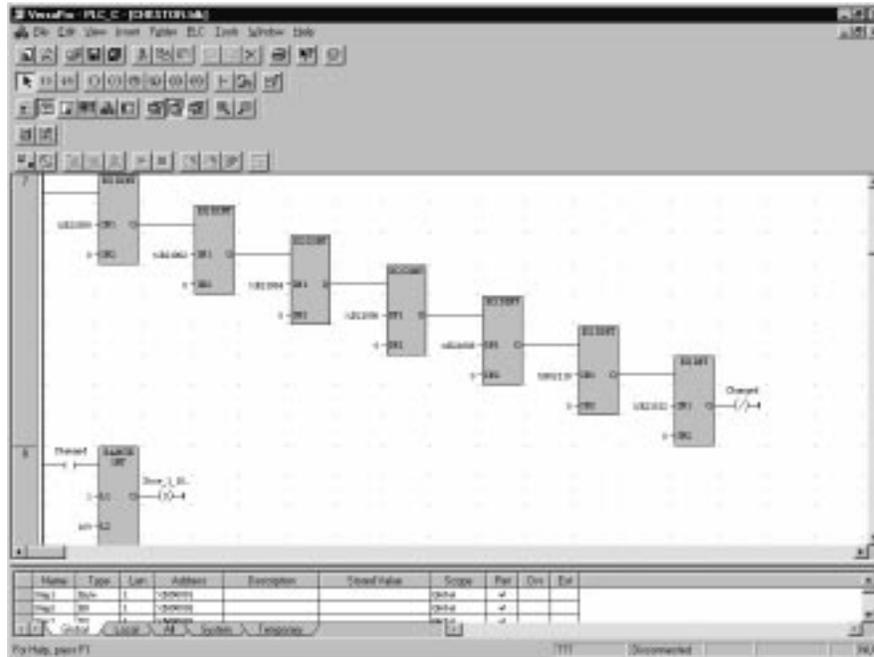
LD Editor Issues:

ID	Description																		
CR72315	<p>Three rung ladder recognized as two rung ladder. Details: The ladder below should be recognized as three rungs, not two.</p>  <p>Resolution: Removing the wire between %I9 and %I10 creates 3 rungs. In general, you should avoid overlapping rows of logic. In this particular example, you should move the second rung down one row.</p>																		
CR72316	<p>Continuation contact in LD missing plus sign with some fonts with Windows 95. Details: Open a folder that has rungs with continuation contacts. Change LD display font to Tahoma 10 pt. With focus in block, select File Print, All, OK. The continuation contact in will be missing the plus sign which makes it look like a regular coil. Also, in Options, widen the cell width a little (move the slider bar about 1/4 inch.). With focus in block, select File Print, All, OK. The continuation coil will be missing a plus sign.</p> <p>Resolution: If continuation coils are needed, you should use the default font (MS Serif). The defect does NOT occur with the default font and the fonts listed below:</p> <table border="0" data-bbox="324 1171 1039 1417"> <tr> <td>Arial</td> <td>Modern</td> </tr> <tr> <td>Arial Black</td> <td>MS Sans Serif</td> </tr> <tr> <td>Arial Narrow</td> <td>MS Serif</td> </tr> <tr> <td>Bookman Old Style</td> <td>Small Fonts</td> </tr> <tr> <td>Comic Sans MS</td> <td>System</td> </tr> <tr> <td>Fixed Sys</td> <td>Terminal</td> </tr> <tr> <td>Garamond</td> <td>Times New Roman</td> </tr> <tr> <td>Haettenschweiler</td> <td>Verdana</td> </tr> <tr> <td>Impact</td> <td></td> </tr> </table> <p>The defect is known to occur with the following fonts and these fonts should be avoided when using continuation contacts:</p> <p>Courier Tahoma</p>	Arial	Modern	Arial Black	MS Sans Serif	Arial Narrow	MS Serif	Bookman Old Style	Small Fonts	Comic Sans MS	System	Fixed Sys	Terminal	Garamond	Times New Roman	Haettenschweiler	Verdana	Impact	
Arial	Modern																		
Arial Black	MS Sans Serif																		
Arial Narrow	MS Serif																		
Bookman Old Style	Small Fonts																		
Comic Sans MS	System																		
Fixed Sys	Terminal																		
Garamond	Times New Roman																		
Haettenschweiler	Verdana																		
Impact																			
CR72637	<p>Find Next (F3) does not Find Next the first time. Resolution: When using the F3 function key for the Find Next function, you may need to press the key a second time to find the next occurrence.</p>																		

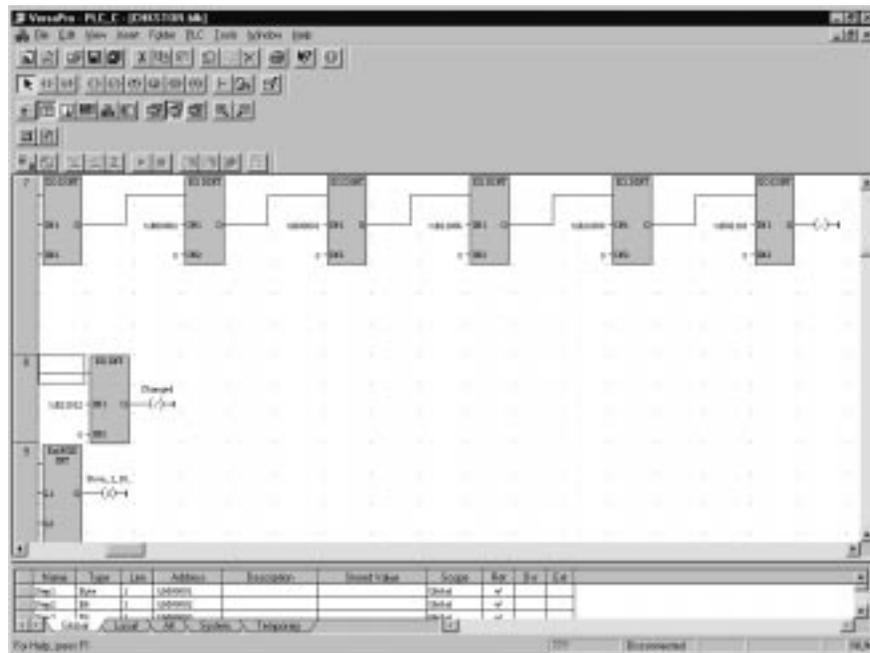
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ID	Description
CR72865	<p>Cannot change data display type for instance variables in LD.</p> <p>Details: Data display type for instance variables in LD cannot be changed when you click on any cell but the top cell of the function block. For example, place an ONDTR_HUNDS instruction in a rung. Store to PLC, start animation. Select the function with the mouse but do not click on the top cell of the function. The default display format is displayed (decimal). Select the right mouse. Select Display Format menu and the following options are available : Binary, Octal, Hexadecimal. NOTE that the Unsigned and Signed Decimal items are grayed out and should be enabled. Select one of the available options.</p> <p>Nothing happens, display format remains the same. This is not a problem in IL.</p> <p>Another related issue occurs when trying to write to the function block instance variable. In writing a value to the instance variable, if you do not click on the top cell of the function, the value is not populated in the edit control. Also, the address is highlighted rather than the value (since the value is not present). You can still write a value to the correct address by typing to the right of the colon.</p> <p>Resolution: You should select the functions by selecting the top cell of the function block to get full access to formatting the display of and writing the value of the function blocks instance variable.</p>
CR72929	<p>Program can be stored but not loaded back.</p> <p>Details: In the following example (Example 1), the program can be stored but cannot be loaded back because on the load VersaPro tries to put the function blocks in a straight line which causes the last part of the rung to be beyond the 20 column limit. You will see the following error message: "An expression requires too much space and can't be displayed" during the load from the PLC.</p> <p>Resolution: It is advised that rungs be constructed straight across to avoid this issue (see Example 2). If a very long single rung is needed, you should use the continuation coil.</p>

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Example 1



Example 2

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LD Editor Issues (cont)

ID	Description
CR73110	<p>VersaPro does not accept max DINT value</p> <p>Details: The Series 90 Micro, VersaMax Nano/Micro and VersaMax CPUs allow a maximum constant DINT value of 2147483866. However, when a check-all is performed using this value, the following error message is encountered:</p> <p>----- Checking folder: Timing_AddDInt. -----</p> <p>Checking block: _MAIN... ERROR: [EQ_DINT] The constant '2147483866' does not match the operand type. _MAIN - 1 error(s), 0 warning(s).</p> <p>----- Syntax check summary. ----- Total errors: 1 Total warnings: 0</p> <p>Resolution: VersaPro 1.10 supports a maximum DINT value of 2147483647. To avoid this error, you should use a DINT value less than or equal to this value.</p>

Password/OEM Key/Access Level Issues

ID	Description
CR72614	<p>Access Level 2 does not allow store of stored/override values.</p> <p>Details: 1) Open any folder and connect to PLC 2) In status dialog, set access to level 2 (Write data level) 3) Do a store of Stored/Override values only</p> <p>An error message will be presented "Store Error 0x0200-Insufficient Privilege Level" Stored values should be allowed at level 2 but overrides require access level 3. This is also an issue with Logicmaster since it does not allow selection of stored values and overrides separately.</p> <p>Resolution: The access level must be set to level 3 or higher in order to store stored/override values.</p>

Print Issues

ID	Description
CR71970	<p>Printing to HP8000 Series Printer Does Not work on Windows 95/98.</p> <p>Details: When trying to print the information window to an HP8000 series printer, the following error is reported: "A printer initialization error was encountered. Unable to execute print command." This is due to an HP printer driver problem.</p> <p>Resolution: You should use another printer with VersaPro until updated HP8000 printer drivers are available that resolve the problem. The other option is to use Windows NT if this printer is required.</p>

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Reference View Table (RVT) Issues:

ID	Description
CR71698	<p>Change RVT format to REAL, all values show 0.0.</p> <p>Details: Change the RVT display format (for the whole table) to DWORD REAL and all cells go to a value of 0.0 even though other values were displayed before the format was changed. The reason this occurs is that the RVT simply displays the Real interpretation of the same binary value that was present when decimal format was being used. It does not convert the number because this would actually change the value of the binary, which you may not want to do.</p> <p>Resolution: If a Real value is desired, you should first format the cell for real and then directly enter the desired value.</p>

Status Information Issues

ID	Description
CR73115	<p>VersaPro reports wrong amount of user memory space remaining on the CPU350 & CPU36x CPUs.</p> <p>Details: The "Status Info" window displays the wrong amount of user memory space remaining after a store of hardware configuration because the memory used by the hardware configuration is not used to calculate the PLC memory usage. The user program space is based both on the logic memory size and the hardware configuration memory size.</p> <p>Resolution: To determine the actual logic memory available, you should subtract the hardware configuration memory usage from the total reported by VersaPro in the Status Info Window. The hardware configuration memory usage can be approximately calculated by adding the Data Size of each component under the Summary tab under the following selection in hardware configuration: Tools->Hardware Configuration Data View. The Data Size is presented in words.</p>

Store/Load/Clear/Equality Issues

ID	Description
CR71034	<p>Failure to achieve logic equal after Load and verify of default program with VersaMax Nano/Micro.</p> <p>Details: Clear logic in PLC. Load logic. Verify logic but logic remains unequal. Since the logic is just loaded, the verify step should say that the logic is equal.</p> <p>Resolution: After loading an auto-configured VersaMax Nano/Micro, you should store the program and configuration back to the PLC, which will cause the logic to be equal..</p>

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ID	Description
CR71325/ CR71929	<p>Store problems after clear/load when using Ethernet module on 90-30 PLCs.</p> <p>Details: VersaPro is connected to a 90-30 PLC via an Ethernet connection.</p> <ol style="list-style-type: none"> 1) Clear hardware configuration or clear all on the PLC. Clear succeeds, you remain connected. 2) Load hardware from the PLC. Load succeeds. 3) Open standalone HWC. The CMM 321 Ethernet module does not appear, a blank slot appears in its place. This is expected since the hardware configuration has been cleared. The Ethernet module should still communicate since it will keep its IP address. However, the clearing of hardware configuration will reset the Ethernet module making it unable to communicate for a short period of time. 4) Store hardware configuration to the PLC. Fails with a "0x0005 Message not yet confirmed" error. <p>Resolution: Retry the store operation. The Ethernet module should complete its reset cycle and communicate again with the programmer.</p>
CR71731	<p>Logic does not become equal when stored to a series 90 Micro PLC.</p> <p>Details: Store a folder to the PLC, but the logic does not become equal in the status bar. Perform a verify of logic and it says Main.dec is equal but _Main.pdt is not equal. This results in the inability to get real time updates in the LD editor. However, after loading the folder back from the PLC into a temp folder, it was verified that the logic was indeed equal to what had been stored from the previous folder and this time the status said the folder was equal.</p> <p>Resolution: The problem does not occur if a "Check All" is performed before storing the folder.</p>
CR71758	<p>Load to a new folder Not equal.</p> <p>Details: When program, containing a variable declared as a Bit in the VDT and used as a word in the program, is loaded from PLC into a new folder, the logic does not show equal.</p> <p>For example, A bit variable declared, %M1, Length =1, Non-retentive in the VDT is used on a contact The variable is also used on an input to a BLK_CLR_WORD instruction, L=1. The DEC file retentive state is generated from the VDT declaration and therefore sets only the bit %M1 to non-retentive due to step #1. When you load to a new folder, %M1, word, L=1, non-retentive is declared in the VDT. A word is declared in the VDT since this is the larger of the two uses. After a load, the folder is automatically recompiled. This time %M1-%M16 are all set to non-retentive in the DEC file. This is because a word is declared rather than a bit. This will result in the folder going not equal with the PLC.</p> <p>This will occur anytime you have declared a Variable as a non-retentive bit, has used the address as both a bit and a word, and loads to a blank Folder.</p> <p>Resolution: To regain equality, you can do one of the following:</p> <ol style="list-style-type: none"> 1) Change the variable declared back to a bit after the load operation. 2) Store the Folder back to the PLC 3) Anytime bit memory is used as both a word and a bit in logic, you should declare it as a word in the VDT.

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ID	Description
CR72183	<p>Inequality after load due to Retentive Map issues.</p> <p>Details: Create a small VersaPro program which contains an Add function and a COIL. Use %M00001 as the output of the Add function. Set the retentiveness of this variable to non-retentive. Use %M00008 on the COIL. Set the retentiveness of this variable to retentive. Then delete the COIL. The usage of the %M0008 variable should remain in the VDT. Compile and store the program. Create a new folder. Load the program you just stored. Notice the folder once the load is complete remains unequal. The problem is the Retentive Map is built based on the VDT. The original folder had a usage of %M00008 which was retentive so the bit was turned ON. However, the second folder when the load was done did not have this usage of %M0008 in its VDT. There was also no usage of %M00008 in the code, except for the implicit usage on the output of the ADD function which was set to non-retentive. Therefore, when the retentive map for the second folder was created the retentive bit for the %M00008 bit was turned OFF. Leaving the folder in the unequal state.</p> <p>Resolution: If the second folder created from the load from the PLC is stored and then loaded the folder will remain equal with the PLC.</p>
CR72406	<p>After storing a folder, the status reads Logic Not Equal.</p> <p>Details: With some folders created with VersaPro 1.0, the folder will intermittently be not equal with the PLC after a store. This is due to a problem in the file that indicates whether blocks have changed and need to be sent to the PLC (smart store document <folder name>.ssx)</p> <p>Resolution: Delete the smart store document “ <folder name>..ssx” located in the directory where VersaPro is installed, compile the folder (check all) and the problem will be fixed.</p>
CR72864	<p>After loading LM90 folder into VersaPro through PLC verifies not equal.</p> <p>Details: Store a folder from LM90 to PLC and Load into a VersaPro folder and verify equality. The Logic is not equal. Although the execution of Logicmaster and VersaPro folders is the same, the binary is slightly different which causes the inequality.</p> <p>Resolution: You should store the VersaPro folder back to the PLC which will cause equality. Subsequent loads will also show equality.</p>
	<p>Folder can't be read after loading using PC with incorrect date</p> <p>Details: After loading from the PLC into a new folder on a PC with a pre-July 1998 system date, the load occurs without error. However when trying to open the folder, the following error is received: “Unable to open folder, unexpected file format”.</p> <p>Resolution: The dates on the files associated with the folder will have dates that are pre-July 1998 in this case. VersaPro interprets these files as being stored in a different format. In order to correct the problem, you should set the computer system clock to the correct date and then load the program from the PLC into a new folder.</p>

Variable Import/Export Issues:

ID	Description
CR70471	<p>Variable import does not operate on SNF command.</p> <p>Details: The variable import does not act on the SNF command, ##&&DelVarDecl,ALLBLOCKS. There is no indication of an ERROR and the variables are not deleted.</p>

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VersaMax Nano/Micro Issues:

ID	Description
CR71425	<p>High Speed Counters should be disabled by default for VersaMax Nano/Micro PLCs.</p> <p>Details: When a new Hardware Configuration is made for the Nano/Micro PLC, all High Speed counter channel function parameters are set to "Counter" by default. The channels should actually be set to "Standard" by default, since during the PLC Auto-configuration the High speed counter channels operate as Standard I/O.</p> <p>Resolution: If high speed counter operation is not desired, you can load the auto-configuration from the PLC or set the counter channel function to standard.</p>
CR72374	<p>Store error for IL folder between 17.3 and 18K.</p> <p>Details: Storing to a VersaMax Micro PLC an IL file that is greater than 17.3K but less than 18K, you may get disconnected from the PLC and the following error message is displayed "Store Error. 0x6D02 – Unknown TargetComm Error". After storing a folder that is less than 17.3K, it stores fine. Likewise, if you store an IL file greater than 18K, an error is expected since this exceeds the Micro's memory limits. Also, if you store a ladder folder with a program size between 17.3 and 18K, it stores fine. The problem is due to the fact that the PLC must do additional processing to compile the IL programs because IL programs internally generate many Jump statements. This processing takes additional time which causes the communication link with the programmer to time out.</p> <p>Resolution: Increase the programmer default request time-outs from the default to 30 seconds to give the PLC enough time to complete the processing of the large IL program.</p>
CR72878	<p>Invalid Hardware Config is not reported if there is a logic store error on VersaMax Nano.</p> <p>Details: When attempting to store an invalid Hardware Configuration with Logic, you only receive a Logic Error. The Invalid Hardware Configuration error is masked/not displayed.</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none"> 1. Invoke VersaPro. Open a folder containing the default Nano/Micro CPU, which is a Micro (UDR005). Connect to a VersaMax Nano, NDR001. 2. Create a Ladder/Instruction List Block. Place no logic in this block. 3. Store hardware config and logic. (Actual CPU is Nano, and CPU in folder is a Micro). 4. Hardware is stored with no errors as displayed in Information window, then attempt to store logic fails giving the following error message: "Store Error: 0X0591 - Program is too large." <p>Expected Results: In the information window, the error "Config not valid" should appear when attempting to store the Hardware Configuration. After attempts to store Hardware Config fail, should exit store attempts.</p> <p>Resolution: The problem can be avoided by storing HW Config separate from Logic. This will confirm whether there is a hardware configuration issue.</p>
CR72856	<p>Verify of %AI fails after perform a successful Store and Load on VersaMax Micro.</p> <p>Details: Verify for %AI reference tables fail after performing a successful Store and Load operation on H/W, Logic and Stored/Override values, of a VersaMax Micro PLC because the potentiometer (analog timers) on the Nano/Micro (including Series 90 Micro) control the values at %AI0016 and %AI0017. The values of these locations will change slightly due to slight variations in the analog signal created by the potentiometers to the A to D converter in the Nano/Micro.</p> <p>Resolution: To avoid the verification failure, do not select verification of stored/override values when using the Nano/Micro. Verification of stored values can be achieved by manually observing reference table values in RVT when on-line.</p>