

Proficy Machine Edition **VERSION 7.00**

Importing Toolchest drawers as copies

You can now import a Toolchest drawer as a copy so that you can retain the original drawer while changing the copy. The drawer imported as a copy receives its own Globally Unique Identifier (GUID), and every fxClass and fxPart in the drawer is assigned a new GUID. The new fxParts are fixed to reference the new fxClasses.

For more information: on the Machine Edition Help menu, click Search. In the Search window that appears, search for "To import a Toolchest drawer as a copy" (USE THE QUOTATION MARKS).

Maintaining the project folder hierarchy when restoring a project

When restoring a project, you do not need to drill down to the exact folder under My Computer or Shared Projects on the Manager tab before you right-click and choose Restore. By setting the Maintain Folder on Project Restore property to True, you can right-click My Computer or Shared Projects and choose Restore, and the project is automatically restored to the folder from which it was backed up. Folders are created if they had been deleted.

For more information, including an example: on the Machine Edition Help menu, click Search. In the Search window that appears, search for "Ensuring that Machine Edition projects are always restored to their original folders" (USE THE QUOTATION MARKS).

You can permanently hide a variable limit warning

When a Machine Edition project has nearly 250,000 variables, a performance degradation warning appears when saving the project. The dialog box displaying that message now has a check box that you can select if you never want to see that warning again for that given project.

New Features for specific Machine Edition products

There are new features in Logic Developer - PLC, Logic Developer - PC, and View. For information, select the product name in the Product list box above.

Tip

Click the Fixed Defects tab.

Proficy Logic Developer - PLC **VERSION 7.00**

Support for Profinet

Machine Edition 7.00 supports Profinet in simplex (non-redundancy) mode.

New PACSystems Hardware:

- IC695PNC001: RX3i Profinet Controller (2 SFP)
- IC695PNS001: VersaMax Profinet IO Scanner (2 RJ-45 Copper connectors)
- IC695PNS002: VersaMax Profinet IO Scanner (2 SC-Duplex Fixed Optic connectors)

The IC695PNC001 (PNC) module supports the IC695PNS devices and third-party devices.

For more information: On the Machine Edition Help menu, click Search. In the Search window that appears, search for "Profinet Support" (USE THE QUOTATION MARKS).

Integration with the PAC8000 I/O Configuration Tool

In Machine Edition, on the Utilities tab of the Navigator, click the PAC8000 I/O Configuration Tool node to open the PAC8000 I/O Configuration Tool in another window.

Automatic export of LD, FBD, and ST blocks when a project closes

By setting the Auto-export on Close option to True, you ensure that the LD, FBD, and ST blocks of all Logic Developer - PLC targets of a project are automatically exported to .xml files when the project closes, unless you close it without saving.

For more information: on the Machine Edition Help menu, click Search. In the Search window that appears, search for "Auto-export on Close" (USE THE QUOTATION MARKS).

Enhancements on downloading a coupled Hardware Configuration and logic

In previous versions of Machine Edition, as soon as one variable was used in the Hardware Configuration (HWC), the HWC and logic were permanently coupled. That is, you could not download them separately; in the Download to Controller dialog box, the Program option had to be selected to download them, together.

In Machine Edition 7.00, it is only when you make certain kinds of changes to variables used in the HWC that you need to download the HWC and logic together. Generally speaking, those changes include the following:

- Adding a variable to the HWC
- Removing a variable from the HWC
- Changing the name, the bit-size of the data type, or the array dimension(s) of a variable used in the HWC

For a complete list of changes that trigger a coupled download: on the Machine Edition Help menu, click Search. In the Search window that appears, search for "Coupled Hardware Configuration and Logic" (USE THE QUOTATION MARKS). Select the topic entitled "Coupled Hardware Configuration and Logic".

Note: In Machine Edition 7.00, the FIRST TIME you download an HWC and logic that were permanently coupled in a Machine Edition earlier than 7.00, you need to download them together. This initial download initializes the Controller to accept separate downloads of

the HWC and logic when no coupling changes are made.

The Program option no longer appears in the Download to Controller dialog box. If you forget to download both the HWC and logic when you should, a message appears to that effect.

Support for a new PACSystems RX3i main rack

- **IC695CHS007:** 7 Slot Universal Backplane

The CHS007 does not support expansion racks. It contains 7 slots: Slots 0 through 6.

For more information: on the Help menu, click Search. In the Search window that appears, search for "IC695CHS007 or CHS007" WITHOUT the quotation marks.

Support for the IC694DNM200: RX3i DeviceNet Master

The IC693DNM200 (90-30 DeviceNet Master) and IC694DNM200 modules are functionally identical and can be used interchangeably in a Series 90-30 rack system and a PACSystems RX3i rack system. The only differences are the following:

- The IC693DNM200 module has a black cover, to match the Series 90-30 color scheme, while the IC694DNM200 has a blue cover, to match the PACSystems RX3i color scheme.
- When you configure a PACSystems RX3i rack system in Logic Developer - PLC, you can select IC693DNM200 or IC694DNM200. When you configure a Series 90-30 rack system, you can select only IC693DNM200; even if the rack physically contains an IC694DNM200, selecting IC693DNM200 in Logic Developer - PLC is adequate: configure the IC693DNM200 as if it were an IC694DNM200.

For more information: on the Help menu, click Search. In the Search window that appears, search for "DNM200 OR IC693DNM200 OR IC694DNM200" WITHOUT the quotation marks.

Enhancement to catalog version upgrades for Hardware Configuration modules

When a module's catalog version upgrade is required, no message box appears for you to click OK. Instead, the Feedback Zone displays a message to the effect that the catalog version upgrade has been performed on the module. The message appears in a different tab of the Feedback Zone, depending on when the upgrade takes place.

When the upgrade takes place Feedback Zone tab

Upload	Build tab
Import	Import tab
Opening the project	Messages tab

When a catalog version upgrade is optional, the dialog box is still displayed for you to select Yes or No. Now the Feedback Zone displays an upgrade message for optional upgrades.

Tip

Click the Fixed Defects tab.

Proficy Machine Edition - System Requirements **VERSION 7.00**

Component	Requirements				
Development Environment	Operating System	Windows 7 ^a	Windows Vista ^b	Windows XP ^c	Windows 2000 ^d
	Machine Edition Product				
	Logic Developer - PC View	✓	✓	✓	✓
	Logic Developer - PLC	✓	✓	✓	✓
	Logic Developer - State			✓	✓
	Motion Developer			✓	✓

Notes

- 32-bit or 64-bit variations of the following: Windows 7 Ultimate, Windows 7 Enterprise, or Windows 7 Professional. For more information, click the Release Notes tab.
- Windows Vista Enterprise, Windows Vista Enterprise SP1 or SP2, Windows Vista Business, or Windows Vista Business SP1 or SP2 - all in 32-bit form. Logic Developer - PLC also supports 64 bit Windows Vista. You must be part of the Administrators group. For more information: On Machine Edition's Help menu, click Search. In the Search window that appears, search for "Windows Vista: Caveats" (USE THE QUOTATION MARKS).
- Supported:** Windows XP Professional SP2 and SP3. You must be part of the PowerUsers group or the Administrators group.
Not supported: Windows XP Tablet PC Edition and Windows XP Embedded.
- Windows 2000 Professional SP4. You must be part of the PowerUsers group or the Administrators group.
- View requires Windows 2000 Professional SP4 Rollup 1.
- Windows regional settings must be set to English.

Other requirements

- Internet Explorer 8.0, 7.0, 6.0 SP1 or later, or 5.5 with SP2 Q810847 or later.
Note: You must install Internet Explorer before installing Machine Edition.
- TCP/IP Network protocol-based computer (if you use an Ethernet connection).
- Requirements for processor speed and memory:
 - Minimum: 1 GHz Pentium-based processor with 256 MB RAM
 - Recommended: 2 GHz Pentium-based processor with 512 MB RAM
 - Recommended for View if you execute View Runtime sessions in Data Logging Windows with a 500 ms data update or faster: 2 GHz Pentium-based processor with 2 GB of RAM
 - Recommended for Logic Developer - PLC: 2 GHz Pentium-based processor with 2 GB of RAM. For Logic Developer - PLC projects with more than 1024 Hardware Configuration (HWC) modules, we recommend that you add another 2 GB of RAM.
 - For projects with more than 75,000 variables or variable elements, adding another 2 GB of RAM is *strongly* recommended.
 - Example: If a project has 100,000 variables and 1800 HWC modules, use at least 6 GB of RAM.
- .NET Framework 2.0. If the Microsoft .NET Framework is not yet installed, it is automatically included during installation of Machine Edition.

- 2 GB of hard disk space. Additional space is required for your projects and temporary files.

The Development Environment is supported on VMWare with the following VMWare requirement:

- VMWare Player 2.0 or greater
- or -
- VMWare Workstation 6.0 or greater

Note: The APM Motion Programmer does not function if Proficy Machine Edition is executed from within VMWare.

Windows PC Runtime

- When you install only View Runtime or Control Runtime from the DVD, the Runtime executables are automatically updated from the development computer when the project is downloaded.
- Windows 7 Ultimate, Windows 7 Enterprise, Windows 7 Professional, Windows Vista Enterprise, Windows Vista Enterprise SP1 and SP2, Windows Vista Business, Windows Vista Business SP1 and SP2, Windows XP Professional SP2 and SP3, Windows XP Embedded, or Windows 2000 Professional SP4

Notes

- The above versions of Windows 7 are supported in both 32-bit and 64-bit.
- The above versions of Windows Vista are supported in 32-bit.
- View requires Windows 2000 Professional SP4 plus KB835732 or Rollup 1.
- Windows regional settings must be set to English.
- Windows XP Tablet PC Edition is not supported.
- 233 MHz Pentium-based workstation (1.6 GHz recommended)
 - Note:** 300 MHz is required for Windows XP Professional or Windows 2000.
- 200 MB free hard disk space
- 128 MB RAM (1 GB recommended; minimum 256 MB on Windows XP)

The following table describes the minimum requirements needed for the range of variables defined in your projects.

Requirements	Variables		
	< 500	500 - 10000	> 10000
CPU	233 MHz	1 GHz	2 GHz
Disk Space	200 MB	200 MB	200 MB
RAM	128 MB	512 MB	1 GB

QuickPanel View/Control Runtime

- For HMI and Logic components: QuickPanel Control
- For HMI only: QuickPanel View

Proficy Change Management Server

- Microsoft® Windows® XP™ Professional, Service Pack 2 or 3. Since Windows® XP™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2003, Service Pack 2 R2. Since Windows® Server 2003 has continuous updates, you should run the Windows update feature to get

the latest software.

- Microsoft® Windows® Vista™, Service Pack 2, Business, Enterprise, or Ultimate Edition. Since Windows® Vista™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 (32-bit), Service Pack 2, Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 R2 (64-bit in WoW mode), Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® 7 (32-bit, or 64-bit in WoW mode), Professional or Ultimate Edition. Since Windows® 7 has continuous updates, you should run the Windows update feature to get the latest software.

Notes

- Windows regional settings must be set to English.
- Proficy Change Management is not supported in environments that use Microsoft Terminal Services or Microsoft Cluster Server. Windows XP Tablet PC Edition and Windows XP Embedded are not supported.
- For Microsoft® Windows® 7, Windows® Vista™, and Windows® Server 2008, you must be an Administrator. For Microsoft® Windows® XP Professional, you must be part of the PowerUsers group or the Administrators group.
- Ethernet Network Adapter and the TCP/IP Network Protocol (100Mbit).
- Microsoft® Internet Explorer™ version 8.0, Internet Explorer™ version 7.0, Internet Explorer™ 6.0 with Service Pack 1 or later.
- 2.0 GHz Pentium-based computer recommended.
Note: See your sales representative for server system recommendations based on your projected number of Manager Clients and the projected size of your project database.
- 20 GB free hard disk space, plus storage space for project files.
- 1 GB RAM.
- Microsoft Visual SourceSafe 6.0d Build 31222 or later (Server installation), or Visual SourceSafe 2005.

Notes

- The 6.0d version can be acquired by installing the Microsoft Visual Studio 6 SP6 update. For more details, visit Microsoft's web site at www.microsoft.com.
- If Visual SourceSafe 6.0 is installed and you want to upgrade to Visual SourceSafe 2005, you must first uninstall Proficy Machine Edition, **reboot your computer to avoid potential operating system corruption**, and then uninstall Visual SourceSafe 6.0. You can then install Visual SourceSafe 2005 and then reinstall Machine Edition. Uninstalling only Visual SourceSafe 6.0 does not remove it from the computer as Machine Edition retains a copy.

Proficy Change Management Client

- Microsoft® Windows® XP Professional, Service Pack 2 or 3. Since Windows® XP™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2003, Service Pack 2 R2. Since Windows® Server 2003 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Vista™, Service Pack 2, Business, Enterprise, or Ultimate Edition. Since Windows® Vista™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 (32-bit), Service Pack 2, Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you

should run the Windows update feature to get the latest software.

- Microsoft® Windows® Server 2008 R2 (64-bit in WoW mode), Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® 7 (32-bit, or 64-bit in WoW mode), Professional or Ultimate Edition. Since Windows® 7 has continuous updates, you should run the Windows update feature to get the latest software.

Notes

- Windows regional settings must be set to English.
- Proficy Change Management is not supported in environments that use Microsoft Terminal Services or Microsoft Cluster Server. Windows XP Tablet PC Edition and Windows XP Embedded are not supported.
- For Microsoft® Windows® 7, Windows® Vista™, and Windows® Server 2008, you must be an Administrator. For Microsoft® Windows® XP Professional, you must be part of the PowerUsers group or the Administrators group.
- To connect to the PCM server in a 64-bit environment, you will need to enter the PCM server IP address and name in the host file.
- Microsoft® Internet Explorer™ version 8.0, Internet Explorer™ version 7.0, Internet Explorer™ 6.0 with Service Pack 1 or later.
- 1.5 GHz Pentium-based computer recommended.
- 50 MB hard disk space, plus storage space for project files (500 MB recommended to start with).
- 512 MB RAM (1 GB recommended).
- Ethernet Network Adapter and the TCP/IP Network Protocol (100 Mbit).

Proficy Change Management Thin Client

Note: These system requirements apply to the Thin Client, including the Scheduler and Scheduler Editor used with the Thin Client.

- Microsoft® Windows® XP™ Professional, Service Pack 2 or 3. Since Windows® XP™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2003, Service Pack 2 R2. Since Windows® Server 2003 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Vista™, Service Pack 2, Business, Enterprise, or Ultimate Edition. Since Windows® Vista™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 (32-bit), Service Pack 2, Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 R2 (64-bit in WoW mode), Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® 7 (32-bit, or 64-bit in WoW mode), Professional or Ultimate Edition. Since Windows® 7 has continuous updates, you should run the Windows update feature to get the latest software.

Notes

- The Proficy Change Management Thin Client is supported in environments that use Microsoft® Terminal Services.
- Microsoft® Windows® regional settings must be set to English.
- Microsoft® Windows® XP™ Tablet PC Edition and Windows XP™ Embedded are not

supported.

- For Microsoft® Windows® 7, Windows® Vista™, and Windows® Server 2008, you must be an Administrator. For Microsoft® Windows® XP™ Professional, you must be part of the PowerUsers group or the Administrators group.
- To connect to the PCM server in a 64-bit environment, you will need to enter the PCM server IP address and name in the host file.
- Internet Explorer™ version 8.0, Internet Explorer™ version 7.0, Internet Explorer™ 6.0 with Service Pack 1 or later.
- 1.5 GHz Pentium-based computer recommended.
- 50 MB hard disk space, plus storage space for project files (500 MB recommended to start with).
- 512 MB RAM (1 GB recommended).
- Ethernet Network Adapter and the TCP/IP Network Protocol (100 Mbit).
- Microsoft .NET 2.0.

Scheduler Engine

- Microsoft® Windows® XP Professional, Service Pack 2 or 3. Since Windows® XP™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2003, Service Pack 2 R2. Since Windows® Server 2003 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Vista™, Service Pack 2, Business, Enterprise, or Ultimate Edition. Since Windows® Vista™ has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 (32-bit), Service Pack 2, Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® Server 2008 R2 (64-bit in WoW mode), Standard or Enterprise Edition. Since Windows® Server 2008 has continuous updates, you should run the Windows update feature to get the latest software.
- Microsoft® Windows® 7 (32-bit, or 64-bit in WoW mode), Professional or Ultimate Edition. Since Windows® 7 has continuous updates, you should run the Windows update feature to get the latest software.

Notes

- Microsoft® Windows® regional settings must be set to English.
 - Microsoft® Windows® Vista™, Windows® XP™ Tablet PC Edition, and Windows® XP™ Embedded are not supported.
 - For Microsoft® Windows® 7, Windows® Vista™, and Windows® Server 2008, you must be an Administrator. For Microsoft® Windows® XP™ Professional, you must be part of the PowerUsers group or the Administrators group.
 - Proficy Change Management Client.
 - Microsoft® Internet Explorer™ version 8.0, Internet Explorer™ version 7.0, Internet Explorer™ 6.0 with Service Pack 1 or later.
 - 1.5 GHz Pentium-based computer recommended.
 - 50 MB hard disk space (in addition to hard disk space required for the Proficy Change Management Client).
 - 512 MB RAM (1 GB recommended).
 - Ethernet Network Adapter and the TCP/IP Network Protocol (100 Mbit).
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