



Proficiency Batch Execution 5.6

Important Product Information

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Batch Execution 5.6 New Features

Batch Service Provider

The Batch Service Provider allows you to integrate the Batch Campaign Management feature into Proficy Workflow. The following steps provide more information on how to install and setup the Batch Service Provider:

Installing Proficy Host
Installing the Batch Service Provider
Configuring the Proficy SOA Server Certificate

Installing Proficy Host

Proficy SOA provides support that allows service providers from other products in the Proficy product family, such as Batch, to integrate and interact with a master Proficy SOA Server. This integration allows you to publish data from these products to the Directory of Resources and access it from within the Proficy Client.

After a Proficy Host instance is created, the contents of any AppServer.xml files that are included in the installation can be read by the Proficy Host, and the services defined in those files become available to the Proficy system. The contents of an AppServer.xml file informs the Proficy Host of the service provider(s) to load for the product and where to find them.

The System Status Monitor Display shows the structure of your Proficy system, including any Proficy Hosts connected to your Proficy SOA Server and their corresponding projects, application servers, and services.

To install Proficy Host:

1. On the computer where the Batch services are installed, ensure the Net.Tcp Port Sharing service is started.
2. On the computer where the Batch services are installed, insert the Proficy Workflow installation CD and browse the CD for InstallFrontEnd.exe.
3. Double-click InstallFrontEnd.exe. The Install Proficy Workflow dialog box appears.
4. Click Install Proficy Workflow. The Proficy Workflow Setup Wizard appears. Click Host Only. The End-User License Agreement appears.
5. Carefully read the license agreement. Click I Agree. The Choose Install Location page appears.
6. To accept the default installation location, click Next; otherwise, click Browse to specify a different installation location. The Configure Proficy Host Instance page appears.
7. Select Configure a new host instance later and click Next. The Firewall Detected screen appears.
NOTE: For information about configuring the host instance, refer to the Install Proficy Host Instance procedure, which follows.
8. Click Next. The Ready to Install screen appears.
9. Click Install. Files are copied to the specified location.
10. Click Finish.

To configure the Proficy Host Instance:

1. Click Start, point to All Programs > Proficy > Proficy Workflow > Configuration, and then click Configure Host. The Configure Proficy Host wizard appears.
2. Click Add Host Instance. The Add Proficy Host Instance page appears.
3. In the Host Instance section:
 - a. In the Instance Name field, enter a name for this Proficy Host instance.
 - b. In the Computer Name field, enter the name or description of the computer that you are installing the Host instance on, or accept the default entry.
 - c. From the Instance Type list, select the type of Proficy Host you want to install.
4. In the Proficy Workflow Server section:
 - o In the Computer Name field, enter the name of the computer where the Proficy SOA Server is installed, or accept the default entry.
NOTE: Any resolvable computer name or IP address can be used when installing the Proficy Host.
5. Click Add.
6. Click Exit

NOTE: You should be able to ping the SOA server by the fully qualified name. If not, contact your network administrator.

Installing the Batch Service Provider

The Batch service provider must be installed and run on each Batch server computer (where the Batch services are located). The service provider connects to the Batch services and exposes database access and message services of the Batch server in Proficy SOA compatible formats.

For information on software requirements, please see the topic, Software Requirements.

NOTE: Batch Service Provider supports communication to a single Proficy SOA Server.

To install the Batch Service Provider:

These instructions assume that Proficy* Workflow has been installed on a different computer, and that you have installed Proficy* Host on the Batch server prior to installing the Batch service provider.

1. On the computer where the Batch services are installed, insert the Proficy Batch installation CD and browse the CD for InstallFrontEnd.exe.
2. Double-click InstallFrontEnd.exe. The Welcome screen appears.
3. Click Install Batch Service Provider. The InstallFrontEnd dialog box appears.
4. Click Yes. The Install Shield Wizard appears.
5. Click Next. The End User License Agreement appears.
6. Select I accept the terms in the license agreement and click Next.
7. If Proficy Host is detected, the Proficy Host Setup Information screen will appear. Enter the following information and click Next. If Proficy Host is not detected, a warning message will appear.
 - o **Proficy Host Server Instance:** Type the name of the Proficy Host server instance. This is the same information entered when installing Proficy Host.

The Ready to Install the Program screen appears.

8. Click Install. The necessary files are installed and configured and the InstallShield Wizard Completed screen appears.
9. Click Finish.

Configuring the Proficy SOA Server Certificate

Configuring the Proficy SOA Server certificate allows your Proficy Host to communicate with the Proficy SOA Server.

NOTE: You must have installed the Proficy SOA Server and the Proficy Host before configuring the certificate.

To configure the Proficy SOA Server certificate:

1. On the Proficy SOA Server computer, double-click ProficySTSConfiguration.exe. The default location of this utility is \Program Files\Proficy\Proficy Workflow\Program. The Proficy STS Configuration Tool appears.
2. Under Proficy STS Overview, click Proficy Servers Configuration.
3. Under General, click Add New. A new address is added to the Proficy Servers Configuration list.
4. In the Address field, enter the address of the computer that the Proficy Host is installed on. leave the **net.tcp://** and enter the server information. For example:
net.tcp://mypaserver:8201/ProficyPlatform
5. Click Select. A dialog box appears displaying a list of certificates.
6. Under the Issued To list, select ProficyPlatform, and then click OK.
7. Close the Proficy STS Configuration Tool and when prompted to save your changes, click Yes.
8. Restart the ProficySTS Server.
 - a. On the Control Panel, point to Administrative Tools, and then select Services. The Services dialog box appears.
 - b. Select ProficySTS, and then click Restart the service.

New Master Process Cell Field for Shared Units

In the Unit Properties dialog box, you can now designate a Master Process Cell (primary process cell) for a shared unit. When you designate the Master Process Cell, you are designating which process cell is reported in the Event Journal. For more information on this new field, refer to the "Unit Properties Dialog Box" topic in the Equipment Configuration e-book.

New Options for Batch Configuration

The Batch Execution Configuration dialog box contains two new fields for server configuration for the hold time on the: Command Acknowledgement and Parameter Verify.

In the new Command Acknowledgement field, you can enter the number of minutes to wait for a command acknowledgement from the PLC before the batch is put in a holding state.

In the Parameter Verify field, you can enter the number of minutes to wait for parameter verification from the PLC before the batch is put in a holding state.

For more information on these two new fields, refer to the "Server Tab" topic in the System Configuration e-book.

Enhancements to ActiveX Controls

the ActiveX controls include the following changes for Batch 5.6:

- **BatchList** - The BatchList ActiveX control now contains a Recipe Filters property page. The Recipe Filters property page lets you set the filter attributes for the recipe list that appears when you add a batch through the BatchList control in run mode. The recipe list filters according to the filter conditions set on this property page.
- **BatchManualPhase** - The BatchManualPhase ActiveX control now lets you to adjust the vertical scrollbar in design mode, and allows for those changes to persist in run mode.

For more information on the ActiveX controls, refer to the "Custom Applications" e-book.

VBIS Enhancements

The VBIS automation interfaces includes the following enhancements:

- The VBISRecipe3 Interface now includes the following new methods: GetProductFormulationHeader and GetGlobalFormulationHeader.
- The new methods, GetProductFormulationHeader and GetGlobalFormulationHeader, return the new VBISFormulationHeader interface.

For more information on VBIS, refer to the "VBIS Automation Reference" e-book.

Database Table Modifications

The following table lists modified tables and updated attributes for Batch Execution.

Table Name	Changes
Campaign Table	BatchNameSequence is a new attribute, 128 characters.

Batch Execution 5.6 Release Notes

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Important Information for Windows Users

Windows Firewall Exceptions

NOTE: The following only applies if you enable the firewall after you install Batch. Otherwise, the programs are added to the firewall exception list during installation.

In general, you must add the specified executable (EXE) file(s) as exceptions to the Windows Firewall. You can do so in one of the following ways:

- The first time an executable program file attempts to communicate, a Windows Security Alert dialog box will appear, indicating that Windows Firewall has "blocked some features of the program". To add the indicated file to the exceptions list, click Unblock.
- Use the Batch Services Configuration utility to add the file to the Exception list. Click the Start button, point to Programs, Proficy Batch Execution, and then Services Configuration. The Batch Execution Services Configuration Utility dialog box appears. Click the DCOM tab, and if Windows Firewall is enabled, select the BatchClient.exe, BatchServer.exe, VBIS.exe, EIBServer.exe and CampaignServer.exe check boxes to add them to the Windows Firewall Exception list.
- Manually add the executable program file to the Windows Firewall exceptions list before attempting communications. To access the exceptions list, in the Windows Control Panel, double-click Security Center, and then click Windows Firewall. To add a new file to the list, on the Exceptions tab, under Programs and Services, click Add Program. Then, ensure that the check box for the file or application is selected, indicating that Windows Firewall will not block network communications for that file. For Batch Execution, this includes adding BatchServer.exe program for remote communication to the Server, the BatchClient.exe program for remote communication to the Client, or the vbis.exe program for remote communication to the ActiveX controls.

Using DCOM with Proficy Products, if the Windows Firewall is Enabled

NOTE: The following only applies if you enable the firewall after you install Batch.

If you are using DCOM to remotely connect to the Batch Server or Batch Client you must open DCOM to listen at TCP Port 135.

To add this port to the Exceptions list:

1. Click Start and then click Control Panel. The Control Panel dialog box appears.
2. In control panel, click Windows Security Center. The Windows Security Center dialog box appears.
3. Click Windows Firewall. The Windows Firewall dialog box appears.
4. Select the Exceptions tab.
5. Click Add Port. The Add a Port dialog box appears.
6. In the Name field, enter DCOM Listen.
7. In the Port number field, enter 135.

8. Select the TCP option.
9. Click OK to save your changes and return to the Windows Firewall dialog box.

Updating DCOM Settings

To update the DCOM settings for Batch Execution:

1. From the Start menu, select Run. The Run dialog box appears.
2. Type dcomcnfg and click OK.
3. Under Console Root, expand Component Services.
4. Under Component Services, expand Computers.
5. Expand the My Computer folder.
6. Select DCOM Config from the tree.
7. Right-click the GE Batch Integration Services and click Properties. The GE Batch Integration Services Properties dialog box appears.
8. Select the Security tab.
9. In the Launch and Activation Permissions group box, select the Customize option and click Edit. The Launch Permission dialog box appears.
 - a. For each user (or group) that needs to launch Batch applications for DCOM communications, make sure that Local Launch, Remote Launch, Local Activation, and Remote Activation are enabled.
 - b. Click OK to save your changes.

NOTE: These options will only be applied if you enabled them in the computer-wide limits you defined in the steps above.

10. In the Access Permissions group box, select the Customize option and click Edit. The Access Permissions dialog box appears.
 - a. For the user labeled ANONYMOUS LOGON, select the Allow check box for Remote Access. This setting is necessary for applications that use BatchClient.exe to function. You may need to add this user, if it is not there by default.
 - b. For all groups that can run batch applications, select the Allow check box for Remote Access. (See step 7 from the previous set of steps.)
 - c. Click OK to close the Access Permissions dialog box and return to the My Computer Properties dialog box.

NOTE: These options will only be applied if you enabled them in the computer-wide limits you defined in the steps above.

Using Simple File Sharing

By default, Proficy products are installed in the "\\Program Files\\..." folder. Windows XP SP2 does not allow you to access this folder remotely. As a result, you must clear the Using Simple File Sharing check box on the Folder Options dialog box.

To clear the Using simple file sharing check box in Windows XP SP2:

1. Open Windows Explorer.
2. On the Tools menu, click Folder Options. The Folder Options dialog box appears.
3. Select the View tab.
4. In the Advanced settings list, clear the Use simple file sharing check box.

Viewing the Proficy License Viewer

If you are using a new HASP M4 key, and you want to display the License Viewer, you must run the Microsoft .NET install program (dotnetfx.exe) after the Batch Execution product install.

You can find a copy of this install program Batch Execution ProficyCommonLicense folder. If you installed Batch Execution to the default folder, the path is: c:\Program Files\Proficy\Proficy Batch Execution\ProficyCommonLicense.

Optionally, you also can obtain this file from Microsoft's support web site. Also, there is a service pack update to .NET that you can obtain to update your system.

NOTE: This file may take several minutes to install. Wait for the install to complete before rebooting your computer.

Using the Event Viewer

If you use the Event Viewer, you may notice that the following error is logged every time you reboot your PC:

THE DESCRIPTION FOR EVENT ID (0) IN SOURCE (BATCHSUPPORT) CANNOT BE FOUND.

This error occurs because Batch does not supply an error resource file. As a result, this error can be ignored.

Registering Services

If you need to change the registration of the VBIS Server, the Batch Server, or the Batch Client, you must do so on the Batch Execution Services Configuration tab of the Services Configuration tool. It cannot be done on the DCOM tab of the tool.

If You Are a First Time User...

Run in Demo Mode to Experiment with Batch Projects First

In Demo mode, you can run Batch Execution applications, and can release a maximum of three recipes to production. WorkInstruction, VBIS, and the ActiveX controls do not run in Demo mode. The demo project, DEMO.WKB, is located in the Program Files\Proficy\Proficy Batch Execution\projects folder. The Batch Server and the Batch Client run for two hours in Demo mode.

Use the WorkInstruction (EWI) Demo Project to Learn About WorkInstruction Features

The Readme.txt file located in the Proficy Batch Execution\projects\ewidemo\recipes folder contains information on how to set up and run the WorkInstruction Demo project. Read this note before opening the WorkInstruction demo project, EWIDEMO.WKB. You can also find information about configuring and using the Demo project in the WorkInstruction Demo Project topic of the electronic books.

NOTE: You must have a GE software key to run the samples in this project.

For iFIX Users Using Batch Execution for the First Time, Read This...

If you are familiar with Proficy iFIX and this is first time using Batch Execution, please read the Defining a Project's Settings section in the System Configuration Manual. This chapter describes how to configure and use projects in the Batch Execution WorkSpace. Differences exist between projects created in the Proficy iFIX WorkSpace versus projects created in the Batch Execution WorkSpace. The project files are not interchangeable.

Unsupported Items and Recommendations

Windows Server Domain Controllers

You cannot install the Batch Execution product on a Windows server domain controller (primary or backup). You can install Batch Execution software on a member server.

Large Fonts

Batch Execution does not support the use of the large or extra large font settings. Large or extra large fonts can be used, but some dialogs may not appear correctly. To set your system fonts to Normal or Small, access the control panel. From the control panel, select Display to open the Display Properties dialog box. Select the Appearance tab, and change the entry in the Font Size field to Small or Normal Fonts.

Microsoft Access

GE does not support the use of Microsoft Access in a production environment to archive batch event data.

Microsoft ODBC Driver for Oracle

The Audit Reporter and Batch Execution Configuration screen do not support the Microsoft ODBC driver for Oracle because it does not implement all of the required features. Be sure to use the Oracle ODBC Driver, if using the Oracle database software with Batch Execution.

DDE Simulator

The DDE Simulator is no longer supported.

Note to Users of Service Pack 1 for Batch 5.1

If you previously used Formulations, you must update them. To do so:

1. In the Recipe Editor, on the toolbar, click Formulation Parameters.
2. Right-click each formulation and select Update Formulation.
3. If required, provide values for the new parameters added to the updated formulations.

Note to Users of Service Pack 1 for Batch 5.0

If you previously used the Server Alias feature in the Batch Equipment Editor, installed with Service Pack 1 for Batch Execution 5.0, you will need to manually re-enter the Server Alias in the Batch Equipment Editor after opening your project in Batch Execution 5.6. The Server Alias is located in the Equipment Editor in the Create OPC Server dialog box.

Installation and Key Issues

Installing as an Administrator

You must install with a Windows user account with administrator rights. See your Windows manuals or online Help for information on creating this account.

Installing on Windows Vista or Windows Server 2008

IMPORTANT: If User Account Control (UAC) is not enabled, even if you have administrative privileges, you must use the following method to install Batch Execution.

To install Batch Execution on a Windows Vista or Windows Server 2008 system:

1. In Windows Explorer, navigate to the Batch Execution setup.exe file.
2. Right-click on the file and select Run as Administrator.
3. Follow the instructions on your screen.

Passwords for Windows Server 2008

On Windows Server 2008, by default, the Password Must Meet Complexity Requirements is set to Enabled. This means that the default password, "batchrules", will not work during installation. You have two choices. Either you can provide a complex password, or you can disable the Password Must Meet Complexity Requirements option before installation. If you choose to disable the Password Must Meet Complexity Requirements, do the following:

1. Click the Start button, and point to Settings, Control Panel, Administrative Tools, and then Local Security Policy.
2. In the left pane, click Account Policies.
3. In the right pane, double-click Password Policy.
4. Double-click Password must meet complexity requirements. The Password must meet complexity requirements dialog box appears.
5. Click Disabled and then click OK.

Installing Batch Execution with a USB Key

You must install the key that is included with your Batch Execution software in order to access all the components of the Batch Execution software you purchased. Without a Proficy Batch Execution key, you can run Batch Execution applications in Demo mode, and can release a maximum of three recipes to production. WorkInstruction, VBIS, Campaign Manager and the ActiveX controls will not work without a key.

IMPORTANT: Do not remove the hardware key from your node while Batch Execution is running. If you do, you may need to restart Batch Execution. You may also damage the hardware key if you remove it while Batch Execution is running.

To install the product and the USB port key:

1. If you had a previous version of Batch Execution installed, uninstall the Sentinel driver. This driver is not uninstalled with the Batch Execution uninstall program. To uninstall, access the Control Panel and use Add/Remove Programs option.
2. Shut down your computer before plugging in the USB key.
3. Plug in USB key.
4. Restart your computer.
5. Run the Batch Execution product install.

NOTES:

- During the install process you will be requested to enter a user name and password to use for running batch applications. This account is created locally during the install process. If no user name and password is specified during the install, the default user name of BatchExecutive with a password of "batchrules" is created.
 - If you leave the defaults, you can later change the BatchExecutive password. For steps, refer to the "Changing the Default Batch User Account" topic in the System Configuration Manual in the e-books.
 - If you are installing with a domain account, verify that the account exists on the domain. Also, use a valid password for that account. If the account does not exist on the domain, or if you fail to use a valid password, the install will not proceed.
6. Restart your computer again, after the install.

NOTE: At this time, GE does not support USB keys connected through an external USB hub.

Recovering from an Improper USB Key Installation

To Recover from Improper Installation of USB key:

1. Right-click the My Computer icon on your desktop and select Manage from the right-click menu.
2. Select Device manager from the System Tools tree.
3. Select Universal Serial Bus controllers from the right pane of the Computer Management dialog box.
4. Right-click USB Token. Choose Uninstall from the right-click menu.
5. Click OK to confirm uninstall.
6. Remove the USB hardware key from your computer and reboot your computer.
7. Continue the correct installation using the procedure in the previous section.

NOTE: If you installed the USB key before installing Batch Execution, a dialog box requesting USB drivers appears. Cancel this dialog box, and then follow the steps above to uninstall the incorrectly installed USB key.

Replacing Defective Keys

Defective keys cause Batch Execution to generate the following error message when it starts or when you start an application:

ERROR - MISSING SECURITY KEY OR FILE

The message may also indicate that the hardware key is not securely installed. Be sure to check the connection before assuming your hardware key is defective. GE replaces defective keys as quickly as possible.

To obtain a replacement hardware key, call your local GE technical support representative. The support representative will instruct you to FAX a completed copy of a Merchandise Return Authorization form. On receipt of the form, GE can program a new hardware key and send it to you overnight.

When you receive the hardware key, you must return the old one along with a copy of the form sent with the new hardware key. GE invoices for defective hardware keys that are not returned.

Upgrade Notes

Before You Upgrade or Reinstall...

Before you upgrade the Batch Execution product installed on your computer, make sure that all of the Archiver data has been processed prior to upgrading. If you do not, you could potentially lose archived data after the upgrade, due to the new Archiver format, beginning in Batch 5.5.

TIP: If you have unprocessed Archiver data files such as cache, event, or DMP files, and you continue with the upgrade, you will not be able to use this data in Batch 5.6. To recover this data, copy the files from the 5.6 computer to a computer with 5.0 installed. Configure your ODBC data source in Windows, and then in the Batch Workspace, in the Batch Execution Configuration dialog box, on the Archiver tab, enter the data source with the user name and password. Use the Batch Archiver Utility to process the files - converting them to SQL and send them to the database. For more information on this utility, go to the GE GlobalCare SIM download page.

Also, before you upgrade, make sure you shut down all Proficy Batch Execution applications before running the installation program. It is important that no Proficy Batch Execution applications are running when you run the installation program. To verify that there are no applications running, such as VBIS, launch the Task Manager and look for any Batch applications. If there are any applications running, abort the application from the Task Manager.

Back up your existing .INI files with your application preferences.

If you want to retain your existing samples and recipe demo projects, back them up. Otherwise, they will be overwritten. The sample files are located in the Samples folder, and the recipe demo projects are located in the Projects folder.

Before you upgrade or uninstall the previous version, make sure you note the Batch Serial Number in the VBEXEC.ini file. Make sure you note the Batch Serial Number in the VBEXEC.ini file. This file is located in your Windows directory.

If your facility uses a buckpath.ini file, starting with Batch 5.5, you must save the buckpath.ini file to one of the following folder locations:

- Windows Vista or Windows Server 2008: C:\ProgramData\Proficy\Proficy Batch Execution\Configs
- Windows XP or Windows Server 2003: C:\Documents and Settings\All Users\Application Data\Proficy\Proficy Batch Execution\Configs

NOTE: After you upgrade, copy the buckpath.ini file located in the ...\\BIN folder to the ...\\Configs folder.

Obtaining the Batch Serial Number Before an Upgrade

The Batch Serial number is a unique number assigned to each batch by Batch Execution. If your facility uses this information and wants to maintain a specific sequence of batch production after reinstalling or upgrading Batch Execution, this information must be manually copied beforehand and then reinserted into the VBEXEC.INI file.

Before you reinstall or upgrade Batch Execution, copy the CreateID number from the VBEXEC.INI file. After you install, enter this number into the new VBEXEC.INI file.

Upgrade Steps

To upgrade to the latest version of Batch Execution, perform the following steps:

1. Confirm that you backed up all the applicable files. Refer to the Before You Upgrade or Reinstall... section above for more details.
2. Run the Batch Execution product install. A message box appears asking you if you want to upgrade your system.
3. Click Yes to continue.
4. If you are installing Batch Execution on a Windows Vista or Windows Server 2008 system, and UAC is not enabled, you must perform the installation using the following method:
 - a. In Windows Explorer, navigate to the Batch Execution setup.exe file.
 - b. Right-click on the file and select Run as Administrator.
5. Follow the instructions on your screen.

After you run the Batch Execution installation program, do the following:

1. Upgrade your relational databases to support the new data models.
2. Upgrade your projects, including the following project components:
 - o Area model
 - o Recipes
 - o SQL or Oracle storage settings for recipes
 - o Archiver settings
 - o EIB documents
3. Optionally, upgrade the VBIS programs.

For more information on the steps you need to perform after the product install runs, refer to the Upgrade Guide in the Batch Execution electronic books.

Issues with the Batch Execution Uninstall

If you try to uninstall and the uninstall does not work properly, the install may have been run from another account than the one you are currently using.

The workaround on Windows is as follows:

1. Select Run from the Start menu.
2. Type Dcomcnfg and click OK. The Component Services window appears.

3. Expand the Component Services option and then expand Computers.
4. Right mouse click the My Computer icon, and choose Properties.
5. Select the COM Security tab.
6. In the Access Permissions group box, click the Edit Default button. The Access Permission dialog box appears.
7. In the Group or User Names area, click Add. The Select Users or Groups dialog box appears.
8. In the Enter the Object Names to Select text box, enter INTERACTIVE.
9. Click OK.
10. Click OK to close the Access Permission dialog box.
11. Click OK to close the My Computer Properties dialog box.
12. Restart your computer.

Error Message after Batch Execution Uninstall

If you uninstall Batch 5.5 from your Windows Server 2008 or Windows Vista system and then uninstall your M4 license, you will receive an error message. In this circumstance only, disregard the error message.

Notes on Upgrading from Version 5.1

When upgrading from version 5.1, you will not be prompted for a user name. Batch uses the same user chosen during the 5.1 installation. Because of this, if you have Batch applications that run as services, they will be registered with the user name chosen during the 5.1 installation.

For instructions on how to change the account from the one specified during installation, search the electronic books for the topic "Changing the Default Batch User Account."

Notes on Upgrading from Version 4.6

Because version-independent ProgIDs existed in the 4.6 release, but have been removed from the newest MSXML 4.0 included in this release, installing this release will make them non-functional.

To avoid this issue if you have the 4.6 product installed, run the following two commands from the command-line before installing this release:

```
regsvr32 /u msxml4.dll
```

```
regsvr32 msxml3.dll
```

The files listed in these commands are located in Windows\System32 directory. Go to the Windows\System32 directory and manually remove the msxml4*.* files.

Notes on Upgrading from Version 4.6 or Earlier

Complete the following steps as part of your upgrade:

- Make a copy of your project, including the area model and recipes
- Uninstall all SIMs
- Uninstall the old version of Batch
- Install the new version Batch

Notes on Upgrading from Version 4.1 and Earlier

If you are upgrading from version 4.1 or earlier, you must update your hardware key licensing files and replace the old key with new hardware key before you install this version of Batch Execution.

Follow these steps:

1. Double-click Add/Remove Programs in your Control Panel.
2. Remove the previous version of Batch Execution.
3. Remove the Sentinel System Driver. If you do not see Sentinel System Driver in your list of currently installed programs, you may have implemented the Windows XP or IBM rollback feature to restore your registry to a previous state. This process does not remove files, and the Sentinel System Driver will not install over existing files. You will need to rename or delete the following file manually: WINNT\system32\drivers\sentinel.sys
4. Restart your computer after you uninstall both programs.
5. Replace the old key with the new hardware key.
6. Insert the Batch Execution Installation disc and select Install License Software.
7. Restart your computer after you finish the install.

Deleting .EXD Files Before Using Batch Execution For the First Time

If you manually install the Batch Execution ActiveX controls on to a computer with iFIX installed (without installing Batch Execution 5.6) and you have an earlier version of the Batch Execution or WorkInstruction ActiveX controls installed on that computer, then you need to delete the .EXD files.

The .EXD files are essentially temporary files that contain the type library of the control and extended properties used by the container (Name, IsSelectable, HorizontalPosition, VerticalPosition, and so on). The .EXD file is regenerated the first time the control is dropped onto an iFIX picture and is also regenerated as needed if the .EXD file is deleted. So, when upgrading from 4.7 or 5.1 to 5.6, you must delete these old .EXD files since they will contain old type library information and will not include the new properties.

These files are located in the Temp folder. The files that you need to delete are as follows:

- ewixlib.exd
- batchlistlib.exd
- bacthaddlib.exd
- recipelistlib.exd
- alarmlistlib.exd
- operpromptslib.exd
- bindingpromptslib.exd
- sfclib.exd
- manualphaselib.exd

Database Upgrade Scripts

Scripts for upgrading your database from 5.5 to 5.6 include:

- For Oracle: OraSQLCampaign_V55to56Upgrade.sql

NOTE: If you want to use the Campaign Manager, and have never used it before, you also need to run this script file: CampaignOra.sql

- For SQL Server: MSQLCampaign_V55toV56Upgrade.SQL

NOTE: If you want to use the Campaign Manager, and have never used it before, you need to run this script file: CampaignMSSQL.sql.

If you need to update from an even earlier version of Batch Execution (version 5.1 or earlier), refer to the Upgrade Guide for steps.

Restarting the Batch Execution Server After Upgrading or Reinstalling Batch Execution

If you either upgrade or reinstall Batch Execution, there are several tasks you should execute before performing a warm restart of the Batch Execution Server. The VBEXEC.INI file is overwritten with each upgrade or reinstallation, so some of the Batch Execution Server's setting information will be lost.

To perform an accurate restart after upgrading or reinstalling Batch Execution, open your project in the Batch Execution Workspace and save it before you perform a warm restart. This will reset your project's settings.

Updating Recipe Editor UNC Paths

If you use the Recipe Editor on a remote computer, and you use UNC paths to access project files that are stored on other computers that are in your network, you must update the VBEXEC UNC path in the remote computer's BatchRecipeEditor.ini file after you complete your upgrade.

Starting with Batch 5.6, all .ini files are in a new location. For Windows Vista or Windows Server 2008, the files reside in the C:\ProgramData\Proficy\Proficy Batch Execution\Configs folder. For Windows XP or Windows Server 2003, the files reside in the C:\Documents and Settings\All Users\Application Data\Proficy\Proficy Batch Execution\Configs folder. You must update your VBEXEC UNC path to reflect that change.

You can check your old VBEXEC UNC path in the BatchRecipeEditor.bak file.

If You Are Using SQL Server 2008 and Windows Authentication for DSN

If you are using SQL Server 2008, then you must add BUILTIN\Administrators to the Logins. To do so:

1. In the left pane, under the Security folder, right-click the Login folder.
2. Click New Login. The Login New window appears.
3. In the Login Name field enter BUILTIN\Administrators.
4. From the left pane, select Server Roles.
5. In the Server Roles area, select sysadmin.
6. Click OK.

Troubleshooting Installation Issues, After Install

Batch Execution WorkSpace Cannot Open Projects After Install

If you are a member of the Administrator or Power Users group and you do not have INTERACTIVE user added in dcomcnfg, when you try to start the Batch Execution WorkSpace for the first time, an error message appears. The Batch Execution Workspace cannot open the .WKB file.

In this scenario, you will not be able to launch the Equipment Editor from the Proficy Batch Execution Workspace. Nothing appears in the Equipment folder and the area model does not display. To fix this issue, you need to add the INTERACTIVE user in dcomcnfg.

To add the INTERACTIVE user in Windows:

1. Select Run from the Start menu.
2. Type Dcomcnfg and click OK. The Component Services window appears.
3. Expand the Component Services option and then expand Computers.
4. Right mouse click the My Computer icon, and choose Properties.
5. Select the COM Security tab.
6. In the Access Permissions group box, click the Edit Default button.
7. Click Add. The Select Users or Groups dialog box appears.
8. Enter INTERACTIVE in the Enter the Object Names to Select text box.
9. Click OK.
10. Click OK to close the Distributed COM Configuration Properties dialog box.
11. Restart your computer.

WorkInstruction Editor Does not Start After Install

If you get an error message when you try to open the WorkInstruction Editor, after a Proficy Batch Execution upgrade or Microsoft software upgrade, follow these steps:

1. Select Run from the Start menu. The Run dialog box appears.
2. Enter regedit in the Open field.
3. Click OK. The Registry Editor appears.
4. Navigate to the following folder:

HKEY_CLASSES_ROOT\CLSID\{F6D90F11-9C73-11D3-B32E-00C04F990BB4}

5. Double-click the folder to view its contents.
6. Select the InProcServer32 subfolder.
7. Double-click the Default String. The Edit String dialog box appears.
8. Change msxml3.dll to msxml4.dll.
9. Click OK.
10. Select the Version subfolder.
11. Double-click the Default String. The Edit String dialog box appears.
12. Change 3.0 to 4.0.
13. Click OK.

Batch Execution Entries Do Not Appear in Proficy iFIX WorkSpace Tree After Install

Usually Batch Execution entries are added automatically into the Proficy iFIX WorkSpace tree when you install the Batch Execution product. Occasionally, you may need to add these entries manually. For instance, if you install Batch Execution before you install iFIX, or if you do not start the Proficy iFIX WorkSpace at least once before installing Batch Execution, the registry does not update correctly and these entries do not appear in the system tree. In this case, you would need to manually update these entries.

If you need to manually update these entries, follow these steps to update the registry and add the Batch Execution entries to the iFIX WorkSpace tree:

1. From the Windows Explorer, locate the Proficy Batch Execution BIN folder. If you installed to the default location this path is: C:\Program Files\Proficy\Proficy Batch Execution\BIN.
2. From a command prompt type:

```
vbregkeys vbatch.reg C:\Program Files\Proficy\Proficy Batch Execution\BIN
```

NOTE: Use the path that you located in step 1. Be sure to type the path correctly and without adding any spaces after the last word BIN. This step creates the RecipeEditor.Document progid and registers the 3 recipe editor file types.

3. From a command prompt type:

```
regedit /s FixDynamicsReg.reg
```

4. Confirm that you opened the Proficy iFIX Workspace at least once, and that it is closed.
5. Make a backup copy of the SystemTree.csv file. This file is usually located in the C:\Program Files\Proficy\Proficy iFIX\Local folder.
6. From the Windows Explorer, open the SystemTree.csv file by double-clicking on it. The SystemTree.csv file consists of two sections: one that defines folders (the upper section) and one that defines specific file entries (the lower section).
7. Open the VisualBatchTree.csv file. This file is usually located in the iBatch\Bin or the Program Files\Proficy\Proficy Batch Execution\Bin folder. The VisualBatchTree.csv file contains entries that you need to add to both sections of the SystemTree.csv file.
8. Copy and paste the rows from VisualBatchTree.csv into the appropriate parts of SystemTree.csv files. The rows that contain "folder" in the second column, get pasted to the end of the top section of the .csv, while the three rows that contain "file" in the second column get appended to the bottom of the second section.
9. If necessary, edit any of the VisualBatchTree.csv entries that have an incorrect path. Correct the drive letter and path to match the drive and path where you have Batch Execution installed.
10. Select Save As from the file menu to save the SystemTree.csv.
11. Close the SystemTree.csv file.
12. From a command prompt type:

```
"C:\Program Files\Proficy\Proficy iFIX\WorkSpace" /unregserver
```

where C:\Program Files\Proficy\Proficy iFIX\WorkSpace is the path where you installed the iFIX product.

13. Start the iFIX WorkSpace. The Proficy iFIX WorkSpace looks for the FIX32\BrowseTree key to tell it what to load in the browse tree area of the WorkSpace. Since we just deleted that key, it looks to the SystemTree.csv file that you just edited and builds the registry entry from it instead.

EIB Server or Campaign Server Error Appears When the Batch Server is Configured to Run as a Service on Reboot

If your product key does not include WorkInstruction or Campaign Manager, you should manually disable the EIB Server and the Campaign Server from running as services.

To disable the servers from running as services:

1. On the Start menu, point to Settings, Control Panel, Administrative Tools, and then Services. The Services window appears.
2. To disable the EIB Server, double-click the GE EIB Server to open the Properties dialog box.
3. On the General tab, in the Startup Type drop-down list, select Manual and click OK.

NOTE: If you do not configure the Manual option, you may encounter an error message when you automatically start your applications at system boot, or in the event log.

4. To disable the Campaign Server, double-click the GE Campaign Server to open the Properties dialog box.
5. On the General tab, in the Startup Type drop-down list, select Manual and click OK.

Troubleshooting Microsoft Windows Issues

Microsoft Windows XP Application Leaks

If you use Microsoft Windows XP with MFC applications such as the Proficy Batch Execution product, you may experience application leaks from Graphics Device Interface (GDI) objects. When memory leaks occur, the Workspace application appears to have "painting" issues. Often times when these leaks occur, the Workspace is painted black. This Windows issue has been identified as article ID 319740 by Microsoft and will be resolved in the next Windows XP service pack.

If this GDI leak seriously degrades your system performance, you can turn off the new user interface themes in Windows XP by following these steps:

1. From the Start menu, point to Settings, Control Panel, and then Display.
2. From the Themes tab, select Windows Classic in the Theme list.
3. Click Apply.
4. Click OK.

For related information and other suggested workarounds, refer to the Microsoft knowledgebase article: <http://support.microsoft.com/default.aspx?scid=kb;en-us;Q319740>.

Working with Campaign Manager

Limits to the Number of Batches to Schedule at One Time

The Campaign Client will not allow you to create a campaign that has more than 100 batches. If your circumstances require that you create campaigns with over 100 batches, you can change the setting in the following registry key: HKEY_CLASSES_ROOT\Software\VisualBatch\CampaignMgr\SizeLimit. Be aware, however, that your system's performance may be impacted by increasing the number of batches allowed to be created by the Campaign Client.

Limits to the Number of Batches on the Batch Server

The Campaign Server only allows 100 batches to run on the Batch Server at any one time. Batches in all states, Ready, Running, Complete, etc., listed on the Batch Server, count towards the 100 batch limit. The Campaign Server will not schedule batches to the Batch Server until the total number of batches drops below 100.

The Failure column on the Batch List view of the Campaign Client indicates if the number of batches scheduled to the Batch Server exceeds 100. If this occurs, you can either wait until the number of batches scheduled to the Batch Server falls below 100, or you can remove completed batches from the Batch Server, causing the total number of batches on the Batch Server to fall below the threshold.

If your circumstances require that more than 100 batches be allowed to run on the Batch Server at any one time, you can change the setting in the following registry key:

HKEY_CLASSES_ROOT\Software\VisualBatch\CampaignMgr\MaxRunningBatches. Be aware, however, that your system's performance may be impacted by increasing the number of batches allowed to run on the Batch Server.

Working with Other Proficy Products

Important: Switching Between the iFIX and Batch Execution Client Tasks

Be careful when enabling environment protection in iFIX configuration mode. If you have environment protection enabled and you select the Batch Execution Client's HMI button, you will be locked into the iFIX run mode.

To avoid this problem, create a push button using the Command Language script RUNTASK BatchClient.EXE on an iFIX picture that lets you switch back to the Batch Execution Client.

Using iFIX Security with the Campaign Manager

If you plan on using iFIX security with the Campaign Manager, verify that that you have the most recent SIMs, or one of following SIMs, installed:

- iFIX 4.0 requires the SIM iFIX40_1695589301
- iFIX 4.5 requires the SIM iFIX45_1695589301
- iFIX 5.0 requires the SIM iFIX50_1695589301

IMPORTANT: If you do not install the SIM, iFIX security will not be available for the Campaign Manager.

To obtain this SIM pack, access the GE support web site at: www.ge-ip.com/support

Tips for Using Electronic Signatures in iFIX

Proficy iFIX implements electronic signatures at the block level. If a block has an electronic signature enabled (Perform Only or Perform and Verify), and an application such as Batch Execution attempts to write to that block, the write will fail.

iFIX, however, also allows for background writes to succeed even with the electronic signature enabled on a block. You can configure this feature, by selecting the Accept option for Unsigned Writes in the Advanced tab of the block configuration dialog box. This option is only available if you select an electronic signature option also on the Advanced tab: Perform Only, or Perform and Verify.

Configuring Modeless EWIX Dialog Boxes for Use in the Proficy iFIX Workspace

If you want to be able to access other iFIX pictures while the EWIX ActiveX control displays the EWI or Logic Step dialog box, then you need to configure modeless EWIX dialog boxes. Follow the following steps:

1. In design time of the EWIX ActiveX control, display the Miscellaneous property page of the EWIX ActiveX control.
2. Uncheck the Modal Step dialog property (to set the property to False).
3. Click Apply.

Running the Soft Phase Server as Part of the iFIX Startup

After you finish configuring your Soft Phase Server, the next time you launch iFIX, it will automatically launch the Soft Phase Server. For more information on Soft Phase Server configuration, refer to the Configuring the Soft Phase Server section in the System Configuration Manual.

Starting the Batch Execution Server from the iFIX Task List

NOTE: The following does not apply if you are running iFIX on Windows Vista.

When running iFIX as a service, you can configure the Batch Execution Server Manager to start the Server automatically. By doing this, the Batch Execution will startup after iFIX has started. Follow these steps:

1. Configure the Batch Server to start in either COLD or WARM boot in the Project Configuration.
2. Within the iFIX Task List, add the following entry at the end:
"BatchServerManager.exe START"

Uninstalling iFIX After Installing Batch Execution

If you uninstall iFIX, when you are prompted to delete shared files, select No. iFIX uses a third-party ActiveX control called the Farpoint Spreadsheet, which is also used by Batch Execution. Make sure not to delete shared files during the iFIX uninstall.

Limitations of Microsoft Excel When Using iFIX with Batch Execution

If you use report macros in Microsoft Excel and include these documents in your iFIX applications, you cannot embed any Excel documents in the GE Batch Execution Workspace. If you try to embed an Excel document, the OLE server generates an error. The only way to restart the OLE server is to restart your computer.

Tips and Tricks

Saving Project Files on a Separate Physical Drive to Help Improve Performance

It is recommended that the storage location of a project's event journal files be a different drive than the drive used for the virtual memory paging file for the Windows Operating System. Placing the files on a separate physical drive helps improve performance.

The event journal path locations can be configured in the WorkSpace from the Batch Execution Configuration dialog box. From the Project tab, you can change the locations of the Primary Journal and Secondary Journal paths.

Sorting Data More Efficiently in the BatchList ActiveX Control

Changing the column order in the Columns property page does not update the order of the sort keys (to the corresponding column names) displayed on the Sort Order property page. If you want to edit the Sort Order and Columns pages, it is recommended that you edit one page, click the OK button, display the property pages again, and then edit the other page. This ensures that the BatchList ActiveX control uses the changes you make on both pages.

Failure to follow these steps will cause the Sort Order property page to use the previous column order, which corresponds to the displayed column order displayed for the sort keys.

Optimizing the Performance of Warm Restarts

As part of a controlled shutdown, be sure to put all batches in a Hold state before shutting down. This improves performance when you perform a warm restart with the Batch Execution Server.

NOTE: Restart settings are configured in the Batch Execution Configuration dialog box on the Restart Control tab.

Tips for Deleting or Renaming Files in the BIN Folder

Do not use Windows Explorer to delete or rename any of the files in the Program Files\Proficy\Proficy Batch Execution\BIN folder. Using Windows Explorer may affect or change some registry settings. To delete or rename files in the Proficy Program Files\Proficy\Proficy Batch Execution\BIN folder, use File Manager or make the changes from the DOS prompt.

Optimizing How VBIS Runs

If you need to keep VBIS running, you can start VBIS (Batch Integration Services) from the Services application of the Administrative Tools in the Control Panel. By doing this, you avoid having to start VBIS each time you want to use it.

Tips for VBIS Application Testing

Closing the ActiveX Control Test Container (tstcon32.exe) without disconnecting from VBIS may cause VBIS to remain active. To resolve this issue, disconnect any VBIS connections and then close the container. When you disconnect, wait for VBIS to completely shut down and then reconnect (if you

want to try another test). Reconnecting before VBIS is completely shutdown may make the control unable to connect and then time-out.

Known Issues

Defect #	Area	Description
30718	Batch Service Provider	Batches not removed from Batch Server Details: Occasionally, some of batches may not get removed if you run both the RemoveBatch and RemoveCampaign workflows together (triggered by the BatchStateChanged and CampaignRemoved event triggers, respectively).
29052	Batch Service Provider	StartTime event property displays wrong information Details: The default TimeStamp is set to 1/1/0001 12:00:00. If the TimeStamp value is not set, then the default value will be displayed.
30202	Batch Service Provider	No visible error displayed when Batch Service Provider does not connect due to time difference Details: When the Windows time of the SOA Server is different from the Windows time of the Batch Service Provider computer by more than five minutes, the Batch Service Provider connection is rejected. However, there is no indication on screen that this error has occurred. In this case, the Batch Service Provider will not be published to the SOA Server. This condition can occur when either the SOA Server or the Batch Service Provider computer is set to adjust for Daylight Saving Time and the other is not, or if the clock on one machine is faster or slower than the other.
30199	Batch Service Provider	Issues with Duplicate Batch Service Provider Names Details: Be aware that Proficy SOA does not prevent you from entering a duplicate Service Provider name. The last Service Provider you enter with the duplicate name, replaces the original one. Avoid using duplicate names. However, if you accidentally enter a duplicate, and you want restore the original Service Provider, the following must be done: <ol style="list-style-type: none">1. Uninstall the host instance as well as the Batch Service Provider on the duplicated Service Provider computer.2. On the Proficy Client, remove the host project from the "System Status" on the Proficy System.3. Stop the Proficy Server service on SOA Server computer.4. Stop the Service Provider host service on original Batch computer.5. On SOA Server computer, delete everything in the \Data\TypeCatalog folder, except the DEFAULT_TYPE_CATALOG.xml file.6. Restart the Proficy Server.7. Restart the host service on the original computer.

Fixed Defects

Defect #	Area	Description
1-966030311	Install	<p>Batch cannot be installed on PC with computer name containing 15 characters</p> <p>Details: In previous releases, if you renamed a computer that is part of a WORKGROUP to a length of 15 characters (for example: ALBA1819-6C0E34), a message box appears. This message states:</p> <p>"Error validating the Batch Executive user on the Domain. Please make sure the user exists and the password is valid".</p> <p>This issue is resolved in Proficy Batch Execution 5.6.</p>
1-985417049	Tabular Recipe Editor	<p>Issue with 54+ phases when converting a Tabular Recipe to an SFC chart</p> <p>Details: Proficy Batch Execution now allows for creation of larger recipes in the Tabular Recipe Editor. The recipe editing area is approximately 20 times larger than it was before. The new region is approximately 900,000 x 900,000 units.</p>
1-955739828	Recipe Editor	<p>Creation of larger recipes not supported</p> <p>Details: Proficy Batch Execution now allows for creation of larger recipes in the Recipe Editor. The recipe editing area is approximately 20 times larger than it was before. The new region is approximately 900,000 x 900,000 units.</p>
1-664859385	Recipe Editor	<p>The working area of Recipe Editor need to be enlarged</p> <p>Details: Proficy Batch Execution now allows for creation of larger recipes in the Recipe Editor. The recipe editing area is approximately 20 times larger than it was before. The new region is approximately 900,000 x 900,000 units.</p>
1-1005209098	VBIS	<p>GetFormulationHeader needs to be added to VBIS</p> <p>Details: The missing formulation feature was added to VBIS through the following methods: GetProductFormulationHeader and GetGlobalFormulationHeader. Both methods apply to VBISRecipe3 and return the VBISFormulationHeader (also new). For more information on these changes, search the 5.6 e-books for GetProductFormulationHeader, GetGlobalFormulationHeader, or VBISFormulationHeader.</p>
1-1034453041	ActiveX Controls	<p>Recipe Filter tab does not persist in the BatchList control</p> <p>Details: This issue is resolved in Proficy Batch 5.6.</p>
1-1041466971	Batch Server	<p>Unit released when needed by the active recipe step</p> <p>Details: This issue is resolved in Proficy Batch 5.6.</p>
1-970311711	Batch Server	<p>Precision error on report upload</p> <p>Details: In previous releases, Batch Journaling did not upload report data (with small real numbers) correctly to SQL. For example, the value of .0000915527 produces the value of 9.15527e-00 in SQL instead of 9.15527e-05. This issue is resolved in Proficy Batch 5.6.</p>
1-839923831	Equipment Editor	<p>Units shared by multiple process cells only report 1 process cell into Plant Apps</p> <p>Details: In Proficy Batch 5.6, a new field was added to the Unit Properties dialog box, Master Process Cell, to resolve this issue.</p>

Batch Execution 5.6 System Requirements

Supported Operating Systems

The operating systems supported by the Batch Execution product include:

- Microsoft® Windows® 11, Professional or Enterprise Edition.
- Microsoft® Windows® 10 (64-bit) Professional or Enterprise Edition.
- Microsoft® Windows® Server 2022.
- Microsoft® Windows® Server 2019.
- Microsoft® Windows® Server 2016.

TIP: Since Microsoft Windows has continuous updates, you should run the Windows update feature to get the latest Windows software for use with Batch.

Software Requirements

The minimum Batch Execution software requirements include:

- Network interface software for network communication, if client/server is used on multiple machines). The TCP/IP network protocol is required.
- Internet Explorer 7 or 8.
- One of the following relational database applications, if relational database software is used with Batch Execution:
 - Microsoft® SQL Server 2008, SP1.
 - Microsoft® SQL Server 2005, SP3.
 - Oracle® 11g.
 - Oracle® 10g.
- Microsoft Visual SourceSafe 2005, if using the WorkInstruction feature.

Server Hardware Requirements

For Proficy Batch Execution Servers, the recommended minimum hardware requirements are:

- Intel Core 2 Duo Processor with 3.0 GHz or better 32-bit (x86).
- 4 GB of system memory.
- 120 GB of hard drive capacity with 10 GB free space.
NOTE: If you are running an iFIX Server or iFIX Client on the same computer, add an additional 1 GB of system memory.
- A recommended screen resolution of at least 1024 x 768, with small fonts, for all monitors including Notebook monitors.
- Video display settings at 65536 colors (recommended).

Client Hardware Requirements

For Proficy Batch Execution Clients, the recommended minimum hardware requirements are:

- Inter Core 2 Duo processor with 2.2 GHz or better.
- Minimum 2 GB of RAM.
- Virtual memory settings with 2 – 3 times the amount of physical memory.
- 1 Gigabyte of hard disk space to install the product.
- A minimum of 100 Megabytes free disk space to run applications.
- A recommended screen resolution of at least 1024 x 768, with small fonts, for all monitors including Notebook monitors.
- Video display settings at 65536 colors (recommended).

Multi-core, Multi-Processor Support

Batch Execution was tested on the following Multi-core, Multi-Processor computers:

- Dell Precision 690 Quad Core Xeon Processor X5355 @ 2.66 GHz, 2 X 4MB L2 Cache 1333MHz. 4.00 GB of RAM.
- Dell Optiplex 745 Intel Core 2 Duo Processor 6600 @ 2.4 GHz. 2.00 GB of RAM.

Compatibility

Several GE products work with Proficy Batch Execution. The following is a general set of required versions to work with the Batch Execution 5.6 product.

Product	Required Version
Plant Applications Batch Analysis Reports	4.3 or higher
iFIX	5.0 or higher
Real-Time Information Portal	3.0 or higher
Historian	3.0 or higher
Machine Edition View	5.8 or higher
CIMPLICITY	8.0 or higher
Proficy Platforms	1.5 or higher
Proficy Process System	1.6 or higher

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