OSIsoft Release Notes

PI BatchView 2012

Version 3.1.5.0

Table of Contents

Overview

PI BatchView allows you to view live and historical batch data in PI ProcessBook displays, Excel spreadsheets, using a QuickSearch application, and using other containers. With PI BatchView you can view batch information stored in your PI Servers.

The components of PI BatchView are:

❑ Batch symbols for PI ProcessBook

❑ Microsoft Excel add-in

❑ PI BatchView

❑ PI BatchView ActiveX controls for searching and displaying batches

The Batch symbols for PI ProcessBook allow you to display your batch data in PI ProcessBook displays. These symbols include a Batch Trend, a Gantt chart, a Results Table, and a run-time Search. These components are all tied together within a Batch Group symbol. With these tools you can execute simple and complex queries for batches, compare multiple batches, trend relevant data from these batches, perform cycle-time analyses, align your batch data, and drill down into the sub batches to perform detailed troubleshooting and process analysis.

The Microsoft Excel add-in consists of a set of dialogs and functions that let you incorporate batch data in your spreadsheet.

The PI BatchView QuickSearch is an executable program that allows simple or complex searches for batches that you can use without the need to setup a display or a spreadsheet.

The PI BatchView ActiveX search controls are the foundation for the searches in all the other components. They are available to incorporate into special programs that you design for users who have PI BatchView installed on their computers. These include all of the search controls as well as the Results Table

Fixes and Enhancements

Fixes

This section lists items that were resolved or added in this release of PI BatchView 2012 (v3..1.5.0)

Punch List Item	Description
14332OSI8	Provides support for systems running with Data Execution Prevention (DEP) enabled.
21591OSI8	The right-click menu behavior is correct for the PI BatchView add-in for Excel 2010. Requires **Office 2010 SP1** *or* Microsoft hotfix **KB 2459118**. This change has also been implemented for **Excel 2013**.

MS12-060	COMCTL32/MSCOMCTRL update is installed by the setup kit.
WI65835	Corrects a problem with PI SDK registry permissions

This section lists items that were resolved or added in this release of PI BatchView 3.1.4

Punch List Item	Description
8269OSI8	The Tag/Alias color scheme was added to allow trace colors to be set per tag/alias. The Tag/Alias scheme differs from classic, categorized and anchored classic color schemes which all define colors per batch.
12119OSI8	PI BatchView QuickSearch has been updated to register its connection with the PI Server to support PI Server installations with a restricted license.

This section lists items that were resolved or added in this release of PI BatchView 3.1.3

Punch List Item	Description
11502OSI8	Corrections were made for various type library problems that were identified due to the installation order of PI ProcessBook and PI BatchView. The problems included: "Compile error: Error in loading DLL" – Seen compiling a VB DLL or non-ProcessBook VBA (such as Microsoft Excel). This can be a type library installation problem if the code successfully compiled on a different computer. "Error extending symbol. Possible type library registration problem." – Seen in the Message Log (using pigetmsg.exe or from the Status Report dialog, opened by double clicking on the display status icon located on the PI ProcessBook status bar). "Cannot insert ActiveX control" – Seen when either opening a file containing a Batch Group symbol or attempting to add a Batch Group symbol to a display.
13282OSI8	Changing levels shown no longer resets formatting choices in the PI BatchView for Excel Add-in.
14121OSI8	Corrected Excel groupings when using cell references and Excel groupings in the PI BatchView for Excel Add-in.
14832OSI8	Using the PI BatchView for Excel Add-In to reference a cell that is either a reference to another cell, or a formula, the search results returned in Excel are now correct.
15801OSI8	Changing the indentation options no longer causes an exception in some non-English languages with the PI BatchView for Excel Add-in.
15900OSI8	PI ProcessBook no longer crashes on exit when there is an open display with a BatchGroup using

	a Module Context.
16047OSI8	The dependency for Microsoft Excel was removed when using the PI BatchView for Excel Add-in in Microsoft Office SharePoint Server 2007.
16061OSI8	The Batch Group symbol bounds were not properly initialized for the ThisDislay.Zoom = "FitAll" call in time for the first Display.Activate event. This problem was introduced with PI BatchView version 3.1.1.1. This resulted in PI BatchView symbols being drawn too small and close together in the top corner of the display. PI BatchView was corrected to set the PI BatchView symbol's bounds when the display is first opened.
16085OSI8	The PI BatchView for Excel Add-In now allows Zoom/Align definition is identified by the Relative – Align and Zoom setting from the Settings tab of the Batch Definition dialog.
16358OSI8	The PI BatchView for Excel Add-In file, PIBVExcel.dll, is now digitally signed. Consequently, Excel will no longer prompt that the add-in contains macros, when macro security is enabled.
16441OSI8	The trend cursor was corrected to show the correct time in a negative time scale. The problem occurred when a Batch Trend was configured to display batch data using a negative time scale (for example, 10 minutes before the BatchStart time, or -10m). When a trend cursor was positioned on the time scale in the negative number region, the Time displayed in the cursor time box was always in seconds even when the time scale duration was displayed in Minutes, Hours, Days etc. This problem was introduced with PI BatchView 3.1.2.
17299OSI8	A #NAME? problem was corrected associated with starting Excel by double clicking on a file that contains a PI BatchView for Excel function. In this case, the PI BatchView for Excel functions may not have updated until they were recalculated via the right click menu, or the PI BatchView for Excel Search dialog.
17751OSI8	Resolved ProcessBook crash when handling Results_SelectionChange event. If a selection change was made by clicking on the Batch Trend and VBA code was used to redefine the traces on the Batch Trend, an access violation could result.
17948OSI8	If the PI server is in the KST (Known Servers Table) by IP address, and regional settings have thousand separators as periods, a 1004 error was reported when pressing OK in the batch search dialog. This problem has been corrected.
18042OSI8	A problem has been corrected with defining the end time of the Batch Group plot time as Batch Start + some offset (Batch Definition dialog, Settings Tab, Plot Time group). In previous versions, the end time of running PIUnitBatch records would always be the current time of the PI server. The problem only occurred for relative plots when a Gantt was not defined in the Batch Group.

18707OSI8	Text in search parameters that can be resolved to a cell reference (e.g., r401, cdt158) are resolved by Excel as cell references. If you desire to enter a search parameter and need to ensure it is not resolved as a cell reference, you can start the parameter with a single quote (') (e.g., 'r401, 'cdt158). You can use this both within the definition dialog and within cells. The single quote prefix ensures the value is interpreted as a string and is the same standard that is used by both PI DataLink and Microsoft Excel.
SCR# 21627	Setup was corrected to resolve a Windows Installer error "The feature you are using is on a network resource that is unavailable". This error was encountered when an Administrator installed PI BatchView before installing PI ProcessBook, and a Restricted user was running it. Another symptom of this problem was COM Error 800404E9 description = '' source = ''. Previous PI BatchView versions required the administrator to uninstall and re-install PI BatchView to correct the problem.
SCR# 5104	When a PISubBatch is selected on either the Gantt or Results, the Batch Trend highlights the section of the trace associated with the PISubBatch's time range. The selected trace highlighting was changed from an animated trace to a highlight band surrounding the trace.

This section lists items that were resolved or added in this release of PI BatchView 3.11

Punch List Item	Description
SCR# 13487	Disconnecting a PI server (for example by going to the File --> Connections menu and clearing the server check box) had the side effect of clearing data from all Batch Group symbols on the display. The data was cleared from all Batch group symbols, even if the symbol did not access the disconnected server.
11327OSI8	A divide by zero error has been corrected in association with a minimum trend scale of 0. The problem resulted in a Divide by Zero error reported by either PIBatchResultsCtrls or VBA. This issue was only seen when the tag was zero for the entire duration of the trend and was caused by improperly clearing a divide by zero error.
4056OSI8	Time into Plot has been corrected to work with a start of Batch Start and a negative offset. The previous implementation placed the zero axis at the beginning of the batch. The correction was to move the zero time axis to the far left of the plot.
12559OSI8	The Run-time error '13': Type mismatch message in Excel on open when the first worksheet was not a worksheet (e.g. it's a chart) has been resolved.

Punch List Item	Description
11870OSI8	When opening Excel by double clicking on a file, the file would not open when the PI BatchView Excel add-In was opened. This situation has been resolved.

This section lists items that were resolved or added in this release of PI BatchView 3.1

Punch List Item	Description
10481OSI8	The Align when zooming setting of the Gantt symbol is now used when the Plot Time is set to Absolute. Previous implementations would only use this feature for relative plots.
8544OSI8	Sub-batch records on the Results and Gantt are now ordered chronologically based on the start time. For the Results, this causes the sub-records of the expanded row to be in chronological order from top to bottom. For the Gantt this order is not noticed unless the time ranges of the sub-bars overlap. The overlapping sub-bars of an expanded Gantt bar are displayed in chronological order from top to bottom.
7907OSI8 and 7929OSI8	Various problems have been corrected with using the PI BatchView preferences when creating a new Batch Group symbol. Previously, the color scheme and Results column preferences were not honored.
6753OSI8	More than 12 data sources (tags, aliases, datasets) may now be used in a batch group.
6066OSI8	Toggling the anchor status with the Anchored Classic color scheme now toggles back and forth between the same two colors.
5948OSI8	Traces on the batch trend of running batches were sometimes drawn with data in the future of the running axis. This problem has been corrected.
5917OSI8	In the Classic color scheme, the first pen color was skipped and the second pen color was used for the first batch. The first pen color is now used for the first batch.
4792OSI8	Silent installation of BatchView_Setup.MSI is now supported.
4451OSI8	Right clicking on a Gantt bar and selecting properties opens the properties of the batch item represented by the Gantt bar. With this release, it is now possible to view the properties of the parent of that batch item. For example, from the PISubBatch properties dialog, you can now view the properties of its parent PIUnitBatch.
3947OSI8	Problems have been corrected with the Configure Results dialog. PI ProcessBook would crash when attempting to move a column up or down (to change the column order).
3805OSI8	The "Batches not found" dialog has been redesigned for ease of use. This dialog is shown when opening a display that has anchored batches that were deleted from the PI database.
3804OSI8	If the end time column was not present in the group symbol's results table and the Categorized color scheme was used, running batches would

	not change to a completed color when the batch ended. This has been fixed.
3802OSI8	Changes to the Tags/Aliases in Trend dialog are no longer automatically dropped with each search. PI BatchView now only restores a trend's build-time definition when the trend or parent Batch Group symbol is reverted.
3725OSI8	Trace data is now shown outside the PIUnitBatch object's time range, up to the offset time defined on the Settings tab of the Batch Definition dialog.
3701OSI8	The plot time definition now only appears on the Settings tab of the Batch Definition dialog. The duplicated references on the Configure Trend and Gantt dialogs have been removed.
3600OSI8	In absolute time mode, zooming on the Gantt now zooms to the time range of the selected batch objects. The previous version would zoom to the selected batch objects, however the time range would not be zoomed. It would remain as defined in the Plot Time settings. The Plot Time settings are seen in the Batch Definition dialog's Settings tab. This problem was only seen in absolute time mode for time scales using a specific start and end time (not Earliest Batch Start Time to Latest Batch End Time).
3567OSI8	The Show parent level menu item (from the Gantt right-click menu) is disabled if the parent level is already visible on the Gantt.
3537OSI8	It is now possible to synchronize the time scales of two Batch trend symbols within the same Batch Group. Previously, a Gantt symbol was required to be in the Batch Group in order to synchronize any trends. The Batch Group still only supports one list of synchronized plot symbols (Gantt and/or trends). Additionally, if the Gantt is included in the Batch Group, the Gantt must be in the synchronized list (you cannot have two synchronized trends with a Gantt that is not synchronized).
3486OSI8	Anchored items are no longer erroneously removed from the batch group symbol when the query is set to Running only.
3462OSI8	The "Zoom with align" feature has been renamed to "Align when zooming".
3391OSI8	PI BatchView help files have been moved to the PIPC\Help directory (with the exception of legacy products included with PI BatchView for compatibility).
3389OSI8	Gantt bars that extend beyond the bounds of the Gantt symbol have a distinctive "bump-out" to indicate the Gantt bar extends beyond the time range of the Gantt symbol in the direction of the bump-out.
3279OSI8	Previous versions did not show any Gantt bar label when the configuration was to show the "Name with PIHeading" and there was no PIHeading defined for the PISubBatch. This has been corrected to show the Name without the PIHeading in this case.
3206OSI8	The visible flag is no longer changed on an anchored batch object when a batch search is

	executed. Any change made to the visible status on the definition dialog appears in the display and is saved with the display based logic from the PI server to identify when new PIUnitBatch objects have been created. Once the new PIUnitBatch has been discovered, PI BatchView checks if the new PIUnitBatch belongs in its query results before adding it to the display. Automatically updating the display is controlled by the Update Batch Query setting of the Batch Group symbol.
2770OSI8	PI ProcessTemplates datasets are now accessible as Limit Sets within PI BatchView. This includes the ability to show the PI ProcessTemplates data beyond the end of the batch.
2710OSI8	The hourglass (wait cursor) is now displayed for the entire duration when PI ProcessBook is busy performing a task (previous versions would flicker the hour glass or turn it off prematurely).
2709OSI8	The data sources added during runtime with the trend's right-click menu option "Tags/Aliases on trend" were not shown on the trend's legend. They are now shown.
2529OSI8	PISubBatch views of the batch group symbol can now be saved with the display.
11870OSI8	When opening Excel by double clicking on a file, Excel would open but the file would not open. This problem has been addressed.
BV79	Spreadsheets with PI BatchView functions that were created on one machine and then loaded on another machine would report problems with the PI BatchView functions if the Excel add-in was installed in different directories on each computer. This has been resolved with the new 3.1 Excel add-in's functions, which no longer exhibit this problem.
SCR# 17756	Beginning with PI ProcessBook 3.0.14, the PI BatchView 3.0 batch trend right-click menu option to revert the trend did not behave correctly. The revert could result in incorrectly drawn traces or incorrect calculations of the vertical scale. This problem has been corrected with PI BatchView 3.1.
SCR# 14468	Search for "The First" or "The Last" N batches did not account for the number of anchored batch objects in the results. The initial search returned the correct number of batch objects. However, the update logic removed a quantity equal to the number of anchored batches in the results from the query results in the results list. The update logic has been corrected to not include the anchored record count.

Enhancements

What's new in version 3.1.5?

- Support for Data Execution Prevention (DEP) on operating systems that enable it.

What's new in version 3.1.4?

- The Tag/Alias color scheme was added to allow trace colors to be set per tag/alias. TheTag/Alias scheme differs from classic, categorized and anchored classic color schemes which all define colors per batch.

What's new in version 3.1.3?

- This minor version enhancement provides compatibility with PI ProcessBook version 3.1.

- Another benefit of this new version is that you can now use the PI BatchView for Excel Add-in without having Microsoft Excel installed on the web server for Microsoft Office SharePoint Server (MOSS) 2007.

What's new in version 3.1.2?

- This minor version enhancement provided support for DataLink for Excel Services product (for Microsoft Office SharePoint Server 2007).

What's new in version 3.1.1?

- Support for Highly Available PI Servers was added for this minor version enhancement. Documentation on this feature is available on the Tech Support website in the High Availability User Guide and the High Availability Advanced User Guide.

- Note that this support for Highly Available PI Servers has resulted in dropping support for PI2 servers.

What's new in version 3.1.0?

- A new Excel add-in was introduced with full support for the PI Batch Database, including PIBatches and PISubBatches.
- Custom naming of PI Batch terms within the user interface is provided.

- Integration is provided with PI ProcessTemplates version 1.3.0.7 and later (as Limit Sets).

- The ability to create Gantt chart and Trend showing only PISubBatch data was added.

- The ability to show trace data outside the time range of the PIUnitBatch was added.

- The search features were enhanced so that the Unit Attribute of the search can consume PI ProcessBook's Module Context.

- Several performance improvements, including significant improvements to search speed, were introduced.
- Type Library enhancements for the VBA programmer were added.

- Other Fixes and Enhancements to the PI ProcessBook, Excel and QuickSearch components were addressed.

Known Issues

Note in the tables below that SCR# items represent internal references only.

Punch List Item	Description	Workaround
	The **About Box** and other documentation references PI Batch View 3.1.4.0 Only the files required to correct **14332OSI8 & 21591OSI8** have been updated. File/version verification can be done by inspecting the version of **SSubTmr6.dll** in the **About Box** file list. Version: **3.1.5.0** indicates **PI BatchView 2012**.	Only the files required to correct **14332OSI8 & 21591OSI8** have been updated. File/version verification can be done by inspecting the version of **SSubTmr6.dll** in the **About Box** file list. Version: **3.1.5.0** indicates **PI BatchView 2012**.

Batch Definition, creating or editing a Batch Group.

Punch List Item	Description	Workaround
SCR# 6157	. While making changes in the Tag/Aliases text box (on the Batch Definition main tab, Configure Trend main tab, or Tag/Aliases runtime dialog), select an alias in the Available Aliases list box and click the "Add Alias" button. This sequence of actions causes the alias to disappear from the Available Aliases text box without appearing in the Tags/Aliases text box.	Found in 3.0. Re-edit the Batch Group symbol, making sure to not add an alias while editing a Tags/Aliases list entry.
SCR# 15319	If an entry is manually added to the Tags/Aliases list while the "Working..." status is shown on the Available Aliases control, the entry is lost from the Tags/Aliases list box when the "Working..." status is removed.	Found 3.1.0. Re-add the entry
SCR# 15907	There may be problems undoing an edit of the BatchGroup symbol. Some runtime actions are not restored with the undo action. For example selection, anchor state, visible state, expanded state of results and expanded state of the Gantt bars.	Found 3.1.0. No workaround available.

Batch Group Navigation

Punch List Item	Description	Workaround
SCR# 6726	Multiple batch selection is partially available in this release. Multiple rows may be selected on the Results for the purpose of changing the visible or anchored status on multiple rows at a time.	Found in 3.1.0 . No workaround available

| | However, the Gantt bar and trace only reflect (highlight) the most recent selection in the Results table. | |

Excel Add-in

Punch List Item	Description	Workaround
_____	In Manual mode, when a PI BatchView query is executed, the data returned is not formatted until an Excel calculation is performed. This includes the initial query as well as any time "Recalculate" is selected from the right-click menu. A manual Excel calculation can be done by pressing F9.	Found in 2.1 No workaround available
10551osi8	If a BatchView formula is selected and dragged to another location on the screen, the formatting and grouping is not removed at the old location. The formatting output at the new location is correct.	Found in 3.1.0. No workaround available
SCR# 23133	If the following message appears when Microsoft Excel opens, the PI BatchView application has been removed from the computer. "PIBVExcel.xla could not be found. Check the spelling of the file name, and verify that the file location is correct. If you are trying to open the file from your list of most recently used files, make sure that the file has not been renamed, moved, or deleted." If Microsoft Excel is installed on a machine when PI BatchView is installed and then PI BatchView is later removed, Microsoft Excel continues to look for the add-in when it opens..	Found in 3.1.2. Manually remove the add-in from Excel. Open the Excel Options dialog by pressing the Excel Options button from the Windows Orb menu in the upper left corner of the Excel window or select Add-ins from the Tools menu of older versions of Excel. Choose Add-Ins from the left side column of options. Select Excel Add-ins from the drop down list beside the word "Manage:" at the bottom of the dialog and press the Go. This will retrieve the Add-Ins dialog and Pibvexcel will be on the list with a check mark. Select the row for Pibvexcel and the system will say that it cannot find this add-in and suggest you delete it. Choose to delete the add-in.
18477OSI8	When right-clicking on an existing BatchView search result in Excel 2007, with DataLink 4.0.3 installed, the BatchView specific menu items may not display in the context menu.	Found in 3.1.3. If the context menu does not have the BatchView specific items in it, select a cell in the BatchView search results and from the PI menu select BatchView. This will populate the BatchView search window with the parameters from your existing BatchView search
-----	The order of loading the PI Datalink and PI BatchView Excel add-ins may be causing problems if you receive one of the following two errors: "The macro 'PIBVBatchSearchDialog' cannot be found," or "The macro	Found in 3.1.0. To correct this situation, open the Tools menu and select Add-Ins. Clear the PI-DataLink check box and click OK. Exit and then restart Microsoft Excel. Reselect the PI-DataLink check box in the Add-Ins dialog.

	'pidldialogs.xla!PIBVBatchSearch Dialog' cannot be found,"	
-----	When opening Excel you may see an SDK repair dialog. The repair is ineffectual and happens each time you open Excel. This situation occurs when the .NET Framework 1.1 is not installed and you are using Excel 2003 or earlier (without the Microsoft KB907417 patch). You do not see this problem if you are using Excel 2007.	Found in 3.1.1. Installing .NET Framework 1.1 fixes this problem for all cases (download from Microsoft). Alternatively, for Excel 2003, you can fix the problem by installing Microsoft's KB907417 patch (download from Microsoft).
-----	Spreadsheets created with PI BatchView 3.1.2.0 and later are not backward compatible with versions of PI BatchView earlier than 3.1.2.0.	Found in 3.1.2. No workaround available
-------	The spreadsheet cells contain the text "#NAME?" instead of the actual data.	Foun din 3.1.3. The solution is to manually add the PIBVExcel.Functions add-in to Excel. Open the Excel Options dialog by pressing the Excel Options button from the Windows Orb menu in the upper left corner of the Excel window or select Add-ins from the Tools menu of older versions of Excel. Choose Add-Ins from the left side column of options. Select Excel Add-ins from the drop down list beside the word "Manage:" at the bottom of the dialog and press the Go. This will retrieve the Add-Ins dialog. If PIBVExcel.Funtions is on the list then place a check mark beside this entry and click OK. If PIBVExcel.Functions is not on this list then press the "Automations" button, select PIBVExcel.Functions from the dialog that appears, and click OK.
-------	"#NAME?" errors may appear in some cells when you open an Office Excel 2007 .xlsx or .xlsm file in an earlier version of Excel.	See Microsoft Support Article ID# 945828. http://support.microsoft.com/?id=945828
-------	The PIBVExl.hlp help file will not work with a standard Vista or Server 2008 installation.	Found in 3.0. Users may download software from Microsoft to address this limitation. For Vista, see http://www.microsoft.com/downloads/details.aspx?FamilyID=6ebcfad9-d3f5-4365-8070-334cd175d4bb&displaylang=en. For Server 2008, see: http://www.microsoft.com/downloads/details.aspx?familyid=0468fefd-b54f-4c57-8340-c6dd2ec20c0a&displaylang=en&tm

Gantt

Punch List Item	Description	Workaround
--------	When aligning to a PISubBatch Gantt bar that does not have a matching PISubBatch under some of the other PIUnitBatch Gantt bars, the non-matching PIUnitBatch Gantt bars are aligned to the start time of the PIUnitBatch. If the PIUnitBatch is running, alignment occurs when the matching PISubBatch is started.	Found in 3. 0 . No workaround available
SCR# 17582	If a PISubBatch is longer than its parent (either a PIUnitBatch or a PISubBatch), trace data outside the parent will not be shown on the trend	Found n 3.0. Either on the Gantt chart zoom to the longer PISubBatch or to a level above it if possible. Or Expand the Gantt to the desired PISubBatch and then right-click the trend and select Revert.
SCR 6340	The PI ProcessBook *Change Time Range* dialog, *Scroll Time* toolbar item, *One Time Period Forward* and *One Time Period Back* features have no affect on the Gantt.	Found in 3. 0 . No workaround available

General

Punch List Item	Description	Workaround
SCR# 10121	The Custom Placeholders dialog is launched as non-modal. If the parent dialog is selected when the custom placeholders dialog is open, the resulting errors crash PI ProcessBook.	Found in PB 30. None
SCR# 15019	Custom Name Settings may be changed in the "Custom Name Settings" dialog. The settings dialog is launched by running CustomNamesSettings.exe, located in the \PIPC\Batch directory. The option "Enable Custom Names for this user" does not take effect for Batch Group symbols on displays that are already open in PI ProcessBook. In addition, changes to the custom name settings are not reflected on the PI ProcessBook Preference dialog until the dialog is closed and reopened.	Applying the setting may require using revert or reloading the display. If selecting the Batch Group symbol and selecting Edit->Revert does not work, close the display and re-open it
SCR# 15018	Custom Name changes on the PI Server are not communicated immediately to the client PC. PI ProcessBook, PI BatchView QuickSearch and Microsoft Excel (using the PI BatchView Add-in) may require you to re-launch the application or reload the file.	Found in PB 30. Re-launch the application or reload the file.
SCR# 15780	The 'None' color is not handled correctly by the Batch Group symbol. Various problems have been noticed ranging from using the color 'Black' in place of 'None', to message boxes and a crash. Avoid using the color 'None'.	Found in PB 30. None
SCR# 19305	Changing a PI ProcessBook display's time zone from Client to Server (or vice versa) does not update all times displayed on the Batch Group sub-symbols.	To ensure the batch symbols have been updated after the time zone is changed, revert the Batch Group symbol or the display.
-	The PI BatchView 2.1 templates for formatting the BatchTrend are not available in version 3.x. Version 2.1 trends retain their configured formatting, but templates cannot be applied to new symbols in version 3.x.	None
SCR# 27582	PI BatchView causes PI ProcessBook to leak 2 GDI resources each time a display is closed that contains a Batch Group symbol. The leak equates to approximately 2kB of memory.	None
SCR# 27957	Selecting the X button to close the	Found in PB 31.0. The problem is

	QuickSearch Options dialog removes all the columns from the Results control on the QuickSearch dialog. The missing columns can cause QuickSearch to crash. The problem is caused because the columns are all removed by pressing the X button. Similar problems are also seen if the columns are deliberately removed from the options dialog (and OK is pressed)	avoided if the Options dialog is closed using either the Cancel or OK button.
18714OSI8	A .NET addin to PI ProcessBook which uses one of the BatchView COM interop assemblies will fail after upgrading PI ActiveView 3.0.x to PI ActiveView 3.1.0.2. The upgrade results in removing the interop assemblies from the GAC. These entries are reinstated when a repair to PI ActiveView 3.1.0.2 is executed. Assemblies removed from the GAC on upgrade are: OSIsoft.AxPIBatchResultsCtrls.dll, OSIsoft.PIBatchCommon.dll, OSIsoft.PIBatchDialogs.dll, OSIsoft.PIBatchResultsCtrls.dll and OSIsoft.PIBatchSearch.dll.	These entries are reinstated when a repair to PI ActiveView 3.1.0.2 is executed.

Limit Sets (PI Process Template Integration)

Punch List Item	Description	Workaround
SCR# 15015	PI BatchView does not correctly integrate with PI ProcessTemplates based on PISubBatch time ranges. The duration of the PI ProcessTemplates data is assumed to begin at the beginning of the PIUnitBatch. This may result in missing part or all of the PI ProcessTemplates data on the trend.	Found in 3.1.0. None
-	"Error during future trend refresh Type mismatch". PI BatchView only supports PI ProcessTemplates version 1.3.0.7 and later. Earlier versions of PI ProcessTemplates produce this error message.	Upgrade to PI ProcessTemplates version 1.3.0.7 or later.
SCR# 15740	Pressing the Tab key on the Import Limit Set dialog appears to lose the selection. Clicking OK imports the previous selection.	None
SCR# 16045	Zooming to PI ProcessTemplates data in the	None

	future may result in no data shown for the PI ProcessTemplates. This problem was discovered using version 1.3.0.4 of PI ProcessTemplates.	
SCR# 16051	Double-clicking a .pdi (or .piw) file to launch PI ProcessBook with the file may fail loading the file. PI ProcessBook launches, but the display is not loaded. Note, this failure happens with any .pdi or .piw file (even if PI ProcessTemplates is not used by the file). This failure occurs if the PI ProcessTemplates add-in is configured to "Load on Startup" and the PI server used by PI ProcessTemplates requires the connection dialog be displayed for login credentials. This problem was found with PI ProcessBook version 3.0 and is scheduled to be fixed with a future version of PI ProcessBook.	Found in PB 3.0 To work around the problem, load the display after the PI ProcessTemplates add-in has been loaded.
-------	The limit set feature is designed only to work with PIUnitBatch results against a single PI unit. Displaying multiple PI units in the results may lead to misaligned or missing limit data.	None
-------	No PI ProcessTemplates data is shown in PI ProcessBook 3.0 for a running PIUnitBatch if the time zone of the client PC is ahead of the time zone of the PI server, i.e., the time zone of the client is east of the time zone of the server. For the Batch Trend symbol, this may result in no limit set data shown. This problem has been corrected with PI ProcessTemplates version 1.3.0.8.	PT 1.3.0.7 Upgrade to PI ProcessTemplates version 1.3.0.8 or later.
-------	Limit Set traces ignore offsets to the end time such as BatchEnd-10 minutes. The Limit Set always shows data to the end.	None
-------	PI ProcessTemplates uses the API to connect to a PI server. Since PI ProcessBook version 3.0 no longer uses the API, you may need to set *ConnectUsingAPI=1* in the [startup] section of the procbook.ini. When the value of ConnectUsingAPI is set to 1, PI ProcessBook allows a	None

	connection to the default PI server using the PI API. This setting synchronizes PI API server connectivity with PI SDK server connectivity. If a server is connected with the PI SDK, the server is connected with the PI API. The converse does not occur; namely, if a connection is made through the PI API, that connectivity is not provided through the PI SDK. In addition, it is up to the user to maintain the PILOGIN.INI file, used by the PI API, with servers that are in the Known Servers Table maintained by the PI SDK.	

PI ProcessBook Display

Punch List Item	Description	Workaround
-------	If a display created with PI ProcessBook 2.1 and PI BatchView 2.1 is loaded on a system with PI ProcessBook 2.2 or 2.3 without PI BatchView, the PI BatchView symbol displays as a blank box with the name of the symbol. However, if the display is then saved, PI ProcessBook 2.2 and 2.3 with PI BatchView 2.1 crashes when attempting to open the display. The same display may be opened with PI ProcessBook 2.3 and PI BatchView 3.x. However, the configuration information for the batch trend is lost.	None
-------	The ToolTip of the "Batch Group" drawing toolbar button shows "Batch Trend" if the system was upgraded from PI BatchView 2.1.	To correct the problem, right-click on the Toolbar area of PI ProcessBook, select "Customize..." from the right-click menu, highlight the "Drawing Toolbar" item in the Toolbars list box and click the Reset button.
-------	The PI BatchView symbols are not saved when the SVG file format is selected.	None
18116OSI8	Opening ProcessBook displays with a batch group symbol may result in seeing COM Error: 8004AF14 description = 'Registry item not found in the collection' source = 'PISDKRegistry.dll'. Additional symptoms are seeing strings containing a GUID in the Connections dialog such as 107 {4572DB6F-FB4B-4BA4-92E2-1811DAA61D7B} \1\?0\58 {4572DB6F-FB4B-4BA4-92E2-	This problem is seen when the *Automatically add unknown servers* option is enabled, but the *Resolve network name before adding* option is disabled in the Connection Options dialog (File->Connections->Tools->Options). To resolve the problem, either check both options, or un-check both options.

1811DAA61D7B} \1\?37473\piservername or 58 {4572db6f-fb4b-4ba4-92e2-1811daa61d7b} \1\?37473\piservername. The same GUID string may be seen as selected in the servers dropdown list from the Batch Definition dialog. Note that the GUID string may be seen in the batch group symbol's Batch Definition dialog if the server is an unknown PI server. However, seeing the GUID in both the Batch Definition dialog and the connections dialog is an indication of this problem.	

PI ProcessBook Display (file) Backward Compatibility

Punch List Item	Description	Workaround
------	You may see the following error on systems running PI BatchView 2.1: Unable to exit design mode because control 'pbBatchCriteria' cannot be created. This error message is only seen on systems with PI BatchView 2.1. The error is seen when attempting to load a display with a PI BatchView 3.x BatchGroup symbol on a system with PI ProcessBook 2.3 and PI BatchView 2.1. This problem has been corrected with PI ProcessBook 2.31.	None
------	You may see the following error on systems running PI BatchView 2.1: Compile error: Can't find project or library. This error message is only seen on systems with PI BatchView 2.1. The error is seen when attempting to load a display with a PI BatchView 3.x Batch Group symbol on a system with PI ProcessBook 2.2 and PI BatchView 2.1.	None
------	The Plot Time (or Time Alias) definition from PI BatchView 2.1 is not updated based on the current definition of the Plot Time definition in PI BatchView 3.x. The settings remain as they were defined in PI BatchView 2.1 (or default to relative plot of batch start to batch end, if never edited with PI BatchView 2.1).	Found in 3.0. No workaround available.
------	Some displays created with PI BatchView 3.1 Beta are not compatible with PI BatchView 3.0	Some displays created with PI BatchView 3.1 Beta are not compatible with PI BatchView 3.0

	and crash PI ProcessBook if an attempt is made to open the Configure Results dialog from the Layout tab of the Batch Definition dialog. This problem only affects displays that have a Results table that has been edited using the Edit button in the Configure Columns dialog of the Beta.	and crash PI ProcessBook if an attempt is made to open the Configure Results dialog from the Layout tab of the Batch Definition dialog. This problem only affects displays that have a Results table that has been edited using the Edit button in the Configure Columns dialog of the Beta.

Results

Punch List Item	Description	Workaround
SCR# 5746	Using Edit->Selected item when either the Gantt or Trend is maximized results in the Search and/or Results symbols "bleeding" through the maximized symbol when the definition dialog is closed.	Found in 3.0. Double-clicking the maximized symbol to minimize it fixes the problem.
SCR# 18624	The Results table is stretched if its display is opened by double clicking on it (from Windows Explorer, or the desktop) and PI ProcessBook is minimized. The problem is more pronounced the smaller the PI ProcessBook display area is in comparison to the size of the Batch Group symbol. The problem is seen if PI ProcessBook is open and minimized.	Found in 3.1.0. To correct, close and reopen the file.
SCR# 19653	The results portion of a Batch Group symbol may be stretched larger than its original size when its display is opened as maximized and the PI ProcessBook display area is small.	Found in 3.1.0. To workaround this problem, maximize PI ProcessBook (to increase the display area) and reopen the display.
SCR# 15509	The definition of a Tag column in the Results table supports absolute tag references such as '\\mypiserver\sinusoid'. If such a column is defined in a PI ProcessBook Display and the user substitutes another PI server (perhaps since the PI server was renamed or migrated to a new machine) that substitution is not supported for the column.	Found in 3.1.0. The user must manually edit the absolute tag reference in the column.
SCR# 20880	The formats for Start and End Time columns set in the Results (in either symbol configuration or PI BatchView preferences) are not applied to the Results control. The PI ProcessBook time preference (on the Start tab of the PI ProcessBook Preferences dialog) overrides the Start and End Time	Found in 3.0. No workaround available.

	format column preferences.	
12548osi8	The standard PI PE Expression syntax used in Expression columns in the Results Table is limited in its use of [S] and [E] placeholders for the start and end times of a batch item during a daylight savings change. Assuming a DST transition at 2:00 am, if either of these placeholders evaluates to a time between 1:00:00 and 1:59:59 BEFORE the daylight savings Fall/Autumn change, the time is interpreted on the server as being the same time AFTER the change. In this case, the times evaluated are incorrect by the daylight savings difference (usually 1 hour).	Found in 3.1.0. None
------	There is a problem with loading a display with a BatchGroup that was created using the PI BatchView 3.1 beta into PI BatchView 3.0.x. If the BatchGroup's Results table is visible and one or more of its columns have a caption defined, then attempting to open the Configure Results dialog from the Layout tab in the BatchGroup Definition dialog causes the dialog and PI ProcessBook to crash.	The display can be fixed by loading it into PI BatchView 3.1, removing the columns that have captions defined, saving the display, re-adding the columns and their captions and then saving the display again.
------	Existing displays created with PI BatchView 3.1 Beta 1 that used the expression column type with the placeholders "|S|" or "|E|" show an error in each cell of the column. The placeholders are now "[S]" and "[E]".	Update existing displays to use the new placeholders.
SCR# 22735	The instruction at "…" referenced memory at "…". The memory could not be "written". Error message is seen closing ProcessBook after launching the dialog to Edit Column Attributes from the Configure Results dialog.	The error occurs after PI ProcessBook has finished saving and is shutting down. The error can be ignored.

Search

Punch List Item	Description	Workaround
SCR# 21625	Clicking some areas of the Search symbol (in run mode) does not select the Batch Group symbol.	None
SCR 21626	In some cases, the batch group symbol's Build mode right click menu appears when right-clicking on some areas of the Search symbol (in run mode).	Found in 3.0 . No workaround available.

-------	The value "*-2 min" is not accepted as a valid "time from" or "time to" in PI BatchView searches. Use "*- 2 m" or "*-2 minutes" as a substitute.	Found in 3.0 . No workaround available.
SCR# 5746	Using Edit->Selected item when either the Gantt or Trend is maximized results in the Search and/or Results symbols "bleeding" through the maximized symbol when the definition dialog is closed.	Double-clicking the maximized symbol to minimize it fixes the problem.
SCR# 7752	The Search controls show up with black areas in the PI ProcessBook print preview. The print functions correctly.	Found in 3.0. None
SCR# 16276	Lost "Redo Search Criteria change" action from redo queue. Problems have been identified with undo operations associated with changing the Include state of the search on the display. For example, if you change the Include option (Running, Completed, Both) on the display, select Undo Search Criteria change, and click on the undo drop-down list to view the undo queue, the "Redo Search Criteria change" option is lost.	Found in 3.0. None
SCR# 18162	Layout problems have been noticed with long Custom Names for the "Search Criteria". The problems result in the server pick list not being seen on the Batch Definition dialog and on the Search Symbol.	Found in 3.1.0 Care should be taken in assigning long Custom Names for the "Search Criteria" Custom Names to avoid layout issues.
SCR# 13294	When resizing a PI ProcessBook display to sizes less than 100% using the Zoom property, the Search symbol does not decrease in size proportionately. This may result in overlap with other symbols. This may also be evident when viewing the display in PI ActiveView.	Found in 3.0 . To avoid this issue, leave extra space below the Search symbol in the display.
11117 OSI8	Windows long date format is not accepted as a valid format for search times. For example, "Tuesday, May 23, 2006 4:00 AM" returns an error. In general, ProcessBook accepts the Windows Short Date format configured on the computer where ProcessBook is running.	Found in 3.0 If you remove the commas, as in "Tuesday May 23 2006 4:00 AM", this date format is accepted.

Setup/Uninstall

Punch List Item	Description	Workaround
-----------	If you are upgrading from a version of the PI SDK prior to 1.3.1.225, you may observe the following behavior. When installing PI BatchView, Windows Installer opens a background dialog box for a portion of the installation, then a progress bar, then another Windows Installer dialog. The Windows Installer dialogs have only a cancel button. When the install is complete, all the windows close. This problem does not happen on a new installation of the PI SDK.	None
-----------	When PI BatchView is uninstalled, the Excel Add-in is not removed from Microsoft Excel's add-in list. When Excel is opened after a PI BatchView uninstall, an error is displayed stating that the PI BatchView add-in (PIBVExcel.xla) cannot be found.	To resolve this error: Select "Add Ins…" from the Tools menu of Excel. Clear the Pibvexcel checkbox.
SCR 22197	After installing PI BatchView on Windows Vista the user sees an error when opening the Control Panel\Programs and Features, and right-clicking on PI BatchView, choosing "Change", then choosing either "Repair" or "Remove" on the PI BatchView version 3.1.1.1 Setup Dialog. The system attempts to perform the action and then encounters the error: "Error 1606. Could not access network location NULL." This happens only when using Windows Vista and only when the User Account Control in the Control Panel\User Accounts is turned on.	Found in 3.1.1.. One workaround is to open the User Accounts in the Control Panel and turn User Account Control off. Alternately, the user can select "Repair" or "Uninstall" directly from the right-click PI BatchView menu in Control Panel\Programs and Features without choosing "Change" and the action performs without error.

Trend

Punch List Item	Description	Workaround
-----------	Phase and Step markers (a PI BatchView 2.1 feature) are no longer supported. The Gantt chart replaces and expands upon this functionality.	Found in 3.0. None
SCR# 19635	If there are too many traces on the	Found in 2.1. Increase the size of

	trend, the trend may not be able to display a trend cursor (because there is not enough room to show all the trace values).	the trend until the cursor can be seen. If a cursor was created on the Gantt, but not seen on the trend, double-click on the trend (in run mode) to maximize the trend and see the cursor.
SCR# 17794	Non-fixed time units behave the same as fixed. The time units are defined in the Plot Time frame of the Settings tab on the Batch Definition dialog. Non-fixed time units should allow the plot to use a smaller time unit as the plot is zoomed into smaller time ranges. Only fixed time units should remain in the specified time units as the plot is zoomed into a smaller time range.	Found in 3.1.0 None
SCR# 6430	The PI ProcessBook *Change Time Range* dialog and *Scroll Time* toolbar item do not affect either the Gantt or Trend symbols. The *One Time Period Forward* and *One Time Period Back* features only affect the Trend after it has been zoomed to a smaller time range (from a click and drag action on the plot area of the trend).	Found in 3.0. None
SCR# 27130	The batch trend does not currently show trace data from AF datasets. Problem identified with AF dataset version 2.0.0.1 (installed with PI ProcessBook 3.1) and the AF dataset included with the AF Modeler version 1.2.0.	Found in 3.13. None
SCR# 27169	Improper trace alignment can be seen on a batch trend on when the Gantt contains data from two different PI servers and each has a different Time Zone (and/or daylight saving time difference). The problem is only seen when the trend contains trace data from only one of the PI servers. For example a Batch Group is configured to search for PIUnitBatch objects with unit name "reactor1" and the alias "temp" is assigned. The search must be against two PI servers (each in a different time zone). The alignment problem is seen if reactor1 PIUnitBatch objects are found on both PI servers, but the temp alias can only be resolved against the PIUnitBatch objects from one of the PI servers.	Found in 3.11. None

Update Batch Query

Punch List Item	Description	Workaround
-	There are two types of logic used to update the query results. The two types are (1) based on server events and (2) based on polling the server for updates. The preferred method is based on server events and is used when possible. Due to performance issues, the server event method cannot always be used. In which case, polling is used. Server events are used with PI 3 servers for: PIBatch searches. PIUnitBatch searches, where specific units are specified for the unit, for example "\\pi\plant\reactor7". If masks are used, such as a "*" or "reactor7" or "reactor*", polling is used for query updates.	
-	Limitations of polling for server updates: For the purpose of performance, the refresh logic checks for updates less frequently for expensive queries. For each second that a query takes, the refresh logic waits a minimum of 65 seconds before checking again. Most update queries are not that expensive; exceptions include: Queries for "The first n" batch records. Queries for completed batches that Start between To Time and From Time. Queries against PI servers that have a slow response time. If a batch object (PIBatch, PIUnitBatch) is added on the PI Server after its start time, the refresh logic most likely does not see it. The reason for this is that the logic is constantly checking (based on the query used) for top level query objects (PIBatch, PIUnitBatch) that started in the last few seconds. Unless the batch item has a start time that is at the same time or after it is added to the database, refresh query logic does not find it. Click	

	Revert Time Range or run the search again to see these batches. If an EvalDelay is used with pibagen, then the user needs to click "Revert Time Range" or run the search again to see new running batches.	
	Limitations of Batch Subsystem (BSS) event updates: Unless the PIUnitBatch objects are generated by the Batch Database (BDB), no events are received from the PI server when the PIUnitBatch changes. PI BatchView gets updates for BSS generated PIUnitBatches by periodically retrieving the data from the PI server. Because this is process intensive, only the running PIUnitBatches are updated. BDB generated PIUnitBatches in the same batch group continue to receive update events from the server.	
SCR# 15812	Results records that are marked as invisible on the Batch Definition dialog do not receive any updates on the display.	
SCR# 16074	If a running batch record is anchored on the Batch Definition dialog and OK is clicked to exit the dialog after the batch has completed, the batch object shows as running on the display. "Revert time ranges" does not correct this problem.	

VBA/Type Library for PI BatchView

Punch List Item	Description	Workaround
-	The BatchTrend object (IDualBatchTrend interface) of the PIBTPB type library (btrend.tlb) has a binary incompatibility with PI BatchView version 2.1's type library. The properties and methods Rotation, Visible, Enabled, EnableScript, CreateMultiState and FlipType were added to the interface. This issue does not affect VBA code, only code that is compiled against the type library. To maintain backward compatibility with PI	None

	BatchView 2.1, compile using the PI BatchView 2.1 type library.	
SCR# 18451	The Trend and BatchGroup fire the TimeRangeChanged event whenever an event occurs that might change the time range. The current logic does nothing to filter out firing events when the new time range is the same as the old.	None
SCR# 18456	MouseOut, MouseOver and ToolTipText events are defined for the Gantt symbol, but are never fired. The same events are not defined for the Group or Batch Trend symbols.	None

SCR# 17260	When the BatchTrend.DropCursor event is fired, the cursor parameter is not correctly initialized before the event is fired. This situation results in: DroppedCursor.Values.Count has a count of 0 the very first time the cursor is dropped. DroppedCursor.Time always has the time of the previous cursor position. If dropped for the first time, the time is 1/1/1970 12:00 am, GMT. DroppedCursor.Values collection contains the values of the traces at the previous cursor drop point. The BatchTrend.Cursors collection also contains the cursor values from the previous location. If you want the cursor values at the new location, look at the values after the DroppedCursor event completes. Either use a timer or Display.DataUpdate event to look at the Cursor object after the event was fired. For example:
	
	`Private LastDrop As`
	
	`PIBTPB.IDualCursor`
	
	`Private Sub`
	`BatchTrend1_DropCursor( _`
	`ByVal DroppedCursor As _`
	`PIBTPB.IDualCursor, _`
	`ByVal Time As String)`
	`Set LastDrop = DroppedCursor`
	`End Sub`
	`Private Sub`
	`Display_DataUpdate()`
	`Dim x As PIBTPB.IDualCursor`
	`If Not (LastDrop Is`
		Workaround identified in description.

| | ```
Nothing) Then
Dim i As CursorValue
For Each i In
LastDrop.Values
Debug.Print i.Time,
i.Value
Next
Set LastDrop = Nothing
End If
End Sub
``` | |
| SCR# 18723 | The BatchTrend.BackgroundColor property does not update batch trend's background color until the trend is reverted. To workaround this problem, either revert the trend after setting the color. Or, use BatchTrendDef.Formats.Elements( pibvFBackGround) to change the background color. For example:<br>```
Private Sub
ChangeBackground()
  Dim newDefinition As
BatchTrendDef
  Set newDefinition = _

BatchTrend.GetDefinitio
n
  Dim elem As element
  Set elem = _

newDefinition.Format.El
ements( _
    pibvFBackGround )
  elem.Color =
pibvWhite

BatchTrend.SetDefinitio
n _
    newDefinition
End Sub
``` | Workaround identified in description. |
| SCR# 18724 | Moving the BatchGroup symbol, using the Top or Left properties, does not always erase the batch Gantt and Trend in the old location | To workaround this issue, call Application.Refresh after moving the symbol to redraw the display. The Refresh function should be used sparingly, since it may affect performance.<br>```
Sub
moveBatchGroupSymbol()
BatchGroup1.Top =
BatchGroup1.Top-500
BatchGroup1.Applicatio
n.Refresh
End Sub
``` |

SCR# 19941	The BatchGantt.SetTimeRange method does not correctly set the Gantt's time scale. Calling this method results in the Gantt bars' width and location not agreeing with the time scale displayed on the X axis.	The BatchGroup.SetTimeRange function properly sets the time range of its contained Gantt and trends.
SCR# 20181	Problems have been identified with the StartTime and EndTime properties on the BatchGantt and BatchGroup symbol. The BatchGroup StartTime and EndTime properties are always the same as the first contained BatchTrend, i.e., BatchGroup.Trends.Item(1). If there are no BatchTrends, the StartTime and EndTime properties of the BatchGroup are blank. The BatchGantt StartTime and EndTime properties are less reliable and should be avoided.	None
- -----------	Efforts have been taken to minimize the effect of PI BatchView 3.x on existing VBA code with PI BatchView 2.1 displays. However, some methods no longer function in version 3.x. This is mostly due to the fact that batch alignment is treated differently with PI BatchView 3.x. There are no migration issues moving from version 3.0 to version 3.1. The VBA BatchAlign event does not fire with PI BatchView 3.x. The definition of property BatchFormat.ShowTraceMarkers has changed. If the value is 0, trace data markers are not displayed (off). If the value is not 0, trace data markers are displayed (on). Phase and Data markers are no longer supported. The property BatchTrendDef.Format.ShowBatchMarkers is ignored (when BatchTrend.SetDefinition is called). The Plot Time (or Time Alias) definition from PI BatchView	None

	2.1 is ignored when upgrading the display to PI BatchView 3.x. The plots default to relative, plotting from batch start to batch end. Any changes made in PI BatchView 3.x are saved, but only for future use with PI BatchView 3.x. If the display is consequently read with PI BatchView 2.1, the old definition (as defined in PI BatchView 2.1) is used.	
---------	When a PI BatchView 2.1 display is opened, all BatchTrend symbols are converted to a BatchGroup symbol containing the BatchTrend. The BatchGroup symbol maintains the name of the original symbol and the contained BatchTrend's name is the same as the BatchGroup with the prefix "BV21_". For example, a PI BatchView 2.1 display has a symbol called BatchTrend4. When opened in PI BatchView 3.x, the display has both a BatchTrend4 (the Batch Group) and BV21_BatchTrend4 (the Batch Trend) symbol	None
- -----------	VBA code written against PI BatchView 2.1 to add a batch trend now adds a batch group symbol. For compatibility, the first batch trend is referenced when accessing a BatchGroup object with a BatchTrend variable.	None

```
Dim sym As Symbol
Dim bt As BatchTrend
Dim bg As BatchGroup
Set sym =
Symbols.Add(21)
Debug.Print "sym.type="
& sym.Type
'output: sym.Type=21
Set bt = sym ' Gets the
first trend in the
batch group.
Debug.Print "bt.Type="
& bt.Type
'output: bt.Type=21
Set bg = sym
Debug.Print "bg.Type="
```

	`& bg.Type` `'output: bg.Type=21`	

- -----------	When upgrading a PI BatchView 2.1 display, the VBA call: ThisDisplay.Symbols.Item("BatchTrend1") finds the Batch Group symbol converted from the PI BatchView 2.1 Batch Trend symbol called "BatchTrend1". The "Type" property of a BatchGroup is 21 (the PI BatchView 2.1 BatchTrend.type property is also 21). The "Type" property of a PI BatchView 3.0 BatchTrend is 26. For example:
	`Dim bt As BatchTrend`
	`Set bt =`
	`Symbols("BatchTrend1")`
	`Debug.Print "bt.Type="`
	`& bt.Type`
	`'output: bt.Type=21`
	`Set bt =`
	`Symbols("BV21_BatchTren`
	`d1")`
	`Debug.Print "bt.Type="`
	`& bt.Type`
	`'output: bt.Type=26`
		None

Windows XP Problems

(only observed when running PI BatchView on Windows XP)

Punch List Item	Description	Workaround
SCR# 21628	The Gantt scrollbar does not use the Windows XP format.	None
SCR# 5198	Several of the buttons on the Batch Definition dialogs appear in a 3-D style on Windows XP. The display and PI BatchView dialogs will be changed to use a consistent "Windows XP" style in a future release.	None
SCR# 5130	Portions of the background on the Batch Definition dialog are a different color than the rest of the dialog.	None

Abbreviation	Product
PB	PI ProcessBook
PT	PI ProcessTemplates

Setup

Operating Systems

This release supports Windows XP, Windows 2003, Windows Vista, Windows 2008, and Windows 7 and Windows 8.

System Prerequisites

For PI ProcessBook features, you must be running PI ProcessBook version 3.1 or later.

For the PI BatchView 3.x Microsoft Excel add-in, you must be running Microsoft Excel XP or later.

The PI Server from which batch records are to be retrieved must be version 3.3.362.47 (3.3 SR2) or greater to support PI BatchView.

To view existing batch data stored in the Batch Subsystem in PI BatchView 3.x, you must first create copies of the units from the pibaunit table into the Module Database. This step is described in the document Batch Database Support of the PI Batch Subsystem found on the OSIsoft Tech Support website. See the section of the document titled "Accessing Batch Subsystem Batches via the PI SDK" for a step-by-step procedure.

OSIsoft Prerequisite Kits are available in three packages that verify and install the needed operating system prerequisites:

Online (Recommended): For installation on a computer connected to the internet. This kit connects to Microsoft sites in order to download .NET Framework 3.5 for the operating system on which it is run. This is a bootstrapper kit that is much smaller than the Standalone kit.

Standalone (Recommended): For installation on a computer that *cannot* connect to Microsoft sites, or for installations where such connection is not desirable. This is a full redistributable kit that is much larger than the Online kit.

Legacy: This kit should only be used for installation on older operating systems where the OSIsoft products do not require .NET Framework 3.5.

All three Prerequisite Kits contain both 32-bit and 64-bit installation redistributables. See the Prerequisites Product Pages on the OSIsoft Tech Support Web site to determine which MS Operating System prerequisites you need:
http://techsupport.osisoft.com/Products/Prerequisite+Kits/Prerequisite+Kits+Overview.htm

Distribution Kit Files

The PI BatchView is delivered as a self-extracting zip file named BatchView_2012_.exe. This file contains:
- BatchView_Setup.MSI
- BatchView_Setup.mst
- dotnet20Setup.dll
- MDACSetup.dll
- MSRuntimes.msi
- MSRuntimes_318.msi
- msxmlSetup.dll
- PatchDLL.dll
- PI BatchView 2012 Release Notes.pdf
- Pibufss.msi
- pisdk.msi
- pisdk.mst
- pisdk_x86_1.4.0.418.msp
- PISDKRegistryPermissionFix_WI65835.dll
- ScriptingRuntimeSetup.dll
- Setup.exe
- setup.ini
- SetupUtils.dll
- silent.ini
- WindowsInstallerSetup.dll

PI SDK is version 1.4.0.418

Installation and Upgrade

Because the setup program needs to write entries to shared portions of the registry and copy files to the system directory, you must run setup.exe while logged into the system as a user with Administrator privileges. As with all setup programs, it is advisable to close other applications during the setup process.

- Install PI ProcessBook version 3.1.0.0 or later. Note that earlier versions of PI ProcessBook are not supported for this version of PI BatchView, but you can use displays created in those versions.

- Install PI BatchView version 3.1.5 The setup program is an integrated package to install PI BatchView as well as other Windows and PI component software needed to run PI BatchView. All of the components are listed on the Setup Welcome screen along with a note on whether they need to be installed or upgraded. All component installations are run in the sequence listed in the Setup Welcome; they are run silently when possible. When feasible, all system reboots are saved until the completion of the entire installation to avoid repeated reboots to the system.
  If the Windows Installer component needs to be installed, this component installation is run silently. Unfortunately, the system does not show an hourglass when the Windows Installer component setup is running, so it may appear to users that the system is hung during this portion of the setup. The setup is functioning correctly even when the hourglass does not appear.
  When the Microsoft Data Access Components (MDAC) need to be installed, the user is advised that the system needs to be rebooted upon completion of the installation of this component. Although this message suggests that the reboot occurs immediately, it does not happen until the very end of the entire installation.

- Sometimes the setup program needs to display a dialog box with a message to the user and, in most cases, that window appears on top of all other open windows on the computer. In some cases, a dialog box is hidden behind another open window. You can select the window from the task bar at the bottom of the screen in order to bring it to the top. Once you bring the window to the top and respond, the installation continues normally.

Note: Administrative (network shared) setup of PI BatchView 3.1 is not supported. Both PI ProcessBook and PI BatchView must be installed locally in order for PI BatchView to function correctly.

Upgrading from a Previous Version

General
Migration from PI BatchView 2.1 to 3.x has been designed to be as seamless as possible. However, because of the advances in storing batches on the PI server, the client tools for viewing batch data have been improved and behaviors have changed. Therefore, the experience of working with batch-driven display is different, but offers more functionality than in the older versions.

Upgrades from prior versions of PI BatchView 3.1.x to the most current version of PI BatchView are supported by the setup program. Upgrades from older versions of PI BatchView (3.0 and below) require the manual step of uninstalling the old version before running the PI BatchView setup kit.

If you wish to upgrade from a timeout version of this software, follow the instructions for Downgrading to an Earlier Version.

Excel Addin
This version of PI BatchView ships with both the new version (3.1) and the previous version (2.1) of the Excel add-in.

- The 2.1.1.2 version of the Excel add-in is included to support existing spreadsheets having BatchQuery and UnitAliasQuery functions. This version remains unchanged from

the PI BatchView 3.0.3 release. This add-in must be manually added to Excel if required. From Excel's Tools->Add-ins menu, choose "PI-BatchView" or browse to pibat32.xla in the \pipc\batch directory.

- The new Excel add-in provides new functions to fully support the PI Batch Database and can be loaded side-by-side with the version 2.1 add-in, if desired. This add-in is automatically added to Excel during the installation of PI BatchView 3.1. This add-in contains two add-ins listed in Excel: "PI BatchView for Excel" and "PIBVExcel.Functions." Both are required for version 3.1 of the Excel add-in to work properly.

Downgrading to an Earlier Version

Downgrading PI BatchView requires that you uninstall PI BatchView 3.1 and PI ProcessBook. Since uninstall does not remove some of its files, they must be manually deleted before re-installing PI BatchView and PI ProcessBook.

Steps for downgrading:
1. Uninstall PI BatchView 3.1.
2. Delete the Program Files\pipc\batch directory
3. Uninstall PI ProcessBook (if it was installed). *Optionally, you may:*
   a. Delete Program Files\PIPC\procbook\btrend32.dll.
   b.) Delete Program Files\PIPC\procbook\btrend.tlb.
   c. Delete all files in the Program Files\PIPC\Batch directory.
   d. Repair the PI ProcessBook installation.

4. Install PI ProcessBook (if desired).
5. Install the desired version of PI BatchView.

Uninstalling PI BatchView

PI BatchView can be removed from your system by selecting it for removal in the Add/Remove Programs utility in the Control Panel for Windows XP, and 2003, or the Programs and Features Control Panel for Windows Vista and 2008 Server. You must have administrator privileges on your machine to successfully uninstall PI BatchView on Windows XP or Windows 2003 Server.

List of Files Installed During Setup

Directory	File	File Version	Assembly Version
C:\Program Files\PIPC\Batch	CustomNamesSettings.exe	1.0.0.140	
	OSIsoft.AxPIBatchCustomNamesCtrls.dll	1.0.0.140	
	OSIsoft.AxPIBatchResultsCtrls.dll	3.1.0.163	
	OSIsoft.AxPIBatchSearchCtrls.dll	3.1.3.2	
	OSIsoft.PIBatchCommon.dll	3.1.0.163	
	OSIsoft.PIBatchCustomNames.dll	1.0.0.140	
	OSIsoft.PIBatchCustomNamesCtrls.dll	1.0.0.140	
	OSIsoft.PIBatchDialogs.dll	3.1.0.163	
	OSIsoft.PIBatchResultsCtrls.dll	3.1.0.163	
	OSIsoft.PIBatchSearch.dll	3.1.0.163	
	OSIsoft.PIBatchSearchCtrls.dll	3.1.3.2	
	OSIsoft.ProcessBook.BatchView.dll	3.1.4.0	
	OSIsoft.ProcessBook.BatchView.Controls.dll	3.1.3.2	
	pbBatchView.dll	3.1.3.2	
	pibat32.xla	2.1.1.2	
	PIBatchCommon.dll	3.1.4.0	
	PIBatchCustomNames.dll	1.0.0.140	
	PIBatchCustomNamesCtrls.ocx	1.0.0.140	
	PIBatchDialogs.dll	3.1.1.164	
	PIBatchResultsCtrls.ocx	3.1.1.164	
	PIBatchSearch.dll	3.1.1.164	
	PIBatchSearchCtrls.ocx	3.1.3.2	
	PIBatchUtilities.ocx	3.1.1.164	
	pibatchv.ocx	2.1.0.46	
	PIBatchView.exe	3.1.4.0	
	PIBVExcel.dll	3.1.3.2	
	PIBVExcelCommon.dll	3.1.3.2	
	PIBVExcel.xla	3.1.3.3	
	PIBVExl.cnt		

Directory	File	File Version	Assembly Version
	PIBVExl.hlp		
	readme.htm		
C:\Program Files\PIPC\Procbook	btrend32.dll	3.1.4.0	
C:\Program Files\PIPC\ Procbook\En	btrend32.dll.mui	3.1.4.0	

Directory	File	File Version	Assembly Version
C:\Program Files\PIPC\Help	PI Batch Custom Names Settings.chm		
	PIBatchView.chm		
	PIBatchViewProgramming.chm		
C:\Program Files\PIPC\Help\En	PIBatchView.chm		
	PIBatchViewProgramming.chm		
C:\Program Files\PIPC\DAT	BatchViewMaster.log		
	pisetup_BatchView.ini		
	SetupBatchView_Setup.log		
C:\Windows (%SystemRoot%)	PIBV_HelpIcons.bmp		
C:\Windows\System32 (%SystemRoot%\System32)	SftTree_IX86_A_45.ocx	4.5.15.500	
	SSubTmr6.dll	3.1.0.5	
	ROBOEX32.dll	11.0.217.0	
Global Assembly Cache (c:\windows\assembly) . This section identifies the Assembly version	OSIsoft.AxPIBatchCustomNamesCtrls.dll	1.0.0.140	1.0.0.0
	OSIsoft.AxPIBatchResultsCtrls.dll	3.1.0.163	3.0.2.0
	OSIsoft.AxPIBatchSearchCtrls.dll	3.1.3.2	3.0.2.0
	OSIsoft.PIBatchCommon.dll	3.1.0.163	3.0.2.0
	OSIsoft.PIBatchCustomNames.dll	1.0.0.140	1.0.0.0
	OSIsoft.PIBatchCustomNamesCtrls.dll	1.0.0.140	1.0.0.0
	OSIsoft.PIBatchDialogs.dll	3.1.0.163	3.0.2.0
	OSIsoft.PIBatchResultsCtrls.dll	3.1.0.163	3.0.2.0
	OSIsoft.PIBatchSearch.dll	3.1.0.163	3.0.2.0
	OSIsoft.PIBatchSearchCtrls.dll	3.1.3.2	3.0.2.0

	OSIsoft.PIBVExcel.dll	3.1.3.2	3.1.0.0
	OSIsoft.PIBVExcelCommon.dll	3.1.3.2	3.1.0.0
	OSIsoft.ProcessBook.BatchView.Controls.dll	3.1.3.2	1.0.0.0
	OSIsoft.ProcessBook.BatchView.dll	3.1.4.0	1.0.0.0
C:\Program Files\Common Files\Designer\	MSADDNDR.DLL	6.00.8169	

This product includes software (SSubTmr6.dll) developed by vbAccelerator (http://vbaccelerator.com/).

Documentation Overview

PI BatchView User Guide: An introduction to PI BatchView for the end user. This user guide provides a product overview, installation procedures, a tutorial to acquaint you with the user interface for PI BatchView, and other topics to allow you to work with and troubleshoot PI BatchView.

Batch Database Support of the PI Batch Subsystem Document: This document describes how the Batch Database and PI Batch Subsystem are supported, the impact on existing batch applications, and techniques to move to the PI Batch Database

Technical Support and Resources

For technical assistance, contact OSIsoft Technical Support at +1 510-297-5828 or techsupport@osisoft.com. The OSIsoft Technical Support website offers additional contact options for customers outside of the United States.

When you contact OSIsoft Technical Support, be prepared to provide this information:

- Product name, version, and build numbers

- Computer platform (CPU type, operating system, and version number)

- Time that the difficulty started

- Log files at that time

- Details of any environment changes prior to the start of the issue

- Summary of the issue, including any relevant log files during the time the issue occurred

The OSIsoft Virtual Campus *(vCampus)* website has subscription-based resources to help you with the programming and integration of OSIsoft products.

OSIsoft, LLC

777 Davis St., Suite 250
San Leandro, CA 94577 USA

Tel: (01) 510-297-5800
Fax: (01) 510-357-8136
Web: http://www.osisoft.com

OSIsoft Australia • Perth, Australia

OSIsoft Europe GmbH • Frankfurt, Germany

OSIsoft Asia Pte Ltd. • Singapore

OSIsoft Canada ULC • Montreal & Calgary, Canada

OSIsoft, LLC Representative Office • Shanghai, People's Republic of China

OSIsoft Japan KK • Tokyo, Japan

OSIsoft Mexico S. De R.L. De C.V. • Mexico City, Mexico

OSIsoft do Brasil Sistemas Ltda. • Sao Paulo, Brazil