

**Parametric Technology Corporation®**

**Pro/ENGINEER® Wildfire® 5.0  
J-Link Release Notes  
(Preproduction)**

**November 2008**

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# About This Guide

This document provides release-specific information for J-Link for Pro/ENGINEER Wildfire 5.0. It describes new methods in J-Link. It also includes critical changes that require investigation of existing applications and adjustment of existing code.

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## Documentation for J-Link

J-Link documentation comes in the following forms:

- API Wizard in HTML format
- *J-Link User's Guide* in PDF format
- **Reference Documents** page at [www.ptc.com/appserver/cs/doc/refdoc.jsp](http://www.ptc.com/appserver/cs/doc/refdoc.jsp) (Choose the product or document type)

The API Wizard and the *J-Link User's Guide* are on the Pro/ENGINEER product DVD-ROM. You can view the API Wizard with your browser. To view and print the PDF book, you must have Acrobat Reader installed.

PTC welcomes your suggestions and comments on its documentation. Send comments electronically to [doc-webhelp@ptc.com](mailto:doc-webhelp@ptc.com).

# 1

## Critical Technical Changes

This chapter describes the changes in Pro/ENGINEER Wildfire 5.0 and J-Link that might require alteration of existing J-Link applications.

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## Printing Instructions

The interface `pfcModel.PlotInstructions` containing the instructions for plotting files has been deprecated. Existing J-Link methods for creating and accessing the instruction attributes have also been deprecated. Use the new interface type `pfcExport.PrinterInstructions` and its methods instead. Refer to the Superseded Methods section for the complete list of methods that have been deprecated.

The following new interface types have also been added:

- `pfcExport.PrintPrinterOption` for printer settings
- `pfcExport.PrintMdlOption` for the definition of the model for printing
- `pfcExport.PrintPlacementOption` for the placement options for use while printing
- `pfcExport.PrinterPCFOptions` for the definition of the printing options for a Plotter Configuration File (PCF)

# 2

## New and Superseded Methods

This chapter describes new methods for J-Link for Pro/ENGINEER Wildfire 5.0.

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## New Methods

The following section describes the new J-Link methods.

### 2D Export

New Method	Description
<code>pfModel.pfcModel.MedusaExportInstructions_Create</code>	Creates a new instructions object for export of a drawing in EXPORT_MEDUSA format (using <b><code>pfModel.Model.Export</code></b> ).
<code>pfModel.pfcModel.Export2DOption_Create</code> <code>pfModel.Export2DOption.SetExportSheetOption</code> <code>pfModel.Export2DOption.SetModelSpaceSheet</code> <code>pfModel.Export2DOption.SetSheets</code>	Accesses the options to export multiple sheets of a drawing to 2D formats.

### 3D Export

New Method	Description
<code>pfExport.pfcExport.CatiaPart3DExportInstructions_Create</code> <code>pfExport.pfcExport.CatiaProduct3DExportInstructions_Create</code> <code>pfExport.pfcExport.CatiaCGR3DExportInstructions_Create</code> <code>pfExport.pfcExport.JT3DExportInstructions_Create</code> <code>pfExport.pfcExport.ParaSolid3DExportInstructions_Create</code> <code>pfExport.Export.UG3DExportInstructions_Create</code>	Creates a new instructions object for import of the following 3D import formats: <ul style="list-style-type: none"> <li>• EXPORT_CATIA_PART</li> <li>• EXPORT_CATIA_PRODUCT</li> <li>• EXPORT_CATIA_CGR</li> <li>• EXPORT_JT</li> <li>• EXPORT_PARASOLID</li> <li>• EXPORT_UG</li> </ul>

### Datum Features

New Method	Description
<b>Datum Plane Feature</b>	
<code>pfDatumPlaneFeat.DatumPlaneFeat.GetFlip</code> <code>pfDatumPlaneFeat.DatumPlaneFeat.GetConstraints</code> <code>pfDatumPlaneFeat.DatumPlaneConstraint.GetConstraintType</code> <code>pfDatumPlaneFeat.pfcDatumPlaneFeat.DatumPlaneThroughConstraint_Create</code>	Provides read access to the properties of the Datum Plane feature.

New Method	Description
pfcDatumPlaneFeat.DatumPlaneThroughConstraint. GetThroughRef	Provides read access to the properties of the Datum Plane feature.
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneNormalConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneNormalConstraint. GetNormalRef	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneParallelConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneParallelConstraint. GetParallelRef	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneTangentConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneTangentConstraint. GetTangentRef	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneOffsetConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneOffsetConstraint. GetOffsetRef	
pfcDatumPlaneFeat.DatumPlaneOffsetConstraint. GetOffsetValue	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneOffsetCoordSysConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneOffsetCoordSys Constraint.GetCsysAxis	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneAngleConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneAngleConstraint. GetAngleRef	
pfcDatumPlaneFeat.DatumPlaneAngleConstraint. GetAngleValue	
pfcDatumPlaneFeat.pfcDatumPlaneFeat.Datum PlaneSectionConstraint_Create	
pfcDatumPlaneFeat.DatumPlaneSectionConstraint. GetSectionRef	
pfcDatumPlaneFeat.DatumPlaneSectionConstraint. GetSectionIndex	

New Method	Description
<p>pfDatumPlaneFeat.DatumPlaneDefaultXConstraint.DatumPlaneDefaultXConstraint_Create</p> <p>pfDatumPlaneFeat.DatumPlaneDefaultYConstraint.DatumPlaneDefaultYConstraint_Create</p> <p>pfDatumPlaneFeat.DatumPlaneDefaultZConstraint.DatumPlaneDefaultZConstraint_Create</p>	<p>Provides read access to the properties of the Datum Plane feature.</p>
<b>Datum Axis Feature</b>	
<p>pfDatumAxisFeat.DatumAxisFeat.GetConstraints</p> <p>pfDatumAxisFeat.pfDatumAxisFeat.DatumAxisConstraint_Create</p> <p>pfDatumAxisFeat.DatumAxisConstraint.GetConstraintType</p> <p>pfDatumAxisFeat.DatumAxisConstraint.GetConstraintRef</p> <p>pfDatumAxisFeat.DatumAxisFeat.GetDimConstraints</p> <p>pfDatumAxisFeat.pfDatumAxisFeat.DatumAxisDimensionConstraint_Create</p> <p>pfDatumAxisFeat.DatumAxisDimensionConstraint.GetDimOffset</p> <p>pfDatumAxisFeat.DatumAxisDimensionConstraint.GetDimRef</p>	<p>Provides read access to the properties of the Datum Axis feature.</p>
<b>General Datum Point Feature</b>	
<p>pfDatumPointFeat.DatumPointFeat.GetFeatName</p> <p>pfDatumPointFeat.DatumPointFeat.GetPoints</p> <p>pfDatumPointFeat.GeneralDatumPoint.GetName</p> <p>pfDatumPointFeat.pfDatumPointFeat.DatumPointPlacementConstraint_Create</p> <p>pfDatumPointFeat.GeneralDatumPoint.GetPlaceConstraints</p> <p>pfDatumPointFeat.pfDatumPointFeat.DatumPointDimensionConstraint_Create</p> <p>pfDatumPointFeat.GeneralDatumPoint.GetDimConstraints</p>	<p>Provides read access to the properties of the Datum Point feature.</p>

New Method	Description
<p>pfcDatumPointFeat.DatumPointConstraint.GetConstraintRef</p> <p>pfcDatumPointFeat.DatumPointConstraint.GetConstraintType</p> <p>pfcDatumPointFeat.DatumPointConstraint.GetValue</p>	<p>Provides read access to the properties of the Datum Point feature.</p>
<b>Datum Coordinate System Feature</b>	
<p>pfcCoordSysFeat.CoordSysFeat.GetOriginConstraints</p> <p>pfcCoordSysFeat.pfcCoordSysFeat.DatumCsysOriginConstraint_Create</p> <p>pfcCoordSysFeat.DatumCsysOriginConstraint.GetOriginRef</p> <p>pfcCoordSysFeat.CoordSysFeat.GetDimensionConstraints</p> <p>pfcCoordSysFeat.pfcCoordSysFeat.DatumCsysDimensionConstraint_Create</p> <p>pfcCoordSysFeat.DatumCsysDimensionConstraint.GetDimRef</p> <p>pfcCoordSysFeat.DatumCsysDimensionConstraint.GetDimValue</p> <p>pfcCoordSysFeat.DatumCsysDimensionConstraint.GetDimConstraintType</p> <p>pfcCoordSysFeat.CoordSysFeat.GetOrientationConstraints</p> <p>pfcCoordSysFeat.pfcCoordSysFeat.DatumCsysOrientMoveConstraint_Create</p> <p>pfcCoordSysFeat.DatumCsysOrientMoveConstraint.GetOrientMoveConstraintType</p> <p>pfcCoordSysFeat.DatumCsysOrientMoveConstraint.GetOrientMoveValue</p> <p>pfcCoordSysFeat.CoordSysFeat.GetIsNormalToScreen</p> <p>pfcCoordSysFeat.CoordSysFeat.GetOffsetType</p> <p>pfcCoordSysFeat.CoordSysFeat.GetOnSurfaceType</p> <p>pfcCoordSysFeat.CoordSysFeat.GetOrientByMethod</p>	<p>Provides read access to the properties of the Datum Coordinate System feature.</p>

## Export to PDF

New Method	Description
<code>pfcExport.pfcExport.PDFExportInstructions_Create</code>	Creates a new instructions object for export to PDF format (using <b>pfcModel.Model.Export</b> ).
<code>pfcExport.PDFExportInstructions.SetFilePath</code> <code>pfcExport.PDFExportInstructions.SetOptions</code>	Accesses the instructions for export to PDF.
<code>pfcExport.pfcExport.PDFOption_Create</code> <code>pfcExport.PDFOption.SetOptionType</code> <code>pfcExport.PDFOption.SetOptionValue</code>	Accesses the options required for export to PDF.

## Family Tables

New Method	Description
<code>pfcFamily.FamilyMember.GetImmediateGenericInfo</code>	Returns the model descriptor of the immediate generic model.

## Printing Files

New Method	Description
<b>Printing Instructions</b>	
<code>pfcExport.pfcExport.PrinterInstructions_Create</code>	Creates the <code>pfcExport.PrinterInstructions</code> object.
<code>pfcExport.PrinterInstructions.SetPrinterOption</code> <code>pfcExport.PrinterInstructions.SetPlacementOption</code> <code>pfcExport.PrinterInstructions.SetModelOption</code> <code>pfcExport.PrinterInstructions.SetWindowId</code>	Accesses and modifies the plotting instructions.
<b>Printer Options</b>	
<code>pfcExport.pfcExport.PrintPrinterOption_Create</code>	Creates the <code>pfcExport.PrintPrinterOption</code> object.
<code>pfcSession.BaseSession.GetPrintPrinterOptions</code>	Returns the <code>pfcExport.PrintPrinterOption</code> object containing the printer options.
<code>pfcExport.PrintPrinterOption.SetDeleteAfter</code> <code>pfcExport.PrintPrinterOption.SetFileName</code> <code>pfcExport.PrintPrinterOption.SetPaperSize</code>	Accesses and modifies the options for a specified printer.

New Method	Description
<p> <code>pfcExport.Export.PrintSize_Create</code>  <code>pfcExport.PrintSize.SetHeight</code>  <code>pfcExport.PrintSize.SetWidth</code>  <code>pfcExport.PrintSize.SetPaperSize</code>  <code>pfcExport.PrintPrinterOption.SetPenTable</code>  <code>pfcExport.PrintPrinterOption.SetPrintCommand</code>  <code>pfcExport.PrintPrinterOption.SetPrinterType</code>  <code>pfcExport.PrintPrinterOption.SetQuantity</code>  <code>pfcExport.PrintPrinterOption.SetRollMedia</code>  <code>pfcExport.PrintPrinterOption.SetRotatePlot</code>  <code>pfcExport.PrintPrinterOption.SetSaveMethod</code>  <code>pfcExport.PrintPrinterOption.SetSaveToFile</code>  <code>pfcExport.PrintPrinterOption.SetSendToPrinter</code>  <code>pfcExport.PrintPrinterOption.SetSlew</code>  <code>pfcExport.PrintPrinterOption.SetSwHandshake</code>  <code>pfcExport.PrintPrinterOption.SetUseTtf</code> </p>	<p>Accesses and modifies the options for a specified printer.</p>
<b>Placement Options</b>	
<p><code>pfcExport.pfcExport.PrintPlacementOption_Create</code></p>	<p>Creates the <code>pfcExport.PrintPlacementOption</code> object.</p>
<p><code>pfcSession.BaseSession.GetPrintPlacementOptions</code></p>	<p>Returns the <code>pfcExport.PrintPlacementOption</code> object containing the placement options.</p>
<p> <code>pfcExport.PrintPlacementOption.SetBottomOffset</code>  <code>pfcExport.PrintPlacementOption.SetClipPlot</code>  <code>pfcExport.PrintPlacementOption.SetKeepPanzoom</code>  <code>pfcExport.PrintPlacementOption.SetLabelHeight</code>  <code>pfcExport.PrintPlacementOption.SetPlaceLabel</code>  <code>pfcExport.PrintPlacementOption.SetScale</code>  <code>pfcExport.PrintPlacementOption.SetShiftAllCorner</code> </p>	<p>Accesses and modifies the placement options.</p>

New Method	Description
<p> <code>pfExport.PrintPlacementOption.SetSideOffset</code>  <code>pfExport.PrintPlacementOption.SetX1ClipPosition</code>  <code>pfExport.PrintPlacementOption.SetX2ClipPosition</code>  <code>pfExport.PrintPlacementOption.SetY1ClipPosition</code>  <code>pfExport.PrintPlacementOption.SetY2ClipPosition</code> </p>	<p>Accesses and modifies the placement options.</p>
<b>Model Options</b>	
<p><code>pfExport.pfExport.PrintMdlOption_Create</code></p>	<p>Creates the <code>pfExport.PrintMdlOption</code> object.</p>
<p><code>pfSession.BaseSession.GetPrintMdlOptions</code></p>	<p>Returns the <code>pfExport.PrintMdlOption</code> object containing the model options for printing purpose.</p>
<p> <code>pfExport.PrintMdlOption.SetDrawFormat</code>  <code>pfExport.PrintMdlOption.SetFirstPage</code>  <code>pfExport.PrintMdlOption.SetLastPage</code>  <code>pfExport.PrintMdlOption.SetLayerName</code>  <code>pfExport.PrintMdlOption.SetLayerOnly</code>  <code>pfExport.PrintMdlOption.SetMdl</code>  <code>pfExport.PrintMdlOption.SetQuality</code>  <code>pfExport.PrintMdlOption.SetSegmented</code>  <code>pfExport.PrintMdlOption.SetSheets</code>  <code>pfExport.PrintMdlOption.SetUseDrawingSize</code>  <code>pfExport.PrintMdlOption.SetUseSolidScale</code> </p>	<p>Accesses and modifies the model options.</p>
<b>Plotter Configuration File (PCF) Option</b>	
<p><code>pfExport.pfExport.PrinterPCFOptions_Create</code></p>	<p>Creates the <code>pfExport.PrinterPCFOptions</code> object.</p>
<p><code>pfSession.BaseSession.GetPrintPCFOptions</code></p>	<p>Returns the <code>pfExport.PrinterPCFOptions</code> object containing the printing options for a Plotter Configuration File (PCF).</p>
<p> <code>pfExport.PrinterPCFOptions.SetPrinterOption</code>  <code>pfExport.PrinterPCFOptions.SetPlacementOption</code> </p>	<p>Accesses and modifies the printing options for a Plotter Configuration File (PCF).</p>

New Method	Description
pfcExport.PrinterPCFOptions.SetModelOption	Accesses and modifies the printing options for a Plotter Configuration File (PCF).

## User Interface

New Method	Description
<b>File &gt; Open</b>	
pfcSession.BaseSession.UIRegisterFileOpen pfcUI.pfcUI.FileOpenRegisterOptions_Create pfcUI.FileOpenRegisterOptions.SetFileDescription pfcUI.FileOpenRegisterOptions.SetFileType pfcUI.FileOpenRegisterListener.FileOpenAccess pfcUI.FileOpenRegisterListener.OnFileOpenRegister	Adds a new file type in the Open dialog box.
<b>File &gt; Save</b>	
pfcSession.BaseSession.UIRegisterFileSave pfcUI.pfcUI.FileSaveRegisterOptions_Create pfcUI.FileSaveRegisterOptions.SetFileDescription pfcUI.FileSaveRegisterOptions.SetFileType pfcUI.FileSaveRegisterListener.FileSaveAccess pfcUI.FileSaveRegisterListener.OnFileSaveRegister	Adds a new file type in the Save a Copy dialog box.
<b>Navigation Area</b>	
pfcSession.Session.NavigatorPaneBrowserAdd pfcSession.Session.NavigatorPaneBrowserIconSet pfcSession.Session.NavigatorPaneBrowserURLSet	Adds custom panes containing custom Web pages to the Navigation area.

## Pro/ENGINEER Window

New Method	Description
<b>Window ID</b>	
pfcWindow.Window.GetId	Retrieves the ID of the Pro/ENGINEER window.

## Superseded Methods

The following table lists superseded methods in this release.

Superseded Method	New Method
pfcModel.pfcModel.PlotInstructions_Create	pfcExport.pfcExport.PrinterInstructions_Create
pfcModel.PlotInstructions.SetPlotterName	pfcExport.PrinterInstructions.SetPrinterOption
pfcModel.PlotInstructions.SetOutputQuality	pfcExport.PrinterInstructions.SetPlacementOption
pfcModel.PlotInstructions.SetUserScale	pfcExport.PrinterInstructions.SetModelOption
pfcModel.PlotInstructions.SetPenSlew	pfcExport.PrinterInstructions.SetWindowId
pfcModel.PlotInstructions.SetPenVelocityX	
pfcModel.PlotInstructions.SetPenVelocityY	
pfcModel.PlotInstructions.SetSegmentedOutput	
pfcModel.PlotInstructions.SetLabelPlot	
pfcModel.PlotInstructions.SetSeparatePlotFiles	
pfcModel.PlotInstructions.SetPaperSize	
pfcModel.PlotInstructions.SetPageRangeChoice	
pfcModel.PlotInstructions.SetPaperSizeY	
pfcModel.PlotInstructions.SetFirstPage	
pfcModel.PlotInstructions.SetLastPage	

# 3

## Miscellaneous Technical Changes

The following changes in Pro/ENGINEER Wildfire 5.0 can affect functional behavior in J-Link. PTC does not anticipate that these changes cause critical issues with existing J-Link applications.

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## 3D Import Formats

The class `pfcImport.NewModelImportType` now contains new 3D import formats. The J-Link method `pfcSession.BaseSession.ImportNewModel` supports the following new import formats:

- `IMPORT_NEW_CATIA_PART`
- `IMPORT_NEW_UG`
- `IMPORT_NEW_PRODUCTVIEW`
- `IMPORT_NEW_CATIA_CGR`
- `IMPORT_NEW_JT`

The class `pfcModel.IntfType` also contains new 3D feature import formats. The J-Link method `pfcSolid.Solid.CreateImportFeat` supports the following new import formats:

- `INTF_ICEM`
- `INTF_ACIS`
- `INTF_DXF`
- `INTF_CDRS`
- `INTF_STL`
- `INTF_VRML`
- `INTF_PARASOLID`
- `INTF_AI`
- `INTF_CATIA_PART`
- `INTF_UG`
- `INTF_PRODUCTVIEW`
- `INTF_CATIA_CGR`
- `INTF_JT`

## Datum Features Properties

J-Link now provides read access to the properties of Datum features. The table below lists the Datum features supported and the new packages in which their properties and the corresponding read methods have been defined:

Datum Feature	J-Link Package
Datum Plane feature	<code>com.ptc.pfc.pfcDatumPlaneFeat</code>
Datum Axis feature	<code>com.ptc.pfc.pfcDatumAxisFeat</code>

Datum Feature	J-Link Package
Datum Point feature	com.ptc.pfc.pfcDatumPointFeat
Coordinate System feature	com.ptc.pfc.pfcCoordSysFeat

## Export Formats

New export formats have been added to the class `pfcModel.ExportType`. The following table lists the new export formats and the new instructions object added for each format:

Export Format	Interface
EXPORT_MEDUSA	<code>pfcExport.MedusaExportInstructions</code>
EXPORT_CATIA_PART	<code>pfcExport.CatiaPart3DExportInstructions</code>
EXPORT_CATIA_PRODUCT	<code>pfcExport.CatiaProduct3DExportInstructions</code>
EXPORT_CATIA_CGR	<code>pfcExport.CatiaCGR3DExportInstructions</code>
EXPORT_JT	<code>pfcExport.JT3DExportInstructions</code>
EXPORT_PARASOLID	<code>pfcExport.ParaSolid3DExportInstructions</code>
EXPORT_UG	<code>pfcExport.UG3DExportInstructions</code>
EXPORT_PDF	<code>pfcExport.PDFExportInstructions</code>

## Export to PDF and U3D

J-Link now supports the export of Pro/ENGINEER drawings and solid models to PDF and U3D formats. A drawing can be exported as a 2D raster image embedded in a PDF file. The 3D models can be exported in the following ways:

- As a U3D model embedded in a one-page PDF file
- As 2D raster images representing saved views embedded in pages of a PDF file
- As a standalone U3D file

A new interface `pfcExport.PDFExportInstructions` containing all the instructions for export to PDF has been added. New PDF option types have also been defined in the class `pfcExport.PDFOptionType`.

