OPTIVA SYSTEMS
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Plug-in Downloads for SpinFire Professional 8.3 and later Only

Current customers of SpinFire Professional 8.3 and later can download Actify created plug-ins that can enhance and add new functionality to SpinFire Professional 8.3. You can download from www.actify.com > “Customer Login” page.

- Model Compare Plug-in: Visually compare two models and display the material that has been added or removed (Model Compare Release Notes)
- STL Export Plug-in: Easily export CAD files as STL files for use in other applications
- DesignSharePlug-in: The DesignShare Plug-In allows SpinFire Professional to open files stored on a Windows SharePoint Services server. This plug-in is especially useful for organizations that use Actify DesignShare (which runs on a SharePoint server).
- CADDS Plug-in: Some customers have systems that create or manage CADDS files that don't have a file extension. This plug-in allows a user to open these files without having to modify the name of the file
- Cross-Section Plus Plug-in: The Cross Section Plus plug-in allows users to calculate the surface area and length of the perimeter for a collection of cross sections. The plug-in works with the cross section plane.
- Automatic Part ID Plug-in: To increase productivity and reduce introduction of errors the Automatic Part ID plug-in was developed to add part information markup to each part in the assembly. For example if a user wants to add the part name to each part in the assembly today they have to type in the name manually. This is prone to typographical errors and is very time consuming. The Automatic Part ID plug-in automates this process.
- Automatic Part List Plug-in:The Automatic Part List plug-in provides uers an easy and quick method for listing all the subassemblies and parts that make an assembly.
- **Draft Angle Analysis Plug-in: The Draft Angle Analysis Plug-in allows the user to specify one or more parts in an assembly, and ask for visual feedback on what level of draft angle has been applied to these surfaces when compared to a "pull direction".

**Note: The Draft Angle Analysis Plug-in is the only Actify Plug-in that is NOT free. If you would like to know more about this plug-in or if you would like to purchase it, please contact your local Actify Reseller or send an email to info@optivasystems.com.

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Model Compare Plug-In Build 1331 Release Notes

August 7, 2009

Description

The Model Compare Plug-In compares two sets of parts or assemblies and displays the material that has been added or removed.

By default the added material will be shown in blue and the removed material will be shown in red, but users may change the colors of the added and removed material.

Requirements

- SpinFire Professional 8.3 Build 1212 or later
- Reader Build 1247
- .NET 2.0

Improvements/Bug Fixes

The only issues addressed in this release fixes a problem with compatibility with other plug-ins. Plug-ins were developed with different versions of .NET and when SFP is launched, not all plug-ins would activate if other plug-ins were installed. With this build the incompatibility issue has been resolved.

Known Issues

Visual Comparison Only—The Model Compare Plug-In produces a graphical effect that can be used to visually compare two models. Because part transition tolerances can affect precision, this should not be used to provide an exact volume comparison but should be used only for a visual comparison of two models.

Previous versions—Any previous version of this plug-in must be uninstalled before this version can be installed.

Location on SpinFire Pro Interface

• **Edit Menu Toolbar:** The edit menu toolbar has a new **Compare Model** option which brings up the dialog.

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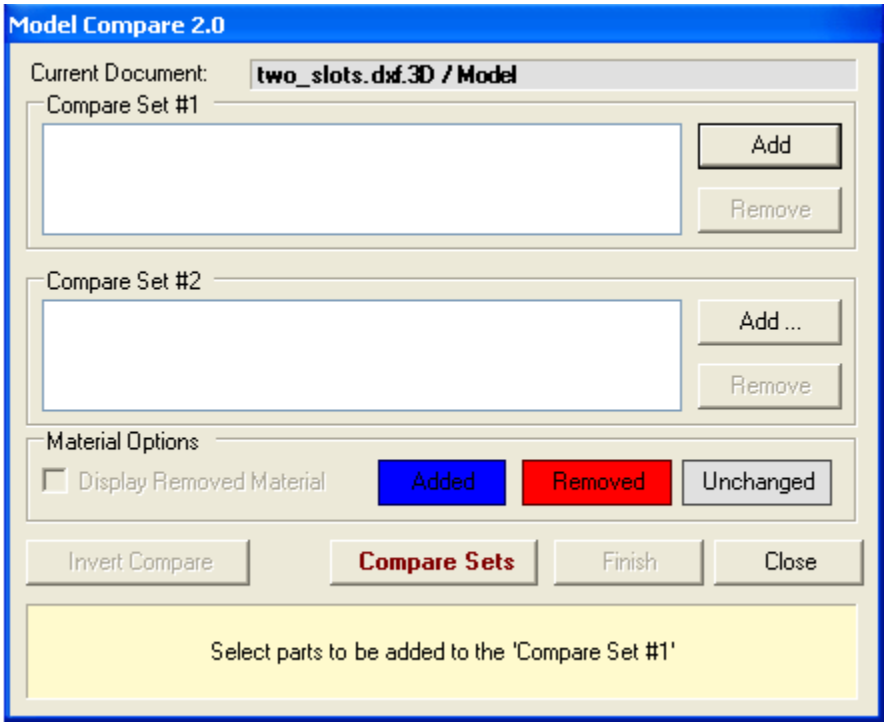

Procedures

To Compare Two Models

1. Invoke the **Model Compare Dialog** from the edit menu on the toolbar.
2. The model compare dialog gives the user options to select the parts/assemblies into each of the two compare sets.
3. After the selection of parts/assemblies for the two sets, the user could compare the two models for the "Added" material by clicking on **Compare Sets**.
4. The user could choose to display either the added material or the removed material by selecting/deselecting the Display Removed material in the Material Options section.
5. There is an additional option to invert compare which inverts the comparison of one set over the other (compare set #1 over #2, or inverting would compare compare set# 2 over #1) by simply clicking on the **Invert Compare** button.
6. After the comparison is completed the user could choose to save the view by clicking on **Finish** which displays the view save menu where the user could enter the desired view name.
7. To cancel the model comparison at any point of comparison the user could click on **Close**.

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To Change the Default Color of the Added, Removed, or Unchanged Material

1. While the Model Compare dialog is open, click the **Added**, **Removed**, or **Unchanged** button and this opens the Color dialog box.
2. Choose a color and click **OK**.

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STL Exporter Build 1331 Release Notes

August 7, 2009

Description

The STL Exporter creates STL files as part of the publishing conversion process.

The STL file that is exported will contain a single part and a single surface, regardless of the number of parts and surfaces in the original design.

Requirements

- SpinFire Professional 8.3 or above
- Reader Build 1247
- .Net 2.0

Improvements/Bug Fixes

The only issued addressed in this release fixes a problem with compatibility with other plug-ins. Plug-ins were developed with different versions of .NET and when SFP is launched, not all plug-ins would activate if other plug-ins were installed. With this build the incompatibility issue has been resolved.

Location on SpinFire Pro Interface

• **Menu bar:** Under the **File** menu, the **Export** submenu contains the **STL…** command.

Procedures

To Save the Active 3D Document as an STL File

1. On the menu bar, click **File**.

2. Point to **Export**.

This opens the **Open File** dialog box.

3. Click **STL…**

This opens the **Save As** dialog box.

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DesignShare (WSS) Plug-In Build 1331 Release Notes

August 7, 2009

Description

The WSS Plug-In allows SpinFire Professional to open files stored on a Windows SharePoint Services server. This plug-in is especially useful for organizations that use Actify DesignShare (which runs on a SharePoint server).

If the file is located on a server running Actify DesignShare, then users can also check out a file and check in changes made to the file back to the ADS server.

Requirements

- SpinFire Professional 8.3 or later.
- Reader Build 1247
- .Net 2.0

Improvements/Bug Fixes

The only issued addressed in this release fixes a problem with compatibility with other plug-ins. Plug-ins were developed with different versions of .NET and when SFP is launched, not all plug-ins would activate if other plug-ins were installed. With this build the incompatibility issue has been resolved.

Location on SpinFire Pro Interface

- **Menu bar:** The **File** menu contains the **SharePoint** submenu.
- **Toolbar:** Contains the **SharePoint** menu.

Procedures

To Open a .3D File located in a DesignShare Document library

1. Select the “DesignShare” tab located on the Components Tab on the left
2. Select the “Manage SharePoint Connections” icon 
3. Select the “Add” button
4. Key in the following information (Substitute as needed)

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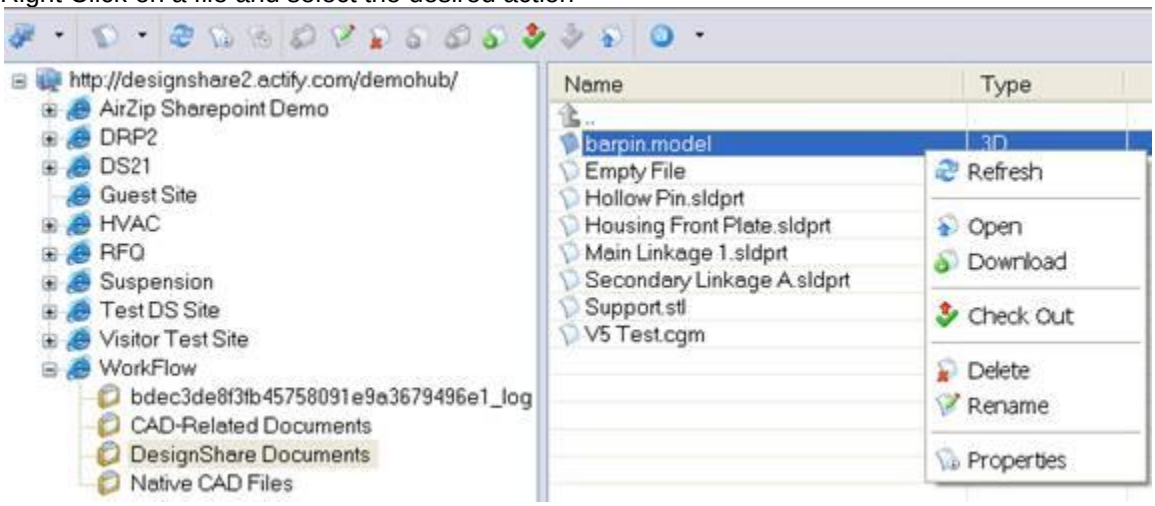
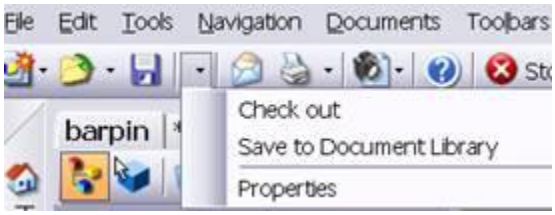
- URL: http://designshare2.actify.com/demohub/
- Domain: designshare2.actify.com
- User Name: your user name
- Password: your password

5. If the connection is correct you will see the site listed on the left pane.
6. Expand the site to see the sub-sites and Document Libraries available
7. Select the Document Library to see the available files
8. Right Click on a file and select the desired action

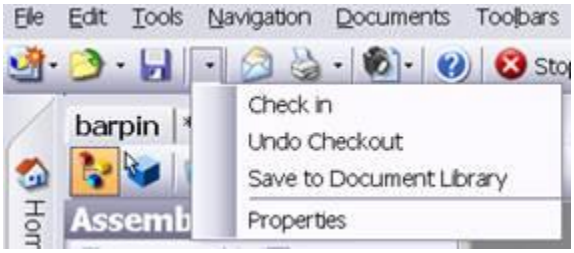


9. When you are done working on the file you have the following options, depending on how the file was opened, by selecting the SharePoint Icon in SpinFire;

File Opened



File Checked Out



If you are checking the file back in you will also have the ability to add any comments;

The file in the DesignShare library has now been updated with this latest version, and the SharePoint versioning has been adhered to.

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CADDS Plug-In Build 1331 Release Notes

August 7, 2009

Description

Some customers have systems that create or manage CADDS files that don't have a file extension. This plug-in allows a user to open these files without having to modify the name of the file.

Requirements

- SpinFire Professional 8.3 or above
- Reader Build 1247
- .Net 2.0

Improvements/Bug Fixes

The only issued addressed in this release fixes a problem with compatibility with other plug-ins. Plug-ins were developed with different versions of .NET and when SFP is launched, not all plug-ins would activate if other plug-ins were installed. With this build the incompatibility issue has been resolved.

Procedures

File + CADDS Open …

This opens a file dialog that allows users to select these files.

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Cross-section Plus Plug-In Build 1331 Release Notes

August 7, 2009

Description

The Cross Section Plus plug-in allows users to calculate the surface area and length of the perimeter for a collection of cross sections. The plug-in works in conjunction with the cross section plane.

Requirements

- SpinFire Professional 8.3 or above
- Reader Build 1247
- .Net 2.0

Known Issues

The cross section analysis is very sensitive to good tessellations. If there are gaps, then the algorithm cannot determine a closed path and the component is excluded from the analysis.

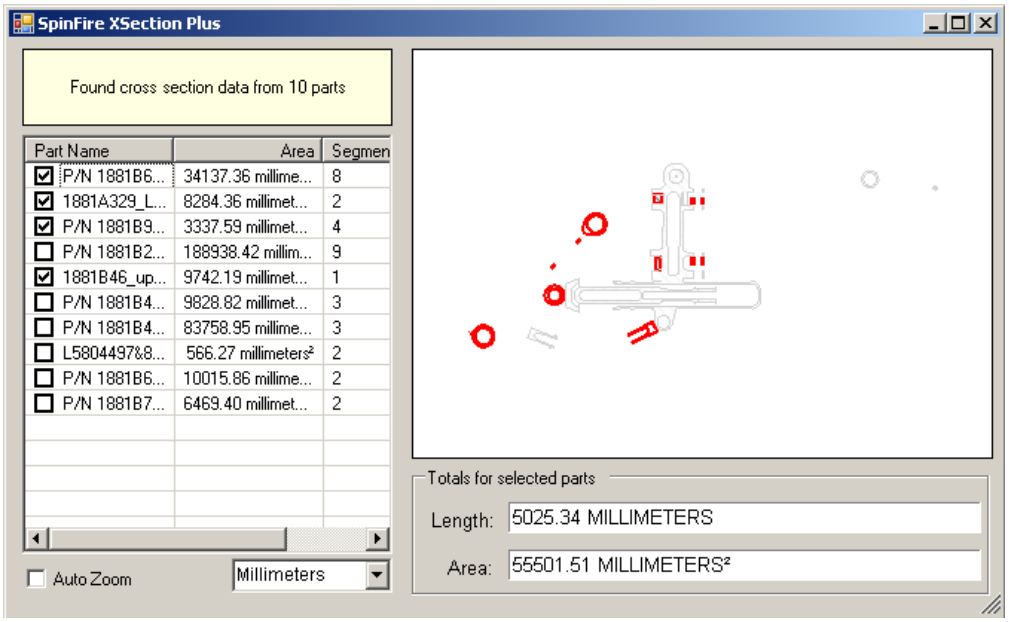
Procedures

To Analyze Cross Sections

8. Invoke the **XPlus!** from the **Applications** toolbar.

   Note: The cross section must be on to enable the plug-in.

9. The Automatic Part ID Markup dialog gives the user options to select the parts/assemblies and create the markup



10. Select which components to include in the analysis.

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Automatic Part ID Plug-in Build 1331 Release Notes

August 7, 2009

Description

To increase productivity and reduce introduction of errors the Automatic Part ID plug-in was developed to add part information markup to each part in the assembly. For example if a user wants to add the part name to each part in the assembly today they have to type in the name manually. This is prone to typographical errors and is very time consuming.

The Automatic Part ID plug-in automates this process.

Requirements

- SpinFire Professional 8.3 or above
- Reader Build 1247
- .Net 2.0

Procedures

To Create Markup

11. Invoke the **Auto Note** from the **Tools** menu on the toolbar.
12. The Automatic Part ID Markup dialog gives the user options to select the parts/assemblies and create the markup

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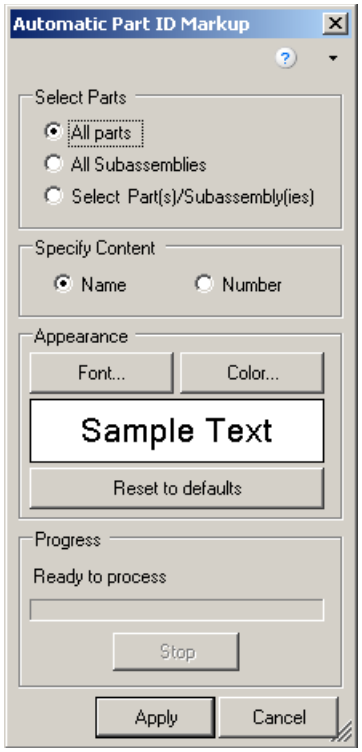
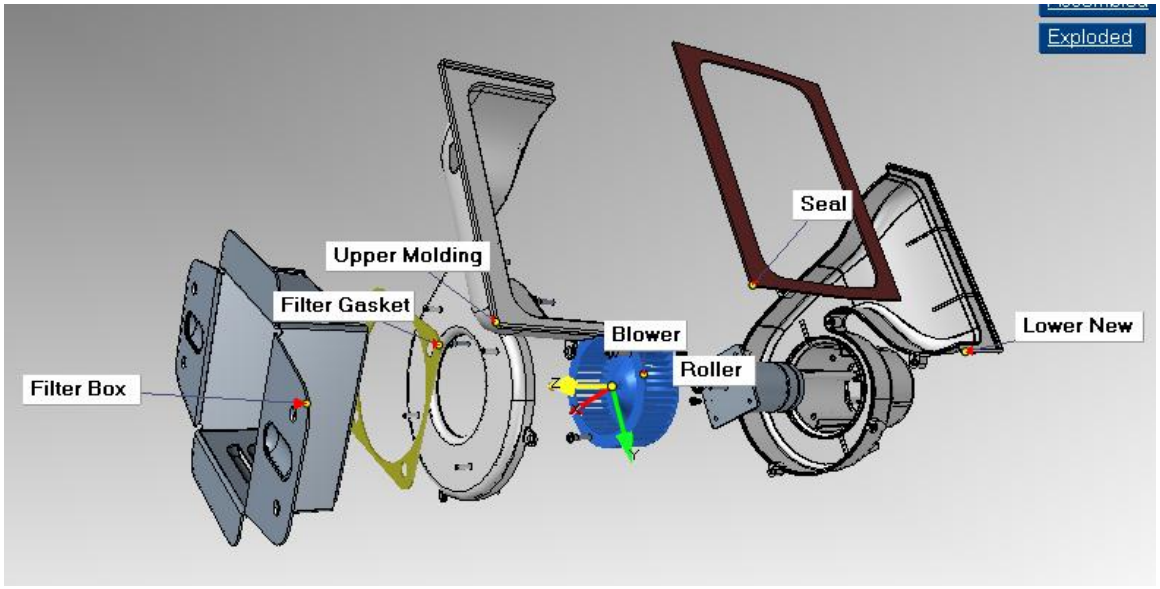


After the creation of the markup the assembly would look something like the following.



For more detailed information, the plug-in comes with complete on-line documentation. To access it select the question mark icon in the upper right corner of the plug-in dialog.

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Automatic Part List Plug-In Build 1331 Release Notes

August 7, 2009

Description

The Automatic Part List plug-in provides users an easy and quick method for listing all the subassemblies and parts that make an assembly.

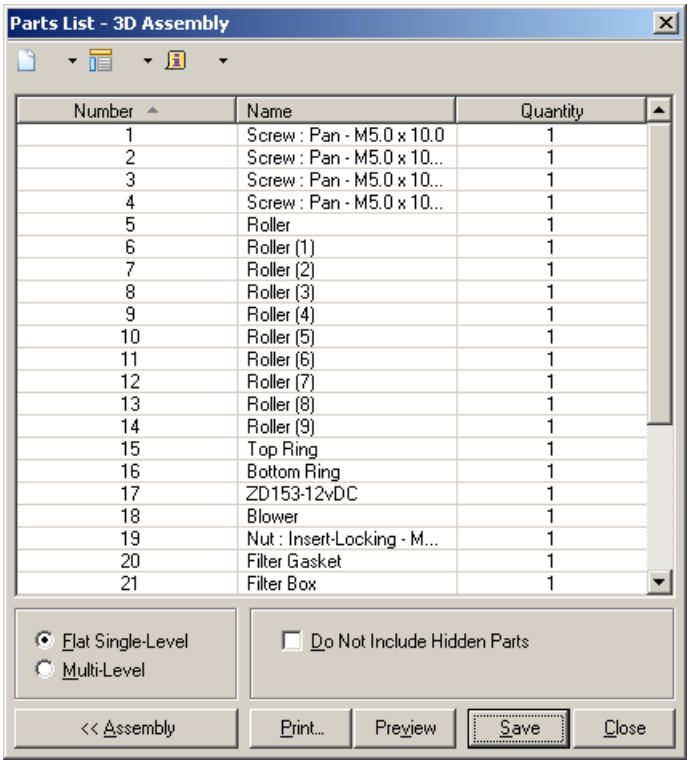
Requirements

- SpinFire Professional 8.3 or above
- Reader Build 1247
- .Net 2.0

Procedures

To Create Parts LIst

13. Invoke **Parts Lists** from the **Files + Export** menu on the toolbar.
14. The Parts List dialog gives the user options to select the layout of the list and write the information to a text file for incorporation into another document.



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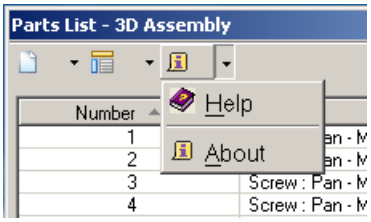
For more detailed information, the plug-in comes with complete on-line documentation. To access it select the information icon from the plug-in dialog.



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Draft Angle Analysis Plug-In Build 1331 Release Notes

August 7, 2009

Description

The Draft Angle Analysis Plug-in allows the user to specify one or more parts in an assembly, and ask for visual feedback on what level of draft angle has been applied to these surfaces when compared to a “pull direction”.

Requirements

- SpinFire 8.3 Build 1212 released in March 2008 or later.
- Reader Build 1247
- .Net 2.0
- Windows XP

Functionality

This release of the Draft Angle Analysis (DAA) plug-in represents a major upgrade from the first release. Here are a few of the many items that have been included.

- Licensing was added.
- The display now uses smooth shading instead of flat.
- The UI has been simplified to allow for either limit or delta tolerancing.
- The analysis can be applied to entire parts or set of surfaces.
- On-line help was developed and can be accessed from the plug-in.

Improvements/Bug Fixes

A problem with compatibility with other plug-ins has been resolved. Plug-ins were developed with different versions of .NET and when SFP is launched, not all plug-ins would activate if other plug-ins were installed. With this build the incompatibility issue has been resolved.

Additionally the following bugs have been resolved.

6812 Dialog stays in picking mode when create coordinate system dialog is displayed

6809 Analyze button should be enabled as long as the entity count is not zero

6801 Switching to a different document before analysis is complete will cause DAA to hang

6770 Entity count reported is incorrect when Shift-Select is used

6769 Incorrect icon used for polylines in the DAA tree

6768 Pick in Viewer stops working

6767 Stop button doesn't work

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6724	The default selection mode should be All Parts
6723	Analyze button should be disabled when nothing is selected
6610	Draft Angle Analysis plug-in should not do auto expand
6609	Draft Angle Analyis plug-in dialog should come out of picking mode when user does a SFP action
6606	Draft Angle Analysis plug-in's Stop button needs to be pressed twice
6605	Draft Angle Analysis plug-in does not activate when first document is 2D
6604	Draft Angle Analysis plug-in should switch to loading the new assembly when switching documents
6603	Parts with no surface should be ignored by the Draft Angle Analysis plug-in
6601	Need to change some text on the Draft Angle Analysis dialog
6591	Uninstalling plug-in courrupts SFP install
6562	Plug-in is not uninstalled completely
5978	Licensing capability for authorized DAA module distribution
5976	The DAA plugin needs to allow for upper and lower angle setting
5975	Keep DAA window on top of SFP by default
5550	Draft Angle Analysis plug-in dialog needs to close when user Adds documents
5544	Draft Angle Analysis plug-in fails to pick after changing Reference Frame before picking
5543	Parts no longer highlight after using Draft Angle Analysis plug-in
5542	Draft Angle Analysis plug-in's version number does not show up on the Plug-in page on SFP
5469	Draft Angle Analysis plug-in picking cursor canceled when going from 2D to 3D view mode
5458	Draft Angle Analysis plug-in breaks Zoom Window drag box
5452	Draft Angle Analysis plug-in will not work when installed into a different root directory

Known Issues

The following known issues exist with the Draft Angle Analysis plug-in.

- Some parts have the surface normal incorrectly oriented (the surface normal points into the part instead of out) so the resulting analysis will be off.