



Agile Product Lifecycle Management

MCAD Connectors for Oracle Agile Engineering Collaboration Release Notes

V3.0.3

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Preface

Note To read the PDF files, you must use the free Adobe Acrobat Reader version 7.0 or later. This program can be downloaded from the [Adobe Web site](#).

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MCAD ADAPTERS VERSION 3.0.3

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Important Notice

This Patch is an incremental update and requires 3.0.1.0 installed on the machine.

ATTENTION: It is very important to update the EC Web Connector Server Module to 3.0.3. The client modules require new Server functionality.

Install at least the 3.0.3 Web Components server patch in advance. The recommended 3.0.3 binary is contained in the components/jar/wsx folder. Please follow the chapter "Updating EC Webconnector" in this document.

This Release contains fixes and changes to

- EC Web Connector client
- SolidWorks Connector
- Pro/ENGINEER Connector
- CATIA V5 Connector
- SolidEdge Connector

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How to update the EC Web Connector to 3.0.3

Updating the PLM Server Components

ATTENTION: It is very important to update the EC Web Connector Server Module to 3.0.3. or higher. The client modules require new Server functionality.

After patching the integration go to the **jar/wsx** subfolder inside the CAD connector installation folder and copy the contained files into the WSX extensions folder (for example \Agile\Agile93\integration\sdk\extensions) on your Agile server. Now the directory should contain the updated jar file **CAXIntegrationServiceExt.jar**.

To make sure that the new server binaries are loaded you should restart the application server.

How to update existing SolidWorks, Solid Edge, Pro/ENGINEER or CATIA V5 Connectors

Remove the registration of 3.0.2 components by running the 3.0.2 installer and choose the remove option. Then follow the Installation Guide to how extract the packages and how to run the 3.0.3 Installer for proper registration of the CAD connector components.

Update the SolidWorks Connector Configuration XPlmSolidWorksConnector.xml

The configuration contains new switches to control the behaviour of assemblies on load. If assemblies contain renamed components on load a rebuild in SolidWorks is recommended. You can enable and disable automatic rebuild on load by the switch below. Please merge this switch into your XPlmSolidWorksConnector.xml. A sample file is included in this patch.

```
<Field>
  <Name>RebuildOnLoad</Name>
  <Value>>false</Value>
</Field>
```

In order to take advantage of the 32bit memory issues fix you have to set the switch below to true. This will startup the java environment on SolidWorks startup and preserves the required memory.

```
<Field>
  <Name>SolidWorksEvent_StartNotify</Name>
  <Value>>true</Value>
</Field>
```

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Solved Bugs

SolidWorks Connector

Append PLM Information to Viewable Filenames (Bug 13030722: append revision to viewable filenames)

Additional PLM field information can be added to the generated viewable files. The naming scheme is configured in XplmSolidWorksConnector.xml. See Admin Guide for details.

```
<Field>
  <Name>AppendPLMFieldsToViewableNames</Name>
  <Value>true</Value>
  <!--default is "false" -->
</Field>
<Field>
  <Name>AppendingRuleViewables</Name>
  <Value>%REVISION%</Value>
</Field>
```

Recursive external references (Bug 13425140: saving design with recursive references caused SolidWorks to crash)

Recursive dependencies are detected and handled properly.

Cache has priority over Agile Number attribute (Bug 13397095: Attributes are not mapped if Agile Number property is empty)

Cached PLM information overrides the Agile Number set in CAD properties.

SolidWorks Configuration Handling (Bug 13369287: solidworks mcad connector, disable creating configuration object; Bug 12951374: about ec connector settings for solidworks configuration handling)

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The performance is improved in handling of configuration specific properties.

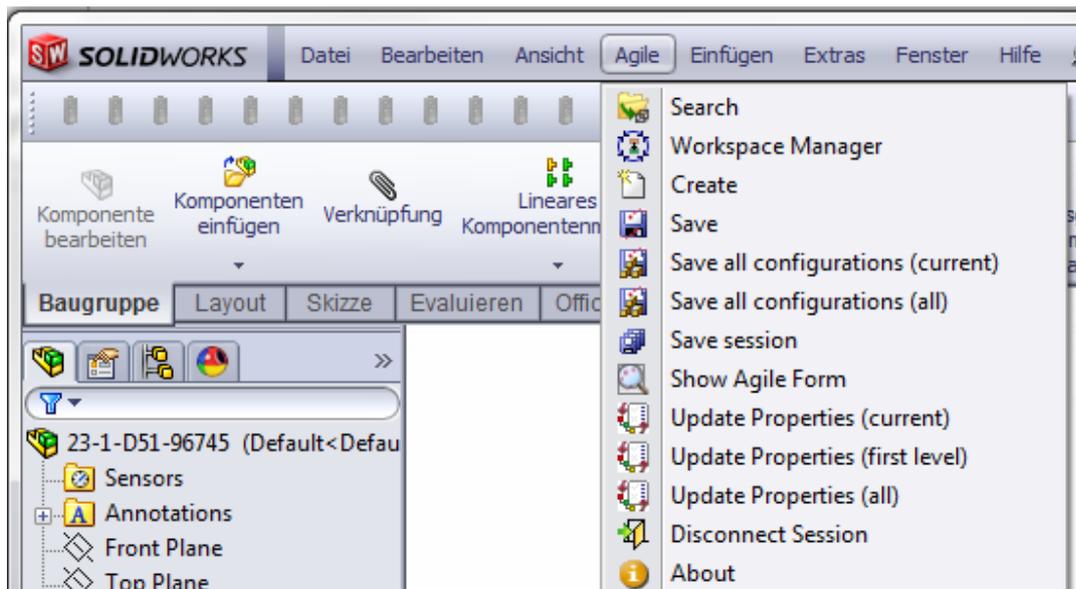
A new switch is introduced to be able to set the default of the connector configuration handling. The switch is located in xPLMSolidworksConnector.xml and can be set to true or false.

```
<Field>
  <Name>ConfiguredDefault</Name>
  <Value>true</Value>
  <!--default is "true" -->
</Field>
```

The default is true. If set to false, no Design objects will be created for instances unless the CAD file contains the CAD property Configured="Yes".

SolidWorks Part Family - Save all Configurations (Bug 13030496: option to save all configurations including ones that are not active in solid)

A new command "Save Configurations" is introduced for Solidworks configured objects to save all configurations of a Part Family in one single save process. For assemblies the user has the option to generate the configurations for the current object only or for all objects within the assembly structure.



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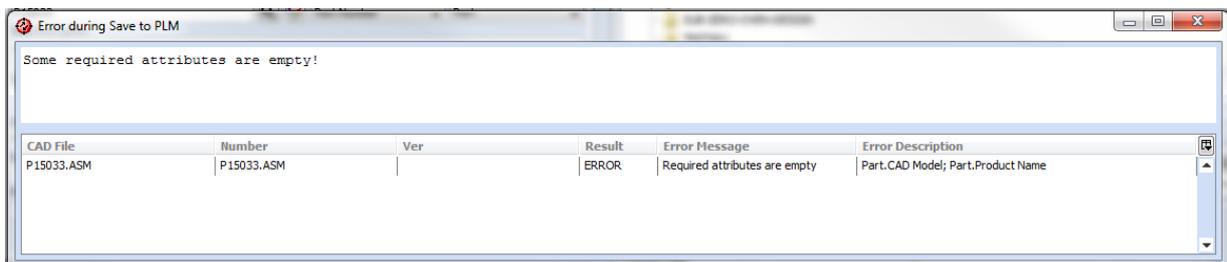
EC Web Components Connector

Support mandatory attributes - Required attribute support (Bug 13030225: cannot configure required attributes for items in ec client)

Required attributes are highlighted in bold text in the property lists. The check for required attributes is set in CAXConfig.xml using the switch **checkRequired** in the BasicConfig section. If set to FALSE, no check will be performed.

```
<Transaction>
  <Aliasname>BasicCAXConfig</Aliasname>
  <Import>
    <Parameter>
      <FieldCollection>
        <Field><Name>SITE</Name><Value>MCAD</Value></Field>
        <Field><Name>FIELD_FOR_NUMBER</Name><Value>DESCRIPTION</Value></Field>
        <Field><Name>TRANSFER</Name><Value>MULTITHREADED</Value></Field>
        <Field><Name>OVERWRITE</Name><Value>FALSE</Value></Field>
        <Field><Name>PRIVILEGES</Name><Value>FALSE</Value></Field>
        <Field><Name>checkRequired</Name><Value>FALSE</Value></Field>
        <!-- NonExistingPartsFromCAD: set to remove if parts should never be cre:
        <Field><Name>NonExistingPartsFromCAD</Name><Value>allowed</Value></Field:
      </FieldCollection>
    </Parameter>
  </Import>
</Transaction>
```

If required attributes aren't set, then the error message explains which objects and fields have missing entries:



Field Mapping Issues for different Subclasses (Bug 12628335: description field seems to be populated by a space and is not null)

The mapping of attributes to CAD values is subclass specific. Issues with failed mappings are fixed in the proxy layer.

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File Status Icon Display (Bug 12959249: agile workspace manager window; newer version files available in plm; Bug 12959212: files in workspace do not update using either update or update with structure)

The status check is changed to display a file as PLM modified if a new version of that file is checked in into PLM. Previous releases marked a file as modified as soon as the Design was checked out. Since the file is available to other users after the checkin only, the logic has been changed to flag files as PLM modified after the checkin rather on checkout.

Number Generator for Drawings (Bug 13345356: only one of multiple drawings for a single model is saved)

The search for existing drawings and the autonumber generator for new drawings is updated to detect existing drawings. Existing drawings aren't overwritten and new drawings get a new unique number. Each drawing gets an own unique number assigned.

The cache is cleaned up to never delete or overwrite files on the local disc during a save process.

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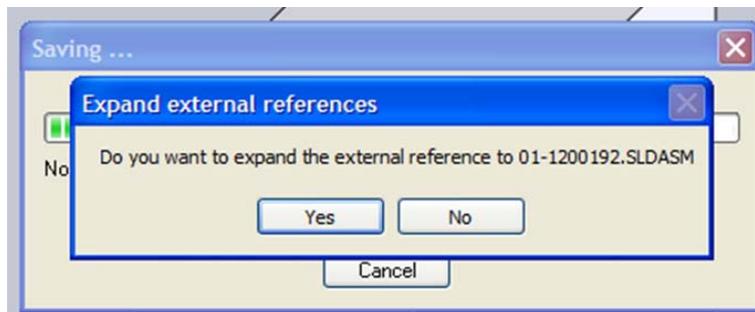
Changes and Enhancements

SolidWorks Connector

SolidWorks Assembly Structure Checks (Pack&Go and external references)

The structure of Solidworks assemblies is checked during save. If any missing component is detected, these missing objects are listed in the save preview in an information message.

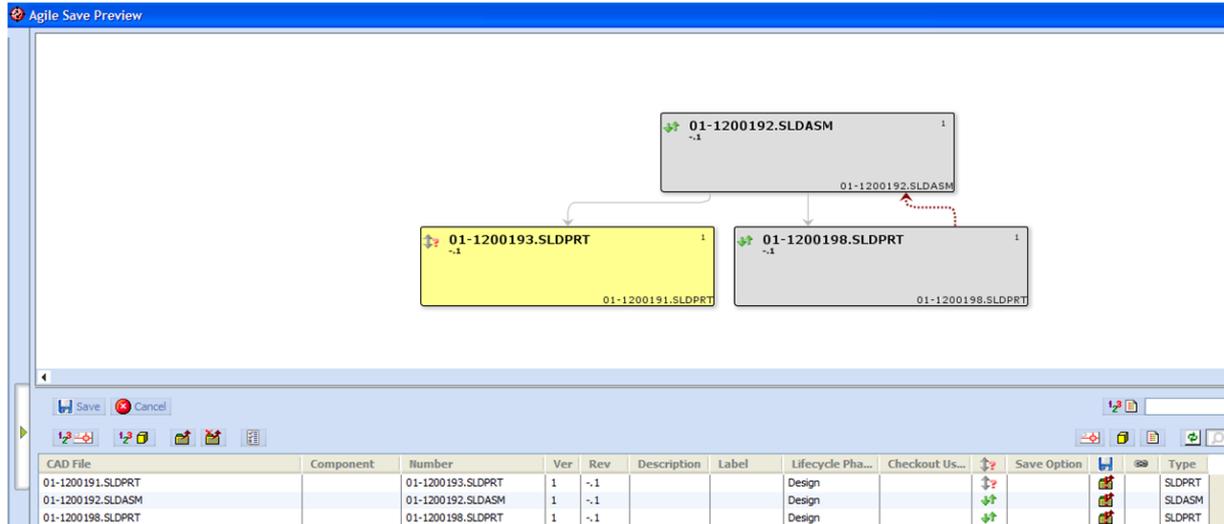
If an Assembly is compressed (using Pack&Go) or if an assembly is referenced from another Solidworks part in an external reference, the structure of the references assembly is verified. If the assembly is already a PLM known object the user is asked whether he wants to expand the structure of the referenced assembly further. If the assembly is not known in PLM the structure is expanded without prompting the user.



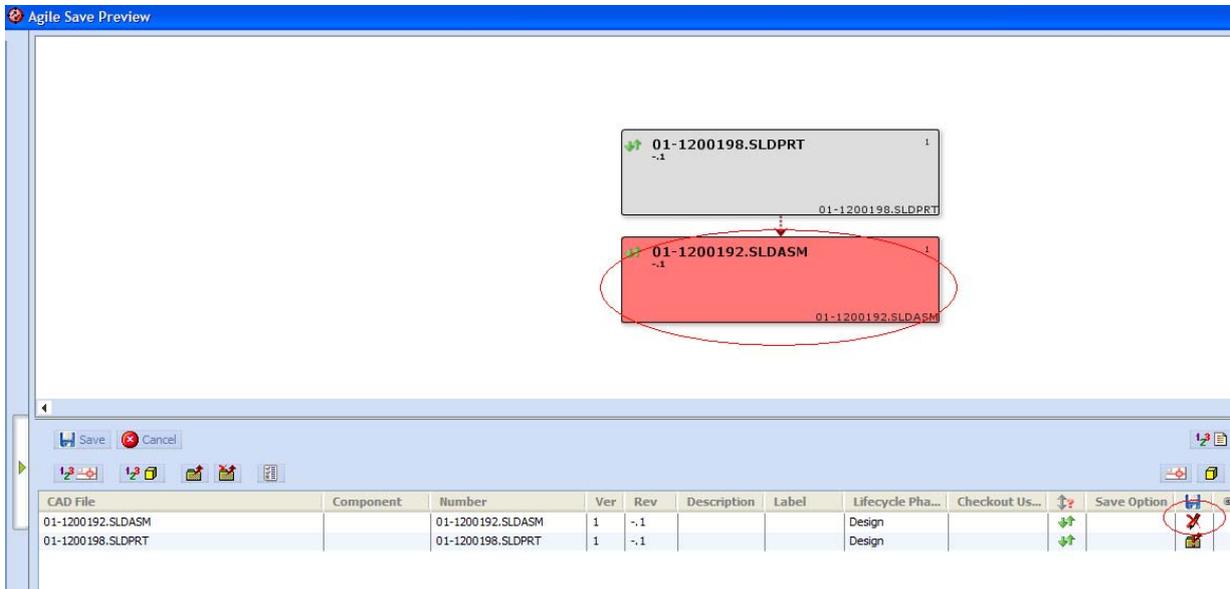
If the assembly structure is expanded further, the user is able to perform any normal save action on that assembly.

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If the structure is not extracted further then the Assembly can't be saved into PLM. It can only be built into the PLM relationships of the referencing object. All actions on that assembly are forbidden.

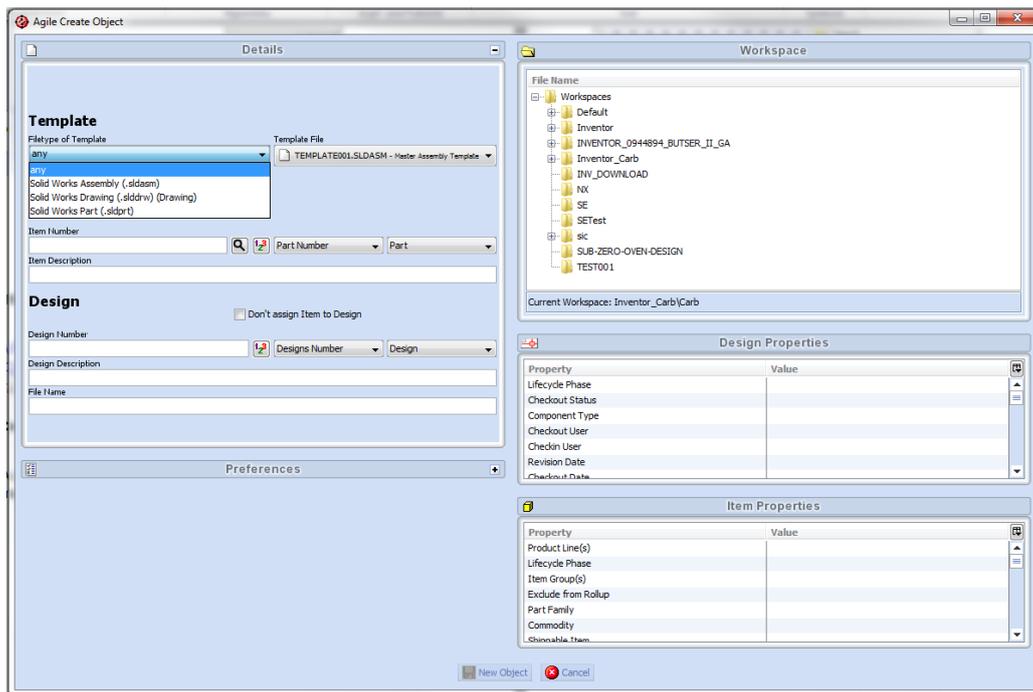


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Create New Command with Templates in PLM

A new command “Create” is introduced for Solidworks to create new PLM managed objects. The templates for new objects are stored and managed in PLM as well. Please see Admin and User Guide for details how to configure the templates and how to use the dialog.



Creating a new Solidworks Configuration corrupts existing design

Creating a new configuration copies the PLM tracking number to the new configuration. The connector now detects this situation and doesn't refer the newly created configuration to the Design of the original base configuration.

Using a File SaveAs corrupt existing Design

The properties are now written to the new object, not to the original one. The cache information is used rather than the A9_Number. Using the SaveAs of the integration is recommended to clear and set the PLM tracking properly. If you use the SolidWorks SaveAs then make sure the Agile9 Number property is cleared.

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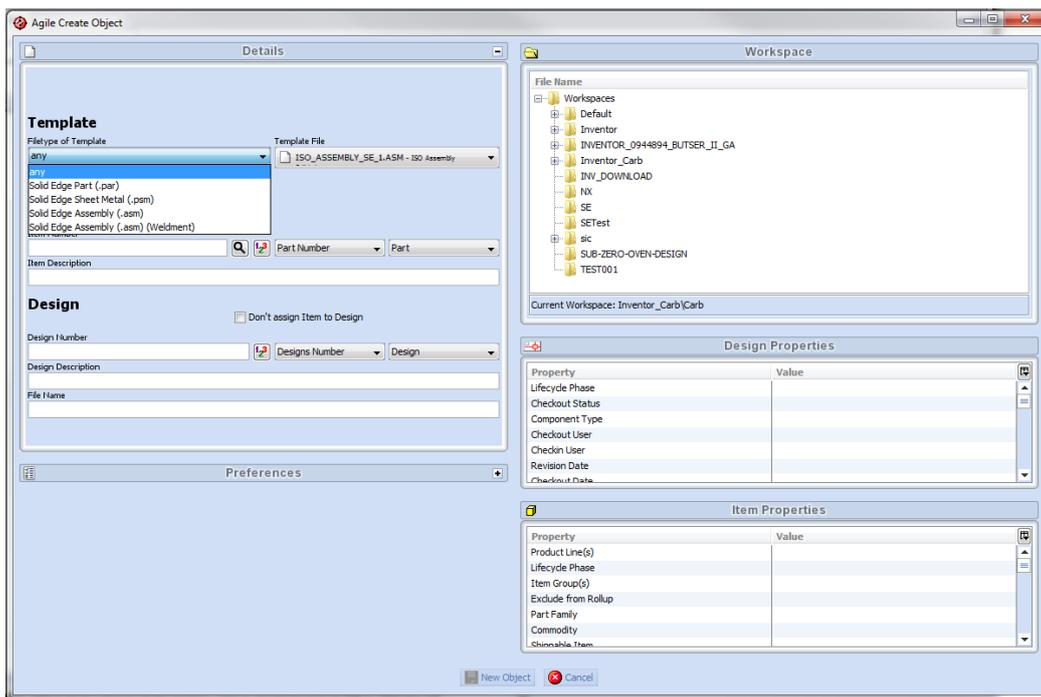
Solid Edge Connector

Occurrence Overrides

Manual BOM Quantities and the BOM relevant flags of the Occurrence properties in Solidedge control the appearance and quantity of the published Part BOM in PLM.

Create New Command with Templates in PLM

A new command "Create" is introduced for Solid Edge to create new PLM managed objects. The templates for new objects are stored and managed in PLM as well. Please see Admin and User Guide for details how to configure the templates and how to use the dialog.



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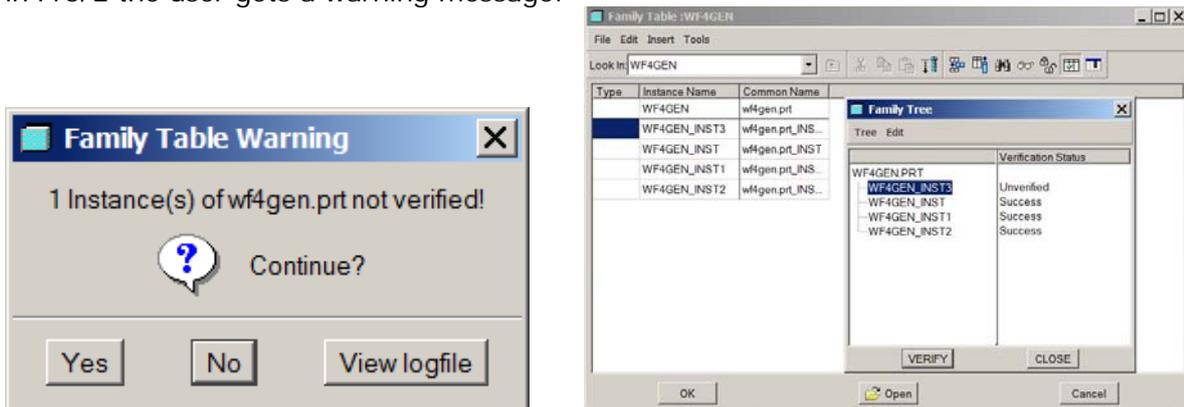
Pro/ENGINEER Connector

Part Family Instance Verify Status on Save

A new optional parameters for AcpCustomer9.ini controls the verification of Instances during the save process.

AcpFamilyCheckVerify = 0/1
Default entry: 0

If the value is set to 0 then no family instance verify is executed before saving. A value of 1 will perform a family instance verify status check before saving. If a instance is not verified in Pro/E the user gets a warning message:



Additional information can be found in the logfile using the "View logfile" button.



Create New Command with Templates in PLM

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A new command "Create" is introduced for Pro/E to create new PLM managed objects. The templates for new objects are stored and managed in PLM as well. Please see Admin and User Guide for details how to configure the templates and how to use the dialog.

Load to CAD launches Load Preview twice with CREO

Issue in Load Callback (InvokeCallback.exe) is fixed.

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CATIA V5 Connector

UserProperties support

Support for User Properties is added to the integration.

64bit support

Issues on multicore machines fixed.

Load issues with missing licenses

Missing licenses caused CATIA to crash on load. The crash is avoided now and the load will quit if licenses missing.

Create New Command with Templates in PLM

A new command "Create" is introduced for CATIA V5 to create new PLM managed objects. The templates for new objects are stored and managed in PLM as well. Please see Admin and User Guide for details how to configure the templates and how to use the dialog.

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EC Web Components Connector

Change Assignment in Save preview

The change is now created immediately and the Item of the selected object is added to the affected items tab of the change immediately. The user can now navigate directly to the change form right after the assignment and set additional change attributes in the PLM webclient form.

Mapping of Subclass and Autonumber Source

The mapping editor is extended to be able to map the Autonumber and/or subclass from CAD properties during the initial save.

Workspace – Copy, Cut, Paste files between workspaces

New functions are added to copy files between workspaces and keep the PLM tracking information.

Workspace – Performance and refresh PLM data

The PLM data is refreshed on demand, not on each access to the workspace manager to improve the performance.

Custom Views in Tables

The columns that appear in the Save, Load and Workspace dialogs are configurable in CAXConfig.xml in the TableDisplay and WorkspaceTableDisplay section. You may add additional columns from PLM Design objects and/or PLM Item. Use the field ID or APIName of the field you want to add. If you add an Item field, make sure you set the prefix **Item**. to the id as shown in the sample.

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Attention: Make sure you delete the GUIConfig.xml from your \$HOME/AgileCache directory if you add or remove columns.

The GUIConfig.xml in your \$HOME/AgileCache directory caches your personal settings for column visibility, width and sequence.

```
<Structure>
  <Name>TableDisplay</Name>
  <FieldCollection>
    <Field><Name>CAX_FIL_NAME</Name><Value>0</Value></Field>
    <Field><Name>CAX_FULL_NAME</Name><Value>0</Value></Field>
    <Field><Name>COMPONENTTYPE</Name><Value>0</Value></Field>
    <Field><Name>NUMBER</Name><Value>0</Value></Field>
    <Field><Name>REV</Name><Value>0</Value></Field>
    <Field><Name>REVISION</Name><Value>0</Value></Field>
    <Field><Name>DESCRIPTION</Name><Value>0</Value></Field>
    <Field><Name>LABEL</Name><Value>0</Value></Field>
    <Field><Name>LIFECYCLEPHASE</Name><Value>0</Value></Field>
    <Field><Name>CHECKOUTUSER</Name><Value>0</Value></Field>
    <Field><Name>WORKFLOW_STATUS</Name><Value>0</Value></Field>
    <Field><Name>FILE_STATUS</Name><Value>0</Value></Field>
    <Field><Name>GET</Name><Value>0</Value></Field>
    <Field><Name>CAX_MODIFIED</Name><Value>0</Value></Field>
    <Field><Name>PLM_MODIFIED</Name><Value>0</Value></Field>
    <Field><Name>SAVE_OPTION</Name><Value>0</Value></Field>
    <Field><Name>SAVED</Name><Value>0</Value></Field>
    <Field><Name>HAS_PRIVILEGE</Name><Value>0</Value></Field>
    <Field><Name>FILTER</Name><Value>0</Value></Field>
    <Field><Name>ASSIGNED</Name><Value>0</Value></Field>
    <Field><Name>Item.NUMBER</Name><Value>0</Value></Field>
    <Field><Name>Item.REV</Name><Value>0</Value></Field>
    <Field><Name>Item.ECO</Name><Value>0</Value></Field>
    <Field><Name>Item.LIFECYCLEPHASE</Name><Value>0</Value></Field>
    <Field><Name>Item.DESCRPTION</Name><Value>0</Value></Field>
    <Field><Name>CAX_MODEL_TYPE</Name><Value>0</Value></Field>
    <Field><Name>CAX_MODEL_REF</Name><Value>0</Value></Field>
    <Field><Name>CAX_LINK_TYPE</Name><Value>0</Value></Field>
    <Field><Name>CAX_LINK_REF</Name><Value>0</Value></Field>
    <Field><Name>CAX_TYPE</Name><Value>0</Value></Field>
    <Field><Name>CHECKINDATE</Name><Value>0</Value></Field>
    <Field><Name>1305</Name><Value>0</Value></Field>
    <Field><Name>Item.1313</Name><Value>0</Value></Field>
  </FieldCollection>
</Structure>
```