



# **Agile Product Lifecycle Management**

## **MCAD Connectors for Oracle Agile Engineering Collaboration Release Notes**

V3.0.2

Oracle Part Number - E26193-01

October 2011



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### **Contact Address (for Support Services see Preface chapter):**

xPLM Solution GmbH  
Devrientstr. 5  
D - 01067 Dresden, Germany

[www.xplm.com](http://www.xplm.com)

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# Preface

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**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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## Access to Oracle Support Services

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# MCAD ADAPTERS VERSION 3.0.2

## RELEASE NOTES

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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 3.0.2. The client modules require new Server functionality.**

**Install at least the 3.0.2 Web Components server patch in advance. The recommended 3.0.2 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

# MCAD ADAPTERS VERSION 3.0.2.0

## RELEASE NOTES

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### How to update the EC Web Connector to 3.0.2

#### Updating the PLM Server Components

**ATTENTION: It is very important to update the EC Web Connector Server Module to 3.0.2. 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, Pro/ENGINEER or CATIA V5 Connectors

Follow the Installation Guide to how extract the packages and how to run the 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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### **Changes and Enhancements**

#### SolidWorks Connector

##### **SolidWorks Connector Performance**

Some performance gaps with big assemblies and configuration handling are solved

##### **Renaming – detect required assembly rebuild**

If you don't rebuild the assemblies after renaming on load, the next save to PLM can NOT extract correct quantity and configuration information for the child components. The connector brings up a warning message if such a non rebuilt assembly is transferred to the save preview as shown in the figure below.

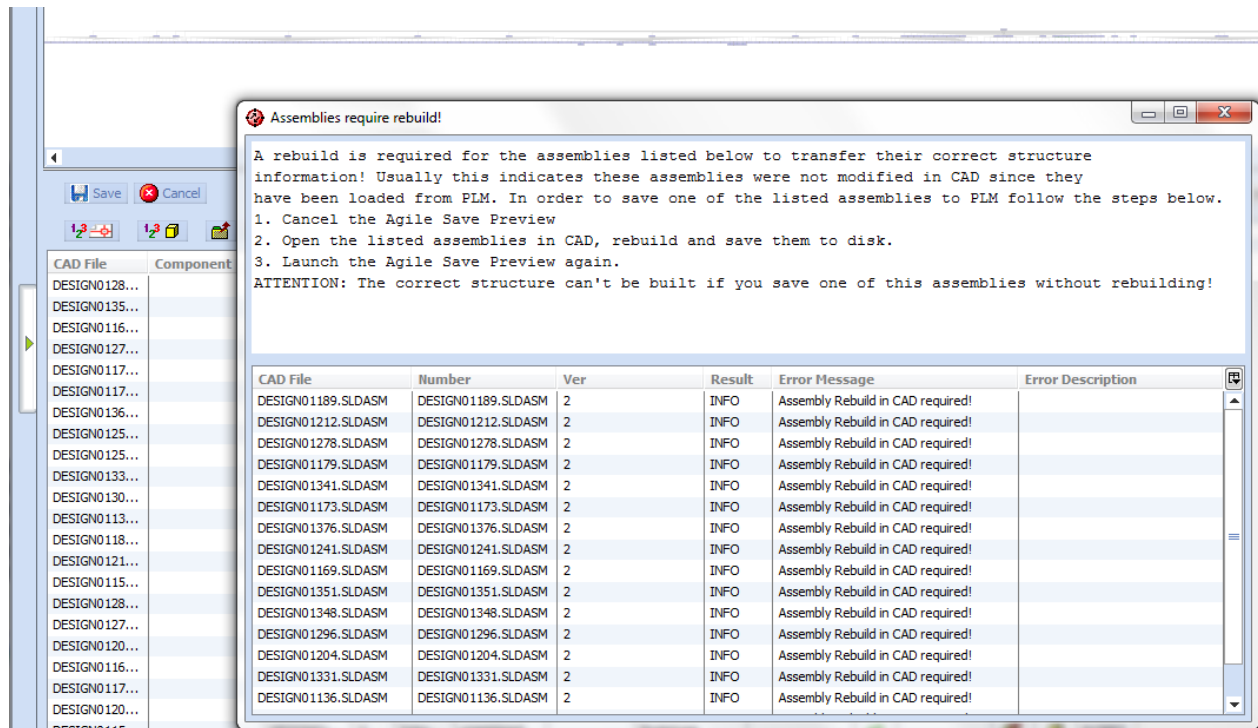
Technically this warning explains that the assembly was not loaded nor modified in CAD since it was downloaded from PLM. So there is no need to store the assemblies back to PLM and the connector treats them as not modified.

If you intend to save or save as one of the listed assemblies in PLM you have to exit the save preview and you have to rebuild the assemblies in CAD. Otherwise the quantity and configuration information in PLM will not be correct after saving. Simply open, rebuild and save the listed assemblies using the CAD functionality.

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### Memory Issues on 32bit machines and startup initialization

The memory issues are caused by the java environment. To startup the java environment immediately on SolidWorks startup you set the switch below in your XPlmSolidWorksConnector.xml configuration. This preserves the required memory for the integration.

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

Also this startup event triggers the internal initialization of the SolidWorks connector to prevent initialization problems later.

### Configuration Handling - MasterConfig

Issues with detection of master configuration fixed. The master configuration is extracted from the configuration specific properties of the current configuration rather than from the last active configuration.

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### **BOM table on drawing updates after Load**

Issue with removal of manually changed BOM table on drawing fixed.

Manually made changes at a BOM table on a drawing got lost after loading the drawing from PLM with RenameOnLoad enabled.

The issue is caused by SolidWorks document specific setting “Automatic update of BOM. To disable this setting there is a new switch in your XPlmSolidWorksConnector.xml configuration.

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

Setting this switch true disables the automatic BOM update for the drawing before saving it to PLM.

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### Pro/ENGINEER Connector

#### **External References Display on Save**

External References were not displayed correct in the Save preview which caused the results in PLM to be different from the Save Preview. The Display Issue is fixed.

#### **Drawing Views with suppressed objects**

If suppressed objects are referenced by drawing views of assemblies sometimes the structure wasn't extracted correctly. The issue is fixed.

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### EC Web Components Connector

#### External References and Link Type Column

Depending on the external references given from CAD the Link Type columns are populated in the Save Preview. So the listed filenames in the Link Reference column match the tree view.

In the Load Preview the external references are displayed with red dotted lines as in the save preview.

#### Suppression of External References

External References may lead to a confusing tree view. By default external references aren't displayed for more than 50 objects, which can lead to disconnected nodes in the tree view. The number of objects when the external references are suppressed is now configurable in CAXConfig.xml. If the value is set to 0 (Zero), external references are never suppressed.

```
<Structure>
  <Name>BrowserDisplay</Name>
  <FieldCollection>
    <Field><Name>HideExternalReferences</Name><Value>50</Value></Field>
  </FieldCollection>
</Structure>
```

#### Filename and Status on Disk (Renaming and Part Families)

If Renaming on Load is enabled the correct client filename is now displayed in the Load Preview and the correct file status is shown. Part Family instances or configurations display the same status as the Generic files they depend on.

#### Open in CAD for Part Families

By default Part Family Instances (Members) and Generics (Templates) are selected transparent in actions of the Load and Save Preview. However on Load opening all instances in CAD causes issues. Now only one family table object is opened in CAD, all dependent family objects are selected for download but not for opening in CAD.

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### **Multi Edit – No Configuration for Subclass \*\*\* Error**

Issue with initializing the form on multi edit mode in the save preview is fixed.

### **Columns such as CAD Type or CAD Filename not filled on Load**

Issue in applying the data model mappings from Attributes.xml (from MCAD-CONFIG folder) fixed. The issue caused incomplete tree- and table views and sometimes failed downloads if different subclasses had the same field id used for different purposes. The issue is fixed in the Web Components Proxy (a93ws\_proxy.jar).

### **As Saved Structure Resolution on Load**

The As Saved structure resolution failed on load if external references or drawings were retrieved.

Now the Web Components server module double checks the referenced version of Design objects on the relationships tab for external references and on the where used tab for the drawing retrieval.

**Attention: If there is a reuse of the same component or drawing in different levels of an assembly, the as saved resolution can still pick an unexpected version depending on which version is found in the structure first.**

### **Tree View Node displays Checkout User**

The node templates are changes to display the current checkout user in the nodes.

Nodes of checked out objects of other users are filled with light yellow color.

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### Solved Bugs

#### SolidWorks Connector

#### **Renaming on Load (12665545: solidworks uses old file name when file rename on load is enabled)**

Renaming on load is fixed. Partial renaming on load is supported now.

Renaming on load requires a rebuild of assemblies in SolidWorks that contain renamed components. The rebuild is time consuming if a lot of components are renamed or if you handle big assemblies. If you intend to rebuild your assembly on demand manually you can set the switch in XPlmSolidWorksConnector.xml like this to speed up the load process.

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

If you want to rebuild assemblies automatically the switch in XPlmSolidWorksConnector.xml is set to true like below (true is the default if the switch is missing):

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

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## RELEASE NOTES

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### Load specific configuration (12539091: loading configuration instances fails)

Loading a specified configuration from PLM is supported now.

### Mapping of configuration specific properties (12539115: mapping of configuration attributes fails if only one configuration is contained)

If only one configuration is contained in the SolidWorks file, the configuration specific properties were not read properly. This is fixed.

### Additional mapping options for configurations (12539126: need instance name option for "configurationname")

The configuration options are extended to support proper mapping on initial save. Available options are as follow, the bold entries are new in 3.0.1.1:

ModelActiveConfigurationName	active configuration name
ModelFullName	model name including path
ModelName	model name with file extension
ObjectName.Type	INSTANCE: empty, OTHER: model name with file extension
ObjectName	model name without file extension
ModelPath	directory containing the CAD file
ModelExtension	file extension
ModelStamp	timestamp (Time of last modification of file)
CreatingSystem	SolidWorks Version: SW<YEAR> (SW2011 for SolidWorks 2011, ...)
Configuration	active configuration name
<b>ModelNameOrConfiguration</b>	<b>INSTANCE: &lt;active configuration name&gt;&lt;DOT&gt;&lt;file extension&gt;, OTHER: model name with extension</b>
<b>ObjectNameOrConfiguration</b>	<b>INSTANCE: active configuration name, OTHER: model name without file extension</b>
ModelNameAndConfiguration	INSTANCE: <model name><UNDERSCORE><active configuration name><DOT><file extension>, OTHER: model name
ObjectNameAndConfiguration	INSTANCE: <model name><UNDERSCORE><active configuration name>, OTHER: model name without file extension
Attribute	value of the CAD property specified at the parameter field
String	string from parameter field

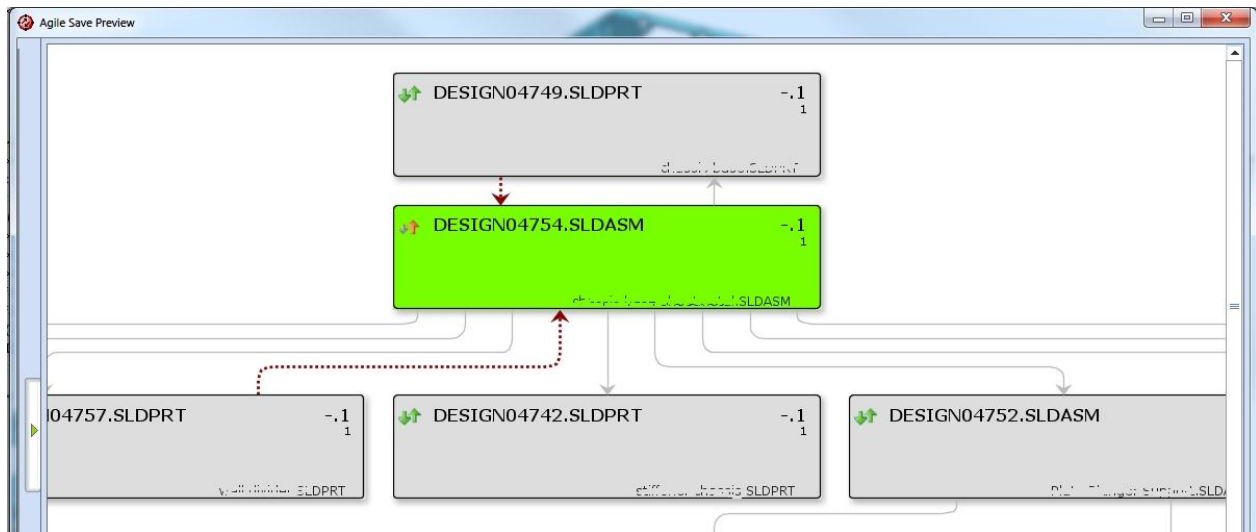
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### External References “detection of recursive loop” error on save (12752044: save design with external reference stops with recursion errors)

Issue saving assembly containing external references fixed.  
Also external references can be seen in save preview like in this screenshot.



### Show Agile Form doesn't display legacy files (12330756: show agile form doesn't display design for legacy files)

The workspace manager is extended to manage the legacy SolidWorks files that contain no PLM identification.

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### Pro/ENGINEER Connector

#### **Load to CAD fails with first CREO release (12534464: pro/engineer load fails after running installer on x64 windows)**

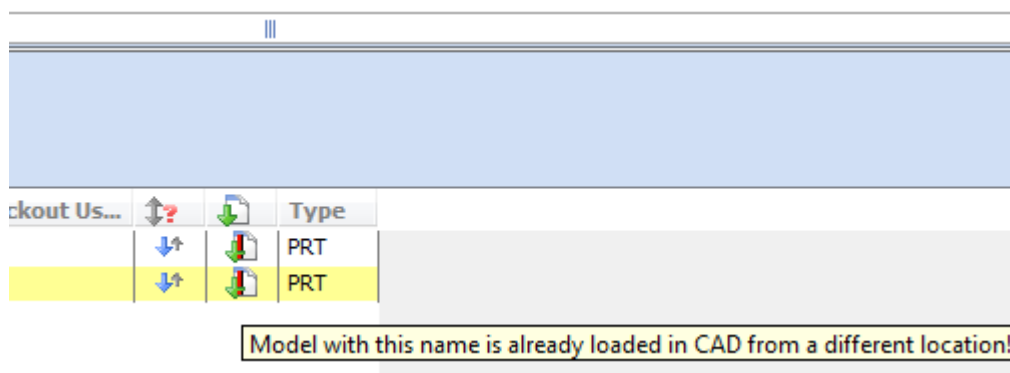
The Load Callback (InvokeCallback.exe) is modified to support new executable names. The Installer and callback are updated.

#### **Load to CAD fails after running Installer on x64 Windows (12534464: pro/engineer load fails after running installer on x64 windows)**

The fix is provided in the Pro/E connector binaries and the installer doesn't register a 64bit xPLMComService.exe anymore.

#### **Load with session check (12386508: files in session will not update properly, 11938674: on a load files get deleted from workspace)**

The integration has a new option to transfer the current session on load to the load dialog. Within the load dialog the conflicts of already loaded objects are displayed with different icons. Additional checks prevent the user from downloading files, which are already opened inside the CAD system. The conflict is highlighted with two different icons and tooltips:

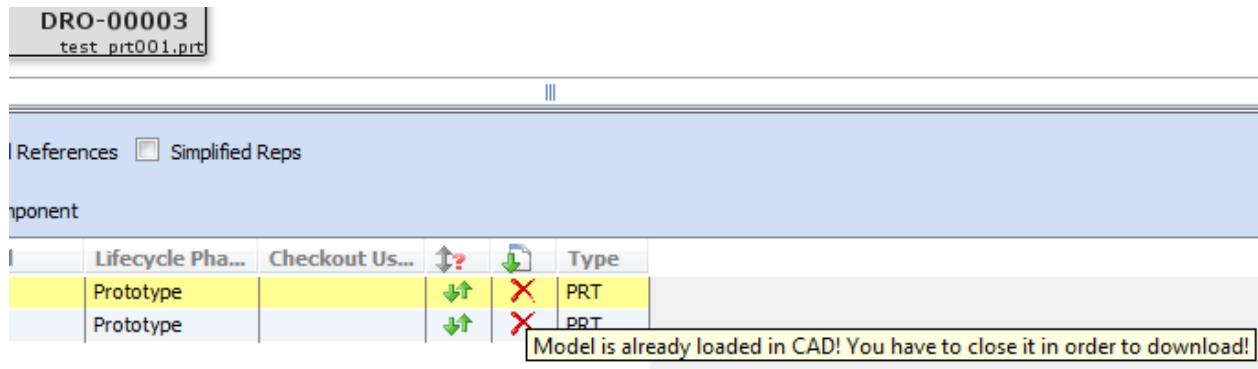


An exclamation mark in the download column indicates that a file with the same name is already loaded from a different workspace into the CAD session. In this case the user is still able to download the file into the selected workspace, but the new file cannot be opened in the CAD session. The download action of "Download and Open in CAD" is not available.

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A red cross in the download column indicates that this file is already loaded in CAD from the current workspace. The user cannot download or open this file as long as the file is not closed and erased from the CAD session.

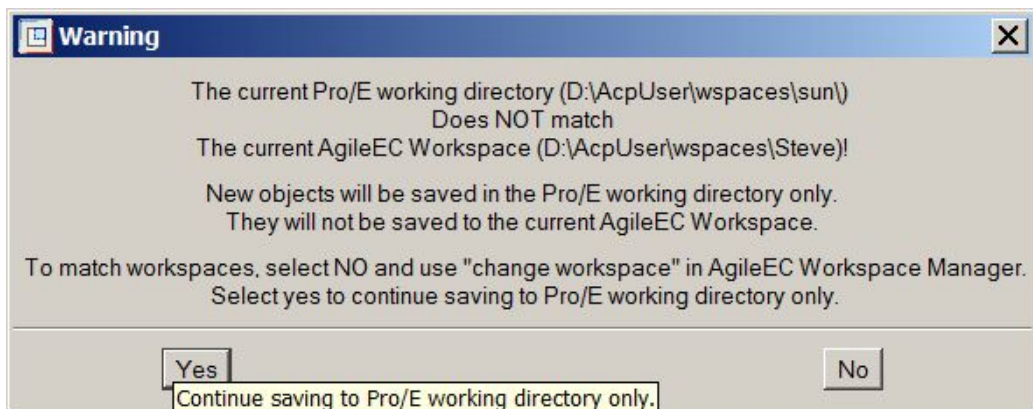
The functionality is controlled by a switch inside the CAD interface. It could be set inside the **AcpCustomer.ini** by the entry:

```
AcpLoadCheckSession = 1
```

The Default setting is 1, meaning Pro/ENGINEER transfers the current session to the load dialog for the additional check. 0 means the checks are disabled.

### Workspace change warning (12340069: workspace warning message text update)

The warning message had been changed to provide better feedback to the user.



Tooltips on the buttons explain the following actions.

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### **Filename length crashes CAD session (12317499: design object name length causes pro/e to crash)**

As the filename length in Pro/E is limited to 31 characters, the connector now shortens longer filenames (shortens also longer Design numbers if filename is derived from it) when doing a SaveAs to prevent Pro/E from crashing.

### **Generic shows modified after Save/SaveAs of family (11938689: family table generic show as modified after save as)**

The fix is related to saving accelerator files for instances.

## CATIA V5 Connector

### **Workspace Error after Patching 3.0.1 (12330806: tcl error when selecting workspace manager in catia v5 r19)**

The tcllib directory content of xacx 3.0.2 solves the issue of workspace manager.

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### MCAD Web Components

#### Renaming On Load for External References (12665545: solidworks uses old file name when file rename on load is enabled)

On the Designs Relationships tab the following fields must be enabled for proper renaming on load.

MultiText1 – ID 5861 – Name CAD Model

MultiText2 – ID 5862 – Name CAD Parent Model

Name	Description	API Name	Type	Visible	List	D...	Ena...	Max...	I...	Min Value	Max. Value	Order	...	...	Attribute	Base ID	Rt
Criteria Met		criteriaMet	List	Yes	Yes/N...	N/A	No	N/A	...	N/A	N/A	2	...	...	RELATIONSHIP.CRITERIAMET	2000007769	N/
Type (Image)		typeImage	Image	Yes	N/A	N/A	No	N/A	...	N/A	N/A	3	...	...	N/A	2000007766	N/
Name		name	Text	Yes	N/A		No	255	...	N/A	N/A	4	...	...	N/A	2000007767	N/
Description		description	MultiText	Yes	N/A		No	N/A	...	N/A	N/A	5	...	...	N/A	2000007768	N/
Current Status		currentStatus	Text	Yes	N/A	N/A	No	N/A	...	N/A	N/A	7	...	...	N/A	2000007770	N/
Rule		rule	Rule	Yes	N/A	N/A	No	N/A	...	N/A	N/A	11	...	...	N/A	2000007765	N/
Type		type	List	Yes	Agile...	N/A	No	N/A	...	N/A	N/A	12	...	...	N/A	2000007904	N/
Relationship Type		relationship...	List	Yes	Relati...	N/A	No	N/A	...	N/A	N/A	12	...	...	N/A	2000007912	N/
Number		number	Text	Yes	N/A		No	255	...	N/A	N/A		...	...	N/A	2000007927	N/
Link Type	Link Type	text01	Text	Yes	N/A		No	50	50 AL...	N/A	N/A		...	...	RELATIONSHIP.TEXT01	5846	N/
Text02		text02	Text	Yes	N/A		No	50	50 AL...	N/A	N/A		...	...	RELATIONSHIP.TEXT02	5847	N/
CAD Model		multiText01	MultiText	Yes	N/A		No	512	...	AL...	N/A		...	...	MULTITEXT01	5861	N/
CAD Parent Model		multiText02	MultiText	Yes	N/A		No	512	...	AL...	N/A		...	...	MULTITEXT02	5862	N/
Version		version	Numeric	Yes	N/A	N/A	No	N/A	...	N/A	N/A		...	...	VERSION.VERSION_NUM	2000008523	N/
Instruct		instruct	MultiText	Yes	N/A		No	1023	...	AL...	N/A		...	...	INSTRUC	6844	N/

#### File Download dependency on PLM user language (12397748: mcad 3.0 does not work with any other plm language than english)

Issues reading the files table with other user languages than English are fixed in the EC Web Connector server module.

#### "Zip and Upload" workspace has wrong file timestamps (12897738: files are flagged as modified locally after zip and upload)

The ZIP file contained wrong timestamps for the files which caused all files to be displayed as modified after the container was extracted. The issue is fixed and the correct timestamp is written into the compressed container.

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### **Attribute Mapping Issues (12330791: mapping of cad data to agile attribute fails if agile attribute is not empty, 12317548: agile ec description issue)**

This fixes problems on update of PLM field contents from CAD mapped attributes, where on check-out the mapped values reverted to the PLM value.

### **Load fails on migrated data (12330782: load fails on migrated data from pdm system)**

If the CAD filename attribute on the design object has not a valid value, the EC Web connector scans the files tab and selects the first CAD model to load.

As this might not be the intended model to load, it is recommended to fill in the CAD filename field correctly on legacy data loads.

### **Error message on save or load exceeds screen (11939673: no scrollbar on pop-up window)**

The error message is now displayed in a scrollable list like within the Save Summary Window. From this list it is easy to navigate to the PLM object by double-clicking the desired row.

### **Can't Reverse Helper Part Decision (11846882: can't reverse the decision of clicking "don't assign item to design")**

To reverse a helper part decision, the user must open the details view by double clicking the object in the list or tree view. There the checkbox can remove the helper part identification in the CAD Subtype field. After doing this, the changes must be saved using the save button in the details form.

However, at this point the relation to the part is NOT removed. To remove the part assignment, select the object and use the context menu item inside the save preview.

### **Login is very slow (11060994: login to agile from engineering collaboration (ec) is slow)**

The login procedure is optimized to extract only required values from the PLM server. An obsolete call had been removed to provide a huge decrease in login time.



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Due to different techniques for integration in CAD tools, the Addin in CAD (CAD menus and Icons) must be configured CAD-specific.

CAD Tool	How to configure Addin Language
SolidWorks	The CAD Addin language is configured in components/xml/xPLMConnector.xml in this setting: <Language>EN</Language>. Valid values are EN, FR, DE.
SolidEdge	The CAD Addin language is configured in components/xml/xPLMConnector.xml in this setting: <Language>EN</Language>. Valid values are EN, FR, DE.
Pro/ENGINEER and Creo	The CAD Addin language is configured in xACP.cfg with the AcpLang=English setting. Valid values are English, French, German.
CATIA V5	The CATIA CAD system language controls the language of EC menus and toolbars

### **Delimiter for counter in number of Family Instances and Drawings (12945289: specify separator used for familyinstancenumbering = generic\_index)**

The delimiter character is configurable in CAXConfig.xml using the switch CounterDelimiter inside the PartFamilies structure section. Default is “\_”.

```
<Field><Name>CountDelimiter</Name><Value>_</Value></Field>
```

### **Design Revision without minor version (12957799: need revision parameter/property without minor revision code)**

The **increment** keyword for the DesignRevisionLogic configurable in CAXConfig.xml controls the suffix of an minor version to the revision. If this is not desired behavior, removal of the increment keyword will result the Design Revision field to be filled with the Part revision. No minor version is appended.

### **Object metadata update on save using PX (12957720: description mapping is not updated with ec connector when set by an event px)**

If an PX changes the values of the Titleblock when the Page3 is updated, the new changed values don't reflect into EC or CAD properties on save. The update sequence for Design and Part metadata has been changed to retrieve the current values after all three pages are set.

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## RELEASE NOTES

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October 17, 2011

### Setting the Item Attachment Type on Publish (13023978: setting the item attachment type on publish)

The new switch **PublishAttachmentType** in the ChangeProperties section of CAXConfig.xml defines the value for the Attachment Type field on Items for files that were attached during the BOM publish process. A value NONE or a missing switch means that the Attachment Type field is not populated:

```
<Field><Name>PublishAttachmentType</Name><Value>NONE</Value></Field>
```

A different value will populate the Attachment Type field. **Note that the value you specify must be a valid value for this field. To edit the available values use the Agile administration (Java Client).**

```
<Field><Name>PublishAttachmentType</Name><Value>MCAD</Value></Field>
```

### BOM redline publishing (11831741: parts not removed bom redline via mcad publish when removed from cad model)

Part BOM rows are removed from the redline table if the BOM CAD ident column is set and not empty. Additional CAD identifiers are added to detect and handle legacy data. Legacy data BOM rows should have a CAD ident **CAX-LEGACY** if the MCAD connector should delete these BOM rows.

If the CAD ident is empty on BOM rows the MCAD publish process will **NOT** delete these rows. If a previous publish assigns the CAD ident to a legacy entry and in a later publish the model is removed in CAD, then also the BOM row is removed because it was redlined with the CAD ident in the previous publish.

Every BOM CAD ident starting with the letters “CAX” is treated by the MCAD publish routine. BOM rows with empty CAD ids are interpreted as manual entries and therefore not removed by the publish routine.

### Handled CAD Exceptions (11846832: agile save crashes when saving an asm with sub-files in checked-out v1 status)

If a CAD crash is detected during the save process the EC Web Connector displays a warning message to the user and shuts itself down.

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