XPLM.

ORACLE Gold Partner

Agile Product Lifecycle Management

MCAD Connectors for Agile Engineering Collaboration

Release Notes

V 3.6.0.0

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Preface

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CONTENT

1. Important Notice

This release contains fixes and changes to

- Web Components
- Solid Edge binaries
- SolidWorks binaries
- Creo Parametric binaries

2. Architectural Changes and Enhancements

CAD Platform and Operating System Support

CAD Version	Microsoft Windows (64-bit)	Microsoft Windows (64-bit)
	Windows 7	Windows 10
Creo Parametric		
2.0	●	
3.0	●	●
SolidWorks		
2015	●	●
2016	●	●
2017	●	●
Solid Edge		
ST7	●	
ST8	●	●
ST9	●	●

Supported Agile PLM Releases

- Agile PLM 9.3.6
    - Agile PLM HF 9.3.6 RUP 1 required

3. New Features

Toolbox and Library Part Support

The MCAD connector for SolidWorks now supports toolbox or library parts. This functionality allows users to utilize the native toolbox/library part functionality of the CAD system while retaining compatibility to the MCAD connector's workflow.

Strict CAD Modification Workflow

Since release 3.6, the MCAD connectors for SolidWorks and Solid Edge support a strict modification workflow. This means, that CAD users are only allowed to modify PLM-known CAD files in case that they also hold the check out in Agile PLM. For details, refer to the *Strict CAD Modification Workflow (ACW and ACE only)* chapters in the administration and user guides.

Direct BOM and Attachments Publishing Functionality

Since release 3.6, the communications protocol used between MCAD and Agile PLM has been enhanced to allow for advanced *Publish-to-Item* use cases to execute. This does not affect the Oracle price-book connectors directly, but it provides improvements for some use cases of the XPLM distributed connectors, e. g. *virtual components* in the Inventor connector and *BOM publishing* in general for the AutoCAD and SolidWorks PDM connectors.

Find Number Mapping for Creo Parametric

The *Transfer BOM find numbers* functionality previously only available for the MCAD connectors for SOLIDWORKS and Solid Edge is now also available for Creo Parametric. Unlike the corresponding functionalities for the other connectors, however, *Transfer BOM find numbers* requires some configuration and also allows for additional customizing and BOM table layouts. Refer to the *Administration Guide* for details.

IDF Import (Creo Connector only)

The MCAD connector for Creo Parmaetric now allows saving IDF files alongside the corresponding, imported Creo geometry files created by Creo's IDF import functionality. The IDF files are saved to Agile as viewable files in this case. For details, refer to the *IDF Import – Creo Parametric* chapter in the user guide.

4. Solved Issues

25661664 - THUMBNAILS CARRYING FORWARD WHEN ADDING TO CO

When performing a transition from the MCAD thumbnailing option "fileserver" to either "ecs" or "false", thumbnail.png files were carried over from old Design versions during check in. The issue was caused by a missing delete criteria during the check in process which caused thumbnail.png files to not be deleted on subsequent Design versions.

25591154 - PUBLISHING VIEWABLE FOR 1 VERSION, THEN DISABLE PUBLISHING ON VERSION 2.

When deactivating viewable creation in the MCAD connector from a previously activated state, the previously created viewable files were still visible on subsequent Design versions, even if those Design versions should not have viewables assigned. The issue was caused by a missing delete criteria during the check in process which caused viewable files to not be deleted on subsequent Design versions.

25525910 - ERROR "FAILED TO UPDATE STRUCTURE" WHEN SAVING SOLIDWORKS ASSEMBLIES

When users manually deselected sub-components for saving in the Save Preview, and error message was issued by MCAD in the Save Summary dialog. This issue was caused by a problem related to MCAD's save functionality. Objects, which were part of the CAD assembly structure but have not been selected to not being saved to Agile were accidently transmitted to Agile nevertheless for creating the Design structures. This caused the error message mentioned above.

25306075 - BLACKLISTING ITEM ATTRIBUTES VIA READONLY_ITEM_FIELDS DOES NOT WORK

When checking in to Agile via the MCAD connector, any *Cascading List* attributes configured for Designs and Items are cleared by the check in process if they are not black listed. However, since release 3.5.0.0 the black listing functionality did not work for Item attributes. This caused those attributes to be cleared on check in again.

25253796 - UNABLE TO ADD LINES OR UPDATE FIELDS IN THE SUBCLASS TABS OF THE EC PREFERENCES

In MCAD release 3.5.0.0, the functionality for customizing attribute assignments in the MCAD connector has been removed from the product (Preferences dialog, sub-class tabs). This was done to prevent incompatibilities to the default MCAD data model which could be introduced by improper configurations. However, the attribute customization also allowed customers to extend the data model of MCAD to their particular needs, e. g. by configuring an attribute to which MCAD would write the source object of a *save as* process. Since MCAD 3.5.0.0, this functionality was not available any longer.

To restore the previously available functionality regarding the save as source object, a new mapping functionality was introduced to the MCAD connector. This mapping functionality allows users to define attributes to which the source objects of a save as process should be written during the execution of that process. The actual mapping definition is done in CaxConfig.xml using an option structure with the following XML syntax:

```
<Structure>
<Name>CAX_NAMES_BY_ID</Name>
        <FieldCollection>
                <Field><Name>ObjectType.AttributeID</Name><Value>CAX_COPY_FROM</Value></Field>
                <Field><Name>ObjectType.AttributeID</Name><Value>CAX_COPY_FROM</Value></Field>
        </FieldCollection>
</Structure>
```

`ObjectType` is the type of object to which the value should be written. This can be `FF` (FileFolder or Design) or `Item` (any kind of Item). `AttributeID` is the attribute ID of the target PLM attribute. The actual function value CAX_COPY_FROM defines the source object of an MCAD save as process. For Design objects this is the Design number, for Items the Item number.

Example configuration:

```
<Structure>
<Name>CAX_NAMES_BY_ID</Name>
        <FieldCollection>
                <Field><Name>FF.2471842</Name><Value>CAX_COPY_FROM</Value></Field>
                <Field><Name>Item.1301</Name><Value>CAX_COPY_FROM</Value></Field>
        </FieldCollection>
</Structure>
```

25066725 - OBJECT REFERENCE NOT SET TO AN INSTANCE OF AN OBJECT

When starting the MCAD connector and executing a save function without having performed a login first using a non-save related function (e. g. *Search in Agile*), an error message is issued by the MCAD connector.

25041544 - MIGRATED .CFG FILES NOT BEING REMOVED ON SAVE

When saving Solid Edge .cfg files to Agile using the MCAD connector while having the renaming on save functionality activated caused the old, non-renamed .cfg file to not be removed from the *Files* tab in Agile.

25041406 - TURN OFF THE MANDATORY SECTION IN THE SAVE AS WINDOW

Mandatory Agile attributes (for Item and Design) can be displayed in the Save As Override dialog of the Solid Edge connector. Usually, the option setting *checkRequired* (CaxConfig.xml) activates or deactivates this functionality. In older versions, however, deactivating the option was not possible.

24829224 - SAVE PREVIEW CHANGES SAVE OPTION WHEN CHECKOUT USER IS BLANK

If users selected to check out Design objects in the Save Summary dialog of the MCAD connector while having the *Force User Checkout* option enabled, it could happen that the MCAD connector implicitly assigned the "Check In" save option to the objects in question, instead of the "Save" save option assigned by the user before.

24587404 - CHECK OUT BUTTON DOESN'T WORK

The *Check Out* button in the main ribbon of the Solid Edge connector did not trigger any action in previous releases. This problem has been corrected.

24587039 - EC CREATES NEW DRAFT DOCUMENT WHEN PERFORMING SAVE AS OF ATTACHED FAMILY OF ASSE

When users executed a Save As for a CAD object, which was a member of a Solid Edge Alternate Assembly, the CAD object being the direct parent object of the Alternate Assembly member would have been implicitly added to the Save As operation as well. This is incorrect. Only the CAD objects explicitly selected by the user and the related Alternate Assembly generic (and maybe the related drawings, if opted so by the user) should have been saved to a new Design object, no other CAD objects. The issue was related to the handling of Alternate Assemblies in the MCAD connector as well as the functionality to perform a search for related drawings in Agile and to apply the Save As to them as well, if users should decide to do this, caused this issue

24582087 - SAVE COMMANDS NOT WORKING AFTER A "SAVE AS"

When executing a Save As for a CAD file while having the MCAD connector's renaming functionality activated, certain save functions of the MCAD connector picked up the previous Design object (not the target, but the source object of the Save As procedure) and attempted to save to these Design objects. This is incorrect, actually the MCAD connector should always save to the (new) Design objects that were created through the Save As.

24524620 - FAMILY OF ASSEMBLY NUMBER SYNC ISSUE

When executing a certain load use case, it could happen that Solid Edge Alternate Assembly members became PLM-unknown.

24482403 - THE DELETED FOLDER IS NOT RECREATED AND THE FILES CAN'T BE DOWNLOADED

When having deleted a workspace folder and initializing a load process, the MCAD connector caused a deadlock and thus, the load process never finished. The root cause of the issue was the deleted workspace folder. The MCAD connector did not check, if the workspace folder did not exist before initializing the actual load process. This caused an internal error that caused the deadlock.

23743590 - LINK REFERENCE FIELD INCORRECT ON EC SAVE AS

The Link Reference attribute in Agile PLM has not been correctly updated when saving a CAD file for the first time or when performing a Save As while having the MCAD connector's renaming functionality activated. The root cause of the issue was the attributes handling of the MCAD connector: The value for the Link Reference attribute had not been updated once a renaming of CAD files had been applied.

23599535 - CANNOT CONTROL DISPLAY OF ATTRIBUTES IN MCAD UI SINCE UPGRADE TO EC 3.5

The Preferences dialog presents the tabs to configure the visibility and access to each subclass' attributes. The UI behaves as if the attributes could be configured, but saving the modifications does not have any effect.

23555847 - THUMBNAIL GENERATION VIA EC 3.4 / AGILE 9.3.3

When saving CAD data to Agile while also creation viewables alongside, the master thumbnail flag in Agile could be set to different file formats when executing subsequent save options with different viewable types generated. The MCAD connector has been improved to transmit the master thumbnail flag for the CAD data in all cases, not for viewables.

23322557 - SAVE CONFIGURATIONS MAKES PART FAMILY INSTANCES PLM-UNKNOWN

When executing a certain save use case using the MCAD connector, SOLIDWORKS configuration instances were incorrectly displayed as PLM-unknown although they had been saved to Agile before.

22916173 - THE BOM QUANTITY SHOWING IN AGILE PC NOT EQUAL THE NUMBER OF TIMES IT IS USED

When de-activating configuration resolution in the MCAD connector for SolidWorks ("Configured" file property), the quantities of the configuration instances were not correctly stored in Agile. The quantity of a configuration instance, regardless of how often it was actually integrated in an assembly, was always set to one in Agile (Structure tab and Item BOM).

21968161 - ITEM NOT CREATED WHEN USING "AGILE PLM SAVE AS" WINDOW IN SOLID EDGE

Creating Items for Item sub-classes, for which the display name and the API name were not equal, from the MCAD connector did not work.

21818353 - THE LOCAL VERSION IN WORKSPACE MANAGER IS NOT UPDATING CORRECTLY WHEN CANCELING

When performing a Checkout or Cancel Checkout operation of a Design object in the web client of Agile PLM, the Design version change introduced through this procedure was not correctly picked up by the

MCAD connector's Workspace Manager dialog. This caused the Workspace Manager to display and incorrect Design version.

21556259 - EC WORKSPACE MANAGER CUT/COPY & PASTE OF DESIGNS NOT MOVE SOLID EDGE CFG FILES

When using the Cut, Copy and Paste functionality of the Workspace Manager dialog to move or copy Solid Edge assembly files from one workspace folder to another, the .cfg files associated with Solid Edge assembly files (.asm) were not moved or copied alongside the .asm file.

5. Known Issues and Limitations

Bug 26257582 - LOADTOCAD USE CASE PERFORMANCE DEGRADED 3X TIMES COMPARED WITH 936 GA

Due to a fix of the references replacement functionality of the MCAD connector, in certain situations the load performance noticeably slower compared to previous releases. This is especially noticeable for systems with low to average IO performance (we recommend using SSD drives) and occurs when loading to a workspace folder that was not the one from which the CAD structure has been saved to Agile.

Bug 26128514 - ASSIGNING A NEW ITEM DOES NOT REMOVE OLD RELATIONS

When assigning new Item objects to a Design via the MCAD connector, existing Items assigned to that Design are not implicitly deleted. The result is that two Items are visible in the Relationships tab of the Design in question. To work around this issue, we recommend to use the MCAD connector's "Delete Item Assignment" function prior to assigning a new Item.
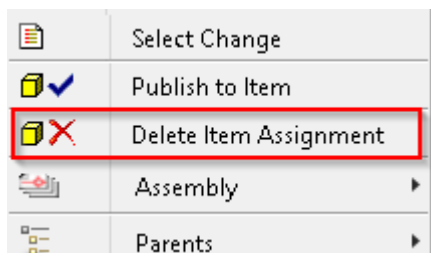

Figure 1: Delete Item Assignment menu item in the context menu

Bug 26078311 - CAX_COPY_FROM MAPPING DOES NOT WORK FOR PAGETHREE ATTRIBUTES.

Mapping to *PageThree* attributes is not working for the CAX_COPY_FROM attribute mapping functionality. A description of this functionality is given above for *bug 25253796 - UNABLE TO ADD LINES OR UPDATE FIELDS IN THE SUBCLASS TABS OF THE EC PREFERENCES.*

Bug 22310481 - [3.5NEW]NEW BOM ITEMS ARE NOT CREATED BY TRANSFER BOM FIND NUMBERS

In this release, the *Transfer BOM find numbers* functionality of the MCAD connector does not create Item objects implicitly. This could lead to Item objects missing in the BOM table of Agile after having executed a find number transfer.

Bug 24945430 - [3.5NEW]IT HAS ERROR UPDATE ROWS OF BOM TABLE IF CHANGE PUBLISH PART SITE IN CAX

When activating a custom *Part Site* in the MCAD connector, publishing the BOM to Agile fails with an error message in case that the *Part Site* setting in CaxConfig.xml has been changed in between the save and the publish process. The error message displayed is "Cannot add the bom for site %PARTSITE%, because the parent does not have that site association".

Assign Change Removes Design to Item Relationships if set Link to Model Item

Assign change through the Save Preview command will remove the model to Item relationships and replace them during the save process. This is scheduled to be corrected in 9.3.6.2

Flexible Multilist Assigned with Dynamic List, Value not Saved to Agile

Some dynamic Multilists are not supported for MCAD to Agile and Agile to MCAD mapping or modifying from MCAD client.

Multilist Values will not be Saved to Agile if Assign More than 100 List Values

If a Multilist contains more than 100 list values MCAD client does not modify the attribute from the Save Preview.