



Agile Product Lifecycle Management

MCAD Connectors for Agile Engineering Collaboration

Release Notes

V 3.4.0.0

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Contact Address (for Support Services see Preface chapter):

xPLM Solution GmbH
Devrientstr. 5
D–01067 Dresden, Germany
www.xplm.com

xPLM Solution Inc.
250 Commercial Street, Suite 520
Worcester, MA 01608 USA

Preface

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For Oracle Agile Engineering Collaboration support contact the Oracle Global Customer Support (GCS) via www.oracle.com/support or My Oracle Support via https://support.oracle.com.

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1. Important Notice

This release contains fixes and changes to

- Web Components
- Solid Edge binaries
- SolidWorks binaries
- Creo Parametric binaries
- Installation procedures and related tools

2. Architectural Changes and Enhancements

CAD Platform and Operating System Support

CAD Version	Microsoft Windows (64-bit)	Microsoft Windows (64-bit)
	Windows 7	Windows 8.1
Pro/ENGINEER (PROE)		
Creo 1.0	●	
Creo 2.0	●	
Creo 3.0	●	●
SolidWorks (SOLIDWRKS)		
2013	●	
2014	●	●
2015	●	●
Solid Edge (SOLIDEDGE)		
ST 5 (V25)	●	
ST 6 (V26)	●	
ST 7 (V27)	●	●

Supported Agile PLM Releases

- Agile PLM 9.3.4 (no hotfix required)
- Agile PLM 9.3.3
    - Agile PLM HF 9.3.3.0.1 (like for Agile MCAD 3.3)
    - Agile PLM MCAD HF 3.4.0.1
- Agile PLM 9.3.2
    - Agile PLM hotfix 9.3.2.0.45 (like for Agile MCAD 3.3)

3. Hot Fix Recommendation

When using Agile MCAD 3.4 for SolidWorks, we strongly recommend installing MCAD HF 3.4.0.4 before commencing productive use. HF 3.4.0.4 fixes problems related to SolidWorks *assembly based configurations*. When using CAD structures containing assembly based configurations without HF 3.4.0.4, data corruption might occur.

4. New Features

New Installation Wizard

With release 3.4 a new graphical installation wizard is available for installing the MCAD integrations. The new installation wizard is based on .NET Framework 4.5 and provides additional installation procedures and functionality. For details, refer to MCAD *Installation Guide*.

Design Data Model Recursion

Since release 9.3.4 Agile PLM supports recursive (self-referencing) Design structures. MCAD 3.4 supports this data model. Due to this, CAD object references which have been put to the *Relationships* tab of a Design object in older releases are now visible in the *Structure* tab.

Seamless Web Client Login

When already logged in via MCAD integration, a separate login to Agile PLM's web client is not required any more, if the web client is called trough the MCAD integration.

Re-Use of Open Web Client Instances

Web client window handling between Agile PLM and the MCAD connectors has been improved. When accessing Agile's web client from MCAD, already running web client instances are re-used instead of opening new ones.

Web Services Security

Communication between Agile PLM server and the MCAD integration can be routed through HTTPS for improved security. One way and two way authentication is supported.

CLB File Mechanism

Caching of PLM related data on the MCAD client is done through separate files (so called .clb files) which relate to exactly one native CAD file compared to the previously used, workspace folder related caching.

Find Number Transfer Functionality

The MCAD integrations for SolidWorks and Solid Edge allow the transfer of BOM table find numbers (drawing balloon numbers) to the corresponding PLM field in Agile PLM's BOM table. The data transfer is only supported from the CAD system to Agile, not the other way round.

Quick View Popup

An additional dialog window, which displays the most important PLM-related information of a CAD object, has been implemented.

Performance Improvements

The performance of initial save procedures (procedures where CAD objects are saved to Agile for the first time or are saved to new PLM Design objects) has been significantly improved.

Removal of Inactive Sub-Classes

Inactive sub-classes of Agile PLM are not displayed in MCAD GUI components anymore.

Sub-Class and Number Generator Filtering

All MCAD dialog windows support filtering of the displayed Design, Item and Change sub-classes and the related AutoNumber generators. Filtering can optionally be configured to take the file type (file ending) of the CAD file into account. Refer to MCAD *Administration Guide*, chapter *OverrideConfiguration Section*, for details.

5. Solved Issues

The following issues have been fixed in this release:

20148330–TOP LEVEL (MASTER) ASSEMBLY IN A CONFIGURED SOLIDWORKS ASSEMBLY IS NOT RECOGNIZED

Under rare conditions, the structure resolution for SolidWorks configurations did not work correctly in the Save Preview window.

19774112–SUBSEQUENT PDF VIEWABLE GENERATION IN THE SOLIDWORKS INTEGRATION

Viewable creation by the MCAD connector has been changed to sequentially open and, immediately after having created the viewable file, close CAD source files during the process. This way, resource consumption during viewable creation could be optimized solving resource consumption related issues.

19539793–PDF VIEWABLE FILENAME OF SOLIDWORKS DRAWING HAVE PARENTHESES AROUND REVISION

PDF viewables created by the MCAD connector sometimes contained Item revisions including parentheses. Due to having implemented filter functionality, parentheses do appear any more.

19529570–CORRECTION OF THE FAMILY OF PARTS TEMPLATE PROPERTY ON RENAME

The MCAD connector now maintains Solid Edge’s template property. The template property is an internal file property managed by Solid Edge to track from which template file a Solid Edge file has originated. For part families, this is the part family generic. When performing PLM related operations, the MCAD connector takes care of correctly updating the template property for part families.

19438159–EC WORKSPACE MANAGER SAVE FUNCTIONS DO NOT UPDATE PROPERTIES

The context menu save functions available in the Solid Edge MCAD connector’s Workspace Manager dialog now perform property mapping just as the save functions available in the main menu do.

19404521–SOLID EDGE SAVE AS OVERRIDE DIALOG OVERWRITES PREVIOUSLY SAVED FILES

When performing subsequent, sequential save as operations using the Solid Edge connector's Save As Override dialog, the file saved in the previous save as operation was overwritten in the subsequent save as process. This was corrected.

19366009–SAVE ISSUE WHEN BOTH SLDPRT AND SLDASM ARE USED IN USE

The SolidWorks connector did not correctly process drawings which contained references to two files with the same actual file name, but different file endings. By taking the file ending into account, this issue was corrected.

19324087–STRUCTURE RESOLUTION IN PREFERENCES IS NOT FOLLOWING DEFAULT VALUE

When loading from Agile, the MCAD connector's Load Preview window did not take the structure resolution value defined in the Preferences dialog (e. g. "Latest in Work", "Latest Released") into account, instead a fallback value was used every time.

19315847–SILENT INSTALLATION OF AGILE EC 3.3

MCAD release 3.4 provides a new installation wizard providing silent installation functionality intended to streamline the installation of the MCAD connector on large-scale production environments. Please refer to the MCAD *Installation Guide*, chapter 3.2, *Overview on the Available Installation Procedures*, for an overview on the available installation procedures.

19309561–PRIVILEGE ASSIGNED AT THE GROUP LEVEL DO NOT WORK CORRECTLY ON EC3306

Privileges assigned at group level, not at user level, were not taken into account by the MCAD connector.

19307437–SOME CAD COMPONENTS ARE FLAGGED AS 'NEW' ALTHOUGH THEY ARE PLM KNOWN

In the Load Preview dialog, some CAD components were displayed as PLM-unknown or new, although they had been saved to Agile before.

19306438–AGILE MCAD FORGETS COLUMN SORT ORDER SPECIFIED BY USERS

When users sorted the entries visible in the Save or Load Preview window of the MCAD connector, re-opening the dialog caused the connector to not re-enable the previously used sorting.

19288907–STRUCTURE RESOLUTION INCORRECT FOR DRAWINGS WHICH CONTAIN MULTIPLE MODELS

SolidWorks drawings which contained drawing views to two or more different instances of a part configuration were not correctly represented in the Save Preview window. Only one of the configurations was displayed.

19233666–REPLACE WITH COPY FUNCTION OPENS SAVE AS OVERRIDE DIALOG

When using the “Replace with Copy” function in Solid Edge, the MCAD connector’s Save As override dialog appeared unintendedly. By refining the event catching functionality, this could be prevented.

19195385–SOLIDWORKS AND INTEGRATION CRASH WHEN LARGE ASSEMBLIES ARE LOADED BEFORE INTEGRATION INITIALIZATION

Due to issues with memory management, under certain circumstances SolidWorks could crash when opening a large assembly structure in the CAD system and starting up an MCAD function.

19172923–SOLID EDGE SAVE AS OVERRIDE DIALOG: AUTOMATIC NUMBER RETRIEVAL

The behavior of the Solid Edge connector’s Save As Override dialog was optimized: Optionally, a Design number can be automatically retrieved once the override dialog opens (refer to the Administration Guide, chapter *Solid Edge Connector Administration*, for details). In addition, the OK button of the dialog remains disabled as long as the Number text field is empty. The Save As Override dialog now displays an error message if the file given already exists in the local workspace.

19157106–ON AN UPDATE SAVE TO PLM THE PART DESCRIPTION IS NOT UPDATED ONLY THE DESIGN IS

The description of Item objects related to MCAD Design objects was not updated when performing a save.

18966639–AGILE EC SAVE MODIFYING RELEASE PLM PART DESCRIPTION AND NOT PENDING REV DESCRIP

When saving via MCAD connector, under certain circumstances the description of a released Item Revision was unintentionally updated alongside the description of the pending Revision.

18872358–SAME OBJECT PASSED MULTIPLE TIMES FOR SETTHUMBNAIL WEB SERVICE CALL

In certain situations, the MCAD connector did not transfer thumbnails for all saved components to Agile PLM.

18747508–AGILE SAVE PREVIEW DOES NOT LAUNCH ON IMPORTED STEP FILES

Due to an error in the CAD system, SolidWorks assemblies created by importing STEP files could not be saved to Agile through the MCAD connector without applying a certain re-filing procedure. The avoid confusion, the MCAD connector now displays an error message when the above mentioned error occurs.

18601354–LOAD TO CAD DOES NOT COMPLETE AND LOCKS SOLIDWORKS

Workstations which did not have a DNS suffix assigned by a DNS server caused the MCAD connector to error out of certain functions, leaving the actual function call non-executed.

18560167–SOLIDWORKS CRASHES WHEN OPENING CAD CONNECTOR

Due to issues with memory management, under certain circumstances SolidWorks could crash when opening a large assembly structure in the CAD system and starting up an MCAD function.

18514054–AUTHORIZED USER DESIGN ATTRIBUTE (MULTILIST OF USERS) BEING CLEARED DURING AN EC

Under certain circumstances, the MCAD connector unintentionally attempted to update list fields during PLM operations, which caused certain PLM list fields to be cleared.

18460005–CREATE IN PLACE FAILS IN CONNECTOR AND ATTEMPTS TO SAVE WRONG FILE

When executing the “Create in Place” function of Solid Edge, the Save As override dialog displayed the file object from which the Create in Place originated, not the actual target object. This is incorrect. Since there is no sufficient solution currently available for solving the above mentioned issue, the Save As override dialog was updated to not display during Create in Place.

18353766–ALTERNATE ASSEMBLY MEMBERS BECOME ACCIDENTLY PLM-UNKNOWN

Solid Edge Alternate Assembly members became PLM unknown when members were switched after having saved a member to Agile previously.

18331223–MCAD CONNECTOR DOES NOT KEEP FAMILY TABLE INSTANCES IN SYNC WITH GENERIC

The Creo Parametric connector allowed users to check out or save part family instances without having to check out or save the related generic or other instances. This caused a de-synchronization of part families under certain circumstances. Treatment of part families was enhanced to prevent this: When checking out or saving a part family instance, all other instances and the generic are treated the same way.

18328769–LOAD AND SAVE IS SLOWER THAN THE OLD INTRALINK SYSTEM

Please refer to the sub-chapter about performance improvements in chapter 4, *New Features*: *Performance Improvements*.

18244592–ERROR DURING FILE TRANSFER WHEN TRYING TO LOAD AN ASSEMBLY TO CAD

Instance accelerator files created by Creo Parametric (.xpr and .xas files) might change between file upload and check in during a save process performed by the MCAD connector. Especially in slow networks this problem occurred. This caused file size checks during load and thus the complete load process to fail.

18244563–MCAD IS NOT SAVING CAD STRUCTURE PROPERLY. SEVERAL DESIGNS ARE REPEATEDLY BEING

Under certain circumstances, CAD structures were incorrectly displayed in the Save Preview window. Some components were missing in the Save Preview, thus they were not saved to the Design structure in Agile PLM.

18194490–WORKSPACE DOES NOT SAVE VIEW AFTER LOGOUT

The persistence of the Workspace Manager's window related parameters (size, column order and visibility) has been improved, so that this dialog now provides a more consistent appearance between sessions.

18194385–CAXCONFIG.XML SETTING OF NOPARENTHESES DOES NOT PREVENT () IN THE MCAD DISPLAYS

The Save Preview window and the Workspace Manager displayed Item Revisions with parentheses, though the related option setting was changed by users to not display them.

18194273–CREATE FUNCTION DOES NOT OPEN NEW FILE AND FILE DOES NOT OPEN FROM WORKSPACE MGR

When users changed the workspace folder within the MCAD connector's Create dialog, a deadlock caused the create functionality to not execute successfully.

18188398–LOAD TO CAD WILL SOMETIMES OPEN DESIGNS IN SESSION EVEN THOUGH THE CONFIG IS SET

The option setting "SelectTopOnLoad" was not correctly evaluated during load processes. This caused the MCAD connector to open downloaded assembly structures instead of just downloading them, as actually intended.

18167582–RECEIVE READ-ONLY ERROR WHEN EXECUTING SAVE AS FROM SAVE PREVIEW DETAILS PANE

An error message appeared when users executed a Save As from the MCAD connector's details pane, if the Design object, from which the Save As originated, had a released Item object assigned.

18160587–SAVE AS WITH AUTONUMBER FROM SAVE PREVIEW FUNCTION CREATES BAD DATA IN CAD AND A

Renaming of part families during a Save As process triggered through the MCAD connector might have caused data inconsistencies under certain circumstances.

18044121–MISMATCHES BETWEEN CREO AND MCAD WORKSPACE DIRECTORIES

The internal CAD workspace of Creo Parametric is now closely aligned to the MCAD connector's workspace directory (which can be selected in the Workspace Manager). Possibly confusion mismatches between these two workspaces should not happen anymore.

18044069–SAVING THROUGH THE MCAD CONNECTOR FAILS AND BRINGS UP AN EMPTY ERROR DIALOG BOX

When a certain combination of option settings was activated, save processes of the MCAD connector might have failed displaying an empty error message.

17926273–BOM AND DESIGN STRUCTURE FOR AN ASSEMBLY WITH COMPONENTS HAVING INHERITANCE FEATURES

Certain Creo Parametric CAD features caused the MCAD connector to create incorrect Design structures in Agile PLM.

17889145–WHEN DESIGN'S MODEL TYPE ATTRIBUTE VALUE IS EQUAL TO INSTANCE, FILES DON'T LOAD

SolidWorks part family instances could not be loaded through the MCAD connector, if the load process was started from the instance's Design object.

17814260–VIEWABLE NAMING OPTIONS DON'T SUPPORT USING DESIGN OBJECT NAME WITHOUT EXTENSION

The available viewable naming options were enhanced. There is now an option which returns the Design number of a CAD file's related Design object without the CAD file ending: %NUMBER_ROOT%

17756672–WINDOWS SHOW APPLICATION CRASH WARNING FOR SOLID EDGE WHEN SOLID EDGE IS CLOSED.

Closing Solid Edge with loaded MCAD connector add-in caused Window's application crash notifier to appear.

17383625–EC SAVE PREVIEW LOSES DATA WHEN CHANGING ITEM REVISION.

The MCAD connector's Save Preview dialog crashed when under certain circumstances, when users changed the Item Revision in the dialog's Item Revision drop-down lists.

17272594–EC ADDIN MISSING FROM MANY OF THE SOLID EDGE ENVIRONMENTS

Some Solid Edge environments (such as *Simulation Results*, *XpressRoute*, *Motion*), the MCAD connectors ribbon bar was not visible. The connector was enhanced to display the menu for these environments as well.

16827328–EC31 SAVE TO PLM WINDOW DISPLAYS CAD FILE INCORRECTLY

The MCAD connector's file renaming functionality did not always rename files correctly when saving to Agile and the related option settings were activated.

16276769–CURRENT WORKSPACE IS TO HARD TO DETERMINE

Additional highlighting was implemented to make the currently active workspace easier to determine in the MCAD connector's dialog windows.

14245499–PART ATTRIBUTE DOES NOT DISPLAY THE CORRECT LOV ON EC CLIENT

The MCAD connector's dialog sometimes did not correctly display PLM fields containing lists of numeric values.

6. Known Issues

20133771 - LOCKING PROCESSES MAY CAUSE INSTALLATION OR UN-INSTALLATION TO FAIL

Sometimes files in the MCAD connector's installation directory are locked by one of the MCAD integration's or the CAD system's background processes, or any other process. As long as such a lock is active, un-installation or installation of the MCAD integration will fail. For details refer to the *Troubleshooting* section of *MCAD Installation Guide*.

20129472 - SAVE AS OF A PART FAMILY INSTANCE DOES NOT UPDATE STRUCTURE PROPERLY

When performing a *Save As* of a part family instance in the MCAD integration for Solid Edge, the structure of the part family is not updated as this was the case in earlier releases, due to the new data model introduced in this release.

19528395 - INCORRECT ERROR SUMMARY FOR SAVE AS - CHECK OUT IN SAVE PREVIEW WINDOW

If a CAD object is checked out in using the MCAD integration's Save Preview window which has been saved as before, the check-out process is not successful. However, the MCAD integration displays a success message in the Save Summary dialog though actually an error occurred (which is displayed in the Save Summary dialog).

19583206 - SAVE AN ASSEMBLY WITH MORE THAN ONE RELEASED ITEM, BUT IT ONLY POPS UP ONE ERROR MESSAGE

When performing operations which are not allowed to be performed on released Item objects, the MCAD connector's Save Summary dialog may not display a separate error message for each Item object for which the operation failed. Instead, an error message is just displayed for one of the related Item objects.

19934914 - WORKSPACE MANAGER SAVE FUNCTIONS DONT UPDATE DESIGN MAPPING PROPERTIES CORRECTLY

When mapping CAD file properties to the *Description* field of a Design object, under certain circumstances the *Description* field of the related Item object is updated as well, though no mapping for the Item object's *Description* field is set up.

20111352 - DELETE ITEM ASSIGNMENT FUNCTION IN SAVE PREVIEW CONTEXT MENU DOESN'T WORK AS EXPECTED

When attempting to delete Item object assignments in the MCAD connector’s Save Preview dialog using multi-select, the multi-selection is not picked up correctly: Only the last Item object in the selection is removed.

20356094 - DESIGN VERSION IS NOT CORRECT WHEN ASSIGNING A RELEASED ITEM TO A NEW DESIGN

When assigning a newly created Design object to a released Item, the Item’s revision is not displayed correctly in the Design version drop down list.

20379736 - THUMBNAIL DOES NOT DISPLAY CORRECTLY WHEN SAVED BY SOLIDWORKS 2015

The thumbnails displayed by the MCAD connector do not represent the actual file geometry when using the MAD connector in combination with SolidWorks 2015. Instead, a generic, file type related thumbnail is displayed.

18660065 - DIFFERENT STRUCTURE ON LOAD PREVIEW AND SAVE PREVIEW

Creo shrink-wrap features display an external reference to the target object of the shrink-wrap in the Load Preview window, which is not visible in the Save Preview window. However, through this, no data related problems occur since the relationship between source and target object of a shrink-wrap feature is defined trough another reference as well.

20134554 - REMOVE WORKSPACE FUNCTION DELETES CONTENT OF CURRENTLY ACTIVE WORKSPACE

The MCAD connector for Creo Parametric accidently deletes all files contained within the currently selected workspace folder, if the user applies the Remove Workspace function and although an error message is displayed which indicates that the currently active workspace folder cannot be deleted.

18426112 - DELETING THE RELATED .CLB FILE DOES NOT MAKE A CREO FILE PLM-UNKNOWN

For the MCAD connector for Creo Parametric (unlike the MCAD connectors for SolidWorks or Solid Edge), a CAD file does not become PLM-unknown if the related .clb file is deleted.

19135279 - LOAD OF ALTERNATE ASSEMBLY DOES NOT ACTIVATE CORRECT MEMBER

When selecting a particular member of an *Alternate Assembly* (Solid Edge) for loading in Agile, the MCAD connector does not make the selected member active after having finished the load process. Instead, the *Alternate Assembly* member which was active during the save process is displayed by Solid Edge.

19956929 - LOADING ALTERNATE ASSEMBLY MEMBERS CAUSES ERRORS

The synchronization status of an Alternate Assembly (Solid Edge) might be incorrectly displayed in the MCAD connector's Load Preview dialog.

20001669 - PROPERTY MAPPING ON CHECK IN IN THE WORKSPACE MANAGER DOES NOT WORK

When using the "Check In" context menu item from the MCAD connector's Workspace Manager dialog, all PLM fields displayed in the Workspace Manager dialog which are changed trough mapping might not refresh automatically. In this case, the user needs to manually refresh the Workspace Manager in order to make the changed data visible.

19471520 - ERROR POP UP IS DISPLAYED WHEN USING INSERT COMPONENT MORE THAN ONCE

When using the "Insert Component" functionality (Load Preview dialog) more than once for adding the same component to an assembly, any subsequent function call does not execute but display an error message.

19916958 - WHEN CHECKING OUT A PART FAMILY INSTANCE, SAVE PREVIEW DISPLAYS INCORR. VERSIONS

The MCAD connector for SolidWorks displays incorrect Design versions in the Save Preview window, if an instance of a part family is checked out.

20190323 - INSERT COMPONENT DOES NOT WORK IF THE SOURCE COMP. ALREADY EXISTS IN THE WORKSPACE

The Insert Component functionality (Load Preview) displays and error message if the component that should be added to an assembly has already been downloaded to the current workspace folder.

20134812 - THERE'S NO WARNING DIALOG WHEN REMOVE CURRENT WORKSPACE FOR SOLIDWORKS

The MCAD connector for SolidWorks allows users to delete the currently active workspace folder, though this is actually not intended.

20362562 - CHANGE INFORMATION INCORRECT IF A RELEASED CHANGE HAS BEEN ASSIGNED BEFORE

If a Change object is assigned to an Item to which a released Change had been assigned before, the Change related information displayed by the MCAD connector may not be correct.