



# **Agile Product Lifecycle Management**

MCAD Connectors for Oracle Agile Engineering  
Collaboration Release Notes

V3.2.0.0

Oracle Part Number – E47819-01



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# Preface

## Contacting Oracle Support Services

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

## Accessibility of Code Examples in Documentation

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## Important Notice

This release contains fixes and changes to

- Web Components
- Solid Edge binaries
- Solid Works binaries

## Architectural Changes and Enhancements

### Engineering Collaboration Services

This release requires the Engineering Collaboration Web Services installed on the Agile PLM Server. The required web services are provided by Oracle as part of the standard Agile PLM installation, but might require an update through a hotfix.

Please check the “Oracle Agile Product Lifecycle Management - MCAD Connector Quick Install Guide” on the Oracle Software Delivery Cloud ( <http://edelivery.oracle.com/> ) if a hotfix is needed for your version of Oracle Agile PLM and follow the installation instructions for the required PLM hotfix.

### CAD Context driven commands

This release introduces direct context driven commands initiated directly from the feature tree within the CAD tool. The commands that are context driven are:

Check Out – Checkout the selected CAD components

Cancel Check Out – Cancel Checkout of the selected CAD components

Check In – Perform a single level single object save for the selected CAD components

Show Form – Show the Web Client from the selected CAD components

## CAD driven thumbnails

This release introduces thumbnail support. Thumbnails are extracted from the CAD files and can be transferred to PLM or downloaded from PLM in order to show up in Workspace manager and Web Components dialogs. Refer to the Admin Guide how to configure the CAD tool and AutoVue for CAD driven thumbnails.



## Solved Bugs

### Solid Edge Binaries

#### **Save - Infinite Loop detection (16396904 - saving of file causes infinite loop failure)**

Assemblies with some special type of cross links cause Solid Edge to run into endless retrieval of structure information. The infinite loop detection in the CAD structure resolution routine and the PLM processing is fixed to handle the condition properly.

#### **Save - Show missing Files Information (14757419 - solid edge connector does not show what contains broken link when it reports the)**

Missing files on a structure resolution can cause data loss and corruption and the user must be informed.

If IgnoreMissingFiles is set to false then for the first missing file a message box is displayed to the user explaining the parent file and the missing file within it.

If IgnoreMissingFiles is set to true no message is displayed for each single file, but in the Save Preview the complete summary of missing components and the affected parents is collected in a information message table.

#### **Load Preview – Checkout (16601183 - EC client fails to download file if checkout performed in load preview)**

Problem: When downloading a file using the EC client, if the user checks out the file in the Agile Load Preview form and then performs the Load to CAD command, the connector fails to download the file that was checked out. If the file is not checked out, then it will download.

Solved as: If the user checks out a file in Agile Load Preview and then performs the Load to CAD command the connector will download the file.

## SolidWorks Binaries

### **Drawing title block attributes from the model are not updated (16694461 - drawing title block attributes from the model are not updated)**

If model attributes do not reflect into a drawing automatically a rebuild of the drawing is required. In order to perform an automated rebuild a new switch is added to the xPLMSolidWorksConnector.xml and binaries to trigger the rebuild before creating the viewable files. By default the switch is set to false. The switch is set to true only if the Drawings do not rebuild automatically:

```
<Field>
  <Name>Solidworks_RebuildDrawingOnSave</Name>
  <Value>>false</Value>
  <!--default is "false", true rebuilds drawings on save when viewable creation is enabled -->
</Field>
```

### **Design objects showing as relationship instead of structure (16485718 - design objects showing as relationship instead of structure)**

Issue during detection of assembly occurrences and external references are solved.

## Web Components

### **Mapping - Selecting agile/ update-all-levels overwrites Drawing Item field (16970130 - selecting agile/ update-all-levels overwrites drw item field)**

Retrieval of Item attributes and BOM is implemented to not return any information of related designs.

### **Workspace status icons not matching when doing a copy paste (16919022 - icons not matching when doing a copy paste)**

Issue in cache handling solved.

### **Workspace warning on copy paste of files to empty workspace (16918975 - warning on copy paste of files from populated ws to empty ws)**

Wrong warning message is removed.

### **Workspace lazy load is not working properly (16918886 - lazy load in workspace is not working properly)**

Detection of local modification flag in Workspace Manager is fixed. The code is consistent between the Save Preview, Load preview and Workspace Manager.

### **Workspace update file in not working properly (16918344 - update file in a ws not working properly)**

Detection of latest version of a Design from PLM failed. The issue is solved.

### **Mapping - copying the part number to the design not working (16872142 - copying the part number to the design not working)**

The internal attribute CAX\_PART is used to map the item numbers on Designs. Also the EC Solution Pack can be used to map information between Items and Designs for advanced customizations.

### **Mapping - revision on drawings and Design (16812681 - issue with revision on drawings, 16516519 - design object revision changed to match the item revision)**

The revision is synchronized between the model and the drawings and the assigned Items. The following fields are available to map item revision strings to CAD properties:

REV – Design revision consisting of Item revision and minor version like Introductory.1, A.2.

Item.REV – Item Revision string like Introductory or A

Recommended configuration in CAXConfig.xml is like this:

InitialRevision = Introductory

DesignRevisionForIntroductory = Introductory

Revision Sequences should start with Introductory

### **Mapping - design created from wrong subclass (16733127 - design created from wrong subclass)**

Using the CLASS\_PREFIX setting in the mapping editor the desired target class is defined. Mapping a CAD attribute to this field can control individual subclasses. The option is supported for Design and Item subclasses.

### **Mapping – External References (16629864 - ec no longer handles external references correctly, 16629966 - load to cad does not display external references correctly)**

MERGE References (Pro/E) and Part-Part References are saved into the Design relationships table like other external references.

### **Setting to turn off the automatic checkout of design upon create change order (16538195 - setting to turn off the automatic checkout of design upon create change order)**

The automated checkout of the design is turned off in CAXConfig.xml using the switch AssignChangeCheckout:

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

If the value is "false", the behavior is like in 3.1 and it will do an automatic check-out.

If the value is "true", the behavior is like in 3.0 and the check-out flag on the objects is checked and no automated checkout is performed. This will require a manual check-out before being able to save.

### **Save Preview - Item already exists, when it really does not yet exist (16510949 - getting error "item already exists", when it really does not yet exist)**

Wrong error message on assignment of a new Item removed.

### **Save Preview - switching to lazy load although it is disabled (16510715 - save preview switching to lazyload although lazyload is disabled)**

XHTML and CSS renderer is updated to display correct colors in the tree and to show the entries in the table.

## Mapping - Viewable Naming Convention (16492560 - issue with viewable naming convention, 14217773 - iges, step, pdf naming in agile)

This release introduces a new feature to define the file names for viewables in a common way for all connectors. A new section FileNaming is added to the CAXConfig.xml where a naming rule is defined for each file extension where a special rule should apply. Item and Design attributes are accessible. Please refer to the Admin guide for details.

```
<Structure>
  <!-- common file naming section in PLM file attachments -->
  <Name>FileNaming</Name>
  <FieldCollection>
    <Field><Name>PDF</Name><Value>%Item.NUMBER%_%Item.REV%.PDF</Value></Field>
    <Field><Name>STP</Name><Value>%Item.NUMBER%_%Item.REV%.STP</Value></Field>
    <Field><Name>JT</Name><Value>%NUMBER%_%REV%.JT</Value></Field>
    <Field><Name>PNG</Name><Value>thumbnail.png</Value></Field>
  </FieldCollection>
</Structure>
```

## Workspace - Not showing item info and change order info (16454133 - design is not showing item info and change order info in save preview or workspace)

The connector now supports display of all Item subclasses. The issue was display of Documents failed. Nevertheless the required attributes on the relationships table between the Design and the Item must be filled correctly. Otherwise the relations are ignored.

## No login with special or unicode characters (16183889 - no login with special/unicode character)

Authentication issue for passwords containing Unicode characters is solved.

## Autonumber - Save as of Drawing and Model option to assign different numbers (15899105 - save as with draft and parts selected assigns same number to draft and part)

A new option **DrawingNumberFromModel** is added in CAXConfig.xml to assign numbers to drawings that are independent from the model base number. By default the option is set to true to derive the drawing number from the model underneath.

## Load Dialog - Selective load of assigned Drawings (14803764 - mcad / add additional options during a "load preview" for drawings, 14257028 - on a "load to cad", only retrieve the current model's drawings)

The Load preview has a new feature to load the assigned drawings for selected models only. Instead of retrieving all drawings for all models the user can now pick the models individually and load the drawings of interest only.

### **Mapping - \$USER and \$USERID doesn't work (14684419 - agile ec mapping error (\$user))**

Mapping of the current login user id and name is now supported in the mapping editor.

### **Support Documents and Items for Drawings on separate agile object from model (13722077 - support draft/drawings on separate agile object from model)**

A new option "Separate Item" is introduced to the save options for Drawings. If set to Separate Item then the connector can manage for instance a Document object for Drawings and Part objects for models.

Note: If you want to manage documents make sure the DocumentSupport is set to true in CAXConfig.xml. For better performance the EC subclasses should be limited using the OverrideConfiguration section to the classes used by EC. Otherwise all classconfigurations are read from the PLM server which can be timeconsuming if many subclasses are configured for Documents and Parts. If you don't intend to use Document subclasses at all, set the DocumentSupport to false for better performance.

### **Mapping - Incorrect file name in the title block of design after rename (16760505 - incorrect file name in the title block of design)**

After rename the new filename is transferred on the commit step to the server again to ensure the correct file name and part family information is set.

### **Documentation - Enhancement with Information on the Browser Nodes (17015062 - need more detailed information about the boxes of save preview in EC)**

Documentation is enhanced to provide details about information inside the boxes and background colors.

### **Workspace manager - Checkin (16276801 - allow user to checkin files from workspace)**

The „Check In“ menu item has been introduced to save designs right from workspace manager. The function works with multiple selected files. The process is similar to function ordered to "Save" menu item in Agile CAD menu.

After saving user have to refresh the workspace to see actual (current) states of selected designs.

### **Workspace manager - zip and upload workspace (14367761 - zip and upload workspace naming issue)**

Enhancement has been implemented as:

Now a number will be generated by an autonumber source.

This autonumber source has to be configured in "caxconfig.xml" in the structure BrowserDisplay as follows:

```
<Field><Name>WorkspaceFolderClass</Name><Value>Design</Value></Field>
<!-- default agile class to create a zipped workspace with -->
```

```
<Field><Name>WorkspaceFolderAutonumber</Name><Value>Designs Number</Value></Field>
<!-- default agile autonumber source to create a zipped workspace design with -->
```

The file number can be longer as 50 characters and the workspace name will be used as a file name with "zip" extension. The description of designs will reflect the workspace source as "<host>:<abs\_path>".

### **Workspace manager - update from plm (16893247 - file modified locally in workspace manager does not update from plm)**

Solving problems with ProE file dot version (backup copies). The handling of backup copies for ProE has been improved.

### **Save and Load dialogs - edit fields (16049479 - CAXCLIENT: table display on ec interface)**

Fields defined in "caxconfig.xml" in the structure TableDisplay can be defined to be editable (value=1) or not (value=0) as follows:

```
<Structure>
<Name>TableDisplay</Name>
<!-- Fields available in Save and Load dialog lists -->
<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>HZ</Name><Value>0</Value></Field>
<Field><Name>DESCRIPTION</Name><Value>1</Value></Field>
...
</FieldCollection>
</Structure>
```

**Login dialog – mixing case in username and/or password (14405665 - ec client will not transfer files)**

The handling of username and password has been improved to allow the usage of mixing case and special character.