



PDM Workbench

PDM Workbench Release 20.0.3 for Aras Innovator

Release Notes

Version 1

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Preface

About this Document

This document provides general release information for the PDM Workbench.

Related Documents

The following manuals contain information about installation, administration, usage, and customization of the PDM Workbench:

Manual Title	Version
<i>PDM Workbench Installation & Administration Manual</i>	20.0
<i>PDM Workbench User Manual</i>	20.0

Your Comments are Welcome

Please feel free to tell us your opinion; we are always interested in improving our publications. Mail your comments to:

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CHAPTER 1

Platform Support

Supported Platforms

CATIA V5 Version V5-6R2022, V5-6R2023, V5-6R2024, and V5-6R2025

(other revisions on request):

CATIA V5 Client V5-6R2022	Windows 10 (64Bit), Windows 11 (64Bit)
CATIA V5 Client V5-6R2023	Windows 10 (64Bit), Windows 11 (64Bit)
CATIA V5 Client V5-6R2024	Windows 10 (64Bit), Windows 11 (64Bit)
CATIA V5 Client V5-6R2025	Windows 10 (64Bit), Windows 11 (64Bit)

Important notice:

CATIA V5-6R2014 SP2 has been retracted by Dassault Systèmes and is not supported. Please use SP3 instead.

CATIA V5-6R2022. Minimum service pack: SP1

Server Installation of Aras Innovator:

(Other service packs on request)

Aras Innovator Server 12 SP09	Windows Server 2019, Windows Server 2016, Windows Server 2012
Aras Innovator Server 22 to 37	Windows Server 2022, Windows Server 2019, Windows Server 2016

T-Systems licman21 license manager:

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CHAPTER 2

Functional Changes

Inertia Information

Also support "Inertia Matrix", "Principal Axis" and "Principal Moments".

This means now it is possible to save the following inertia properties of a CATPart to Aras: "Mass", "Volume", "Center of Gravity", "Wet Area", "Density", "Inertia Matrix", "Principal Axis" and "Principal Moments".

The inertia properties use the following units:

Mass	kg	Kilogram
Wet Area	m ²	Square meter
Volume	m ³	Cubic meter
Center of Gravity	m	Meter
Inertia Matrix	kg m ²	Kilogram square meter (9 space separated values)
Principal Moments	kg m ²	Kilogram square meter (3 space separated values)
Density	kg / m ³	Kilogram per cubic meter
Principal Axis	-	(9 space separated values)

Improve check for 'CAD Structure' expand resolution.

Before loading a structure into CATIA, PDM Workbench checks if the structure (or a sub structure) is already loaded in CATIA using a different expand mode. The check about the different expand mode was refined. The PDM Workbench no longer uses the expand mode to determine if it is possible to load the structure. Now PDM Workbench uses the versions of the expanded children to determine if it is possible to load the structure.

Improvements in the replace functionality Instance

- Now it is possible to replace an instance with a new CAD without a native file. In this case the native file is created on the fly in CATIA and saved to Aras Innovator during the next update.

-
- Replace a node below an embedded CATIA Component.
 - Do no longer open a separate window during replace.

Improvements in Debug mode

Now the debug output of debug level PWB_DEBUG=ON also holds some time trace information like PWB_DEBUG=ON2.

Repair instance with UseCadIsMaster = true

By default, the setting UseCadIsMaster=true causes only the structure from the CATProducts to be used during loading.

The setting UseCadIsMasterRepairInstance=true in the PWB Schema.xml file:

```
<setting name="UseCadIsMasterRepairInstance" value="true" /> <!-- Default value is "false" -->
```

changes this behavior to repair the broken links in the structure. Broken links to be repaired will occur if some UUIDs of the child CATIA files were changed (this could happen if these files are updated / replaced in Aras without using PDM Workbench).

Giving the path to root information for specific problematic PSN nodes to the user

If there are some inconsistent CATIA structures, like multiple instances with the same instance name or instances without an instance name in CATIA, it is not possible to update such a (sub-)structure to Aras Innovator. (The only known way such structures occur in Aras Innovator is for a migrated data from a legacy system). For such structures the user gets a message which holds the complete path to root to the problematic CATProduct. This allows the user to repair the structure before doing the update.

Performance improvement when working with CATIA design tables

Improve performance if the configuration UseDesignTables is activated. The performance is also improved if there are no design tables in the structure, but the setting UseDesignTables is active.

Activate 'DynContextPromote' functionality by default

The 'DynContextPromote' functionality shows a dialog to the user, where the user can select the new state of a CAD. The list is generated dynamically in Aras Innovator using the user and the CAD to determine the possible promote states.

PWB Workbench toolbar - embed login / logout buttons in a fly-out toolbar.

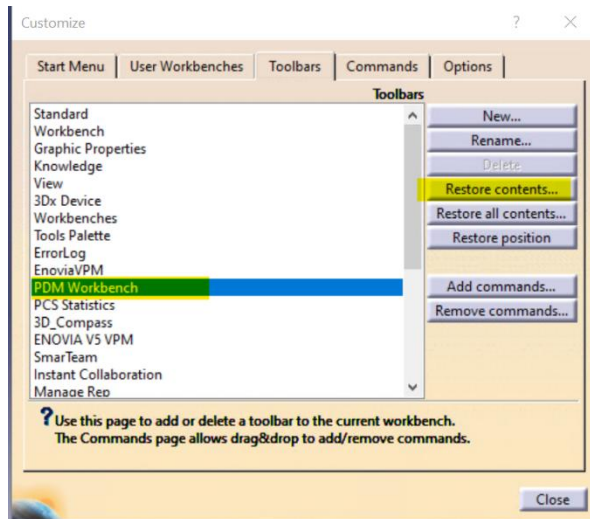
It is possible to use a fly-out toolbar icon for the PWB login / logout command.

To activate the fly-out command activate the following setting in the PWBSchema.xml file:

```
<setting name="UseFlyoutLogoutCmd" value="true" /> <!-- Default value is "false" -->
```

If the user does not see the flyout logout command because he has customized the PWB toolbar, it is possible to use the command:

Tools->Customize->Toolbars->Restore contents for "PDM Workbench"



Picture 1: Restore contents for "PDM Workbench"

Possibility to use CATIA User-Defined Properties in Autaname and PreProcDlgAttrs Custom Methods

It is possible to use user-defined properties in the autoname method and the customization method defined by the setting 'CustomMethod_PreProcCreDlgAttrs'.

Here is how to retrieve them in the autoname method (Pwb_Sample_AutanameMethod):

```
// Standard CATIA Properties
Item CadStdPropsItem = this.getPropertyItem("CadStdProps");
IDictionary<string, string> CadStdPropsDict = null;
if (CadStdPropsItem != null)
{
    CadStdPropsDict =
        PwbServerApiObj.DialogAttrsItemToDictionary(
            CadStdPropsItem);
}

// NEW: User-defined CATIA Properties
Item CadUserDefPropsItem = this.getPropertyItem("CadUserDefProps");
IDictionary<string, string> CadUserDefPropsDict = null;
if (CadUserDefPropsItem != null)
{
    CadUserDefPropsDict =
        PwbServerApiObj.DialogAttrsItemToDictionary(
            CadUserDefPropsItem);
}
```

Here is how to retrieve them in Pwb_Sample_PreProcDlgAttrs:

```
// CATIA user-defined properties
IDictionary<string, string> CatiaUserDefPropsDict = null;
Item CatiaUserDefPropsItem =
    this.getPropertyItem("CadUserDefProps");
if (CatiaUserDefPropsItem != null)
```

```
{
  CatiaUserDefPropsDict =
    PwbServerApiObj.DialogAttrsItemToDictionary(
      CatiaUserDefPropsItem);
}
if (CatiaUserDefPropsDict != null)
{
  foreach (KeyValuePair<string, string> Attribute in CatiaUserDefPropsDict)
  {
    PwbServerApiObj.Log(
      "CATIA user-defined property '" + Attribute.Key +
      "'/'" + Attribute.Value + "'");
  }
}
```

CHAPTER 3

Data Model Changes

The following data model changes are introduced in this release of the PDM Workbench.

Changed Forms

Added Forms

Added ItemType

Added LifeCycle

Added RelationshipTypes

Changed Client Methods

Added Client Methods

Changed Server Method

Added Server Methods

CHAPTER 4

Bug Fixes

Version 20.0.1

- Renamed Instances not received in PostProcUpdate
- Deleted structure in CATIA does not always delete CAD Structure in Aras
- CustomMethod_GetCustomItemInfo is only called for expand
- Issue when replacing a CGR in a product
- Restrict PSN Node Consistency check to CATPart and CATProduct
- Cannot update Aras Part in CATIA
- Change message type of 'PWBMessageUtil::NoUpdateOnlyReadOnlyFilesInformation' from information to warning.
- Save issue: Save fails when change window but process result shows success.

Version 20.0.2

- Fixed issue where inertia values were not updated when the center of gravity as on one of the principal axes.
- Fixed the issue where, if a dynamic dialog used "Query for existing Part" as first corresponding Part action, the query dialog was not directly opened with the create dialog for the CAD.
- Fixed the issue where the error was not shown to the user when a custom method returned a SOAP error.
- Performance improvement in CAD Structure mode: When using claim / unclaim for multiple CADs from CATIA with attribute mapping from Part to CAD or with CadTreeIconInfoUsePartInfo=true, PWB used a separate expand for "Part CAD" (left to right) from each CAD instead of using the setbased method. This is fixed now.

Version 20.0.3

- Cannot create a CGR under an existing CATProduct
- Change message type of 'PWBMessageUtil.NoUpdateOnlyReadOnlyFiles' from information to warning.

-
- CustomMethod_SaveUsedMaterials does not provide different message types to user.
 - Update after "Duplicate Structure" with drawing causes Warning 1304.
 - Update: show node with invalid representation type.
 - Close window directly after pressing save