



# **PDM Workbench**

## **PDM Workbench NX Release 17.0.1 for Aras Innovator**

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### **Release Notes**

Version 1



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# Preface

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## About this Document

This document provides general release information for the PDM Workbench.

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## Related Documents

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

Manual Title	Version
<i>PDM Workbench Installation &amp; Administration Manual</i>	17.0
<i>PDM Workbench User Manual</i>	17.0

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## 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

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### Supported Platforms

NX 1926, 1953, 2206.

Other versions on request.

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 27	Windows Server 2019, Windows Server 2016, Windows Server 2012

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# CHAPTER 2

## Functional Changes

### CAD is master for instances

The PDM Workbench NX manages instance information in PDM (position, instance name, number of instances). It stores all instance information in PDM. Every instance is represented by a CAD Instance item, which is related to the corresponding CAD Structure/ Structure relation.

The “UseCadIsMaster” configuration determines, whether the CAD structure information is taken from PDM or from the CAD file during load.

In case of an active “UseCadIsMaster” configuration, the instance information from PDM is ignored.

Nevertheless, the instance information is always written to PDM during update.

The difference is that the PDM Workbench NX load process is not depending on the correct, or even existing, instance information in the CAD structure to be loaded.

### Configuration

The server setting “UseCadIsMaster” has to be defined and set to “true” to enable the new behavior.

### Part Family and Standard Part support

The PDM Workbench NX now supports part families.

NX Part Families templates are used to store and manage alternatives of a parametrized model given in an NX Part.

Whenever a Part Family template is stored in PDM, all related alternatives are created in PDM, too.

The Part Family template is represented in PDM as /CAD/Mechanical/Partfamily item. The Part Family alternatives are represented as /CAD/Mechanical/Component items.

All operations (lock, unlock, promote or revise) concerning the part family alternatives need to be performed through the family template.

Type	PDM Object Type	Is Assembly	Has Drawing	Has 3D File	Doc. Number	Major Rev.	Generation Name	State	Description	Created on	Modified on	Created by ID	Modified by ID	Locked by
Family_Template	Family_Template	0	0	1	Family_Template	A	1	Released		2023-07-14T11:43:07	2023-07-14T11:46:10	Innovator Admin	Innovator Admin	
Alternative_1	Alternative_1	0	0	1	Alternative_1	A	1	Released		2023-07-14T11:43:07	2023-07-14T11:46:10	Innovator Admin	Innovator Admin	
Alternative_3	Alternative_3	0	0	1	Alternative_3	A	1	Released		2023-07-14T11:43:08	2023-07-14T11:46:10	Innovator Admin	Innovator Admin	
Alternative_2	Alternative_2	0	0	1	Alternative_2	A	1	Released		2023-07-14T11:43:07	2023-07-14T11:46:10	Innovator Admin	Innovator Admin	



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# CHAPTER 3

## Environment and Configuration Variables

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### Server-side Configuration Variables

**UseCadIsMaster:** true | false.

The configuration determines whether the Workbench handles the CAD as master for instances.

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### Variables PWBSchema file configuration

The /CAD/Mechanical/Partfamily item must be mentioned within the schema file.

```
<object name="/CAD/Mechanical/Partfamily" displayName="Family  
Template" icon="FamilyTemplate"> ...
```

Moreover the /Part/Standard item is requested in the schema file.

```
<object name="/Part/Standard" displayName="Standard  
Part" icon="StandardPart">...
```



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# CHAPTER 4

## Data Model Changes

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

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### Data Model Extensions

The Data Model needs to be extended by new classifications for the family template (/CAD/Mechanical/Partfamily) and the relation between family template and its alternatives (/CAD Structure/Family).



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# CHAPTER 5

## Bug Fixes

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### 17.0.1

- Revise subcomponent through assembly navigator context menu does update revision number always correctly in cache.
- Update error in assembly after having created new version of subpart outside from assembly context is fixed.
- Reopening NX file (during load process) opens new window now and keeps current file window.
- Improved output of pdm messages from update process.
- Add Component - select unexpanded part as component to add does now work.
- Update simple assembly with reconnect - reconnected item is now always renamed correctly in CAD.
- Update not modified assemblies if “current” child differs from “as saved” child is now offered using update dialog.
- Try to add component, which is already loaded as previous (uncurrent) generation, gives back error message.
- After update error NX parts should nevertheless be uploaded to PDM.
- Update simple assembly with new component to reconnect should not be performed, if reconnected version of new component is already part of assembly structure. Error message is given back in this case.
- Update simple assembly with reconnect - reconnected item is not renamed correctly in CAD.
- Update assembly, loaded as “current” containing CAD Structure/ Reference and CD Structure/Structure link to uncurrent subcomponent now updates both links to the current generation of subcomponent.
- Update transformation matrix to PDM is now done correctly.
- Update assembly with child, which has previously been revised outside assembly context no longer leads to an error.
- Performing revise on uncurrent generation of CAD Document updates relations only after successful revise.

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# CHAPTER 6

## Restrictions

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### Part BOM mode

The Part BOM mode is not supported for this release. It will be provided in an upcoming patch.

Server setting *UseBomPartStructure* must be set to “false”