

In Context Editor 2020

Release Notes

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This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

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Chapter 1: Supported platforms

Microsoft Windows operating systems 64 bit versions for Factory 2020

- Windows 10 (64-bit only) (version 1803 or higher)
- Windows 8.1 with Update KB2919355 (64-bit only)
- Windows 7 SP1 Update KB4019990 (64-bit only)

Note

Release 2020 does not support 32-bit operating systems.

Autodesk packages, as supported by Autodesk on the underlying operating system

- AutoCAD 2019 and 2020
- AutoCAD Architecture 2019 and 2020
- AutoCAD MEP 2019 and 2020

If you run the software on an unsupported platform and encounter a problem, and the problem can be duplicated on a supported platform, we will work to fix the problem on the supported platform. A fix developed for a supported platform might resolve a problem on an unsupported platform. However, we may not work on resolving problems that do not occur on supported platforms.

Teamcenter database versions

- Teamcenter 10.1
- Teamcenter 11.2
- Teamcenter 12.1

Software licensing

The Siemens PLM Software ICE application requires a license file for operation. Siemens PLM Software provides a license file when the software is purchased.

To enable sharing of a license among multiple machines, a license can be served over a network by Siemens PLM license server software. Siemens PLM license server software for Microsoft Windows platforms is included on the product DVD or available for download from the Customer Support (GTAC) Web site: <http://www.siemens.com/gtac>.

Online User Guide (Help)

Online User Guide (Help) are provided in Microsoft compressed HTML (CHM) help format. The CHM files are installed with the application software.

If the application software is installed somewhere other than the local file system, the CHM files may not be viewable. Microsoft security measures usually disable the viewing of CHM files over a network. Workarounds to enable full CHM functionality over a network are described in the Microsoft knowledge base article posted at <http://support.microsoft.com/kb/896358/>.

Chapter 2: Changes from ICE 2019 to 2020

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2020, AutoCAD MEP 2020, and AutoCAD Architecture 2020.
- Dropped support for AutoCAD 2018, AutoCAD MEP 2018, and AutoCAD Architecture 2018.

Teamcenter support

- Included AutoCAD Foundation version 12.1.
- Added support for Teamcenter 12.1 SOA Libraries.

Language support

- Command automatically loads menus and ribbons and sets trusted paths. Previously this was installed in a language specific location.
- ICE command can now be run for AutoCAD that is installed in any language.

Deployment Center Support

- AutoCAD and ICE Templates can now be deployed using the Teamcenter Deployment Center.
- You should have Deployment Center 2.1 and later for the support of installation of ICE and AutoCAD features.
- Deployment Center is supported for Teamcenter 11.4 and later releases.

JT Enhancements

- Performance
 - o Improved performance on JT File Import when using Decimation.
- JT File Version Support.
 - o Read up to JT 10.3 format.
 - o Export up to JT 10.2 format.
 - o Default value is set to JT 10.1 to ensure compatibility with other applications.

Chapter 3: Changes from ICE 2018 to 2019

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2019, AutoCAD MEP 2019, and AutoCAD Architecture 2019.
- Dropped support for AutoCAD 2017, AutoCAD MEP 2017, and AutoCAD Architecture 2017.

Teamcenter support

- Updated AutoCAD_Template_11.2 to AutoCAD Foundation version 11.6.
- Added support for Teamcenter 11.2.3 SOA Libraries.
- Added ability to specify FMS_HOME in the TcAPIConfig.xml file. This setting will take precedence over System and User environment variables.

```
<Setting name="FMS HOME" value="TC_ROOT\tccs"/>
```

ICE usability

- Enabled double click to set Default BOM Line.
- When using ICE along with FactoryCAD, the Object Creation Units and Dialog Display Units can now be set in the ICE template file or automatically defined using settings in the FactoryConfig.xml file.

Local project support

- Added ability for users to import a local project created outside of Teamcenter for use in the Teamcenter environment.

Publish behavior

- Added setting to the IceConfig.xml to allow specification of whether or not checkout of unmodified BOM lines in the hierarchy is cancelled on publish.

```
<Setting name="Cancel checkout on publish for any unmodified BOM Lines [True/False]" value="False"/>
```

Reposition BOM line base point

- Included the ability to select the base point for translations and rotations or use the current insertion point allowing users to more precisely position BOM lines.

Project list load performance

- Implemented new query to improved performance of loading the ICE Project List.

Occurrence layers

- Added ability to reassign BOM Line layer of a specific occurrence using value from an Occurrence Note in Teamcenter.
 - o Enables instancing of DWG where different layers are required.
 - o Requires update of ICE template in Teamcenter to version supplied with ICE V2019 or later.
 - o To enable the new functionality, a setting has been added to the IceConfig.xml file:
 - `<Setting name="Use Occurrence Layers [True/False]" value="False"/>`
 - If the setting is not available, the default value is "False".
 - If the value is "True", then Occurrence Layers will be displayed in ICE and utilized when Exporting Project to Single Drawing.
- Since Occurrence Layer is stored as an Occurrence Note, modification of the Occurrence Layer is possible even if the BOM Line and its parent are released.

Export project to single drawing (ICETOACAD)

- Enables export (one-way) of ICE projects to a single DWG file for use in environments without an ICE installation. Export project to single drawing includes support for Occurrence Layers.

Direct Model (JT) Import

- A status indicator has been added for JT import (block and XML). The progress meter is displayed in the AutoCAD status bar during the import process.



Chapter 4: Changes from ICE 2017 to 2018

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2018, AutoCAD MEP 2018, and AutoCAD Architecture 2018.
- Dropped support for AutoCAD 2016, AutoCAD MEP 2016, and AutoCAD Architecture 2016.

Teamcenter support

- Updated AutoCAD_Template_11.2 to AutoCAD Foundation version 11.5.
- Added ability for users to view and change the Teamcenter user group or role without logging off.
- **PREVIEW** Added ability for users to convert a local project created outside of Teamcenter for use in the Teamcenter environment. Users may also create a new ICE project containing the data.

This functionality is available using a manual setting in the IceConfig.xml File.

```
<Setting name="Enable Import Local project to Teamcenter [True/False]" value="False"/>
```

If the setting is not available, the default value is "False"

If the value is "True", the button in the project UI is enabled.

ICE usability

- The Teamcenter external display names for Item Types are now used in the ICE Project Palette and when creating new BOM Lines.

Dataset Naming Conventions

- Added ability to define the dataset name separator used when creating datasets from ICE.

ICE Performance

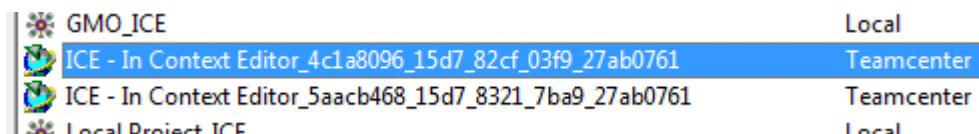
- Included setting to enable/disable Object Filtering.

Known Issues

- When using **Send data to ICE - In Context Editor** functionality, you may see improper ICE projects names, depending on the version of Teamcenter you are using.

All functionality works properly, even if your project is assigned a random name such as what is shown.

This behavior is seen in Teamcenter 11.2.x versions but not in Teamcenter 11.2.0.



GMO_ICE	Local
ICE - In Context Editor_4c1a8096_15d7_82cf_03f9_27ab0761	Teamcenter
ICE - In Context Editor_5aacb468_15d7_8321_7ba9_27ab0761	Teamcenter
Local Project ICE	Local

Chapter 5: Changes from ICE 2016 to 2017

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2017, AutoCAD MEP 2017, and AutoCAD Architecture 2017.
- Dropped support for AutoCAD 2015, AutoCAD MEP 2015, and AutoCAD Architecture 2015.

Teamcenter support

- Added support for Teamcenter 11.2.

Windows support

- Added support for Windows 10.

Tecnomatix Community

- Link to the Tecnomatix Community Support site added to the Help menu.
Click **ICE** tab→**Tecnomatix Community**.

File Load Performance

- When using ICE along with FactoryCAD, enhanced menu loading to improve performance and prevent unloading and reloading of Factory menus when switching between files. Once the Factory menus are loaded in the session they will remain loaded until AutoCAD is closed.

Direct Model (JT) export

- Translation of AutoCAD mtext is now supported for all font types.

BOM line operations

- Improved refresh of ICE projects to reflect changes when multiple users are working on the same ICE project.

Chapter 6: Changes from ICE 2015 to 2016

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2016, AutoCAD MEP 2016, and AutoCAD Architecture 2016.
- Dropped support for AutoCAD 2014, AutoCAD MEP 2014, and AutoCAD Architecture 2014.

Installation related

- Enhanced uninstall routine to also remove common files when both In Context Editor and FactoryCAD/FactoryFLOW are uninstalled.
- Moved product version and other information to the Product Details dialog box, and added other information. To display the dialog box, do the following:

Click **ICE** tab→**In Context Editor** group→**About**  and then in the **About In Context Editor** dialog box click **More Information**.

Teamcenter search

- Added ability from within ICE when creating ICE projects to search for Teamcenter item revisions and Teamcenter BOM lines.
- Pressing the Enter key performs the search.
- For search results that exceed the number of displayed rows, added **Display page n of nnn** capability.

Path navigation in Create Project, Add and Import BOM line dialog boxes

- Added the ability to manually enter a path.
- Added support for shared locations in the path.
- Reduced the size of the expanded **Look In** list.

Teamcenter resource dialog box usability for Add and Import BOM line routines

- **Revision** and **Attachment Name** values are now automatically populated when an xref drawing is not located.
- Add the ability to deselect a file.

ICE layer save behavior

- Added setting to allow specification of whether or not unused layers are discarded upon publish.

Direct Model (JT) export

- Provide support for exporting to JT versions 9.0, 9.5, and 10.1.

Chapter 7: Changes from ICE 2014 to 2015

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2015, AutoCAD MEP 2015, and AutoCAD Architecture 2015.
- Dropped support for AutoCAD 2013, AutoCAD MEP 2013, and AutoCAD Architecture 2013.

Data notifications

- Improved notifications and options regarding missing data, including:
 - o An option to locate missing files when a drawing file is missing for an imported structure
 - o An option to create a placeholder BOM line when a dataset is missing for an imported structure
 - o Notification of unpublished BOM lines when closing an ICE project while in a connected mode, with an option to cancel the close operation.

Create Project and Add BOM line

- Added ability from within ICE to create ICE Projects from Teamcenter item revisions and to add Teamcenter BOM lines.

Notes:

Chapter 8: Changes from ICE 2013 to 2014

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2014, AutoCAD MEP 2014, and AutoCAD Architecture 2014.
- Dropped support for AutoCAD 2012, AutoCAD MEP 2012, and AutoCAD Architecture 2012.

Teamcenter support

- Added support for Teamcenter 10.1.

Translation to JT

- Added a new capability to display a message during translation of drawing files to JT if the translator encounters objects that exceed range limits, such as an infinite line. The translator creates a log of such out of range objects. To configure the new capability, two new settings can be added to the **TransToJtConfig.xml** file:
 - o Setting name="Out Of Range Objects Show Popup Message [True/False]"
 - o Setting name="Out Of Range Objects Log File Path"

Recognition of layer property changes

While an ICE project is open in AutoCAD, ICE now marks checked-out BOM line drawings as modified if the BOM line drawing contains objects that are inserted on a layer whose properties are modified. The changed layer properties are saved in the BOM line drawing when the drawing is published.

Notes:

Chapter 9: Changes from ICE 16 to 2013

Autodesk® CAD software version compatibility

- Added support for AutoCAD 2013, AutoCAD MEP 2013, and AutoCAD Architecture 2013.
- Dropped support for AutoCAD 2011, AutoCAD MEP 2011, and AutoCAD Architecture 2011.

Teamcenter support

- Added support for Teamcenter 9.1.
- Dropped support for AIWS as transport protocol between Teamcenter and In Context Editor.

New ribbon tab

- Added new tab for ICE commands to the AutoCAD ribbon. All commands available in the ICE toolbar and menu are now available in the ribbon.

ICE configuration file

- Changed the shipped MSEXcel revise type relation from `IMAN_specification` to `IMAN_reference`.
- Included project list filter settings provided with ICE 16 hot fix.

```
<Setting name="Project List Time Filter [LastModified/DateCreated/None]" value="DateCreated"/>
```

```
<Setting name="Project List Time Filter Days [Any Valid Integer]" value="90"/>
```

- Added new FilterObjects section.
- Added JT simplification setting for new type - Visibility Sphere.

Classifications

- Added ability to search layout tabs for the block used for Classifications, and to specify the default layout tab name to search first.

The capability depends on a new **DefaultLayoutTab** attribute in the **DataFromDwg** configuration file setting.

```
<Setting name="DataFromDwg [Block/FileName]" value="Block" DefaultLayoutTab="/>
```

ICE now searches for classification blocks in the following order:

1. If the **DefaultLayoutTab** attribute contains the name of an existing layout tab, the search looks in this layout first.

2. If the **DefaultLayoutTab** attribute is missing, has an empty value, or contains a name of a layout that does not exist, or if the default layout tab does not contain the block, the search for the block is performed in the Model space.
3. If the block is not found in Model space, then the search is performed in all the layout tabs in the order of their creation until a block with the given name is found.

Layouts

- Improved handling of BOM line checkout and modification status relative to changes made in layout tabs.
- Added capability to zoom to entities in layout tabs with the **Zoom To Entity** command.
- Added command to create a new layout tab for the current BOM line.
- Added command to generate PDF files from layout tabs.
- Added configuration file option to automatically update PDF files of layout tabs upon publishing a BOM line.

BOM line operations

- Improved performance of loading and publishing large structures.
- Improved performance of publishing selected BOM lines.
- **Publish BOM Line Hierarchy** – Added new command to publish a selected BOM line and all of its children. Child BOM lines do not have to be individually selected. The new command replaces Publish All. The Publish All functionality can be accomplished by selecting the top node and then choosing Publish BOM Line Hierarchy.
The new command appears on the context (right-click) menu for a BOM line.
- **Publish BOM Line Hierarchy and Release** – Added new command to publish and release a selected BOM line and all of its children. The new command replaces Publish All and Release.

BOM line filtering for Teamcenter projects

Added the ability to filter out Item Revisions and datasets present in Teamcenter that are not wanted in ICE. Filtering is set up by new entries in the ICE configuration file. Exclusions based on Item Revision Type can be limited to specified occurrence types of the Item Revision Type.

- `Item Revision Types to Exclude their sub hierarchy Sub Hierarchy in ICE`
If the Teamcenter structure includes a specified Item Revision type, anything below the specified Item Revision type is not displayed in the ICE structure.
- `Item Revision Types to Exclude along with their sub hierarchy With Hierarchy in ICE`
If the Teamcenter structure includes a specified Item Revision type, the Item Revision type and anything below it is not displayed in the ICE structure.
- `Dataset Types to Exclude their Item Revision's sub hierarchy in ICE`

If the Teamcenter structure includes an Item Revision that contains a specified dataset type, anything below that Item Revision is not displayed in the ICE structure.

- Item Revision Types to Exclude their JT dataset Geometry in Hybrid Mode in ICE

If the Teamcenter structure includes a specified Item Revision type, the Direct Model dataset associated with the Item Revision is not displayed in ICE even when Hybrid mode is turned on.

When an item type is configured for exclusion, and a user selects in Teamcenter an item type that inherits the configured item type, the item type that inherits the configured item type will not show up in ICE.

Notes:

Chapter 10: Global technical access center (GTAC)

To report any serious problems regarding the software, please contact Global Technical Access Center.

Phone:

- USA and Canada: 800-955-0000 or 714-952-5444
- Outside the United States and Canada: Contact your local support office.

Website:

You can log incident reports and view any existing resolutions for incident reports on the Web at <https://support.industrysoftware.automation.siemens.com/gtac.shtml>.

Notes:

Chapter 11: Siemens PLM Community

The Siemens PLM Community for FactoryCAD, FactoryFLOW, and In Context Editor are available at <http://community.plm.automation.siemens.com/t5/General-Tecnomatix-Forum/bd-p/tecnomatix-forum>. The Tecnomatix Community (Siemens PLM Community for FactoryCAD, FactoryFLOW, and In Context Editor) is also available through the **Factory Layout Software Help**.

Note

A webkey and password are required to log on to the forum. Licensed users can get WebKey support at <http://www.siemens.com/plm/support>.

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About Siemens PLM Software

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