



What's New  
CADWorx 2017

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## CADWorx Plant 2017

- You can create and display graphic overlays on couplings. Create a graphic of a coupling in AutoCAD or CADWorx, and then click **Graphics Overlay Editor** to create the overlay. You can also create the overlay by setting the **Subdirectory**, **Drawing Name**, and the **Rotation about the X-Axis** in the **Couplings** data table in the Specification Editor. For more information, see the *CADWorx Plant User's Guide* and the *CADWorx Specification User's Guide*.
- You can create user shapes with multiple reductions. Create a user shape that contains multiple reductions, and then click **Create**. Fill in the information as needed, select **Reducing**, and then choose a size. When you click **Select 3D Solid** and select the shape, the software prompts you to select an insertion point. Select the insertion point, and then click **Define Connections**. Define each connection on the user shape. When the connection is a reduction, select **Reduction** when prompted. Press ENTER when finished, and then set the **Size** and **End Type** for each **Connection**. Click **OK** to create the multiple reduction.
- You can assign bolts and gaskets to user shapes with the **Applicable Bolts** and **Applicable Gasket** options in the **Define User Shape** dialog box. For more information on configuring **Applicable Bolts** and **Applicable Gaskets** settings, see *Selection Codes* in the *CADWorx Specification Editor User's Guide*.
- You can use geometry points to create user shapes. For more information, see *User Shapes* in the *CADWorx Plant User's Guide*.
- You can place a backing flange on a user shape when the user shape contains a stub end flange. For more information, see *User Shapes* in the *CADWorx Plant User's Guide*.
- You can assign selection codes to generic nozzles. For more information on configuring **Applicable Bolts** and **Applicable Gaskets** settings, see *Selection Codes* in the *CADWorx Specification Editor User's Guide*.
- Updated the branch table. Now when you do not allow a component in the branch table, and then turn on the **Apply Branch Table Rule**, then you cannot insert that component.
- You can turn updates on or off for Isogen Data in the **Apply Change Data Rule**.
- You can now set Isogen to use the Systems PCF in the configuration file using the **IsogenUseSystemsPcf** variable.
- You can now set Isogen to show the bottom of pipe elevation using the **IsogenShowBOPElevation** variable.
- Enhanced the **Create Assembly** functionality in the **Pipe Support Modeler palette**. You can enter decimal values without the zero. The software warns you when you switch to a drawing while working on a pipe support, and allows you to cancel the work and switch to the other drawing. The **Group Name** allows you to enter any length for the name.
- Updated and enhanced the **Apply Gasket Insertion Rule** and the **Apply Bolt Insertion Rule** to include clamp components for automatic insertion of bolts and gaskets.
- Updated insulation on elbows. When you insert an elbow and place insulation on that elbow, the actual insulation thickness now displays.
- You can export Sanitary U-Bend components to Isogen.
- Unions with threaded engagement end types display the length from the **LEN** column in the union data table in the Specification Editor when you insert those components in the model space.
- CADWorx Plant now supports the latest version of CAESAR II.
- Enhanced custom pipe support assemblies. When you have overlapping steel components in your assembly, the software prompts you to select the member you want to cope, and then the coping boundary when you place the assembly in the model space.

- Enhanced user shapes to include elbows, side-outlet elbows, and side-outlet tees.
- You can use -1 for extruded steel components with variable lengths.
- You can select the **Ignore Coupling internal clashes** option on the **Class View > Options** dialog box to ignore coupling component connections with internal clashes.
- You can set all 255 colors for your **Compass** and **Highlight** in **CADWorx Plant Setup**.
- You can use taps in your 180 degree elbows, and they now correctly display in your isometric drawings.
- Custom fields created in the CADWorx Specification Editor now map to Isogen when you run **ISOGENOUT** on components containing custom fields. For more information, refer to the Isogen documentation delivered with I-Configure.
- CADWorx Plant now enables you to control the output of revision changes on the isometric drawing. First, you must create a **REVISION** custom user field in the CADWorx Specification Editor with the current design revision value. Then, you must set up the appropriate revision attributes in **Isogen Configuration**. Finally, you must set the **REVISION** attribute in the **ISOGENPROJECTDATASETUP** command to the revision number you want clouded on the Isogen plot. For more information, see *Revision Clouds* in the *Isometric Drawing Options Reference Guide*. You can access this document using the **Help > Printable Guides** command in **Isogen Configuration**.

## CADWorx Spec Editor 2017

- You can set the **Selection Code** for your gaskets and bolts, and then assign **Applicable Gaskets** and **Applicable Bolts** to your flange components, clamp components, flanged end-types, and clamped end-types. For more information, see *Selection Codes* in the *CADWorx Specification User's Guide*.
- You can specify an alphanumeric designator to display for your bolts using the **Bolt Designator** in the **New and Edit Component Pane**. For more information, see *New and Edit Component Pane* in the *CADWorx Specification Editor User's Guide*.
- Added the **SELECTION\_CODE\_CMP\_TBL** format in **Component Tables** list of the **Long, Short, Tag, and Part Number Format** dialog boxes and the Description Format dialog boxes. This format allows you to add the gasket and bolt selection codes to your description formats in **Gaskets** or **Bolts**.
- You can set default values for **BOM Type, Layer Name, Color Index, Topworks, Sort Sequence, Isogen Identifier, Isogen SKEY, Optional Component, Applicable Gaskets, Applicable Bolts, and Connection Settings for Start, End, Branch 1, and Branch 2** when creating a data table.
- You can set default values for **Isogen Symbol, Applicable Gaskets, Applicable Bolts, Component Class, Temperature Rating, and Pressure Rating** when creating an end type table.
- You can set default values for **BOM Type, Layer Name, Color Index, Topworks, Sort Sequence, Isogen Identifier, Isogen SKEY, Applicable Gaskets, Applicable Bolts, and Optional Component** when creating a user shape in the Specification Editor.
- You can add custom end types to the catalog and specification. Features of these custom end types include, being able to transfer the data with the **Transfer Data panel** options, disabling automatic gasket, weld, and bolt insertion for specific components, and setting the custom end types in the **Matching End Type Table**.
- Updated the **Default OTAP SKEY** from **TTSO** to **TSSO**.

- You can view your list of components in the specification by category or group using the **Spec List Mode** option in the **View** tab.
- You can view your data tables by category or group using the **Data Table List Mode** option in the **View** tab.
- You can add groups that list multiple component types to the data tables folder using the **New Group Data Table** option. You must be in **Group List Mode** to use this option. There are no restrictions to how you can define your groups.
- You can create custom end types, such as stub end end type components with the **New End Type** feature.
- You can add multiple sizes to you user shapes to create multi-reduction user shapes.
- You can add a .png or .gif with the **Image Path** option under **Picture Description** in the Properties pane of custom pipe supports, custom topworks, and user shapes.
- Updated component images in the **Specification Editor Properties** pane for **Flange Slip On, Flange Reducing Slip On, Flange Threaded, Flange Reducing Threaded, Nip-O-Let, and Strainers**.
- You can define the size of a pipe support to insert on a specific nominal pipe size with the Component Size Setup option in the **Edit pipe support assembly** pane.
- Sort order of the **Data Tables** saves with the catalog. Click the column header to sort by that column. Press SHIFT and click the column header to set a secondary sort order.
- Enhanced custom data.
  - You can change the default value of the project level custom data field individually at each specification level by typing a new value in the column in the Main Spec List View.
  - You can reset the specification level default values of the project level custom data fields after you change them when editing **Project Custom Data**.
  - You can update default values in project custom data to overwrite all values or only the values matching the original value.
  - **Project Custom Data** displays in your specification custom data.
  - Default value override is also available for pipe support libraries and assemblies.
- Enhanced the **Properties** pane. Your properties pane now stays at the same scroll location when you switch between tables under the same table folder.
- Added the **Sub Folder** option to the **Topworks** data table folder to make managing topworks easier.
- Enhanced the tool tips for the Specification Editor fields such as data tables, end types, and more. When you hover over a name that extends beyond the boundary of the window, a tool tip displays the full name of the item.
- You can create graphic overlays of your coupling components in CADWorx Plant. In the CADWorx Spec Editor, you can specify the **Subdirectory**, the drawing name (**DWGNAME**), and the rotation around the X axis (**ROTATION\_X\_AXIS**) to define the graphic overlay on your coupling component. This works in much the same way as you would define graphics for your custom topworks. You can also create graphic overlays with the **Graphics Overlay Editor** in CADWorx Plant.

## CADWorx Equipment 2017

- You can specify **Applicable Gaskets** and **Applicable Bolts** on nozzles. The software then adds the selected gaskets and bolts between the nozzle and the flanges when you connect components to the nozzle in CADWorx Plant. For more information, see the *Nozzle* topics in the *CADWorx Equipment User's Guide* and the *Selection Codes* in the *CADWorx Specification Editor User's Guide*.

## CADWorx Design Review 2017

- Supports Industry Foundation Class (.ifc) file export. You can save a drawing file out as an .ifc and then open in software like Navisworks.
- Stability and performance enhancements.
- Supports 64-bit Windows.
- Supports CADWorx Structure 2017.
- Supports CADWorx 2017.
- Supports AutoCAD 2017 Compatibility.