

# Release Highlights 2018T3

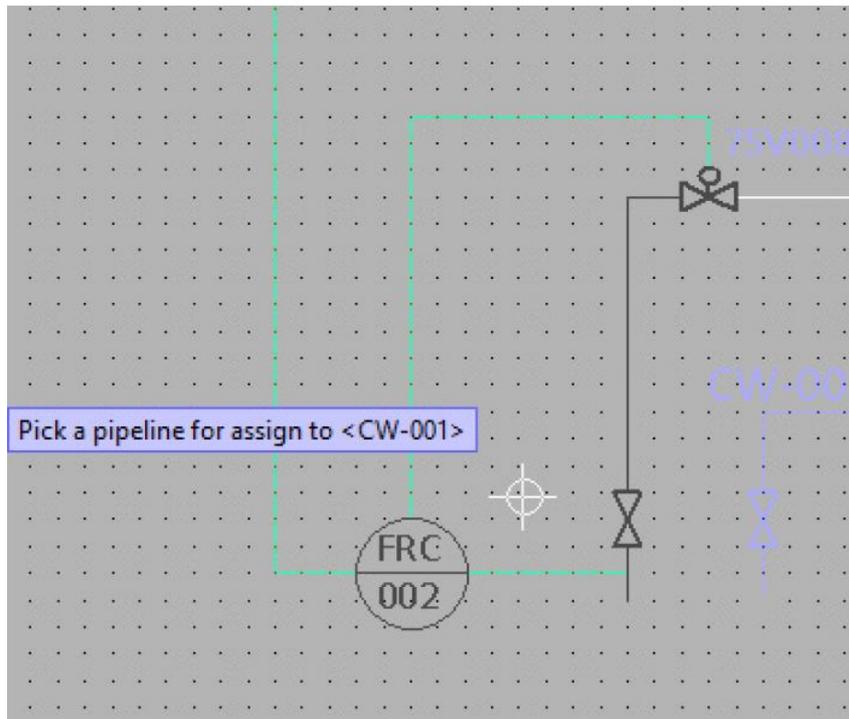
Version 2018T3 focuses on accuracy in detailed 3D design and aims to help users to speed up everyday tasks. Here is an executive summary of the main highlights:

- Additions in consistency checks and drafting in Diagram
- Instance parameters for equipment and standard components
- Inspection eBrowser-like view in Plant Modeller and possibility to visualize data about objects in 3D Plant modeler views with objects identifiers
- Assistance in inserting similar components during routing and customizable structural units
- Documentation in HTML5 format and online for Outfitting, Plant and IM products
- ECONOSTO valves catalog in example project library
- Automatic templates generation in Shell application
- Additions for Shell frames profiles, Hull Viewer and profiles cross section marking
- New navigation mode in eBrowser
- Official release of 64bit eShare app with collision detector
- Color coding for document links in eShare
- New free mobile app - FollowApp for mobile project metrics

## Diagram

### Assign pipeline to Instruments

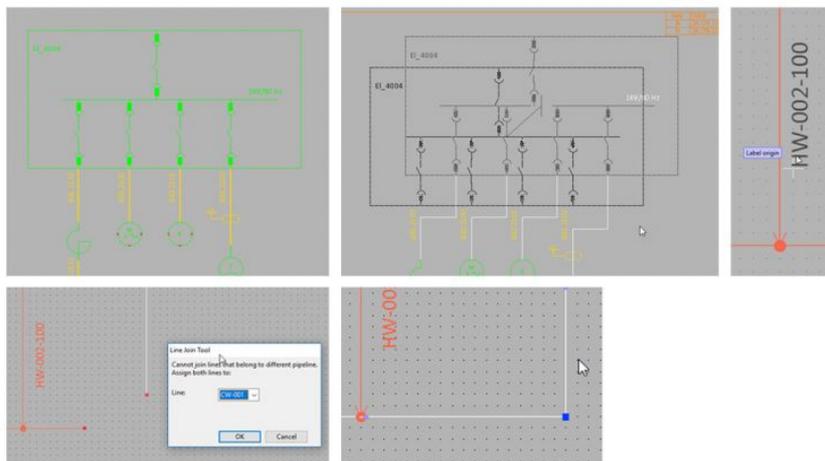
It is possible to assign pipeline information to instruments.



## Improved Drafting capabilities

Several additions to drafting in the Diagram module allow more flexibility:

- It is now possible to move custom symbols.
- Additional assistance when joining lines for easy selection lines.
- New piperun diagram labels are automatically vertical when selected piperun point is vertical.



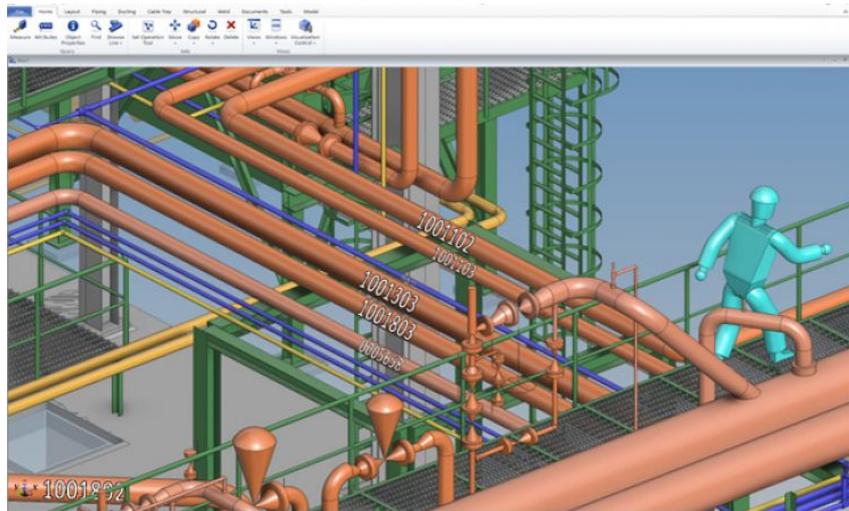

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## Outfitting & Plant Design

### Instance parameters

Instance parameters provide more flexibility for use of parametrized equipment or standard components.





### Inspection view in Plant Modeller

The new inspection view allows user to see the same model at the same time in an eBrowser-like view. The view will be updated automatically as modeling work progresses. The user can choose the navigation mode, that feels the most comfortable. The view is floating and can be placed on a second monitor, for example.

Adding objects identifiers in 3D is also possible in the inspection view, as with work views. It is convenient not only to browse the model, but also to immediately get information about the objects in a view.



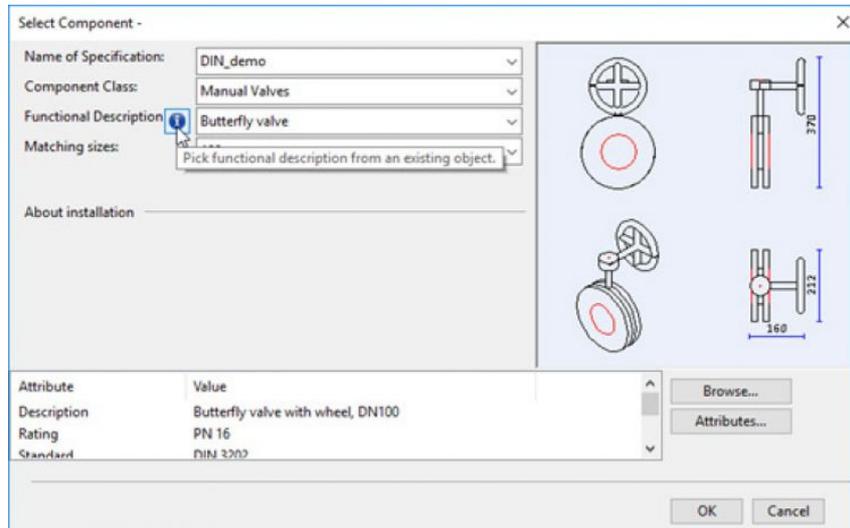
### Assistance in inserting similar standard components during model creation

While inserting standard components into the 3D model, it is now a possible to pick their properties from objects that are already in the model. For example, during modelling the user needs to insert a valve of the same type as one that is already in a nearby pipeline. Instead of stopping routing and querying the component and further searching for the same one in the specification, it is now possible with one click to pick properties of the existing component while the program searches for it in the specification of the current pipeline and adjusts it to the current situation, for example, by selecting the correct nominal size etc. The selection of the components will remain specification driven, however users can speed up their everyday work by eliminating the need to check

and search in the specification.

There is therefore no need to remember what functional types of components were used before and to stop the routing process to check it with query object.

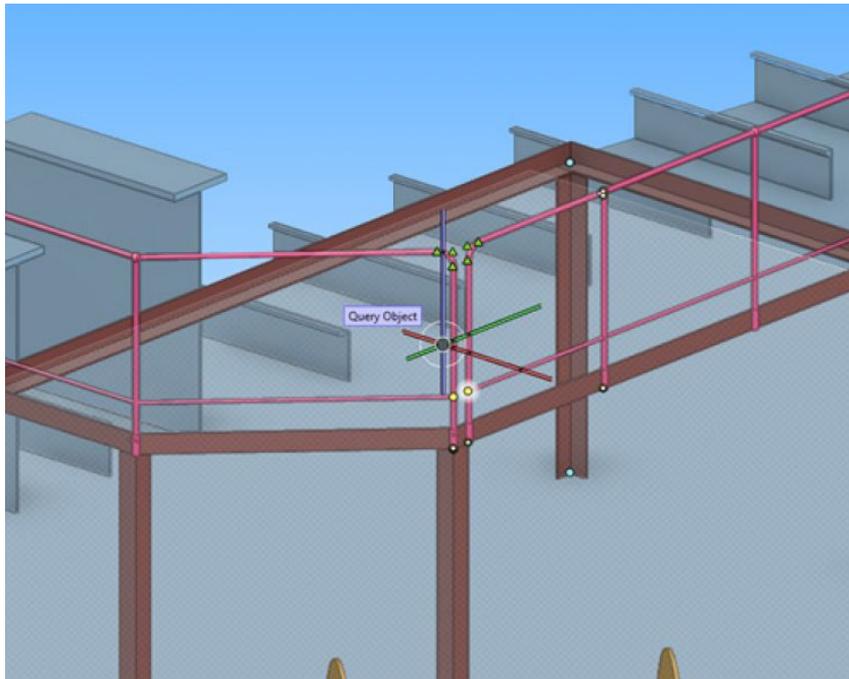
Remembering the previous functional description when inserting a new one is context sensitive and recognizes different scenarios for insert valve, insert instrument, insert without pos-ID, into-line, as outlet or onto-line etc. It is now much easier to insert primary supports when the previous selection is the default or insert similar sleeves to cut pipes or weld sockets for instruments.



## Customizable structural units

Users can extend the set of built-in templates by implementing custom templates with script programming. This allows templates for structural units to be made according to the required standard or supplier type. It requires some time for the administrator to define and set this up, but saves a significant amount of time for the every-day designer. It ensures that the correct types and parts are used for the structural units customized for the project and requires minimal input while designing in 3D.

When the script builds a structural unit, it typically prompts the designer for some run-time parameters like xyz points and directions, and fetches the static parameters, like Catalog Part Sizes, min/max values of run-time defined dimensions.



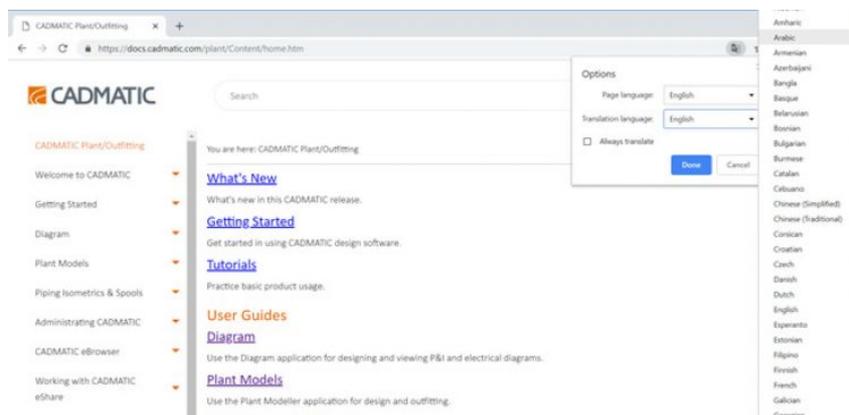
## Documentation in HTML5 format and online

Version 2018T3 includes help documentation in HTML5 format. It works the same as before and is context sensitive. The user can press F1 in any context and get documentation related to the topic at hand. It opens in the default browser. The new format provides users with more flexibility and a modern look. Optimized search results based on filters lets users search only for topics from Diagram or script documentation. Additionally, users can benefit from online translation services, such as Google Translator to get a basic translation of any part of the documentation within a split second free of charge.

Additionally, we have placed documentation online behind the following direct URLs

- <https://docs.cadmatic.com/plant>
- <https://docs.cadmatic.com/outfitting>
- <https://docs.cadmatic.com/eshare>
- <https://docs.cadmatic.com/ebrowser>

As a rule, we will keep online documentation up to date with the latest available customer release and update it with documentation on all newest features.



## ECONOSTO catalog valves in example project library

As part of our example library expansion, we have cooperated with Econosto and added a full catalog of Econosto valves to the example project library. All valves and fittings made according to dimensions include attributes and a link to the Econosto webpage. When installing version 2018T3, it is possible at the same time to install an example project that is included in the installation package and copy valves to your library for further use.

Download the eBrowser file with full license to see the complete content of the Econosto valves library.

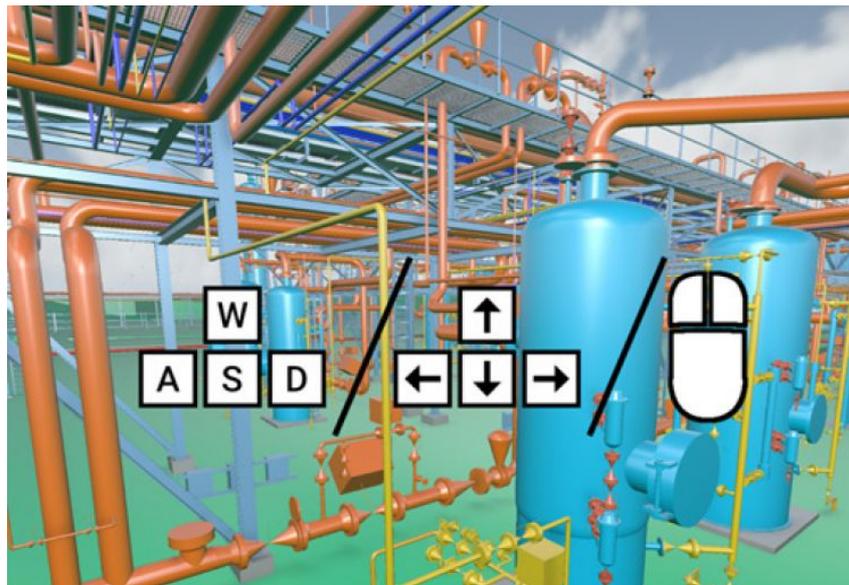
### ECONOSTO Valves



## eBrowser

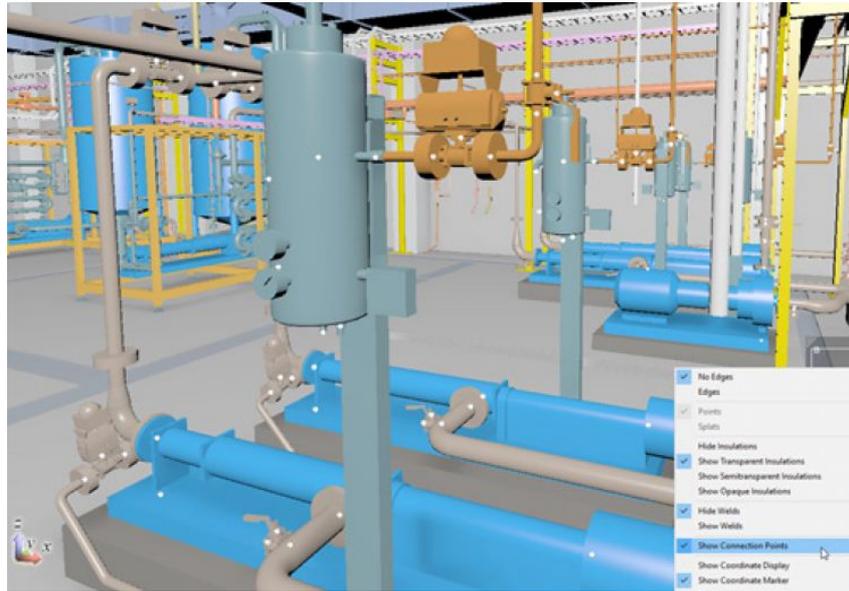
### New navigation possibilities in eBrowser – Game mode is on!

The new navigation mode allows the use of a WASD key for faster navigation. It works alongside arrows or mouse buttons. Additionally, there are several improvements for more intuitive navigation in 3D, including zooming by holding the middle button, the possibility to move in the XY-plane and improved pan navigation. By default, the new mode will be turned on in all new version installations, but if needed can be turned off in the settings.



### Equipment connection points are visible in 3D

When published with the 3D model, connection points are visible in eBrowser. It makes it easy to snap to the connection while measuring distances or checking connections with pipes. Information about connection points is available with all other equipment data when details of the object are examined.



### Additional tools for Model authoring

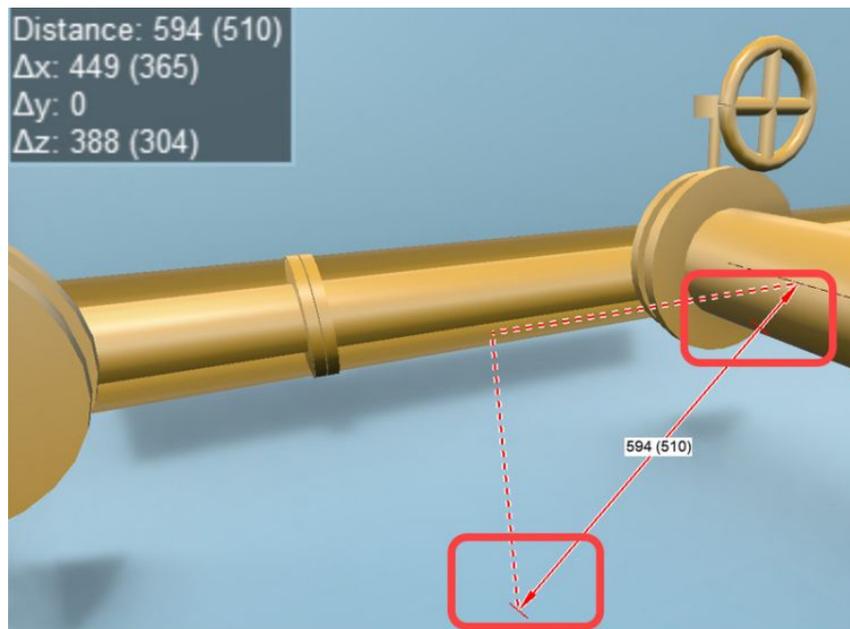
Several tools add the possibility to manage models in eBrowser and provide combined, reduced or modified models. Here is a full list of added functionalities:

- Preserve sub models separately when saving model
- Change visualization material of objects and branches of hierarchy
- Save model including only visible objects and excluding hidden objects
- Save without 3D space objects
- Save model excluding connections to node points
- Save model excluding insulation of objects

### Free distance in 3D measuring tool and more

When measuring distances in 3D, it is sometimes difficult to see where the ends are if there are obstacles between objects. Small marks at the end of the measurement arrows show where the distance is measured from and an additional mark for pipes indicates that the second value in parentheses is a distance from a pipe surface. Axis measurements (d, dx, dy, dz) are shown immediately when the measurement is done.

Other additions include coordinate axes shown in the 3D view, the possibility to ignore hidden objects in collision detection tests, the possibility to change colors and group attributes imported in IFC imports and the possibility to open 3DD files directly in eBrowser.



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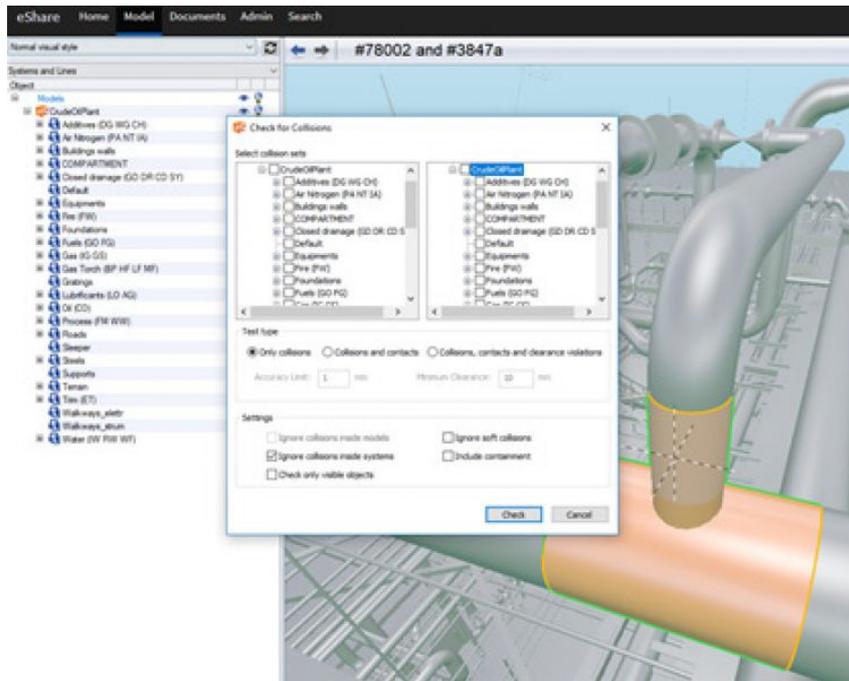
## eShare

### eShare app – tailored for large 3D models

The eShare app is now available for all users and is recommended for use for large project models, especially for projects where some parts come from another software via converted models. The CADMATIC eShare App is a 64-bit Windows application that can be installed on an eShare client computer and connected to the required eShare server. The advantages of using eShare via an application instead of a web browser include support for very large 3D models and improved 3D visualization.

### Collision detection in eShare app

A collision detection possibility has been added to the eShare app. It works the same way as in eBrowser and provides the possibility for quick clash checks or complete collision tests. This provides additional value for collision checks between imported 3D models from different suppliers or converted by eXchangers from different formats.



### Using color coding in document link highlights in eShare

More colors are now available to convert drawings into easy-to-use and active interfaces to the 3D model. Links in documents can be highlighted with different colors based on the availability of the object in the 3D model. For the most sophisticated cases, links in documents can be highlighted with different colors based on their status in the chosen status tracking. The legend on the side indicates how colors are used.



eGo

### Markups in eGo from eShare server

As the first step in implementing markups in eGo, it is now possible to load markups from eShare. A list of all the markups can be filtered and the markup itself can be viewed in 3D. The location of markup is also visible in the map.



### CADMATIC FollowApp – get project statistics to the cloud and visualize in mobile app

CADMATIC FollowApp allows stakeholders of CADMATIC design projects to view various project metrics conveniently from their phone. These metrics, which include for example the total length of pipes, total mass of pipes and pipe fittings, and number of pipelines, are automatically uploaded at scheduled times from CADMATIC Plant or CADMATIC Outfitting projects.

The metrics are stored in a cloud service provided by CADMATIC. Publishing requires a valid CADMATIC Plant or CADMATIC Outfitting license. Actual design data is not published and only authenticated users can access the service. System Administrators can control who is allowed to use the app to access the metrics of a specific design project.

