



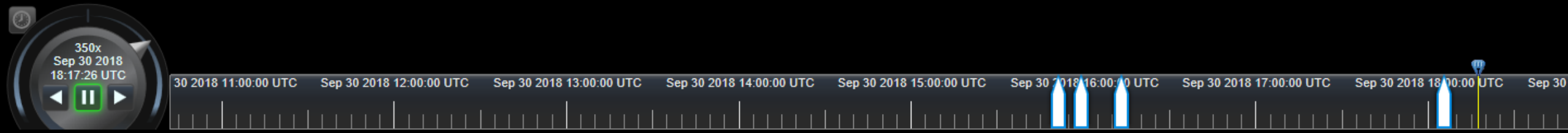
# OpenPlant Product Update

Bentley Systems

November 5th, 2018

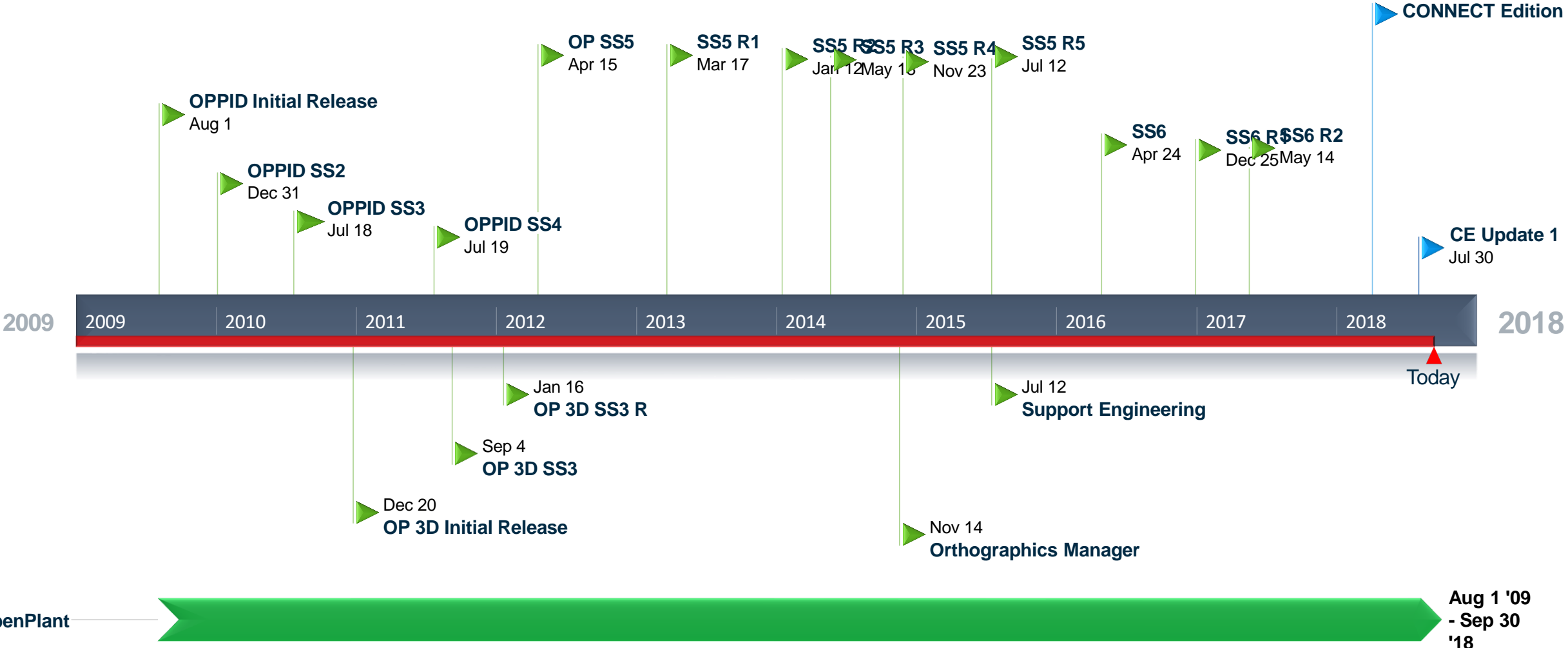






# OpenPlant Timeline

# OpenPlant Timeline

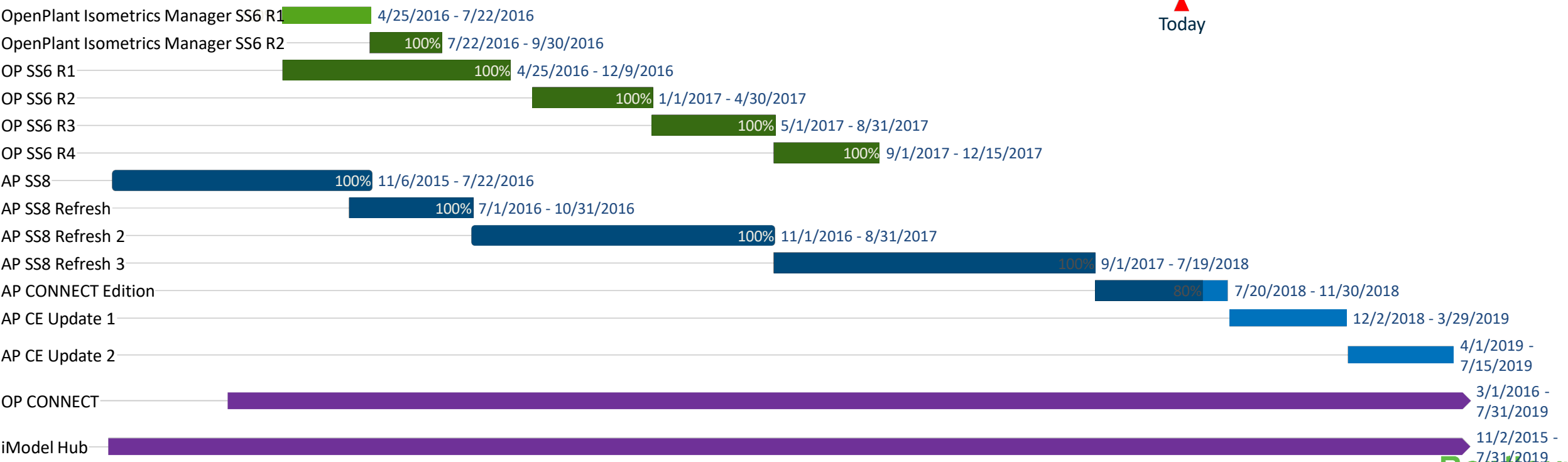
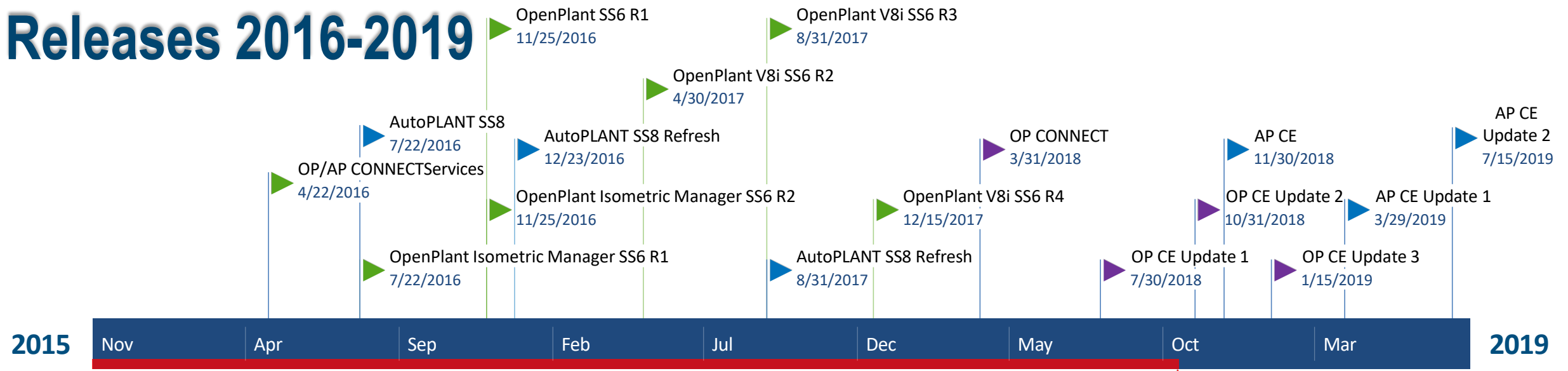


**SS: SELECTseries**  
**R: Refresh**

# Support for existing shipping products

- Regular Update Releases
  - OpenPlant CE has quarterly update releases.
  - OpenPlant V8i has as needed refresh releases and priority builds
  - AutoPLANT has planned projects through 2018
  - Scheduled feature enhancements
  - Roll-up of Defect corrections
  - Incremental improvements
- “Big Ticket” Items
  - Defined as their own project
  - To release these they are incorporated into Update releases
- Schedule Provided
  - For user guidance and planning purposes
  - Feature list subject to change at Bentley’s discretion

# Releases 2016-2019



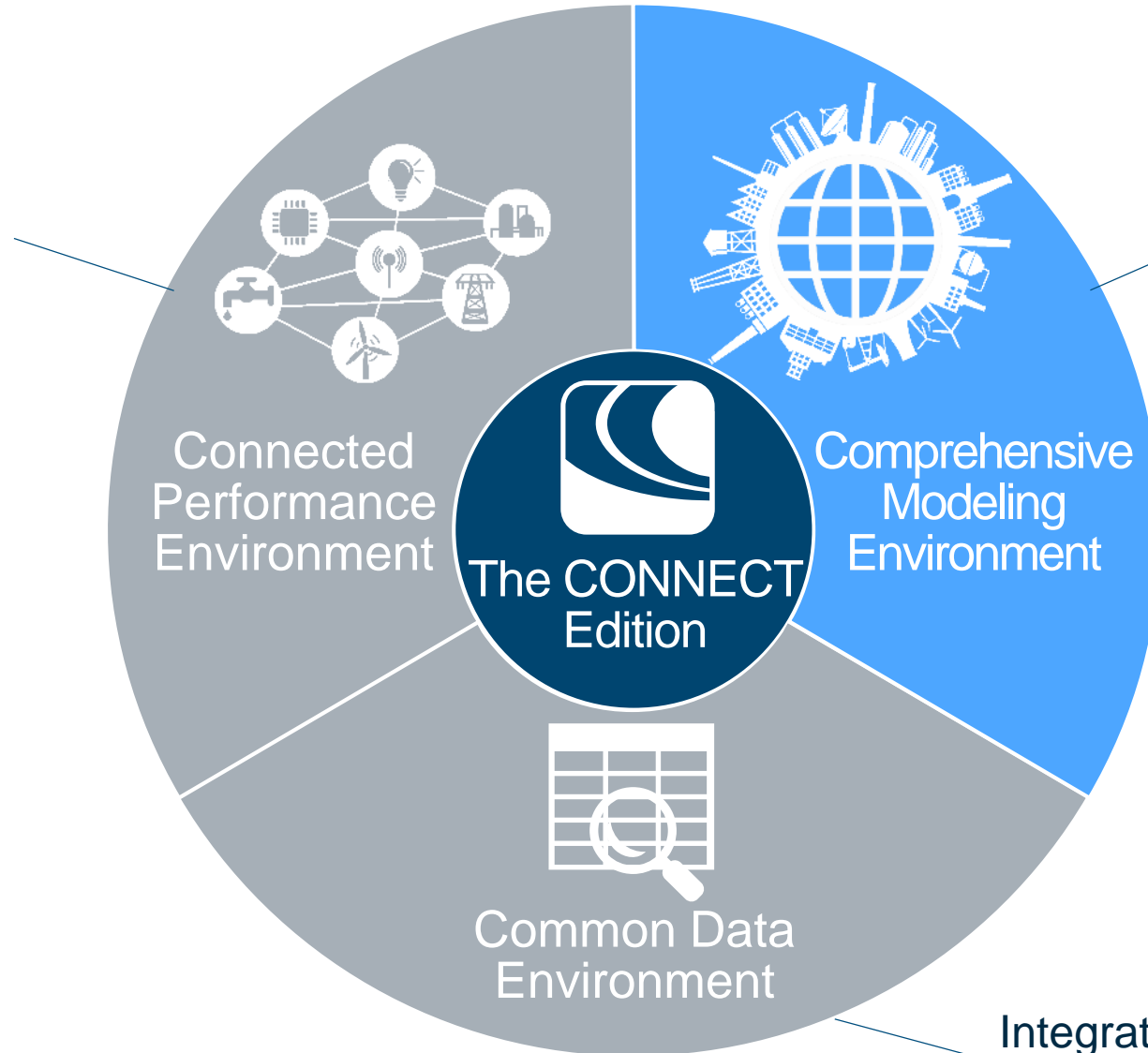


# OpenPlant

## CONNECT Edition

# Advancing Infrastructure

Improved collaboration and project visibility



Connected  
Performance  
Environment

The CONNECT  
Edition

Comprehensive  
Modeling  
Environment

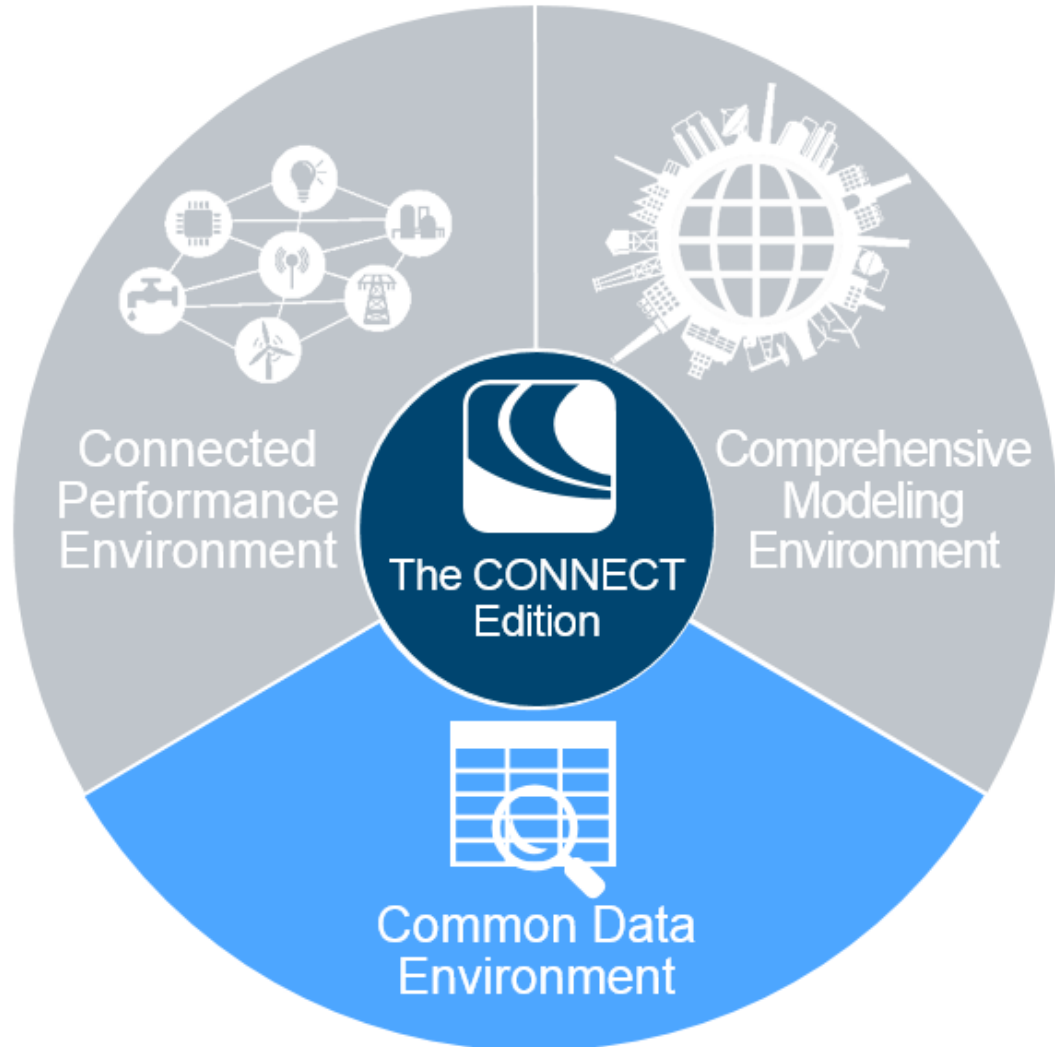
Common Data  
Environment

Model and design all  
infrastructure types

Integrate modeling and  
design applications

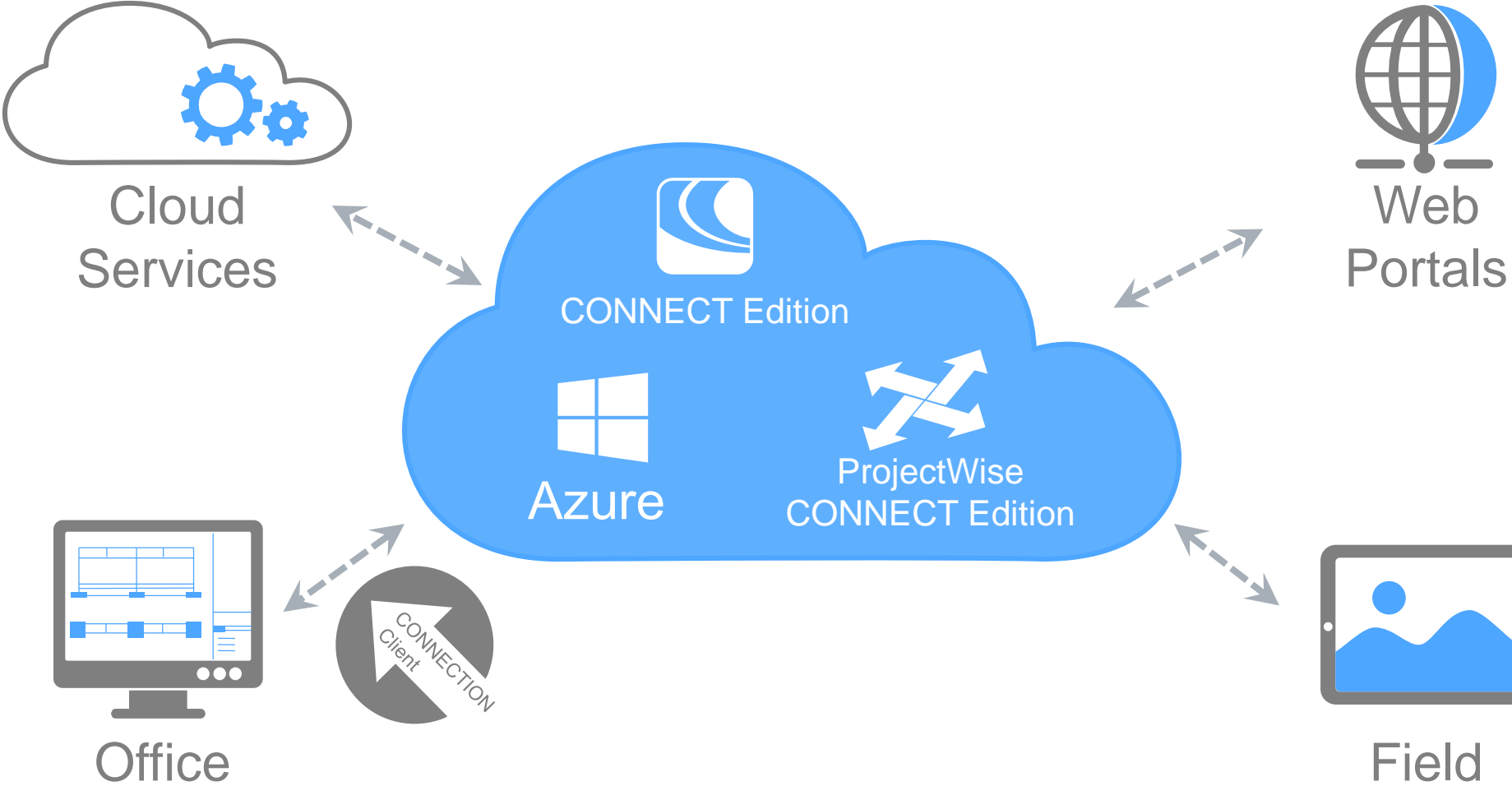


# Take Advantage of Common Data Environment



- Benefit from the exchange of data throughout the project lifecycle.
- Share models, drawings, documents and data securely and efficiently.
- Provide data access to fit-for-purpose information for each team member.
- Ensure the right data is delivered to the right place at the right time.

# Benefits of OpenPlant CONNECT Edition



# CONNECT Advisor

- Receive personalized support and learning recommendations
- Access learning, help and support directly within your design environment
- Gain better insights into product features, workflows, and best practices
- Interact with product experts
- Discover live events for professional development



# Value of CONNECT Advisor

The screenshot displays the Bentley CONNECT Advisor interface overlaid on an OpenPlant Modeller V8i window. The main window shows a 3D model of a piping system with a 'CONNECT Advisor' panel on the left containing a table of associated items and a 'Tasks' panel with a tree view of piping components. The CONNECT Advisor window features a blue slide with the following content:

## Why CONNECT Advisor?

Your one stop hub for personalized support and learning recommendations

- ✓ Continuous skills improvement
- ✓ Interact with your global community
- ✓ Adapt to the needs of your organization and industry
- ✓ Advance professional growth

Below the slide, there is a 'Show on startup' checkbox (checked) and a navigation arrow. A 'Select an item to view its properties' prompt is visible at the bottom right of the slide area.

The 'Most Recent' list on the right side of the CONNECT Advisor window includes the following articles:

- Detail sketch justification on Isometrics**  
Hello Richard. This is known limitation to allow the detail sketch dialog to place it on TOP right. Please log an SR along with relevant details to enable us to add inside Enhancement...  
January 27, 2017 13:45:00 (UTC) | Rahul Kumar
- AP OPIM - OPIM hang after run trying to generate ISO on multi...**  
Abhijit. The solution has worked as far as I am now able to produce isometrics of pulled pipe that do not contain branch connections. For Pulled Pipe containing a branch connection...  
January 27, 2017 09:54:00 (UTC) | John Poppitt
- Error Message "Loadpiping.scr Can't find the file" While Opening...**  
Applies To Product(s): AutoPLANT Piping Version(s): 08.11.XX.XXX & above  
Environment: Windows 7 (32/64 bit) & Others Area: N/A Subarea: N/A Original Author: Abhijit Bute. Bentley...  
January 27, 2017 09:45:00 (UTC) | Rajesh Agrawal
- To Define Default Value of Branch Code for Piping Component**  
Applies To Product(s): OpenPlant Modeller Version(s): 08.11.09.XXX (S55) | 08.11.11.XX (S56) Environment: Windows 7/8.1/10 (64-bit) Area: OpenPlant Modeller Specification Generator...  
January 27, 2017 09:39:00 (UTC) | Deepak Singh
- How To Show Existing Lines For Fasteners In OpenPlant Isometrics...**  
Applies To Product(s): OpenPlant Isometrics Manager Version(s): 08.11.09.440  
Environment: Windows 7 64 bit & Others Area: Settings/Attributes Subarea: -  
Original Author: Rahul...  
January 27, 2017 08:35:00 (UTC) | Deepak Singh
- How to import Unit, Service, Pipeline Instances from a Text File...**  
Applies To Product(s): OpenPlant Modeller Version(s): 08.11.09.XXX (S55) | 08.11.11.XX (S56) Environment: Windows 7/8.1/10 (64 bit) Area: Tasks Subarea: Piping Original Author:...  
January 27, 2017 06:43:00 (UTC) | Rajesh Agrawal
- OpenPlant Isometrics Dimension and text size**  
Hello Francois. See attached correct seed file for your reference. Like explained in wiki attached above, you need to check the scale being set as 1:1. we have set it to 1:1 and...  
January 27, 2017 06:36:00 (UTC) | Rahul Kumar

# Value of CONNECT Advisor

The screenshot displays the Bentley CONNECT Advisor interface. The main window shows a 3D isometric view of a complex piping system with various colored pipes (red, yellow, blue, green) and tanks. The interface includes a menu bar (File, Edit, Element, Settings, Tools, Utilities, Workspace, OpenPlant Modeler, Window, Help, LumenRT), a toolbar, and a status bar at the bottom. A sidebar on the right contains a search bar and a list of articles under the heading "Most Recent".

**Most Recent**

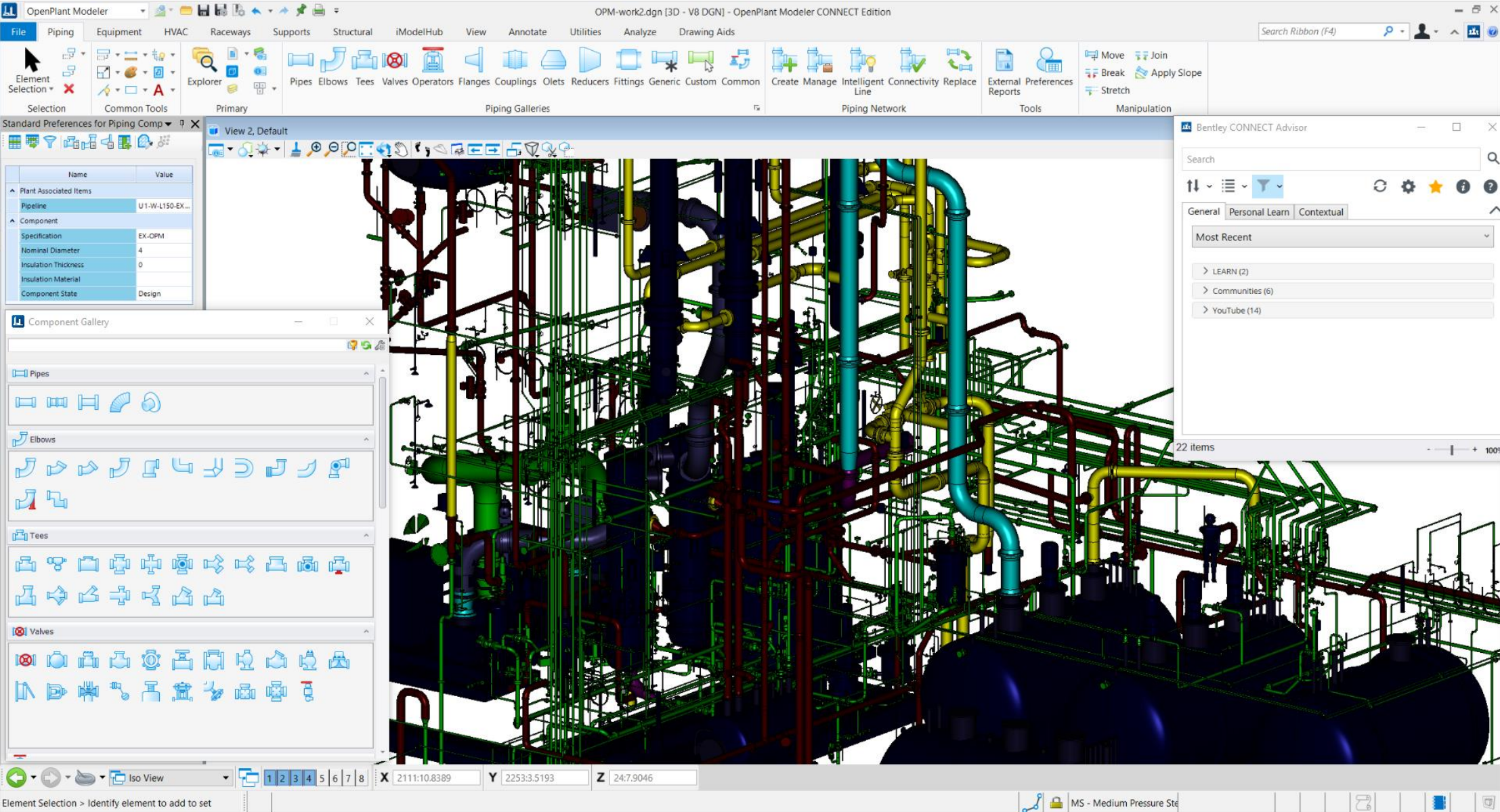
- Detail sketch justification on isometrics**  
Hello Richard, This is known limitation to allow the detail sketch dialog to place it on TOP right. Please log an SR along with relevant details to enable us to add inside Enhancement...  
January 27,2017 13:45:00 (UTC) Rahul Kumar
- AP OPIM - OPIM hang after run trying to generate ISO on multi...**  
Abhijit, The solution has worked as far as I am now able to produce isometrics of pulled pipe that do not contain branch connections. For Pulled Pipe containing a branch connection...  
January 27,2017 09:54:00 (UTC) John Poppitt
- Error Message "Loadpiping.scr Can't find the file" While Opening...**  
Applies To Product(s): AutoPLANT Piping Version(s): 08.11.XX.XXX & above  
Environment: Windows 7 (32/64 bit) & Others Area: N/A Subarea: N/A Original Author: Abhijit Bute. Bentley...  
January 27,2017 09:45:00 (UTC) Rajesh Agrawal
- To Define Default Value of Branch Code for Piping Component**  
Applies To Product(s): OpenPlant Modeler Version(s): 08.11.09.XXX (SS5) | 08.11.11.XX (SS6) Environment: Windows 7/8.1/10 (64-bit) Area: OpenPlant Modeler Specification Generator...  
January 27,2017 09:39:00 (UTC) Deepak Singh
- How To Show Existing Lines For Fasteners In OpenPlant Isometrics...**  
Applies To Product(s): OpenPlant Isometrics Manager Version(s): 08.11.09.440  
Environment: Windows 7 64 bit & Others Area: Settings/Attributes Subarea: -  
Original Author: Rahul...  
January 27,2017 08:35:00 (UTC) Deepak Singh
- How to import Unit, Service, Pipeline Instances from a Text File...**  
Applies To Product(s): OpenPlant Modeler Version(s): 08.11.09.XXX (SS5) | 08.11.11.XX (SS6) Environment: Windows 7/8.1/10 (64 bit) Area: Tasks Subarea: Piping Original Author: ...  
January 27,2017 06:43:00 (UTC) Rajesh Agrawal
- OpenPlant Isometrics Dimension and text size**  
Hello Francois, See attached correct seed file for your reference. Like explained in wiki attached above, you need to check the scale being set as 1:1, we have set it to 1:1 and...  
January 27,2017 05:35:00 (UTC) Rahul Kumar

42 Items

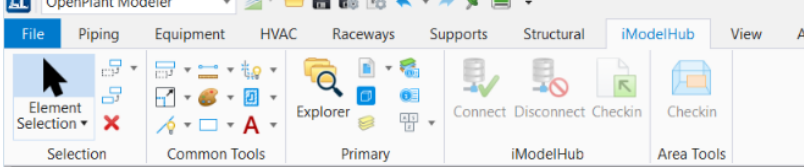
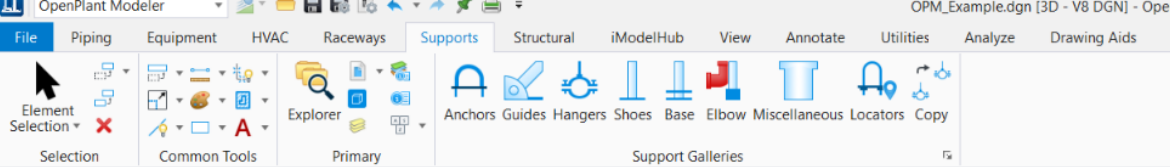
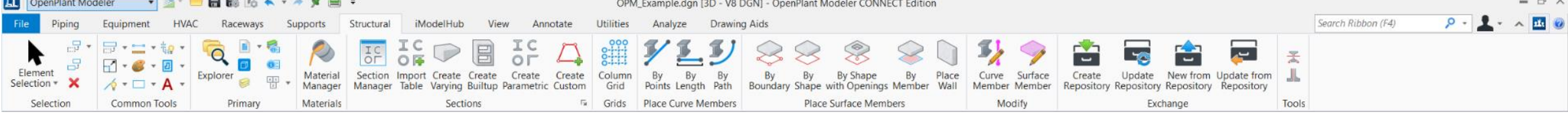
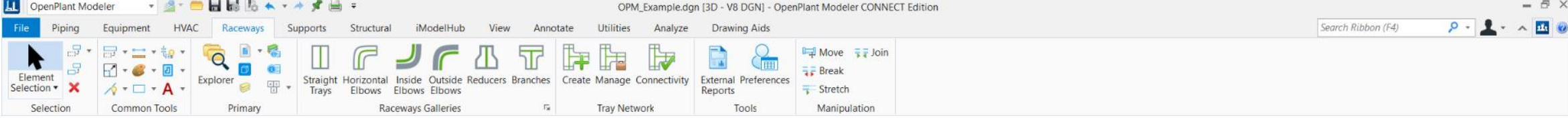
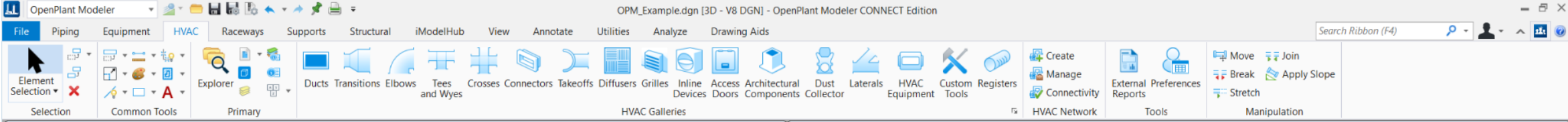
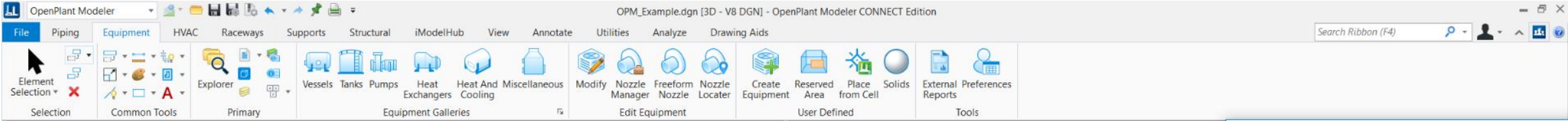
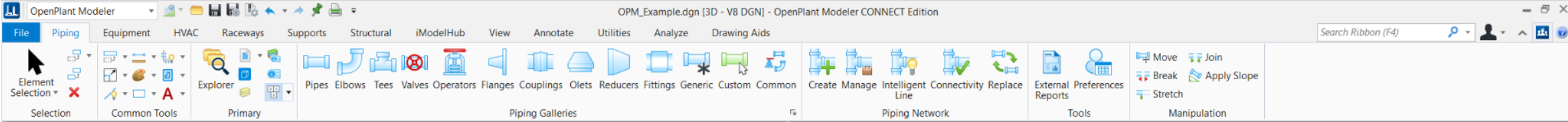
# OpenPlant CONNECT Edition Product Launches

- OpenPlant Brand CONNECT Edition
  - OpenPlant Modeler
  - OpenPlant PID
  - OpenPlant Support Engineering
  - OpenPlant Isometrics Manager
  - OpenPlant Orthographics Manager
  - OpenPlant Project Administrator
- Technology Previews
  - iModelHub PID integration
  - “Plant Web Portal”
  - ICS for SP3D
  - ICS for PDMx

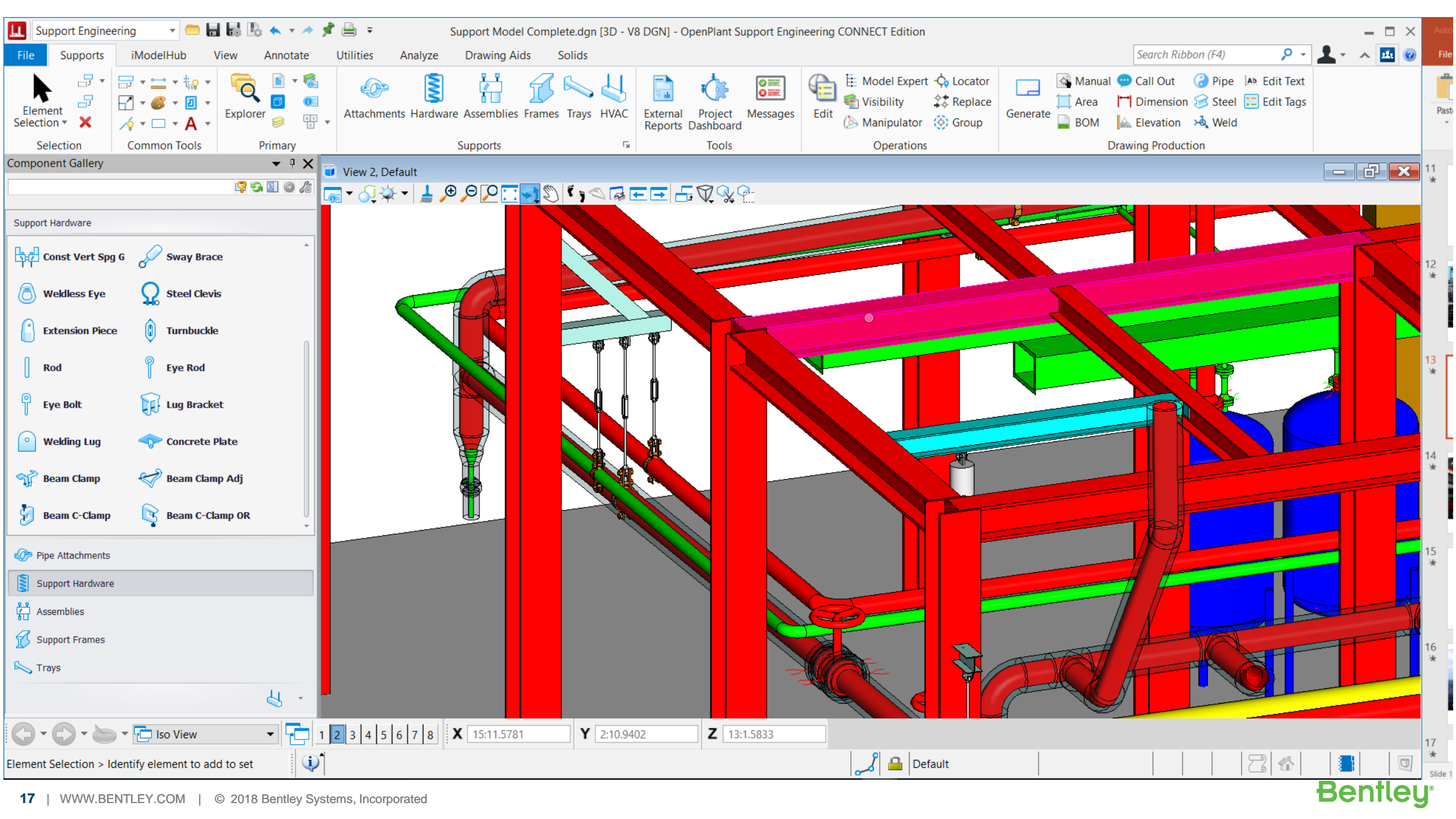
# Streamlined User Interface



# Streamlined User Interface: Ribbons





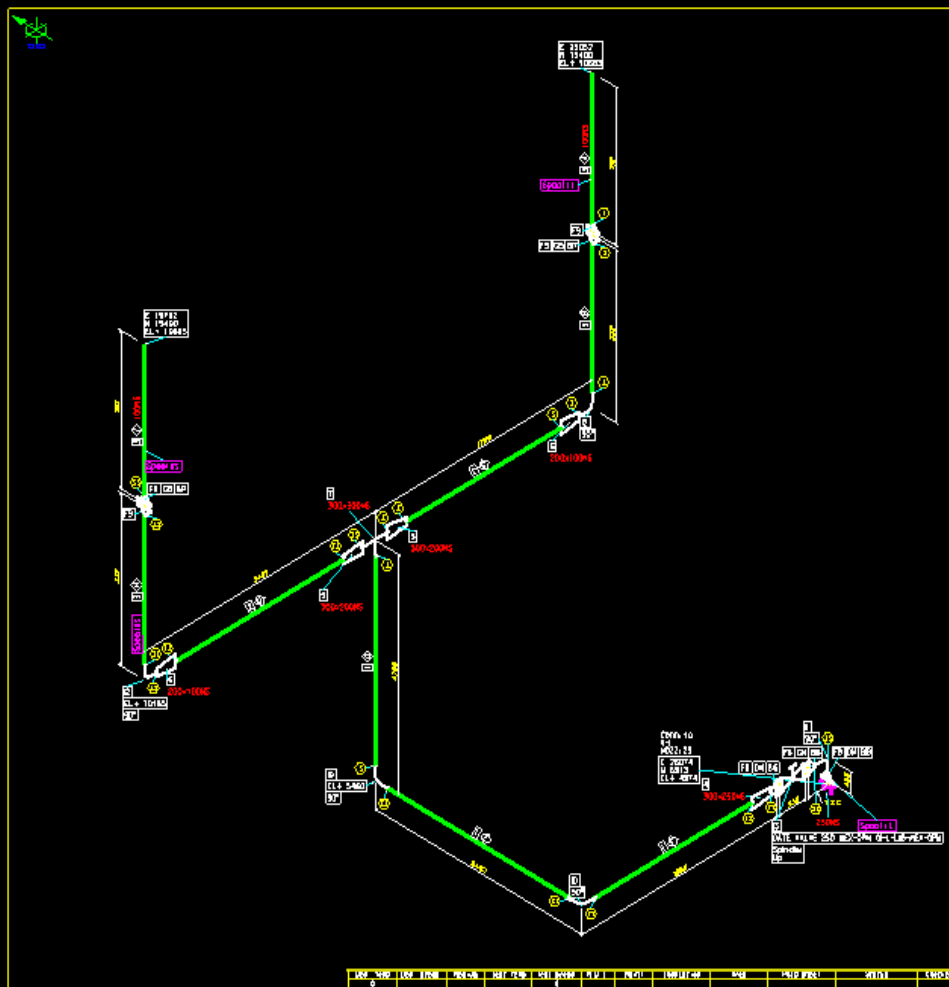


Primary Selection Iso Cell Creation Tag Data Tools

Explorer Attach Tools Element Selection Fence Tools Create Cell Connect Point Intersection Point Origin Point Setting Drawing Component Window Extend Open Template Node Editor Move Label

View 1 - Isometric, Default

Element Selection



Bill of Materials

ITEM	QTY	DESCRIPTION
<b>PIPE</b>		
1	100	100 100 100 100 100 100
2	100	100 100 100 100 100 100
3	100	100 100 100 100 100 100
<b>FITTING</b>		
1	100	100 100 100 100 100 100
2	100	100 100 100 100 100 100
3	100	100 100 100 100 100 100
<b>VALVE</b>		
1	100	100 100 100 100 100 100
2	100	100 100 100 100 100 100

Default Views | 1 2 3 4 5 6 7 8 | X -312.5414 | Y 433.5083 | Z -58.2645

Element Selection > Identify element to add to set | TOOLS loaded. | Level 1

File Home Drawing Search Ribbon (F4)

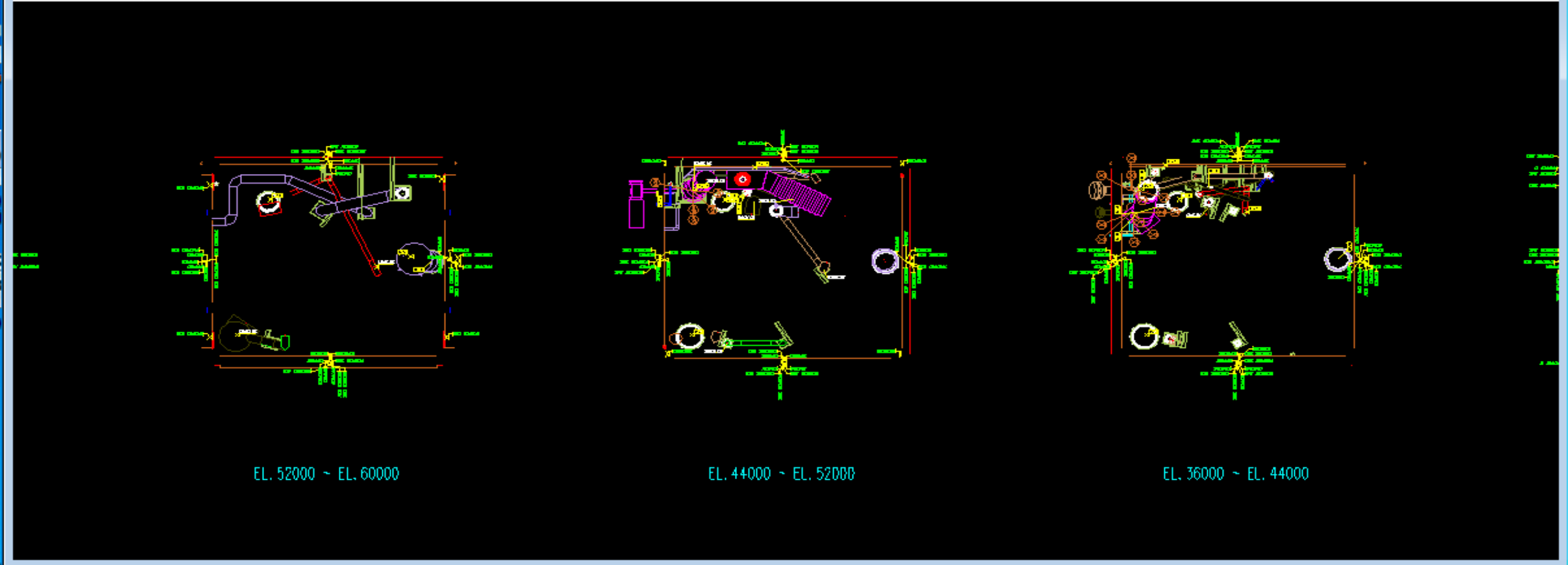
Explorer Attach Tools Primary

Element Selection Selection

New Edit Left Align Center Align Right Align Move Text Up Move Text Down Move Tag Dimensioning

View 1 - Top, Default [Displayset]

Navigation icons: pan, zoom, rotate, etc.



Navigation icons: back, forward, home, etc.

Default Views

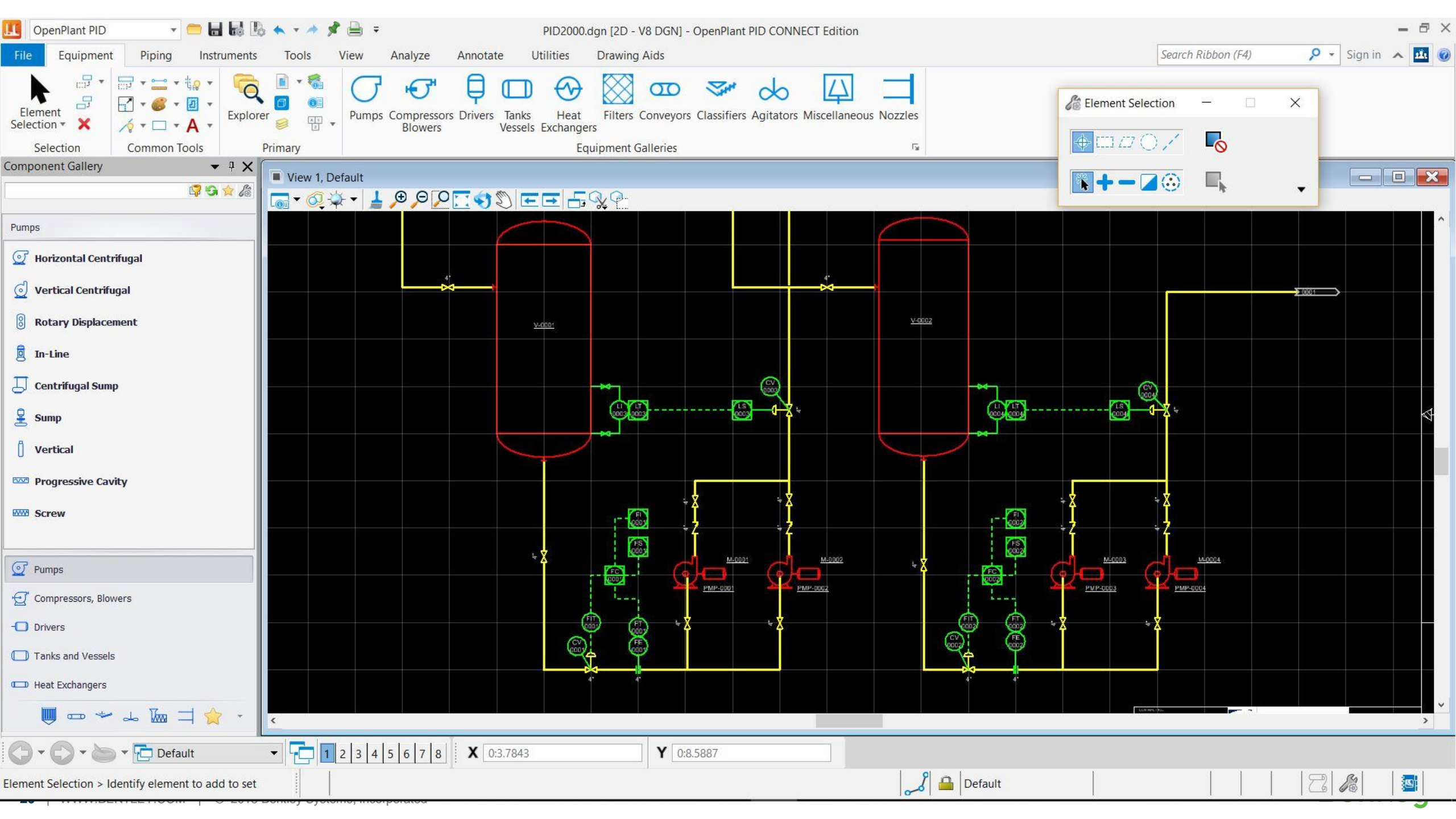
1 2 3 4 5 6 7 8

X 817.0359 Y 560.3930 Z 0.0000

Element Selection > Identify element to add to set

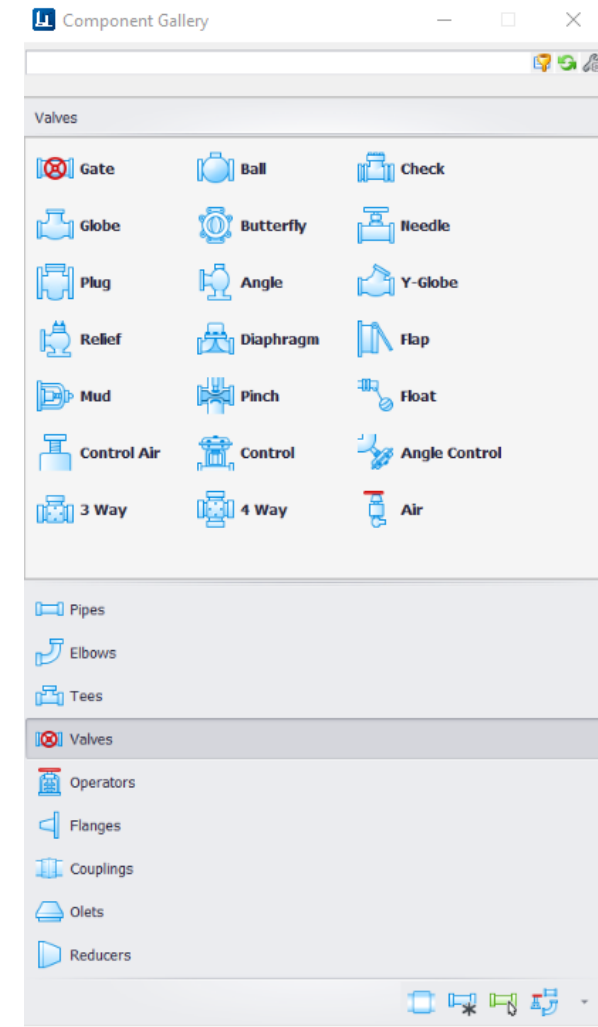
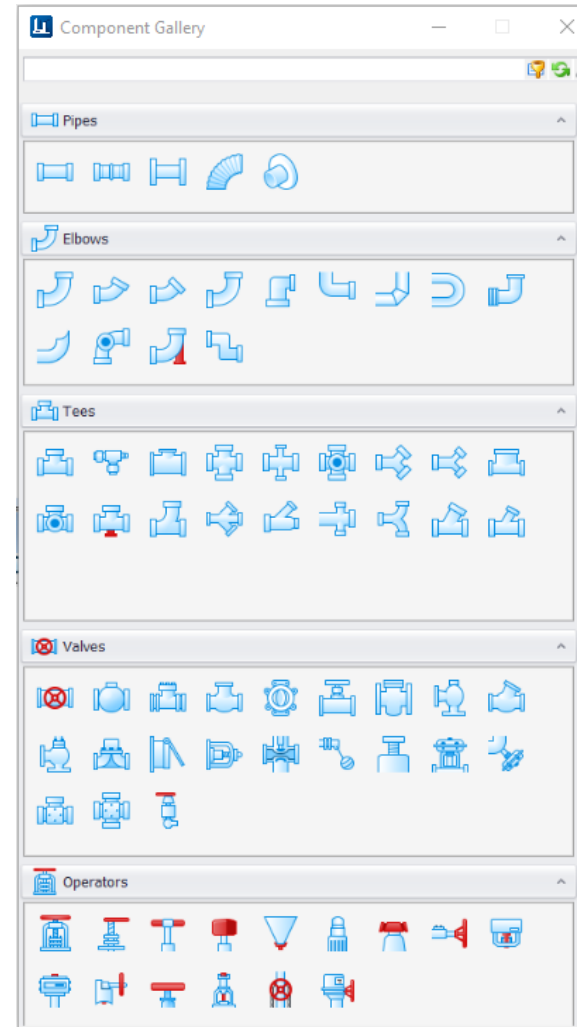
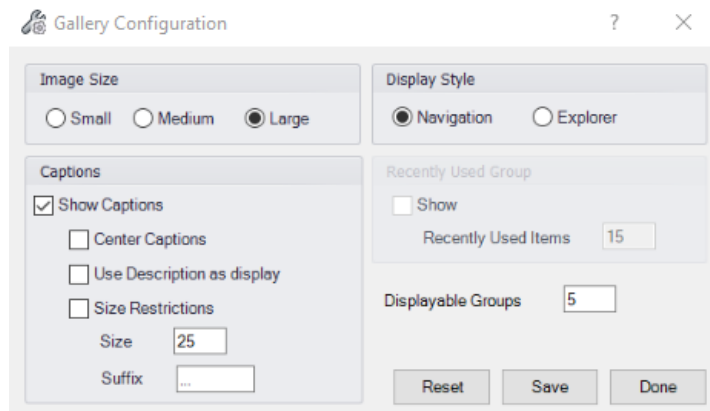
DIMENSION

Navigation icons: undo, redo, etc.



# Streamlined User Interface: Component Gallery

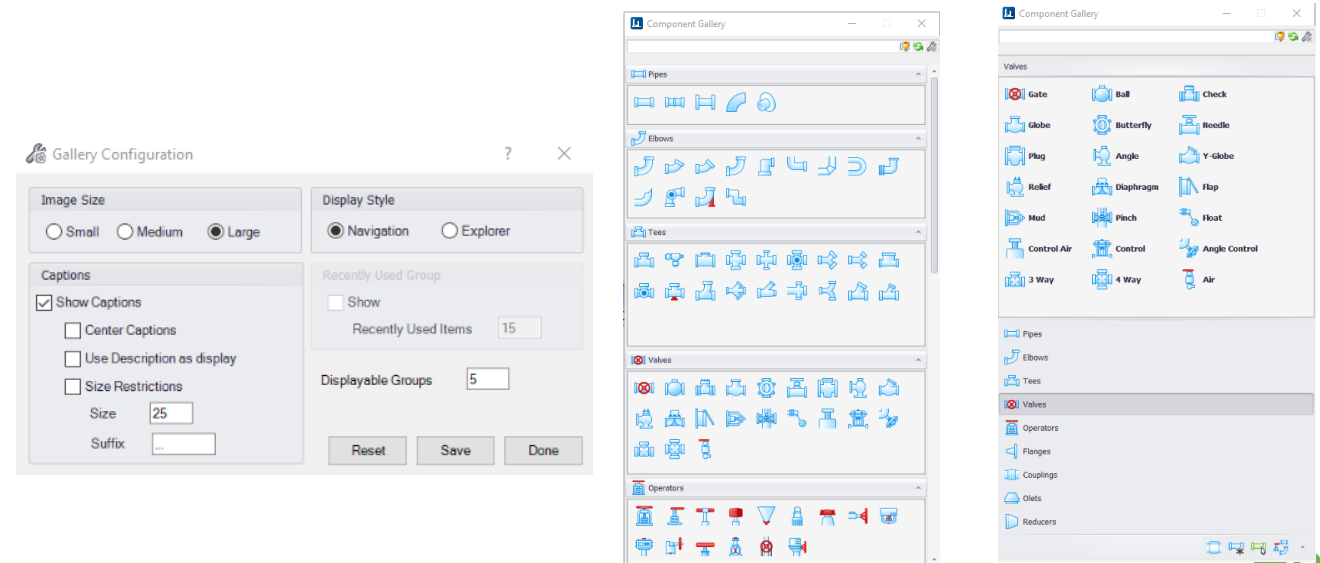
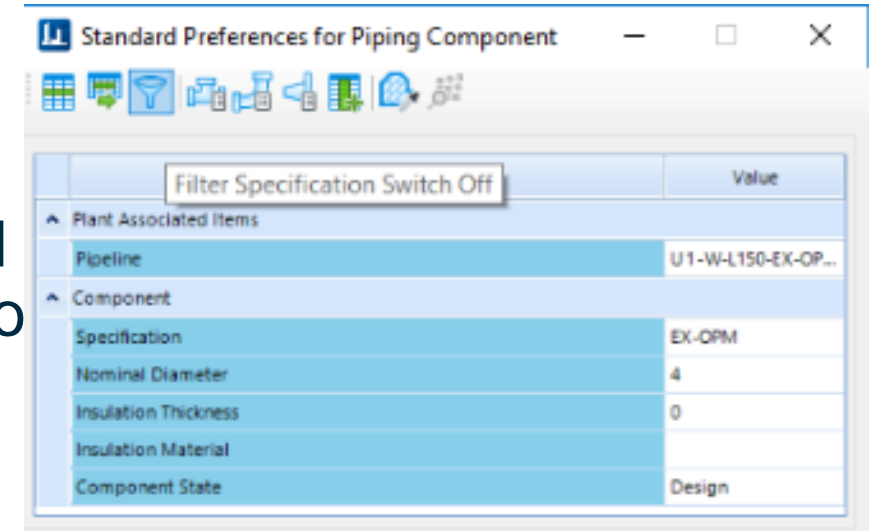
- Consistent across all OP products
- Intuitive selection
- Easy customization



# Streamlined User Interface: Component filtering

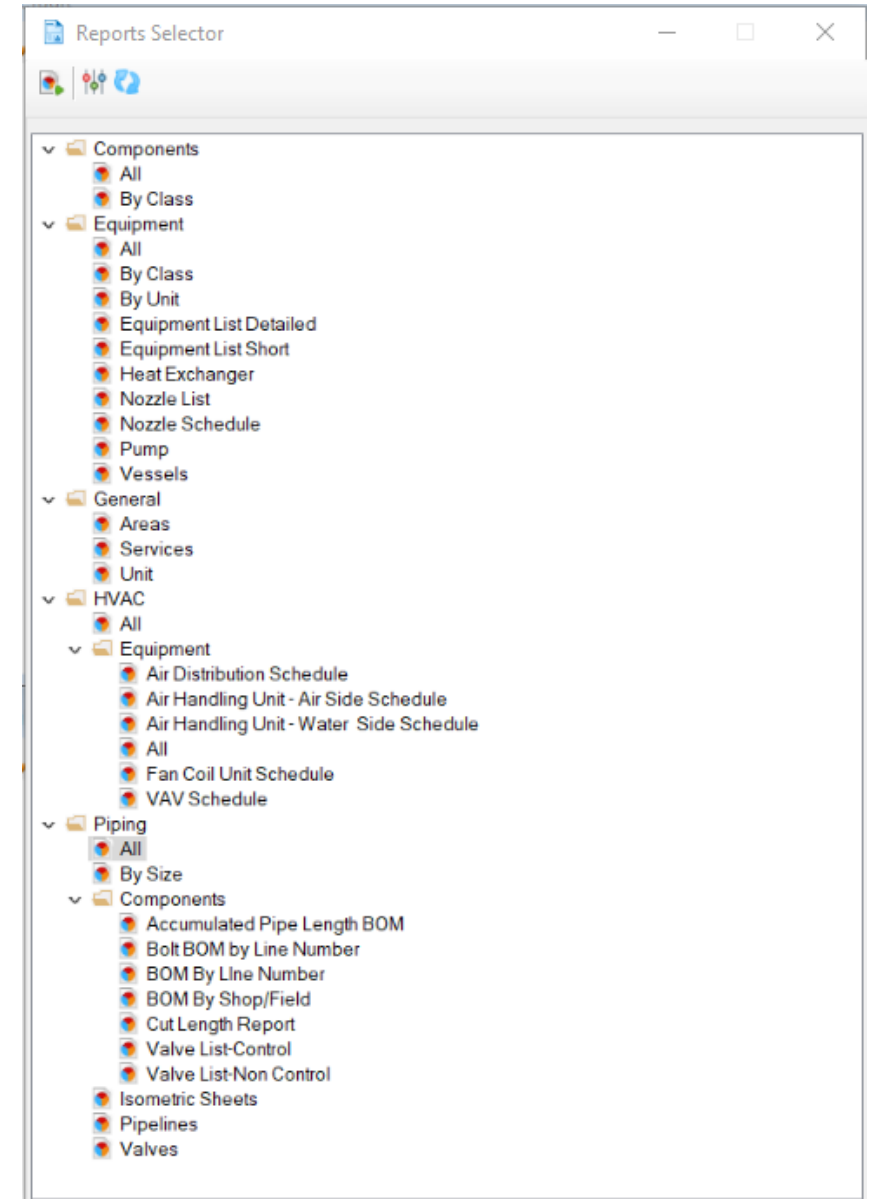
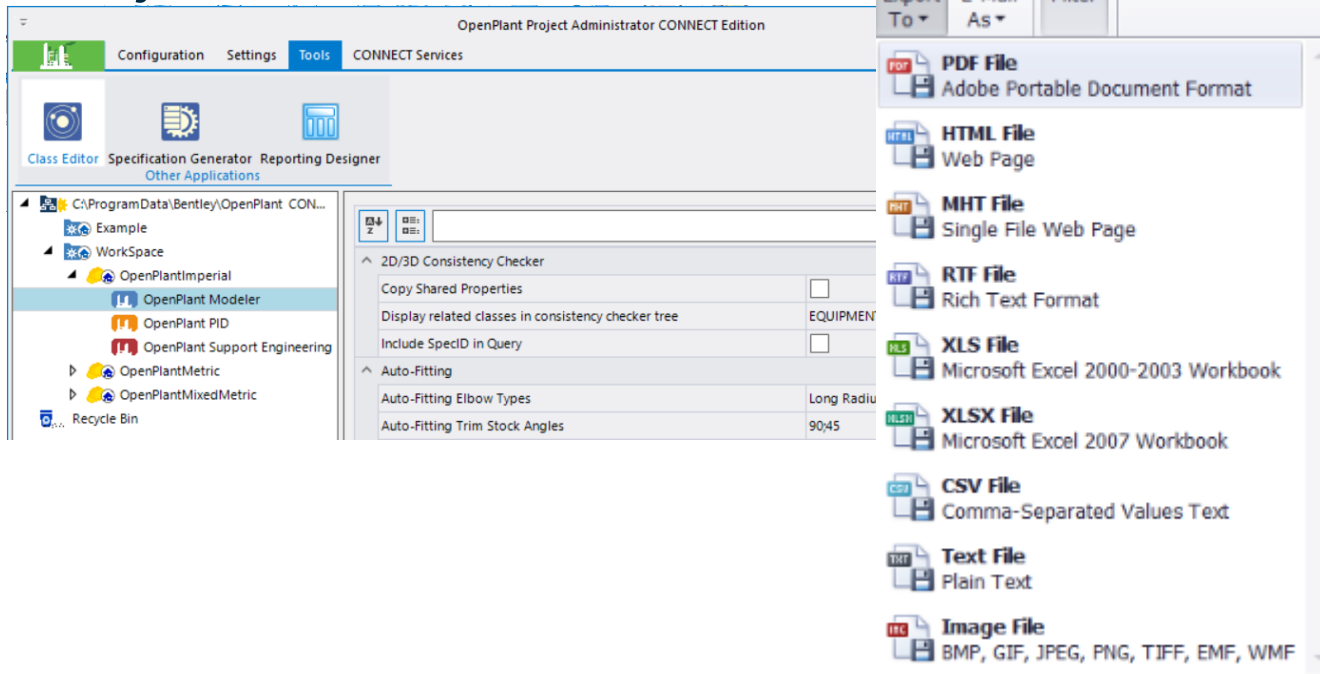
- Spec Filter

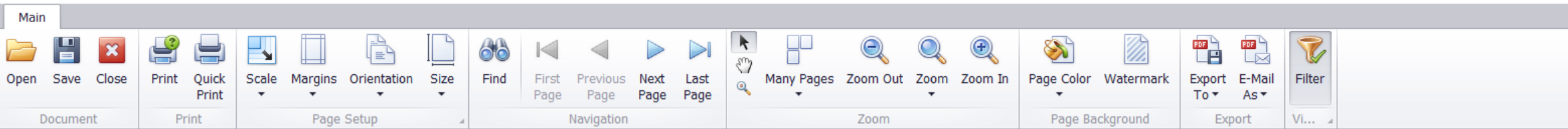
- Option to filter component menu items based on the options available in current specification
- On demand operation
- Search & Filter options
  - Searches across all ribbons



# Reports

- New reporting mechanism based on Dev Express reports
- Easily design reports via OpenPlant Project Administrator





## Pipe Support by Size

Pipe Diameter N/A IN

Support Mark	Unit	Pipeline	Manufacturer	Description	Weight
U500-S500--B1-OPM-H1	U500	U500-S500--B1-OPM	Project Custom	Frame Post - Type 2B	20.702 KG
U500-S500--B1-OPM-H2	U500	U500-S500--B1-OPM	Project Custom	Frame Post - Type 2B	20.702 KG
U500-S500-002-B1-OPM-H1	U500	U500-S500-002-B1-OPM	Project Custom	Frame Post - Type 2B	20.702 KG
U500-S500-002-B1-OPM-H2	U500	U500-S500-002-B1-OPM	Project Custom	Frame Post - Type 2B	20.702 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			480.633 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			44.416 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			39.022 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			146.221 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Weldless Eye Nut	1.7 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Linked Eye Rod (Welded)	1.7 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Welded Beam Attachment	3.9 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Weldless Eye Nut	1.7 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Linked Eye Rod (Welded)	1.7 KG
U500-S500-002-B1-OPM-H4	U500	U500-S500-002-B1-OPM	Piping Technology	Short Spring	62 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			39.022 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			146.221 KG
U500-S500-002-B1-OPM-H3	U500	U500-S500-002-B1-OPM			44.416 KG



Edit Report

Main

New Report Save Close Cut Copy Paste Undo Redo

Times New Roman 9.75 B I U


Alignment Layout Zoom View Scripts

Report Selector

- Components
  - All
  - By Class
- Equipment
  - All
  - By Class
  - By Unit
  - Equipment List Detailed
  - Equipment List Short
  - Heat Exchanger
  - Nozzle List
  - Nozzle Schedule
  - Pump
  - Vessels
- General
  - Areas
  - Services
  - Unit
- HVAC
  - All
  - Equipment
    - Air Distribution Schedule
    - Air Handling Unit - Air Side Sched
    - Air Handling Unit - Water Side S
    - All
    - Fan Coil Unit Schedule
    - VAV Schedule
- Piping
  - All
  - By Size
  - Components
    - Accumulated Pipe Length BOM
    - Bolt BOM by Line Number
    - BOM By Line Number
    - BOM By Shop/Field
    - Cut Length Report
    - Valve List-Control
    - Valve List-Non Control
  - Isometric Sheets
  - Pipelines
  - Valves

Report Selector Tool Box

reportHeaderBand1 [one band per report]



## CUT LENGTH REPORT

pageHeaderBand1 [one band per page]

Component	Specification	Nominal Diameter	Schedule	Length
<b>GroupHeader1</b>				
<b>Pipeline [LINENUMBER]</b>				
[DESCRIPTION]	[SPECIFICATION]	[NOMINAL_DI]	[SCHEDULE]	[LENGTH]
			End Preparation Record	[PORT_END_PREPARAT
<b>reportFooterBand1 [one band per report]</b>				
<b>pageFooterBand1 [one band per page]</b>				
1/1				

Report Explorer

- CutLengthReport
  - topMarginBand1
  - reportHeaderBand1
  - pageHeaderBand1
  - GroupHeader 1
  - GroupHeader 2
  - detailBand1
  - reportFooterBand1
  - pageFooterBand1
  - bottomMarginBand1

Report Explorer Field List

Property Grid

CutLengthReport Report

Appearance

- Background Color  Transparent
- Border Color  Black
- Border Dash Style Solid
- Border Width 1
- Borders None
- Font Times New Roman,...
- Foreground Color  Black
- Formatting Rule (Collection)
- Formatting Rule (Collection)
- Padding 0, 0, 0, 0
- Page Color  White

Group and Sort

Add a Group Add a Sort Delete Move Up Move Down

Field Name	Sort Order	Show Header	Show Footer
LINENUMBER	Ascending	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GUID	Ascending	<input checked="" type="checkbox"/>	<input type="checkbox"/>

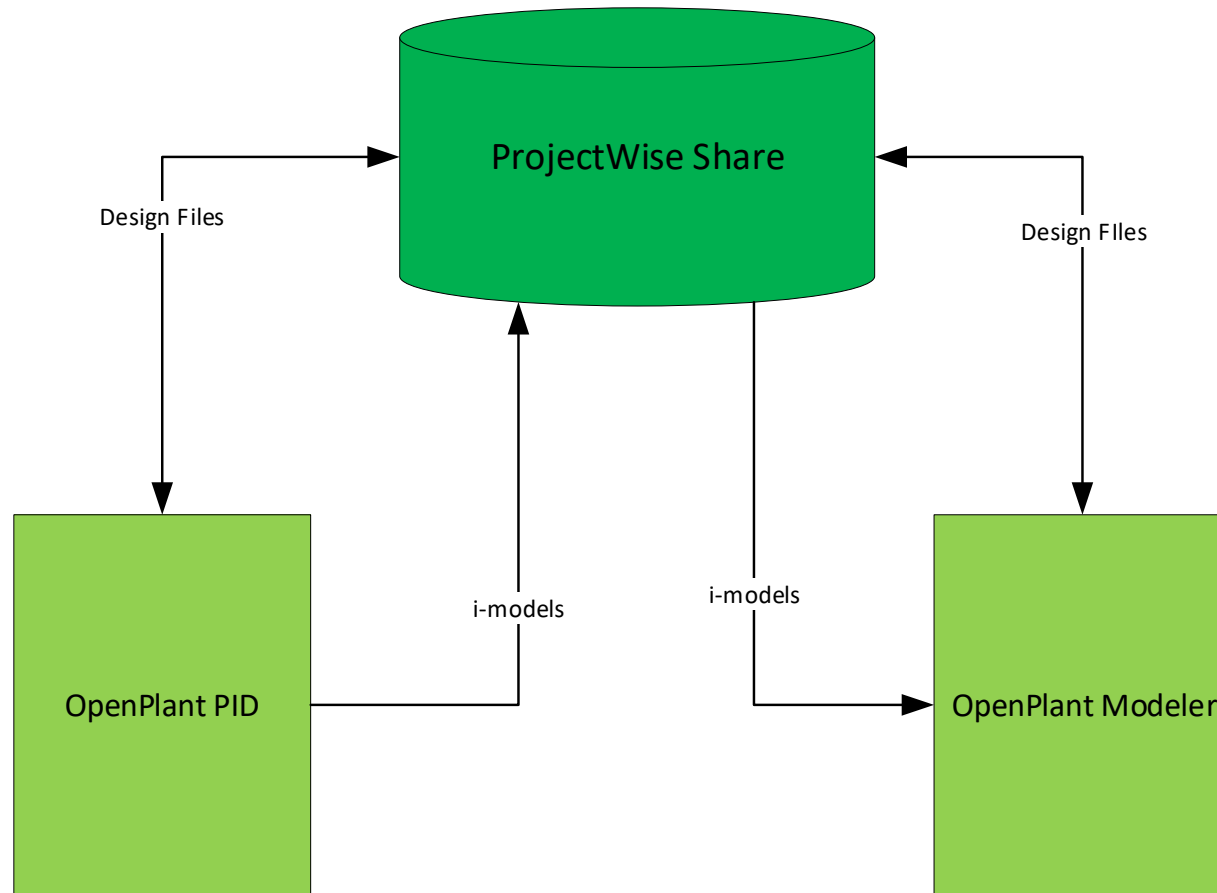
Group and Sort Filter

# Common Workset for all OpenPlant Products

- No duplication of workset files
- Same workset installed with OP applications
- Complete workspaces shipped with OPPA
  - Increase collaboration by enforcing common standards across disciplines using different Bentley applications
  - Improve consistency and standards adherence across the owner-EPC interface

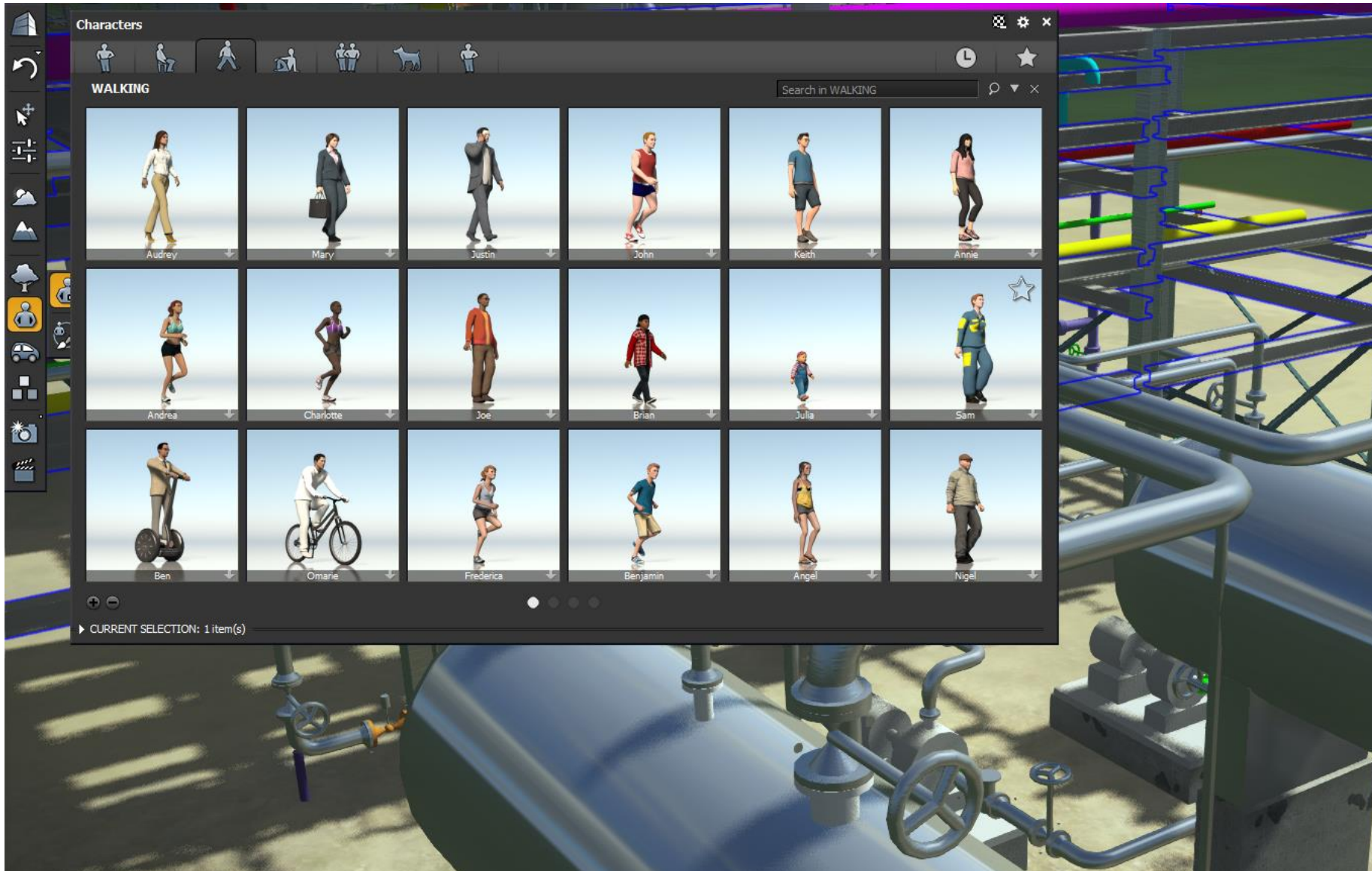
- OpenPlant CONNECT Edition
  - Configuration
    - Organization
    - Workspaces
      - Example
      - NoWorkSpace
      - Template
      - WorkSpace
    - Interfaces
    - Standards
    - WorkSets
      - OpenPlantImperial
        - Standards
      - OpenPlant
        - ApplicationDb
        - ColumnGrids
        - Isometrics
        - Modeler
        - PID
        - PlantiModel
        - Reports
        - Schemas
        - Seed
        - SpecGen
        - Specs
        - SupportEngineering
  - WorkFiles
    - Grids
    - Isometrics
    - Models
    - Modeler
    - PID
    - SupportEngineering
    - SupportDrawings
    - OpenPlantMetric

# OpenPlant CONNECT with the ProjectWise Share



- With OpenPlant – users can create and update design files stored in the Projectwise Share
- i-models can then be published to the Projectwise Share from OPPID and referenced into OPM in order to access 2D/3D tools in OPM
- i-models published to the ProjectWise Share can then be viewed in the web

# Companion Applications - LumenRT



Bring engineering model to the life:

- easily add realistic materials
- add people, plants, machinery
- render a photo
- prepare animation

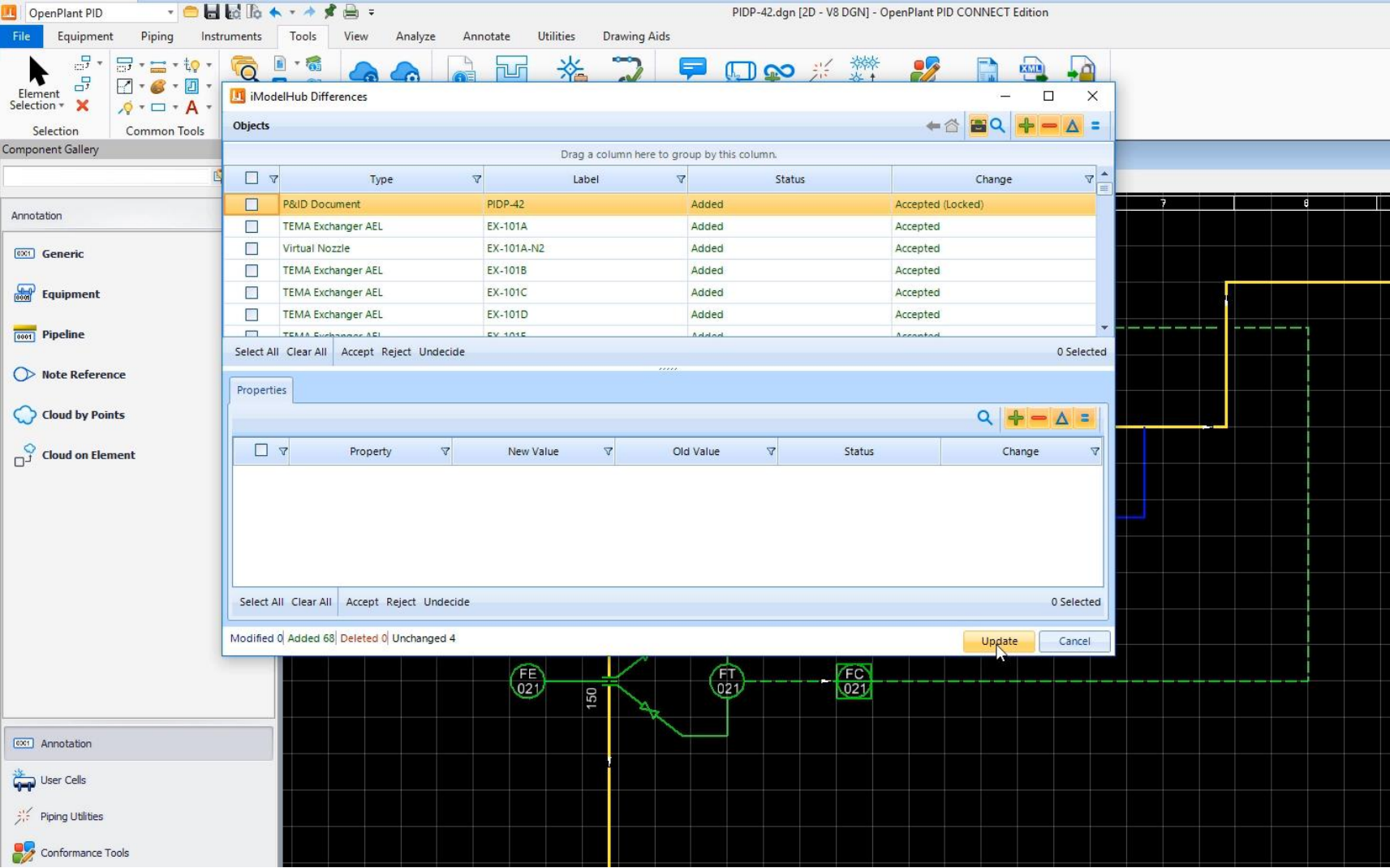




# OpenPlant PID

## CONNECT Edition

# iModelHub Integration



Synchronize PID drawing with the iModelHub

# Plant Portal – Web Tag Management

The screenshot shows the OpenPlant Web Portal interface for Tag Management. The browser address bar shows the URL: <https://qa-connect-openplantwebportal.bentley.com/#/project/d6f862d2-ec19-49c0-965c-e3bae90e72e4/search>. The user is logged in as Tony DeRosa.

The main content area is titled "Tag Query" and features a search bar with the following filters: TEMA\_TYPE\_HEAT\_EXCHANGER, Tag Name, Number, Unit, Device, Description, Area, Service, Size, Model, and Action. The search results are displayed in a table:

Class	Tag Name	Number	Unit	Device	Description	Area	Service	Size	Model	Action
TEMA_TYPE_HEAT_EXCHANGER	EX-101E	101E	1	EX	SECONDARY HEAT EXCH.	50	SWS			...
TEMA_TYPE_HEAT_EXCHANGER	EX-101D	101D	1	EX	SECONDARY HEAT EXCH.	50	SWS			...
TEMA_TYPE_HEAT_EXCHANGER	EX-101C	101C	1	EX	SECONDARY HEAT EXCH.	50	SWS			...
TEMA_TYPE_HEAT_EXCHANGER	EX-101B	101B	1	EX	PRIMARY HEAT EXCH.	50	SWS			...
TEMA_TYPE_HEAT_EXCHANGER	EX-101A	101A	1	EX	PRIMARY HEAT EXCH.	50	SWS			...

The sidebar on the left contains the following navigation options: Queries, Create, Component Browser, and Dashboard. The "Tag Query" option is currently selected under the "Search" section.

At the bottom of the page, there is a footer with the text: © 2018 Bentley Systems, Incorporated | Terms of Service | Privacy | Terms of Use | Cookies | Legal Notices.



# Plant Portal – Web Tag Management

The screenshot displays the OpenPlant Web Portal dashboard. At the top, the browser address bar shows the URL: <https://qa-connect-openplantwebportal.bentley.com/#/project/d6f862d2-ec19-49c0-965c-e3bae90e72e4/dashboard>. The navigation bar includes 'Home', 'Bentley Systems Inc', 'Projects', and a dropdown menu with 'AM-EVENT-OTH-AVD-004' and 'AM-EVENT-OTH-AVD-GOINGDIGITALJAKA...'. The user profile 'Tony DeRosa' is visible in the top right.

The main content area is titled 'Dashboard' and features a 'Functional Bar Chart Data' chart. The chart displays component counts for five categories: Piping Network System (8), Nozzle (9), Centrifugal Pump (2), Vessel (0), and Piping Network Segment (15). The y-axis ranges from 0 to 16. A legend at the bottom of the chart indicates 'Component counts' with a blue bar.

On the right side of the dashboard, there are several control panels: 'iModel Timeline' set to 'Latest iModel', 'Auto Refresh' and 'Configurable Refresh' toggle buttons, 'Refresh Time' and 'Filter Count' sliders, and a 'Filter Classes' text input field.

At the bottom of the dashboard, there is a footer with the text: '© 2018 Bentley Systems, Incorporated | Terms of Service | Privacy | Terms of Use | Cookies | Legal Notices'.

Component	Count
Piping Network System	8
Nozzle	9
Centrifugal Pump	2
Vessel	0
Piping Network Segment	15

# Navigator Web

The screenshot displays the Navigator Web interface within a browser window. The browser's address bar shows the URL: <https://connect-imodelweb.bentley.com/?id=e7853b0f-6016-4096-8155-586730eb793c&projectId=afe2abbd-8e65-4cc2-bb7e-1c5d5862be37&dataId=d92e3d4e-c83a-48ff-910b-272865cb5a04>. The interface includes a top navigation bar with tabs for ProjectWise Share, Bentley Cloud Services, Account Health Dashboard, and Join conversation. A left sidebar contains navigation icons and an 'Early Access' badge. The main workspace displays a detailed process flow diagram with various equipment and piping. A right-hand 'Element Properties' panel is open, showing details for element V-3101.

**Element Properties Panel:**

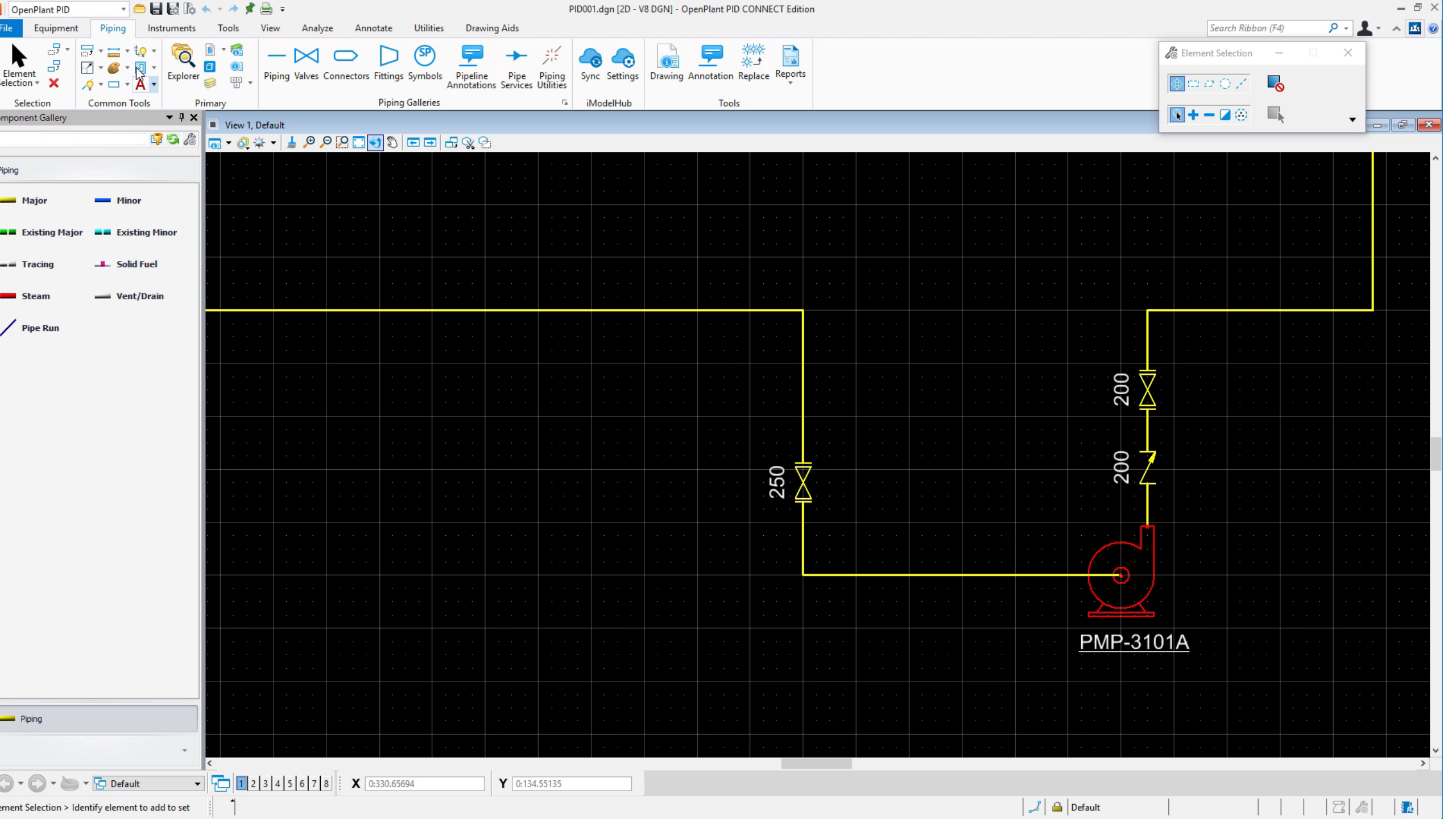
- Element ID:** V-3101
- Miscellaneous:** (Expandable)
- Operating Conditions:** (Expandable)
- Design Conditions:** (Expandable)
  - Designer
  - Lower Limit Design Pressure
  - Nominal Size
  - Upper Limit Design Pressure: 3700
  - Upper Limit Design Temperature: 100
- Tag Information:** (Expandable)
  - Area: A1
  - Service: HCG
  - System: 01
  - Unit: 02
- General Info:** (Expandable)
  - Name: V-3101
  - Description:

Below the properties panel, there is a revision table and a Bentley logo. The revision table is as follows:

REV	DATE	REV'S ON	NOTE	CR1	CI

Below the revision table is the Bentley logo and a project information table:

PROJ. NO.	
TITLE	
DESIGNED BY	
CHECKED BY	
APPROVED BY	
SCALE	
DESIGN STATUS	
DATE	
REVISION	



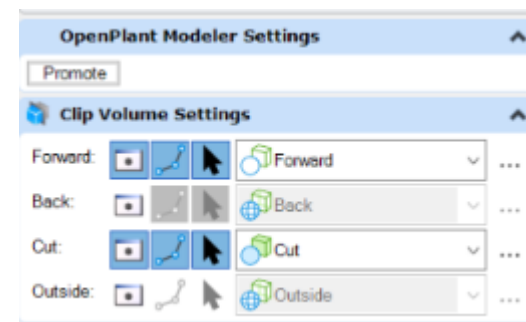
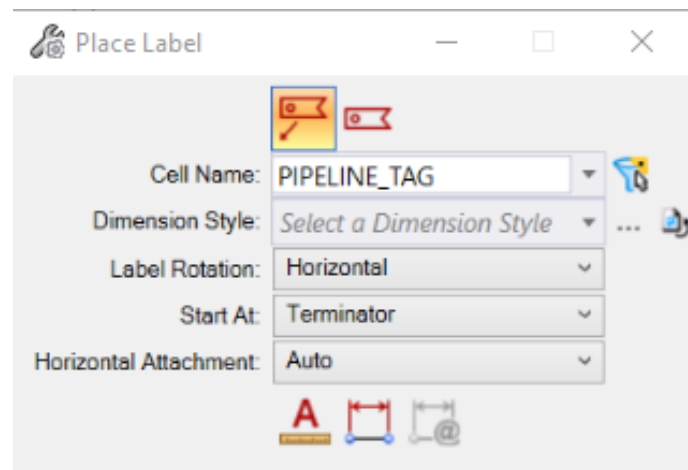


# OpenPlant Modeler

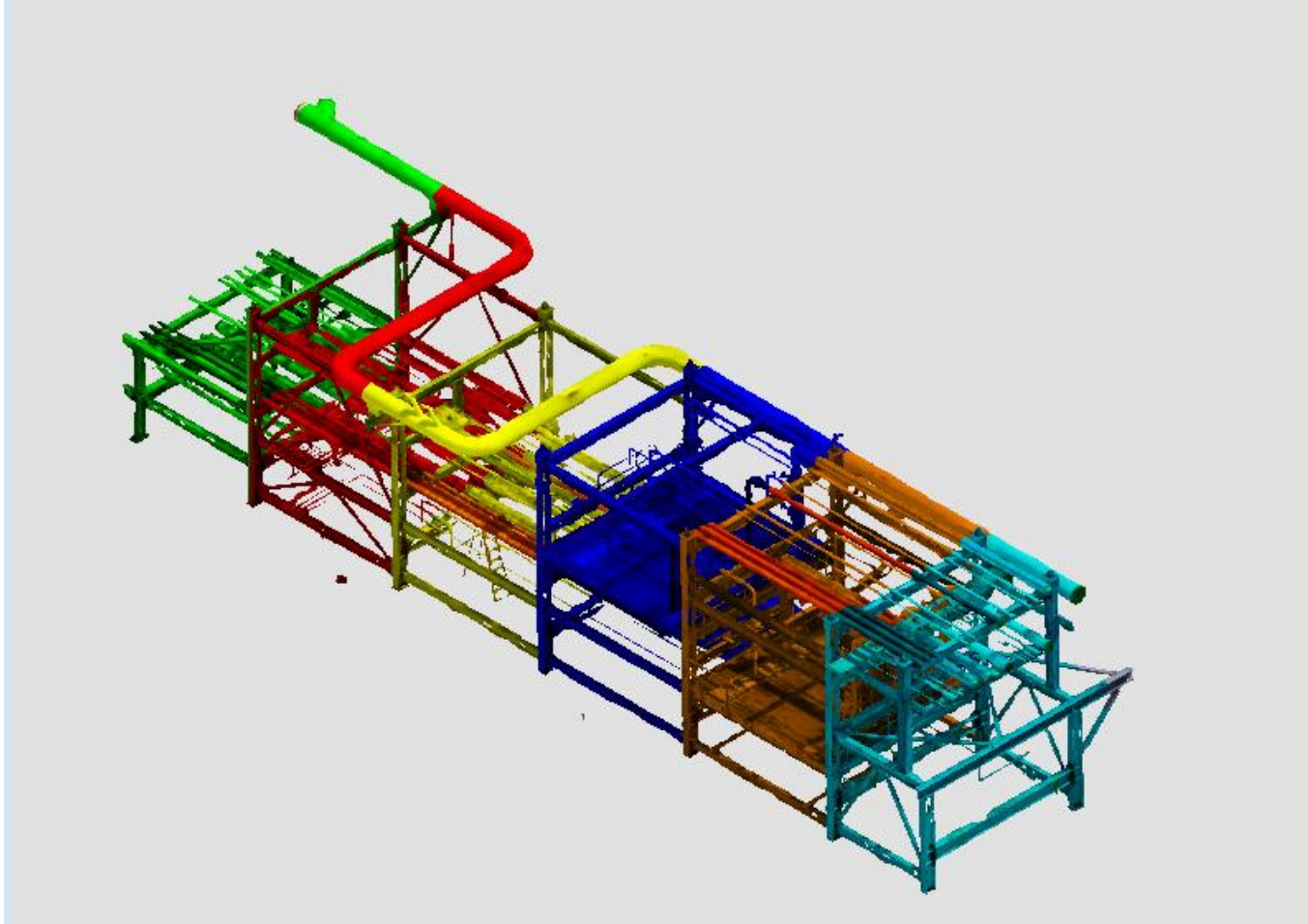
## CONNECT Edition

# Centerline Projection & Annotation

- Externalized function for centerline projection
  - Can be used in plain MS or any other Power Product like ABD
- EC Annotation
  - Use place label command to read and place annotation on OP components
  - Implementation of this utility is isolated as well in CE so that it can be used in MS or ABD

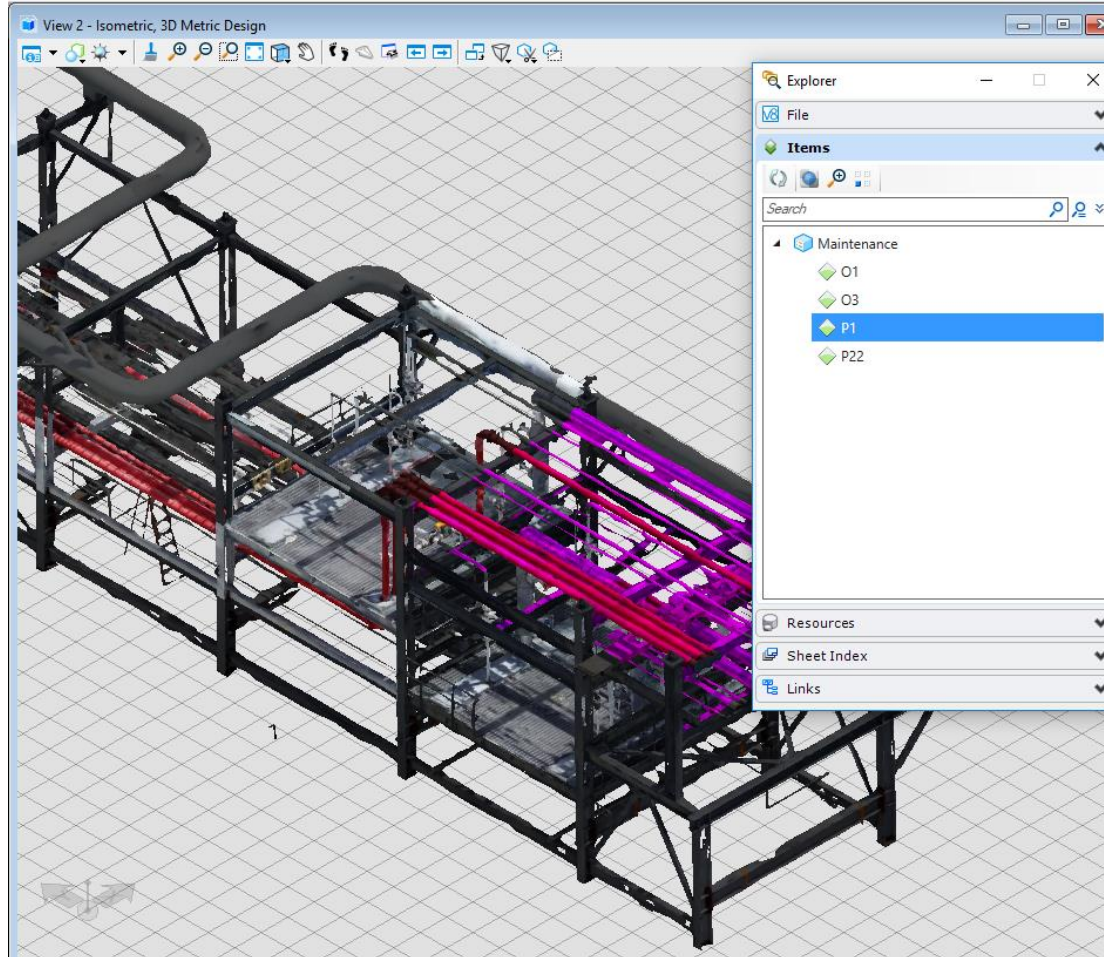


# Reality Meshes



Attach Reality Mesh to get the context of existing conditions during brownfield project:  
local mesh  
streamer from the Project Share

# Classifiers with items



Classify to:

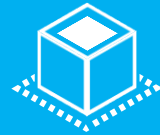
- assign properties
- enable search
- allow clipping and hiding



# CONNECTED Data Environment



CONNECTED  
Users



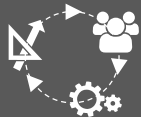
CONNECTED  
Projects



CONNECTED  
Assets



CONNECTED  
Enterprise



Design  
Worksharing



BIM Review



Bid Management



Construction  
Management



Work Packaging



Completions



Design

Procure

Construct

Handover



File Piping Equipment HVAC Raceways Supports Structural iModelHub View Annotate Utilities Analyze Drawing Aids

Search Ribbon (F4)

Element Selection Selection Common Tools Primary iModelHub Volume Tools Solids

Check-In All Update All Free All Refresh All Clear References Create Reference out Slab Extrude

Move Component

Standard Preferences for Piping Component

Name	Value
Plant Associated Items	
Pipeline	
Component	
Specification	mA1-OPM
Nominal Diameter	200
Insulation Thickness	0
Insulation Material	
Component State	Design

View 2, Default



### Preview

iModel Name	iMH
Date Created	29.09.2018
Created By	
Size	

### Version

 You have the latest version! 

Version	30
Date	30.09.2018
Updated By	Jaroslav Sitek

Views

3D Models

Sheets

Documents





# OpenPlant Isometrics Manager

## CONNECT Edition

Isometric Styles : (IFC)

Configuration

New Remove Save Undo Seed Reports WorkFile Root Style Config Root

Styles Current Style

IFC

- Automatic Iso Splitting
- Component Placement
- Converter Settings
- Coordinates
- Detail Sketch
- Dimensioning
- Insulation And Tracing
- Labels
- Leader
- Part ID Labels
- Rolling Offset Depiction
- User Labels

**Split Options**

Do not Split

Split on Attribute  
Attribute: SHT\_NO, SPEC

Split on Iso Breaks

Split on Component Count  
Max Number per Sheet: 25  
Min Number per Sheet: 20

Connectivity Check

**Sheet Name Format**  
Sheet Suffix: -sht-\$(SHEETNO)

**Sheet Continuation Label Format**  
Continued On: To SHT: \$(SHEETNO)  
Continued From: From SHT: \$(SHEETNO)

**Spool Isos**  
 Create Spool Isos  
Style for Spools: FAB  
Spool Suffix: -spool-\$(SPOOLID)



Isometric Management

Configuration

Save Undo

Configuration

- Isometrics Configuration
- Project

**General**

Isometric Output Format: DGN  
Overwrite Isometrics if not logged in to ProjectWise: True  
Always Overwrite previous Isometrics when in Batch: True

**ProjectWise Design States**

Allow Design State Switching: False  
Enable ProjectWise Design States for i-model

**ProjectWise Settings**

Root Storage Folder: Isometrics  
Allow To Create Folders: True  
Allow to Post to ProjectWise if Iso Generation fails: False  
Application for Isometric Document  
Storage Path Expression  
Overwrite existing version

**PCF Generation**

Can Post PCF to ProjectWise: True  
Stop Isometric Generation if PCF Fails: False  
Allow PCF File Generation: True

**Isometric Continuity Options**

Max Iso continuing components: -1  
Last continuing components: PIPE

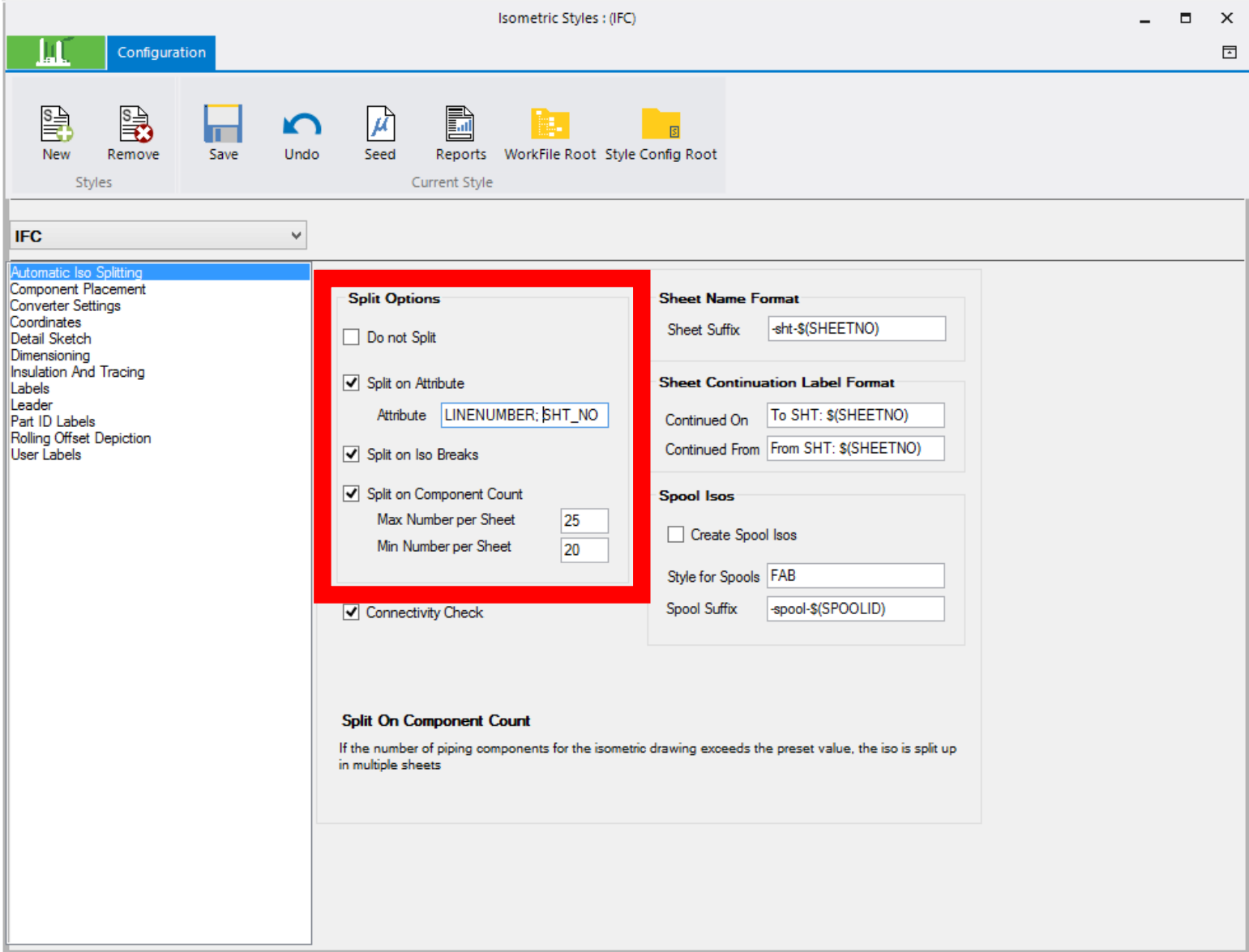
**Default Settings**

Default Isometric Revision: Alphabet  
Default Isometric Style: IFC

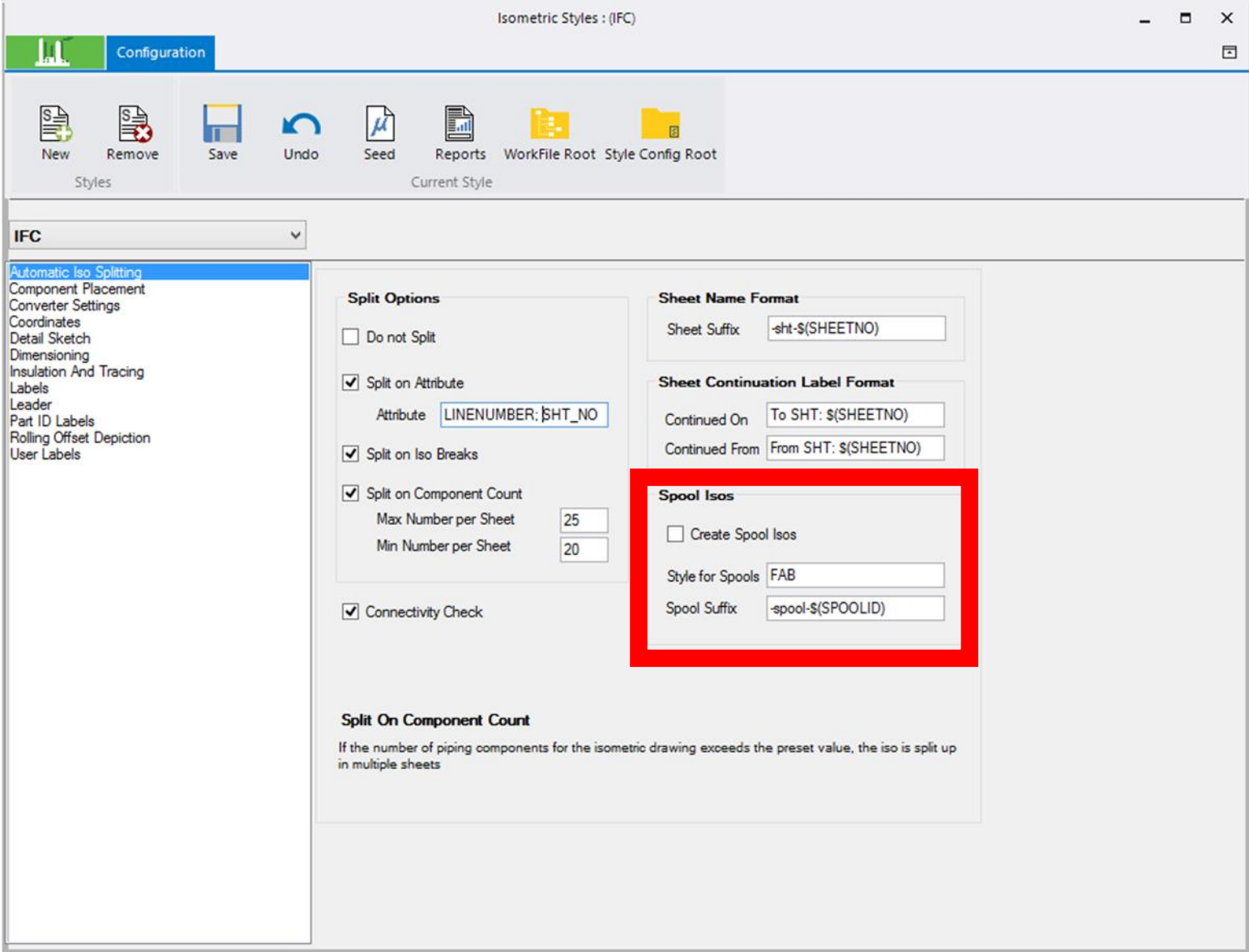
**Miscellaneous**

**Project**  
Define default project settings to use when generating isometric drawings.

# Multiple Attribute Split



# Spool Isometrics

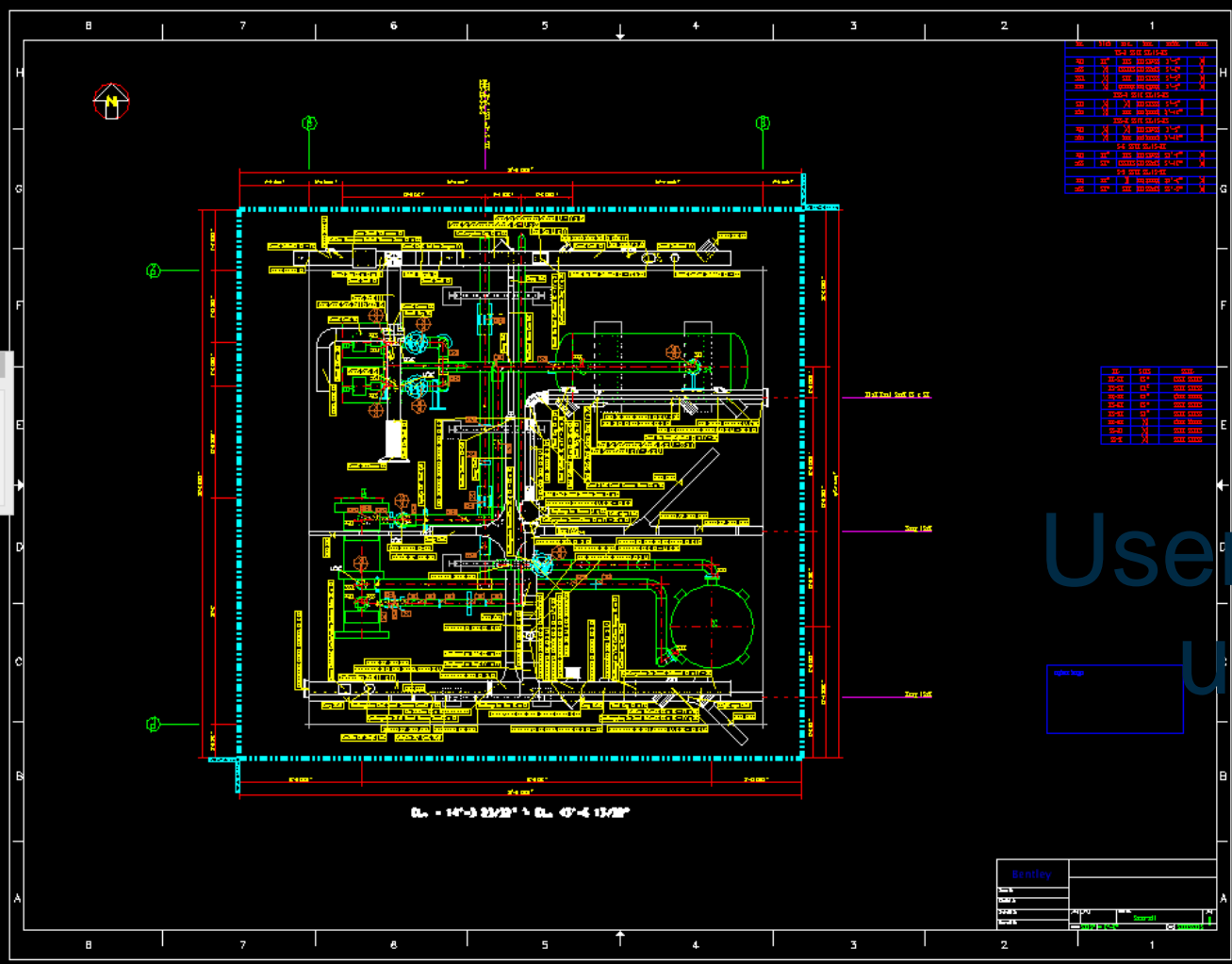
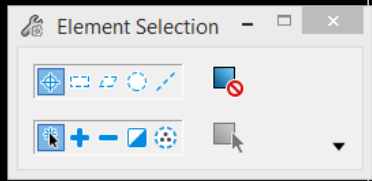




# OpenPlant Orthographics

## CONNECT Edition

Element Selection



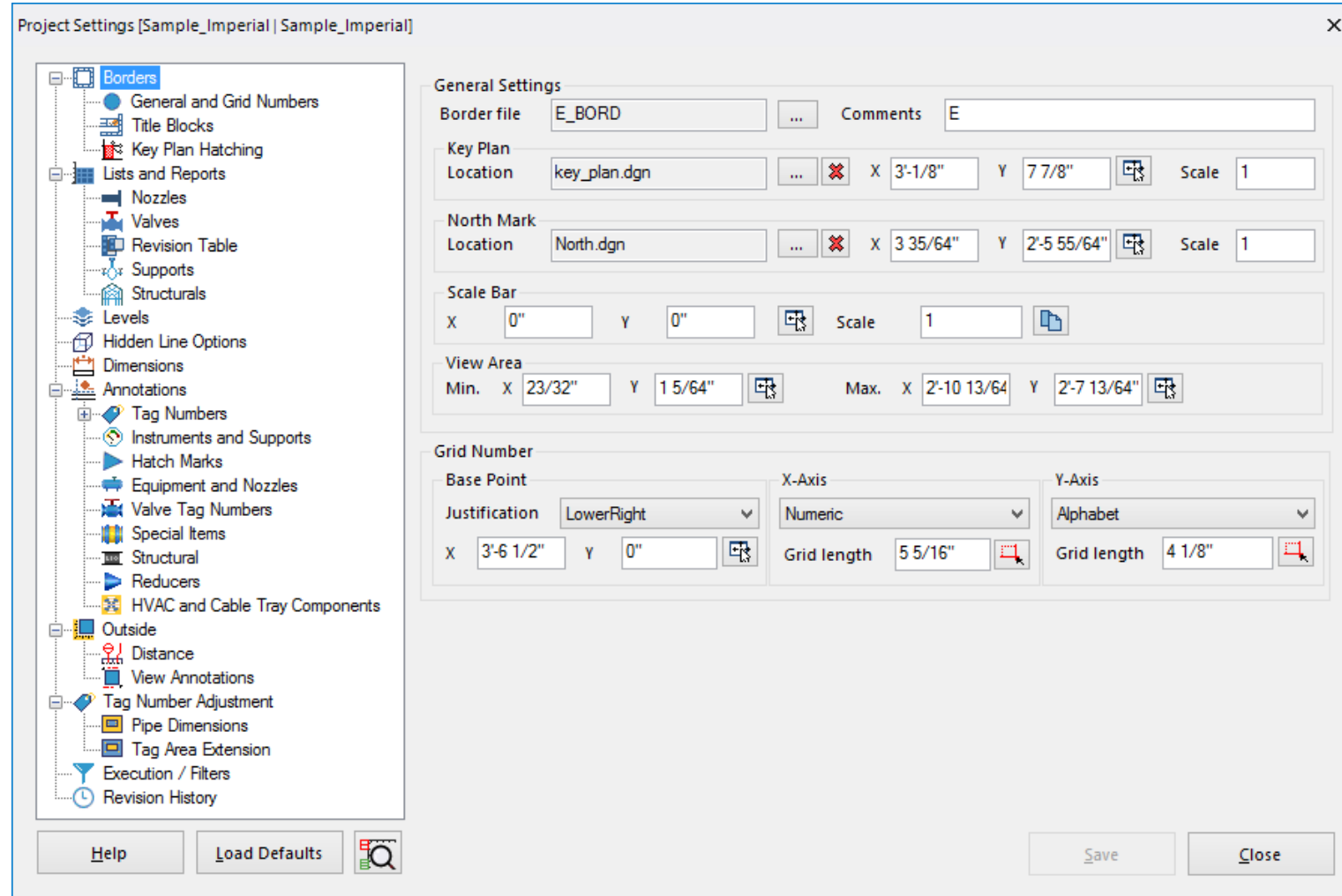
User Interface updates



# New Format for creating Settings

The screenshot displays the 'OpenPlant Orthographics Manager CONNECT Edition' software interface. The main window is titled 'OpenPlant Orthographics Manager CONNECT Edition' and features a ribbon menu with 'File', 'Home', 'Drawing Generation', 'Project', and 'Bentley Cloud Services' tabs. The 'Home' tab is active, showing icons for 'New', 'Load', 'Save As', 'Delete', 'Import', and 'Export'. Below the ribbon, there are two sections: 'View Arrangement Definition' and 'Excel'. The 'View Arrangement Definition' section shows a tree view with 'Metric Projects', 'Imperial Projects', and 'Sample\_Imperial' (selected). The 'Excel' section shows 'VAD Name' set to 'demo-all' and 'Setting Name' set to 'Sample\_Imperial'. Below these are two tables: 'Referenced Models' and 'All Referenced Models'. The 'Referenced Models' table has columns 'File Name' and 'Location' and lists 'pipe01.dgn' (Pipe), 'equipment01.dgn' (Equipment), 'structure01.dgn' (Structure), and 'AA' (Grid). The 'All Referenced Models' table lists 'pipe01.dgn' (Pipe), 'equipment01.dgn' (Equipment), 'structure01.dgn' (Structure), 'AA' (Grid), 'CableTray01.dgn' (CableT), and 'HVAC01.dgn' (CableT). Below the tables are 'View' and '3D Clipping Area and View Position' sections. The 'View' section shows 'v1' selected. The '3D Clipping Area and View Position' section has a 'Direction' dropdown set to 'Top' and a '3D Clipping Area' section with 'First Point: X' (-7'-8 21/64"), 'Y' (56'-8 29/32"), 'Second Point: X' (54'-3 9/32"), 'Y' (-3'-8 3/4"), and 'Elevation Min:Z' (-14'-3 23/32"), 'Max Z' (43'-6 13/32"). The 'View Output Position' section has 'Lower Left: X' (8"), 'Y' (7"), and 'Scale' (5/16" = 1'-0") and 'Rotation' (0). The status bar at the bottom shows 'Project Sample\_Imperial Setting Sample\_Imperial'.

# New Format for creating Settings






# Multiple Settings Per Project and Per View Area Definition(VAD)

Settings

Selected Setting Name

Setting Name	Comments	
Assembly		
E_Bord		
GeneralArrangement		
Sample_Imperial	Default	
test	Sample Imperial Project	

# Multiple Settings Per Project and Per View Area Definition(VAD)

VAD Name  Setting Name

Referenced Models

File Name	Location
pipe01.dgn	Pipe
equipment01.dgn	Equipment
structure01.dgn	Structure
AA	Grid

Do not clear list on add new defintion

All Referenced Models

File Name	Location
pipe01.dgn	Pipe
equipment01.dgn	Equipment
structure01.dgn	Structure
AA	Grid
CableTray01.dgn	CableT
HVAC01.dgn	CableT


# Multiple settings per project and per View Area Definition(VAD)

Input VAD (View Arrangement Definition) Files

Select all

VAD Name	Views	Setting	Date	Hidden line Draw
<input checked="" type="checkbox"/> demo-all	1	Assembly	07/18/2018	H_demo-all.dgn
<input type="checkbox"/> demo-cabletray	1	Sample_Imperial	07/18/2018	
<input type="checkbox"/> demo-eqp	1	Sample_Imperial	07/18/2018	
<input type="checkbox"/> demo-hvac	1	Sample_Imperial	07/18/2018	
<input checked="" type="checkbox"/> demo-pipe	1	GeneralArrange...	07/18/2018	
<input type="checkbox"/> demo-str	1	Sample_Imperial	07/18/2018	
<input type="checkbox"/> test_VAD	1	Sample_Imperial	09/18/2018	


Clear intermediate files     Do not add border  
 Hidden line drawings     Dimension / Annotation drawings

 Generate Drawings

Output (Hidden line and Annotation / Dimension) Files

Select all

File Name	Size	Date	Output Type
<input type="checkbox"/> H_demo-all.dgn	296 KB	9/19/2018 3:55:58 PM	Hidden line only
<input type="checkbox"/> O_demo-all.dgn	322 KB	9/19/2018 3:56:03 PM	Dimensions and anno...

 Delete Output



# OpenPlant Project Administrator

CONNECT Edition

# Project Administration

Configuration Settings **Tools** CONNECT Services

Class Editor Specification Generator Reporting Designer  
Other Applications

Configuration **Settings** Tools CONNECT Services

Schema Editor Associations Tag Editor Property Display 2D 3D Standard Preferences Joint Map  
Settings

Configuration Settings **Tools** CONNECT Services

Add Activate Create Custom Create V8i Import Create Custom Create Enable Schema Upgrade Add Collaborate V8i Import Remove Restore Empty  
Configuration WorkSpace WorkSet ProjectWise Edit

Configuration Settings **Tools** **CONNECT Services**

Associate Disassociate Personal Project Provision Import  
Projects Portals iModel

D:\Bentley\OpenPlant CONNECT Edition\Configuration\  
 Example  
 Workspace  
 AchemaP  
 DR  
 iMH  
 OpenPlant Modeler  
 OpenPlant PID  
 OpenPlantImperial  
 OpenPlantMetric  
 OpenPlant Modeler  
 OpenPlant Orthographics Manager  
 OpenPlant PID  
 OpenPlant Support Engineering

# V8i Schema Upgrade

The screenshot shows the OpenPlant Project Administrator CONNECT Edition interface. The 'Workset Schema Upgrade [iMH]' dialog box is open, showing the progress of the schema upgrade. The dialog has a sidebar with '1 Analyze' and '2 Upgrade' steps. The main area displays a summary of changes:

User Configurations				New Changes			
	New	Modified	Deleted		New	Modified	Deleted
Classes	0	0	0	Classes	0	0	0
Properties	0	0	0	Properties	0	0	0
Relationships	0	0	0	Relationships	0	0	0

Below the table, a progress bar indicates the analysis is 27% complete. The text 'Analyzing schema OpenPlant\_3D\_Supplemental\_Modeling for changes...' is displayed above the progress bar.



# Design Reviews



New

Open

Save

Save As

Save Settings

Send Mail

Tools

Settings

Properties

Print

Import

Export

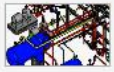
Publish i-model

Help

Exit

## Open

## Recent Files for AchemaP



Hydrotreater Mechanical.dgn

D:\Bentley\OpenPlant CONNECT Edition\Configuration\Workspaces\Workspace\WorkSets\AchemaP\WorkFiles\Models\Modeler\Backup HT\

Model: Default ▾

Modified: 30.05.2018 07:31:57

Size: 2143 KB



\_Hydrotreater Unit01.dgn

D:\Jaroslaw\Documents\04\_Dataset\Achema 2018\

Model: Default ▾

Modified: 29.05.2018 19:49:01

Size: 2319 KB



Browse

# Reality Modeling

OpenPlant Modeler - Hydrotreater Mechanical.dgn [3D - V8 DGN] - OpenPlant Modeler CONNECT Edition

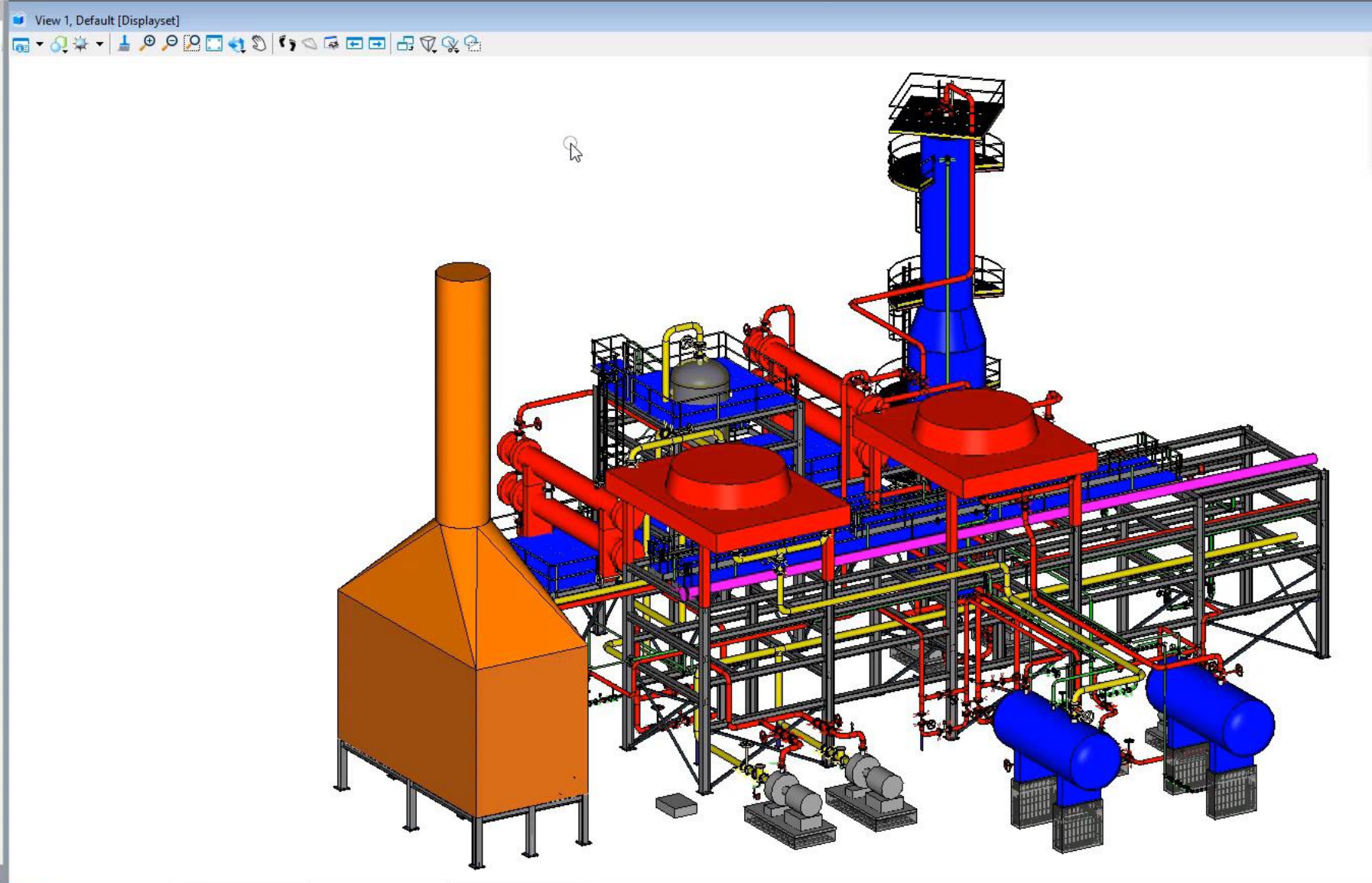
File Piping Equipment HVAC Raceways Supports Structural iModelHub View Annotate Utilities Analyze Drawing Aids

Element Selection Common Tools Primary Piping Galleries Piping Network Tools Manipulation

Move Join Break Apply Slope Stretch

Standard Preferences for Piping Component

Name	Value
Plant Associated Items	
Pipeline	02-BG-0012-CS150
Component	
Specification	CS150
Nominal Diameter	250
Insulation Thickness	0
Insulation Material	
Component State	Design



Element Selection

Navigation icons: pan, zoom, rotate, etc.

Standard Preferences for Pi... Component Gallery

Element Selection > Identify element to add to set

1 2 3 4 5 6 7 8 X 34048.08 Y -22944.93 Z 20987.28

Equipment



Thank You !