PRODUCT DATA SHEET

Bentley® OpenPlant Modeler V8*i* (SELECTseries 6)

Work Remotely or Connected with Support for Multiple Formats and Data Types

OpenPlant Modeler V8*i* (SELECTseries 6) is an accurate, rapid, design engineering solution for 3D plant design. It enhances project teams with mobile information, via ISO 15926, i-models, and support for multiple formats and data types, such as DGN, DWG, JT, point clouds, and PDF, to provide flexible design and review processes. OpenPlant Modeler is the right software for any project, large or small.

Interoperability Through Use of ISO 15926 as Intrinsic Data Model

OpenPlant Modeler is the first plant design software to use ISO 15926 as its intrinsic data model. The result is a significantly improved ability to dynamically exchange information among OpenPlant and other plant design software, supplier databases, and any applications using ISO 15926, without the need to communicate through proprietary interfaces.

Easy Reuse of Standards Facilitates Projects

Existing designs, models, and associated data, as well as catalogs and specifications from PDS, AutoPLANT®, and PlantSpace® can be easily reused, enabling faster project start-ups and design continuity. Existing PDS designs can be reviewed and augmented through ISO 15926 protocols or i-models to avoid proprietary lock-in.

Specification-driven Modeling Improves Designer Workflows

OpenPlant Modeler is a specification-driven modeling system that matches how a designer works. Designers can rapidly and easily create 3D models using the highly intuitive MicroStation® V8*i* task-based user interface.

Multi-practitioner Support Provides Integrated Design

OpenPlant Modeler V8*i* includes design functionality for piping, equipment, supports, instrumentation, HVAC, and other components to ensure projects deliver integrated design models. You can increase project collaboration with building design through the ability to define common gridlines across OpenPlant Modeler and AECOsim Building Designer. Moreover, you can accelerate projects through shared structural components across OpenPlant Modeler and OpenPlant Support Engineering.

Point Clouds Integrated with 3D Models Support Real-world Projects

Point clouds are a very useful way to visualize existing facilities or geospatial requirements. Through Bentley Descartes, OpenPlant Modeler integrates point clouds into 3D models to be used for retrofit design, providing a high level of accuracy, safety, and speed that reduces time to construction and eliminates field rework.

Easily Check P&IDs and 3D Models for Consistency to Improve Design Accuracy

OpenPlant Modeler reads OpenPlant PID supplied P&IDs, leveraging existing information to speed 3D design. This also enables consistency checking to help ensure that 3D models match the requirements of the critical P&ID documents needed for contractual and regulatory compliance.

Increase Project Collaboration

The software increaes project team collaboration with an environment that supports users working either stand alone or synchronized to the rest of the team in a distributed environment. Through the use of OpenPlant ModelServer and ProjectWise, OpenPlant Modeler users can participate in a globally dispersed project and be supported in a federated workflow. There is no need to replicate databases locally, or to always be connected.

OpenPlant Modeler allows users to improve collaboration, personal productivity, and information sharing by signing-in as a connected user and associating files with connected projects. Connected users can access personalized learning, communities, notifications, and project information. Connected projects provide project level reporting including which connected Users are working a project, how much time they are spending on a project, and what Bentley applications they are using. Get access to CONNECT Edition applications that can be leveraged to improve team collaboration and manage field data.

Reduce Costs by Reading Piping Specifications in Multiple Formats

In addition to working with OpenPlant's own catalog and specification capabilities, OpenPlant Modeler can directly read piping catalogs and specifications from PDS, AutoPLANT, and PlantSpace, speeding project start-up and reducing administration and checking costs.

ModelServer Component Browser Allows for Complete Project Insight

The ModelServer Component Browser in OpenPlant Modeler provides designers complete insight into the project, with check-in and check-out processes, allowing users to work on individual lines, a complete system, or on the entire project from any location.

System Requirements

Software
ProjectWise Explorer V8*i*
(SELECTseries 3) or higher

Prerequisites for Bentley Desktop Applications v08.11.09.03

Processor
Intel Pentium 4 or AMD processor, 3.0 GHz or greater; Intel or AMD Dual Core Processor, 2.0 GHz or greater

Operating System
Windows 7 (64-bit),
Windows 8.1 (64 bit)
Windows 10 (64 bit)

Memory
8 GB memory or greater recommended

Disk Space
2.5 GB free disk space (which includes the 2.4 GB install footprint for a complete installation)

Graphics Card
Any card that fulfills MicroStation V8*i* requirements - Graphics card supported by DirectX 9.0c, 256 MB of video memory or higher is recommended

Find out about Bentley at: www.bentley.com

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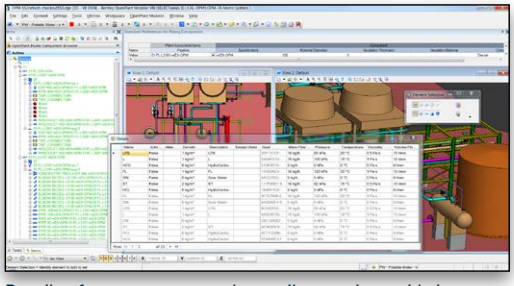
OpenPlant Modeler V8*i* (SELECTseries 6) At-A-Glance

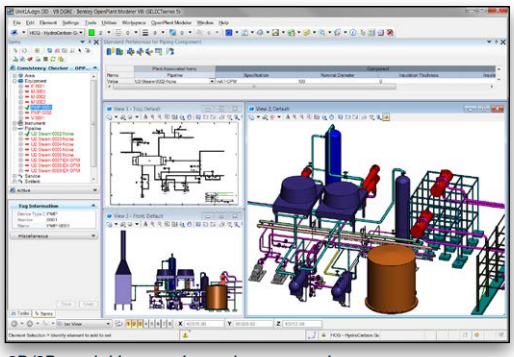
Open Data Model
- Uses ISO 15926 as the intrinsic data model
- Exchange data among applications using i-models
- Industry-leading interoperability
- Reference in i-models from heterogeneous systems including PDS, SP3D, and PDMS, to create complete plant models
- Publish plant models via i-models to Bentley Navigator for clash resolution, and ConstructSim for construction simulation and WorkFace Planning
- Export piping components to Bentley's Plant Exchange format (PXF) for use with Bentley AutoPIPE®
- Export to a wide range of formats such as DGN, DWG, DXF, IGES, CGM, STL, SVG, OBJ, U3D, and many more
- Import to formats including IGES, Parasolids, ACIS SAT, CGM, Step AP203/AP214, STL, Terrain Model Land XML, and CAD files

Ease of Use
- Leverages powerful MicroStation graphical user interface capabilities
- Provides for automatic data validation and connectivity
- Allows quick and easy copying of reusable design information
- Enables faster and more intelligent editing and modification of designs

Point-cloud Support
- Reference point clouds directly in 3D models
- Interact with point clouds using Bentley Descartes within OpenPlant Modeler
- Reuseable catalogs and specifications
- Take advantage of support for EN, DIN, and other enhanced catalogs to support European design standards
- Tag components using the KKS standard



Details of components can be easily seen in a grid view.



2D/3D model integration enhances project accuracy.

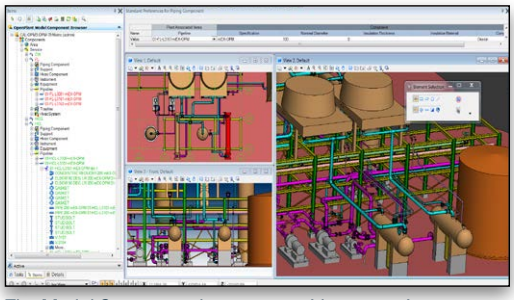
- Create piping specifications from scratch or by editing example specifications
- Access AWWA standard fittings to speed water/wastewater projects
- Access Lindab standard HVAC components
- Import specifications from AutoPLANT, PlantSpace Design Series, or PDS
- Define automatic bend, flange, and branch selections

Component Features
- Task-based menu that groups like components together (piping, equipment, cable tray)
- Element manipulators that provide easy editing
- Automatic placement of fittings
- Alignment to intersection with other components
- Ability to insert from any point on a component (such as branch, center, or run of a tee)
- Ability to change size and or specification of individual components or entire line

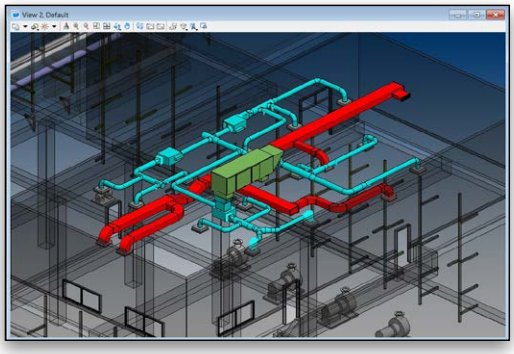
Project Workspaces
- Shares centrally managed catalogs and specifications
- Works in connected or disconnected mode
- Supports multiple projects from single model/data source when OpenPlant ModelServer is available

Material Reporting
- Enables powerful queries that allow selection by any property or field
- Generates global reports centrally from any or all project components

Clash Detection
- Provides the ability to run clash detection in the active design session



The Model Component browser provides a concise breakdown of the contents of the model repository.



HVAC components are integrated with piping for robust plant design.

Bentley
Advancing Infrastructure