OpenPlant Modeler is an accurate, rapid, design engineering solution for 3D plant design. It enhances project teams with mobile information, via ISO 15926, iModels, 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.

The CONNECT Edition
The SELECT® CONNECT Edition includes SELECT CONNECT services, new Azure-based services that provide comprehensive learning, mobility, and collaboration benefits to every Bentley application subscriber. Adaptive Learning Services helps users master use of Bentley applications through CONNECT Advisor, a new in-application service that provides contextual and personalized learning. Personal Mobility Services provides unlimited access to Bentley apps, ensuring users have access to the right project information when and where they need it. ProjectWise® Connection Services allow users to securely share application and project information, to manage and resolve issues, and to create, send, and receive transmittals, submittals, and RFIs.

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 iModels 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® task-based user interface.

Multi-practitioner Support Provides Integrated Design
OpenPlant Modeler 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 OpenBuildings™ 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 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.

Reality Modeling with ContextCapture and LumenRT Supports Brownfield Projects
OpenPlant Modeler makes it easier to work on brownfield projects by integrating with context capture reality models generated through digital photographs capturing existing condition. Reality visualization capabilities provide realistic data for reviews, project HAZOP and progress meetings.

Design the Digital Twin
OpenPlant supports integration with PlantSight that enables OpenPlant users to deliver digital twins for all their projects. OpenPlant users can leverage iTwin® OpenPlant Design Service to support distributed teams, utilize component-based workflows, and track and manage changes. The component-based workflows provide bidirectional referencing between 2D and 3D representations of digital plant components, ensuring reliable models, schematics, and construction deliverables. A digital twin ensures consistent and up-to-date engineering information across the design phase with continuous handover into operations.

Easily Check P&IDs and 3D Models for Consistency to Improve Design Accuracy
OpenPlant applications utilize common tagging mechanism providing OpenPlant Modeler capability to read 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 increases 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 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.

Reduce Costs by Reading Piping Specifications in MultipleFormats
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.
Details of components can be easily seen in a grid view.

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

2D/3D model integration enhances project accuracy.

HVAC components are integrated with piping for robust plant design.

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