



OpenPlant PowerPID

Open and Interoperable P&ID Product Based on ISO 15926 that Allows Any Application Using the Open Schema to Natively Share Data

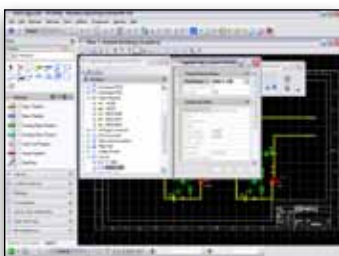
OpenPlant PowerPID is a productive and easy to use application for production of P&IDs allowing users to capture and reuse information in an open format. It reduces the time required to create these critical documents and enable the sharing of all process information across the lifecycle of the asset.



Task-based navigation and other advanced user interface features make the system easy to learn and use



Symbols and Assemblies, to speed the P&ID development process



Component Browser to view all components and their relationships to each other

Rapid Creation of Intelligent P&IDs

Many intelligent P&ID solutions are difficult to configure and use. OpenPlant PowerPID is different. It is an intelligent, data driven package leveraging the best features of P&ID products to create P&IDs swiftly and efficiently. OpenPlant PowerPID allows users to generate specification driven P&IDs using the rules engine to validate components based on piping specifications. OpenPlant PowerPID also has parametric drafting routines to speed up drawing generation. Task-based navigation and other advanced user interface features make the system easy to learn and use.

Database Integration and Reporting

OpenPlant PowerPID can work as a standalone application or connected to the Plant Project Database to provide both portability and integration with other Bentley Plant Design applications. Reporting valve lists, line lists, instrument lists, equipment lists and more are all key pieces of information for project scope and costing. OpenPlant PowerPID provides both a robust reporting system including the ability to export to Microsoft Excel in the application and detailed project-wise reporting through Bentley Data Manager when connected to the Plant Project Database.

P&IDs are the controlling document for engineering projects and operating facilities. It is important that users can maintain consistency with their company or industry standards.

Consistency Checking

P&IDs are consistently being revised and it is important to track changes down to the attribute level for insuring regulatory compliance. OpenPlant PowerPID allows users to save revisions or versions of their drawings through Design History

and can also be integrated with ProjectWise for storage and access to these different revisions.

Revisions and Versioning

P&IDs are consistently being revised and it is important to track changes down to the attribute level for insuring regulatory compliance. OpenPlant PowerPID allows users to save revisions or versions of their drawings through the Design History feature. All revisions are saved, even after a revision rollback so users can restore to their original starting point as well.

Symbols and Assemblies

To speed the P&ID development process, OpenPlant PowerPID includes symbols that conforms to ISA and ISO standards and a complete set of piping and instrumentation line types such as major, minor, pneumatic, electric and DIN. To further speed P&ID creation OpenPlant PowerPID includes a component management tool that supports symbol customization and readily modifies the data and tag numbers of the assembly components.

Component Browser

Data integrity and data access are becoming more important to customers as standards compliance becomes a bigger business driver. OpenPlant PowerPID comes with a powerful browser that allows users to see a full list of all the components in the drawing and their relationships to one another as well as visualize and edit any of the data associated with the components on the drawing.

System Requirements

Before you install the OpenPlant PowerPID software, you should confirm that you have adequate hardware and software capabilities to install and use the product. You must have a CD drive or Internet access for product installation. The following prerequisites are required to run PowerPID.

Installation Requirements

CD drive or access to the Internet required for product installation.

Operating System

Windows Vista (32-Bit), Windows XP Professional (SP2 or later), Windows Server 2003 (SP1 or later)

Software Prerequisites

The Desktop Prerequisite Pack v08.11.07 needs to be installed to your workstation prior to the installation of OpenPlant PowerPID V8i. The Desktop Prerequisite Pack is available from the Web downloads/MySELECT CD area of SELECTservices Online.

Minimum Profile

The minimum recommended workstation profile for running OpenPlant PowerPID is:

Processor

Intel or AMD processor 3.0 GHz or greater

Memory

512 MB minimum, 2 GB recommended. More memory almost always improves performance, particularly when working with larger models.

Hard Disk

900 MB free disk space (which includes the 400 MB install footprint for a complete installation)

Video

Graphics card supported by DirectX 9.0c. See the graphics card manufacturer for latest information on DirectX drivers. 256 MB of video RAM or higher is recommended. If insufficient video RAM or no graphics card supported by DirectX can be found, MicroStation attempts to use software emulation.

For optimal performance, graphics display color depth should be set to 24-bit or higher. When using a color depth setting of 16-bit, some inconsistencies will be noted.

OpenPlant PowerPID At-A-Glance

Rapid P&ID Creation

- Parametric vessels, control valves and instrumentation
- Advanced user interface features for ease of use and quick learning such as task-based navigation, toolbars, picklists and more.
- Advanced drafting utilities include automatic line break/mend with configurable breaks, line tag updates, instrument bubble break/mend and attribute display dialogs.
- Component replacement tool to swap out similar type components for one another without having to delete and re-create.
- Improved assembly management functionality including inline assemblies.
- Ability to preview assemblies and define and modify data and tag numbers for the components in the assembly prior to insertion.

Data Management

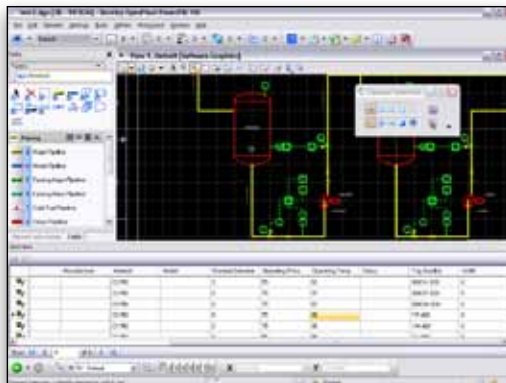
- Engineering orientated browser to view relationships between components and all component properties. The browser allows you to see all the connectivity and all of the inline components for pipelines.
- Element information dialogs to browse specific components or sets of components.

Consistency Checking

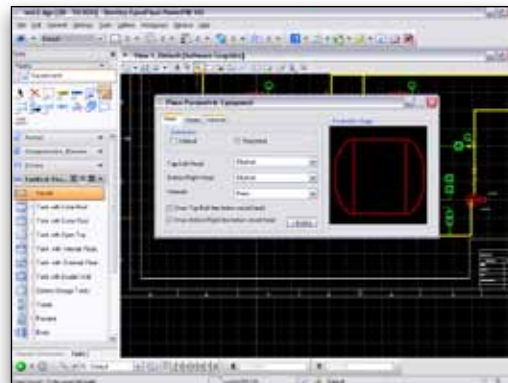
- Rules engine for the validation of components based on user needs. These rules can be based on simple algorithms or on complex user design guidelines.
- Rules can also be used to create specification driven P&IDs. By tying the rules engine to the piping specifications, components can be validated based on whether the piping specifications allow the specific components themselves or the design of the components.

Advanced P&ID Functions

- Intelligent annotations for lines and equipment. Line annotations accurately reflect line attributes at all occurrences on the drawing.
- Page connectors for automatic look-up and reuse of to/from data across multiple drawings. An active list of open to/from connectors can be used to connect to other drawings in the project and initiate line routing.
- User-definable tag formats can include any field associated to that class to ensure drawing accuracy. OpenPlant PowerPID can also be configured to ensure tag uniqueness.
- Tagging can be done upon placement or users can draft their P&IDs and then come back and tag their items later.



Fully functional and extremely flexible reporting system



Parametric drafting routines to speed up drawing generation

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