



New Features Summary

PowerDesigner® 16.5

Windows

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New Features v16.5

The following sections describe the new features available in PowerDesigner® v16.5.

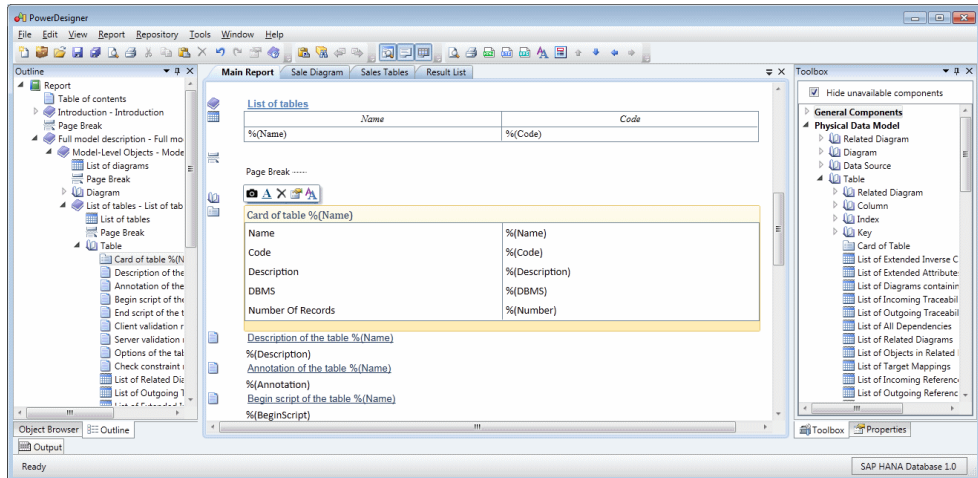
New Core Features v16.5

PowerDesigner v16.5 includes new core features available for all models.

Reports

The PowerDesigner Report Editor has been completely rearchitected to provide a more powerful graphical environment in which to design your model and multi-model reports:

- The synchronized Design and Outline views allow you to work on the detailed content and formatting of report elements in the context of the overall structure.
- Extensions are handled seamlessly in the Toolbox and other views.
- Report item, content and format editing are simplified and easily accessible through the Design view command bar, and changes are instantly visible.
- Titles and free text paragraphs are editable directly in the Design view.
- HTML generation is rebuilt to provide a modern, easily-configurable output.



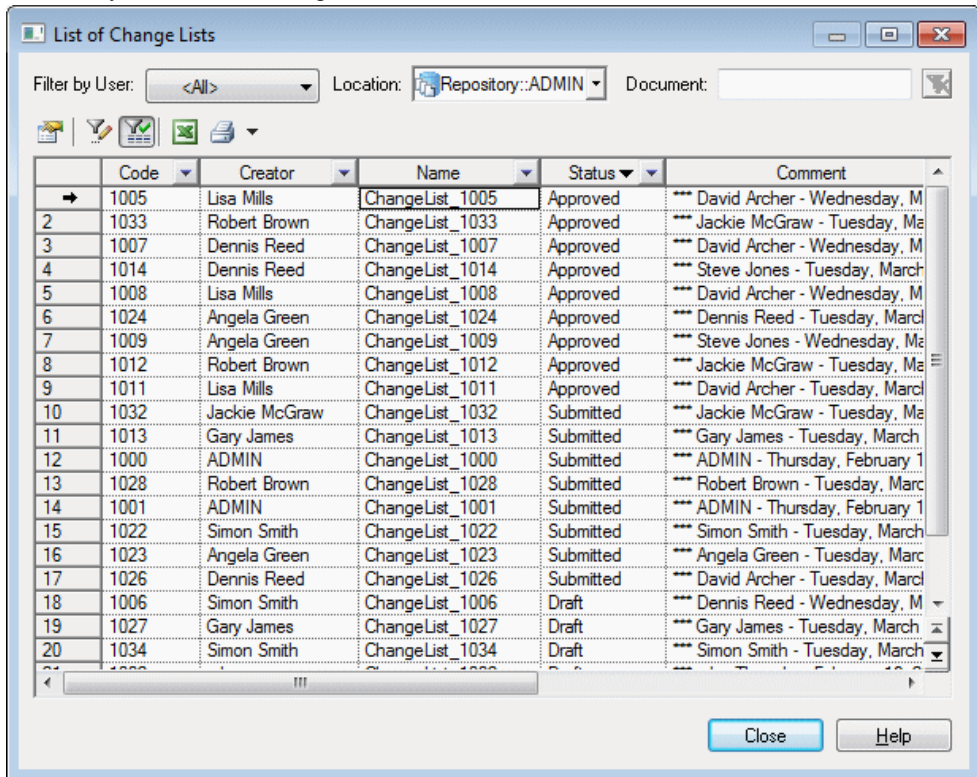
To allow you time to experiment with the new format and editor, and to migrate your existing reports at your chosen pace, this version of PowerDesigner will continue to support the legacy Report Editor, which is now deprecated and will be removed in a future release. This release provides the option to create reports in the new or legacy format, and a simple one-click upgrade is provided to convert existing reports to the new format.

Documented in:

- *Core Features Guide > Storing, Sharing and Reporting on Models > Reports*

Change Lists

The new Submit permission provides administrators with finer control over changes to repository documents. Users with this permission, which can be set on a repository folder or model, are required to check their changes into a change list to be reviewed by one or more reviewers instead of writing directly to the location. Users with the Write permission can voluntarily check into a change list.



Users can add one or more models or other documents to a change list all at once, or over several check ins. Documents checked into a change list are stored in a special folder in the repository and their contents are not available to other users until they have been approved.

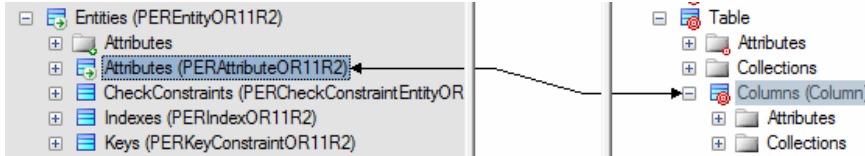
Documented in:

- *Core Features Guide > Storing, Sharing and Reporting on Models > The Repository > Change Lists*

Importing XML Files

You can now import objects from an XML file by defining mappings between the elements in the XML schema and objects in the PowerDesigner metamodel (and extensions). The import

mappings are defined in an extension file, can be shared with all users through the repository library, and are accessed by selecting **File > Import > Import Name**.

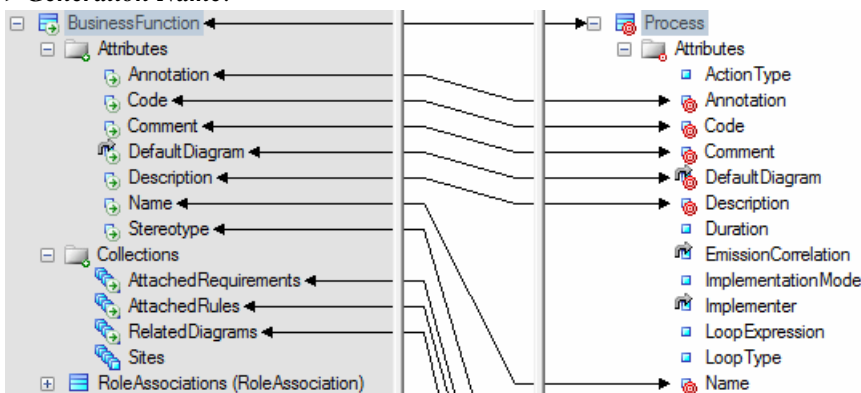


Documented in:

- *Core Features Guide > Modeling with PowerDesigner > Objects > Importing Objects from XML Files*

Object Generation Enhancements

You can now define advanced object generations to generate one or more types of object to any other types of object, with complete control over how all the attributes, compositions (sub-objects), and aggregations (related objects) will be mapped to the generated objects' properties. The generation mappings are defined in an extension file, can be shared with all users through the repository library, and are accessed by selecting **Tools > Generate Objects > Generation Name**.



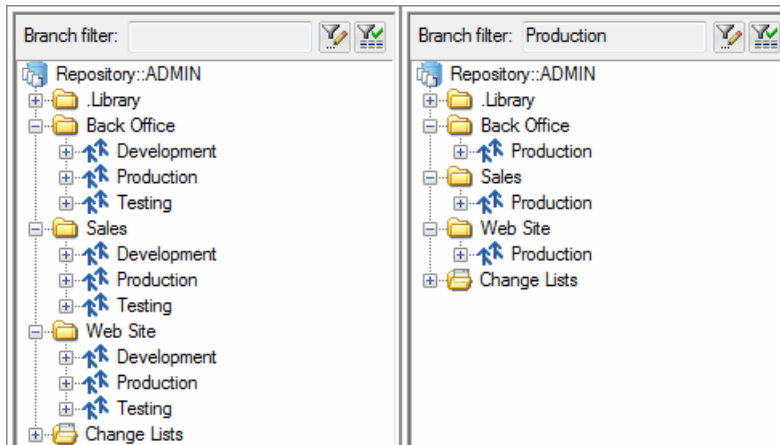
Documented in:

- *Core Features Guide > Linking and Synchronizing Models > Generating Models and Model Objects*

Repository Branch Enhancements

The new branching mechanism introduced in v16.1 has been enhanced to provide:

- A branch filter in the Browser Repository tab:



- Model permissions per branch.

Documented in:

- *Core Features Guide > Storing, Sharing and Reporting on Models > The Repository > Branching Version Trees*

PowerDesigner Portal Enhancements

The following enhancements have been made to the PowerDesigner Portal:

- Branch filtering in the Repository Explorer.
- Support for change lists.

Documented in:

- *Core Features Guide > Storing, Sharing and Reporting on Models > The PowerDesigner Portal*

Repository Local Model Cache

A new local cache on your workstation is provided to speed up checking models into and out of the repository.

Documented in:

- *Core Features Guide > Modeling with PowerDesigner > Customizing Your Modeling Environment > General Options > Repository Options*

Up-to-Dateness of Shortcuts Visible in Browser

The models listed in the Target Models category of the Browser now display status icons to indicate whether a newer version is available in the Repository.

Documented in:

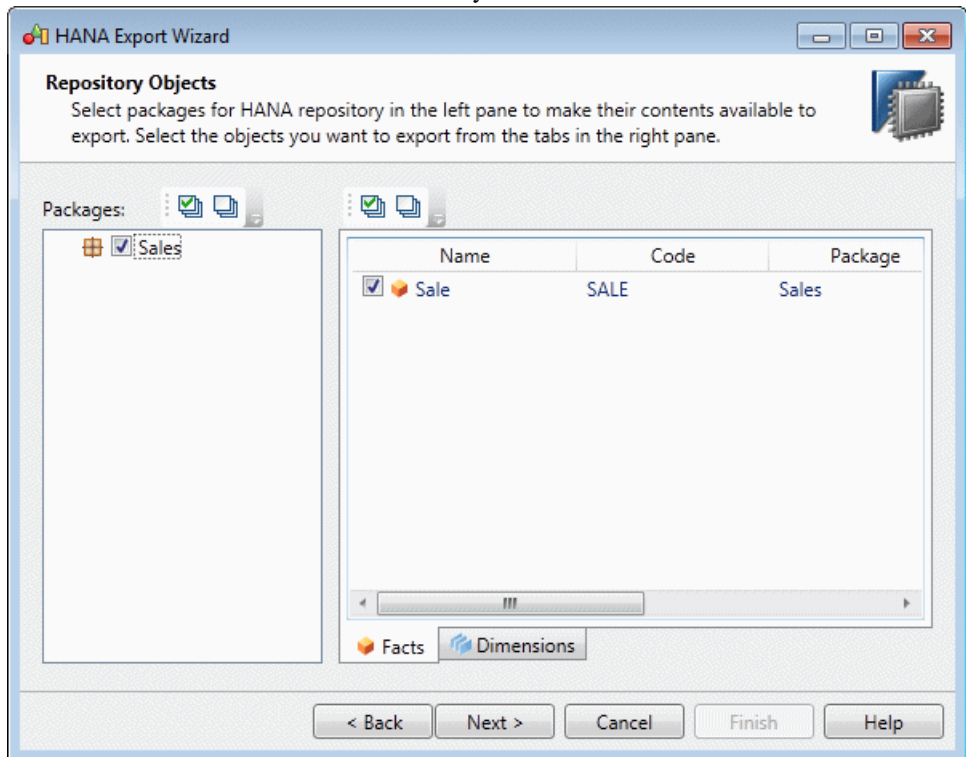
- *Core Features Guide > Linking and Synchronizing Models > Shortcuts and Replicas > Working with Target Models*

New SAP Platform Features v16.5

PowerDesigner v16.5 includes new support for SAP platform solutions.

SAP HANA

PowerDesigner supports modeling and round trip reverse-engineering and generation of SAP HANA® Database v1.0 SP5 tables and analytic and attribute views.



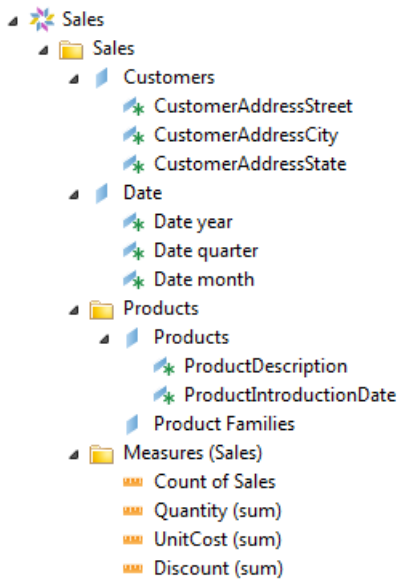
Documented in:

- *Data Modeling > DBMS Definition Reference > SAP HANA Database*

SAP BusinessObjects

PowerDesigner supports generation of a SAP® BusinessObjects™ universe from your PDM for editing in the BusinessObjects Universe Design or Information Design tools, or for direct consumption by the Web Intelligence rich client. Generating a universe from your PDM gives you access to table, view, and column names and comments and more reliable cardinality information than if you create a universe directly from your database.

New Features v16.5

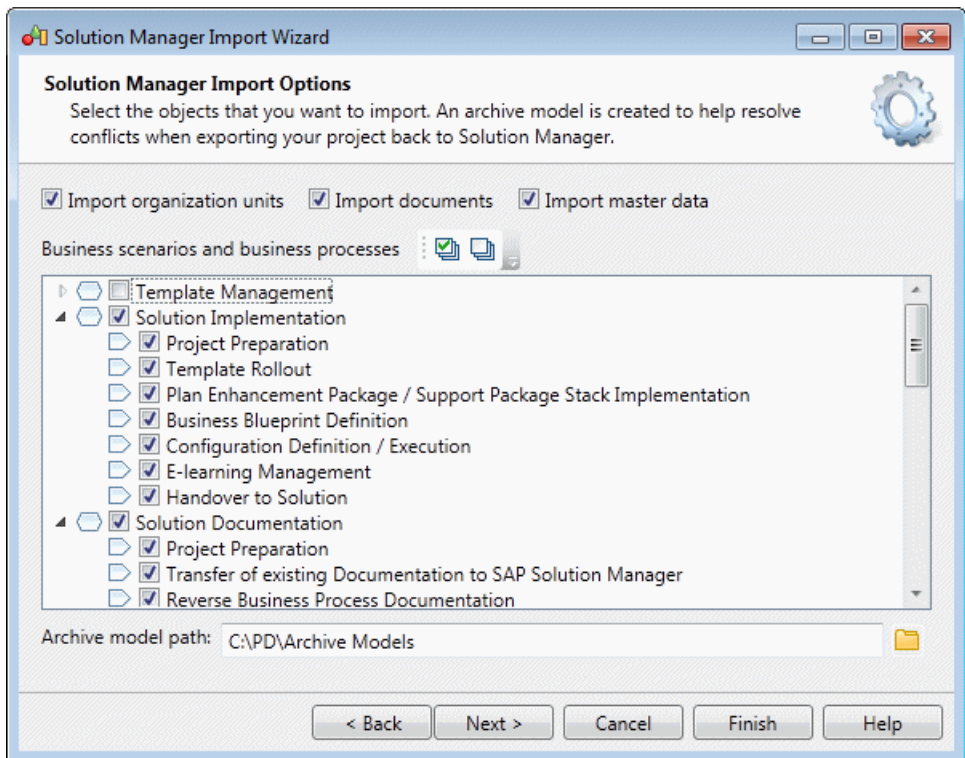


Documented in:

- *Data Modeling > Building Data Models > Generating and Reverse-Engineering Databases > Generating a BusinessObjects Universe*

SAP Solution Manager

PowerDesigner supports modeling and round trip reverse-engineering and generation of SAP® Solution Manager v7.1 business processes.



Documented in:

- *Business Process Modeling > Process Language Definition Reference > SAP Solution Manager*

SAP NetWeaver

PowerDesigner supports modeling and round trip reverse-engineering and generation of BPMN2 files, with a particular emphasis on supporting SAP NetWeaver® v7.3 and higher, SAP Streamwork tools, and the Eclipse BPMN2 Modeler.

Documented in:

- *Business Process Modeling > Process Language Definition Reference > Business Process Modeling Notation (BPMN)*

New Business Process Model Features v16.5

PowerDesigner v16.5 includes new features for the Business Process Model (BPM).

BPMN 2.0 Enhancements

PowerDesigner supports modeling and round trip reverse-engineering and generation of BPMN2 files, with a particular emphasis on supporting SAP NetWeaver v7.3 and higher, SAP Streamwork tools, and the Eclipse BPMN2 Modeler.

Documented in:

- *Business Process Modeling > Process Language Definition Reference > Business Process Modeling Notation (BPMN)*

SAP Solution Manager

PowerDesigner supports modeling and round trip reverse-engineering and generation of Solution Manager v7.1 business processes.

Documented in:

- *Business Process Modeling > Process Language Definition Reference > SAP Solution Manager*

New Data Model Features v16.5

PowerDesigner v16.5 includes new features for the Physical Data Model (PDM).

Improved Cube Support

The PowerDesigner metamodel for cubes has been refined and extended to simplify modeling of multidimensional objects.

Documented in:

- *Data Modeling > Building Data Models > Multidimensional Diagrams*

New or Enhanced DBMS Support

The following DBMS versions are added:

- SAP HANA Database v1.0 SP5 (see *New SAP Platform Features v16.5* on page 5)
- IBM DB2 for Common Server v9x - Federated System support
- Sybase SQL Anywhere v16.0
- Microsoft SQL Server 2012
- Green Plum 4.2 (not certified, not documented)

Documented in:

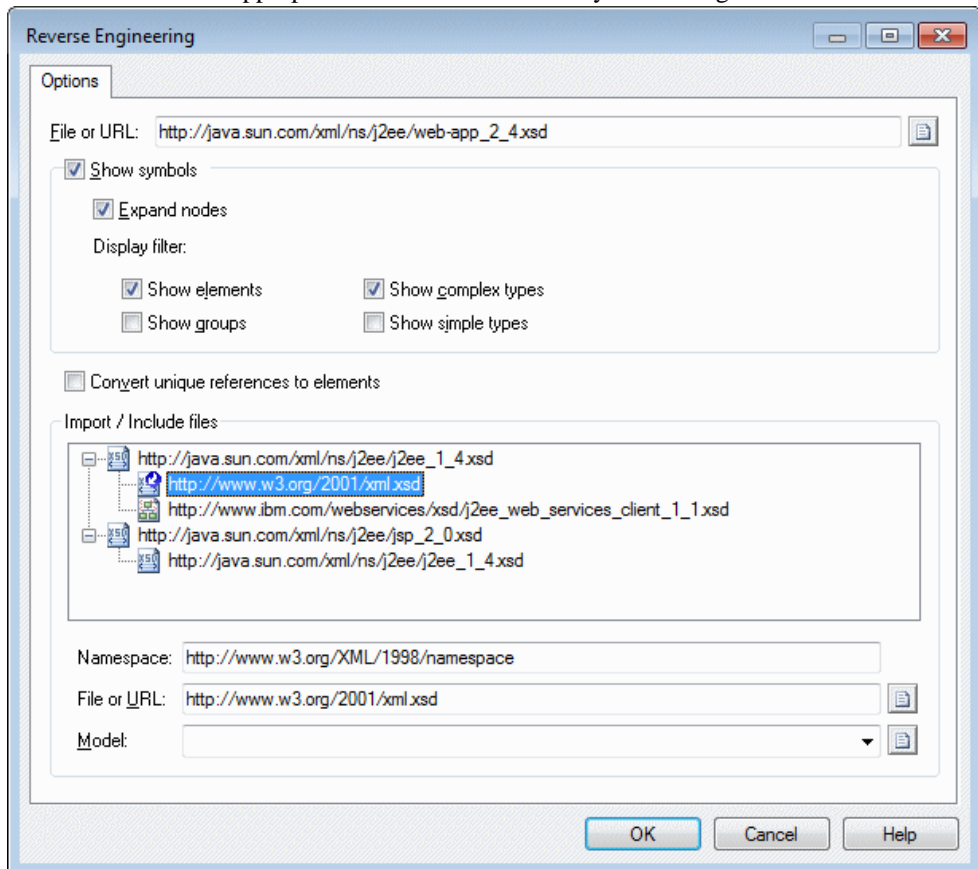
- *Data Modeling > DBMS Definition Reference*

New XML Model Features v16.5

PowerDesigner v16.5 includes new features for the XML Model (XSM).

Reverse-Engineering Enhancements

The reverse-engineering mechanism has been completely re-architected to support reverse engineering of both local files and URLs, including multiple schemas connected through Import and Include elements. File dependencies are displayed in a tree form, and any file can be substituted for an appropriate other file or URL or by an existing XML model:



Each schema is imported as a separate XML model with appropriate shortcuts connecting them.

Documented in:

- *XML Modeling > Generating and Reverse Engineering XML Schemas and Other Models*

Complex Type Enhancements

XSM support for complex types has been enhanced to provide the following:

- Elements typed with a complex type deploy the complex type and child elements on their symbols.
- Mappings can be created to or from individual instances of the complex type in the Mapping Editor.
- Shortcuts to complex types in other models can be displayed and mapped to in the Mapping Editor.

Documented in:

- *XML Modeling > XML Diagrams > Complex Types (XSM)*

XML Model Generation Enhancements

New global generation options support generating PDM tables and OOM classes as elements with or without complex types and PDM columns and OOM attributes as elements or attributes, while object-by-object generation settings are supported through an extension.

Documented in:

- *Core Features Guide > Linking and Synchronizing Models > Generating Models and Model Objects*