SYBASE®

New Features Summary

PowerDesigner® 15.1

Windows

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New Core Features

The following new features are available for all types of PowerDesigner® models.

New Model Dialog

The **New Model** dialog has been completely redesigned to provide greater visibility to the diagrams that are available in each type of model. The new dialog is customizable so that you can:

- Organize the choice of models however you want
- Hide certain kinds of models from certain kinds of users
- Restrict or predefine the choice of target language using a new kind of model template

Documented in:

- **Core Features Guide > Getting Started with PowerDesigner > The PowerDesigner Interface**
- **Core Features Guide > Customizing Your Modeling Environment > Guiding Model Creation through Categories and Templates**

Welcome Page

The new **Welcome** page gives you one-click access to all your recent projects, workspaces, and models, as well as providing a direct link to the New Model and New Project dialogs and a range of help materials.

Documented in:

- **Core Features Guide > Getting Started with PowerDesigner > The PowerDesigner Interface**

Metamodel Extension Wizards

You can now quickly add extensions to your PowerDesigner models with wizards available directly from object property sheets. You can specify new attributes and lists of associated objects and the changes to the underlying PowerDesigner metamodel are automatically saved in an extended model definition, which can be deployed to other users and edited in the Resource Editor.

Documented in:

- **Core Features Guide > Objects > Extending Objects > Adding New Properties to an Object**

Dependency Matrix

Dependency matrices, which allow you to analyze the dependencies between different kinds of objects, now display the hierarchy of parent objects. You can now display dependencies between types of objects that are not directly related by constructing complex paths traversing the PowerDesigner metamodel using the new Dependency Path Definition dialog.

Documented in:

- **Core Features Guide > Diagrams and Symbols > Dependency Matrices**

More Diagrams with Customizable Display Preferences

Extended objects, packages, and all the objects in the following kinds of diagrams now have completely customizable display preferences, which allow you to display any of their attributes and collections in any order that you want on their diagram symbols:

- Enterprise Architecture Model - All diagrams
- Business Process Model - All diagrams
- Data models:

  - Physical Data Diagram
  - Multidimensional Data Diagram
- Object-Oriented Model:
  - Interaction Overview Diagram
  - Deployment Diagram
  - Use Case Diagram

Documented in:

- **Core Features Guide > Customizing Your Modeling Environment > Display Preferences**

Improved Property Filtering

The **Customize Columns and Filter** dialog now includes a new Operator column with a list of common operators to simplify writing filter expressions.

Documented in:

- **Core Features Guide > Objects > Object Lists > Customizing Object List Columns and Filtering Lists**

Improved RTF Support

The PowerDesigner RTF editor provides improved support for tables and bulleted lists and the preservation of Word formatting. It now allows the insertion of pictures anywhere RTF input is supported.

Other New Core Features

- *Metamodel Help More Accessible* - You can now access the documentation of the PowerDesigner metamodel directly from an object's property sheet.
- *Right-Clicking a Group of Symbols* - When you select a group of symbols and right-click any of them, you can now modify all of them in any way that is appropriate.
- *Plugin Support* - The PowerDesigner plugin for Eclipse now supports Eclipse v3.4.

New Project and Framework Features

The following new features are available for PowerDesigner projects and frameworks.

Framework Diagram

The new framework diagram provides support for modeling frameworks that are not based on a matrix format. You can create framework nodes and draw connections between them in any format required. Individual nodes can be decomposed into sub-framework diagrams. Framework diagram nodes support all the same kinds of actions as framework matrix cells.

Documented in:

- **Core Features Guide > Projects and Frameworks**

Save Order Between Folders and Models

You can now reorder folders and models within a project by drag and drop.

New Enterprise Architecture Model Features

The following new features are available for the PowerDesigner Enterprise Architecture Model (EAM).

New Object Properties

Many objects in the EAM have additional properties to enable you to model them more fully.

Documented in:

- **Enterprise Architecture Modeling**

Richer Diagrams

Hardware and software servers, network nodes, workstations, mobile devices, and networks, previously only available in technology infrastructure diagrams are now also authorized in application architecture diagrams.

In city planning diagrams, business functions can now be decomposed and display sub-functions.

Documented in:

- **Enterprise Architecture Modeling**

Improved Exchange of Objects with Other Models

When importing or exporting objects from or to other PowerDesigner models, sub-objects are now automatically included.

Documented in:

- **Enterprise Architecture Modeling > Working with Enterprise Architecture Models > Exporting and Importing Objects to and from Other Models**

Improved Visio Import

You can now import custom properties defined in Visio.

Documented in:

- **Enterprise Architecture Modeling > Working with Enterprise Architecture Models > Importing Visio Diagrams into PowerDesigner**

New Business Process Model Features

The following new features are available for the PowerDesigner Business Process Model (BPM).

Improvements to Business Process Diagram

Business process diagrams can now contain multiple pools of swimlanes. Linking between pools is supported, and you can group swimlanes and specify custom names for these groups.

Documented in:

- **Business Process Modeling > Building Business Process Diagrams**

Improved Visio Import

You can now import custom properties defined in Visio.

Documented in:

- **Business Process Modeling > Working with Business Process Models > Importing Visio Diagrams into PowerDesigner**

New Physical Data Model Features

The following new features are available for the PowerDesigner Physical Data Model (PDM).

Sybase IQ - Information Lifecycle Management

Sybase IQ 15.0 provides new data placement capabilities and supports hierarchical storage management with relocation of less critical data to cheaper storage. PowerDesigner provides a simple modeling structure to cost effectively manage "aging" of data inside the data center from 1st tier high performance storage for frequently accessed data through 2nd tier near-line storage for data that is infrequently accessed to 3rd tier archive storage for data that must remain available for regulatory audits.

Documented in:

- **Data Modeling > DBMS-Specific Features > Sybase AS IQ**

DBMS Triggers

DBMS triggers are now supported for Oracle and MS SQL Server. These triggers are not associated with any table or view, and fire on modifications to the database structure itself, such as the creation or dropping of a table, or events like startup, shutdown, login etc. DBMS triggers can use trigger templates and trigger template items, just like table and view triggers.

Documented in:

- **Data Modeling > Building Triggers and Procedures > DBMS Triggers (PDM)**

New or Enhanced DBMS Support

The following DBMS versions are added or enhanced:

- Teradata v12
- IBM DB2 UDB v9.5 Common Server
- Sybase IQ v15.0 and v15.1

Documented in:

- **Data Modeling > DBMS-Specific Features**

New Information Liquidity Model Features

The following new features are available for the PowerDesigner Information Liquidity Model (ILM).

Replication Server® v15.x

PowerDesigner now supports modeling for Replication Server® v15.x, and new usability enhancements make it easier to select maintenance users from attached PDMs. Data mapping for heterogeneous replication environments is now supported to allow the transparent remapping of datatypes for Oracle and other non-Sybase primary databases.

Documented in:

- **Information Liquidity Modeling > Working with Replication Server**

New Object-Oriented Model Features

The following new features are available for the PowerDesigner Object-Oriented Model (OOM).

XMI - Improved Support

PowerDesigner now supports the import and export of UML models in the format XMI v2.1.

Documented in:

- **Object-Oriented Modeling > Working with Object-Oriented Models > Importing and Exporting an OOM in XMI Format**

Improvements to Activity Diagram

Activity diagrams now support the creation of multiple starts and multiple pools of swimlanes. Linking between pools is supported, and you can group swimlanes and specify custom names for these groups.

Documented in:

- **Object-Oriented Modeling > Building Dynamic Diagrams**

Improvements to State Diagram

The State diagram now supports forks and joins, and states can be decomposed directly in the parent diagram.

Documented in:

- **Object-Oriented Modeling > Building Dynamic Diagrams**

New Repository Features

The following new features are available for the PowerDesigner Repository.

LDAP

You can now configure repository access to be controlled by an LDAP server, so that it is no longer necessary to create separate repository accounts.

Documented in:

- **Working with the Repository > Repository Administration > Controlling Repository Access with LDAP**

Resource Sharing

You can now store and deploy PowerDesigner resource files (target DBMSs, OO languages, etc) via the repository. A new auto-update option means that your team will always have the latest version of your modeling target with all your extensions. You can combine your shared resource files with the new Model Category Sets to enforce their use for model creation.

Documented in:

- **Working with the Repository > Working with Repository Documents > Sharing Resources in the Repository**

Hyperlinks in Stored Diagrams in Repository Web Browser

Now you can click on any object symbol in a diagram viewed in the Repository Web Browser, and go directly to the object's property sheet.