SYBASE®
An SAP® Company

New Features Summary

PowerDesigner® 16.0

Windows

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New Features v16.0

The following sections describe the new features available in PowerDesigner® v16.0.

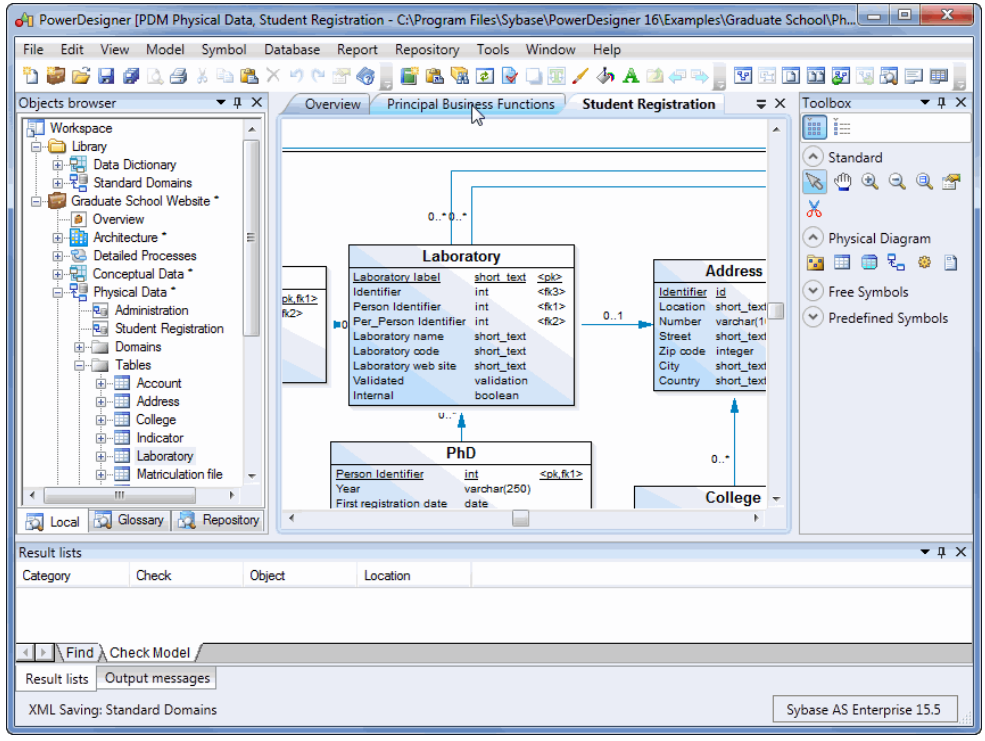
Note: The documentation for the repository has been moved to the Core Features Guide in this version. In addition, a new Quick Reference guide, which provides an overview of core and module-specific features, is available as a PDF and as part of the online help collection.

New Core Features v16.0

PowerDesigner v16.0 includes new core features available for all models.

New Interface

The code underpinning the PowerDesigner interface has been rewritten to provide a contemporary look and feel.



The new environment provides:

- A dockable toolbox with an autohide option, list and icon modes, and collapsible sections.

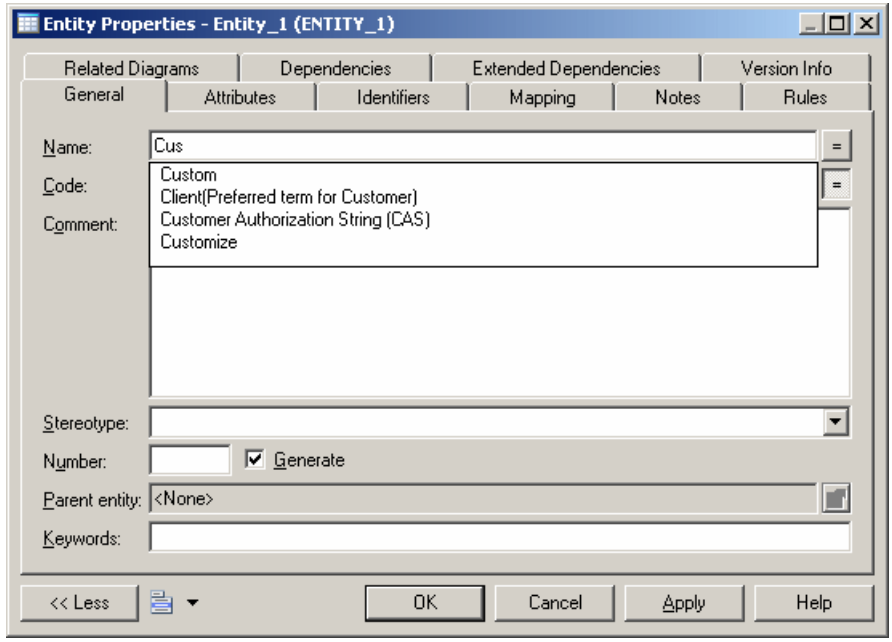
- Tabbed diagram views
- Full customization of menus, toolbars, and toolboxes
- Improved window management

Documented in:

- *Core Features Guide > The PowerDesigner Interface > Customizing Your Modeling Environment*

Enterprise Glossary

In environments with a repository, administrators can deploy an enterprise glossary of terms approved for use in your environment to a special repository folder, which pushes the glossary to users to help ensure enterprise-wide consistency.



Users automatically receive updates to the glossary whenever they connect to the repository. The glossary is displayed in the Browser **Glossary** tab and, when enabled in a model, provides auto-completion for object names and codes, and model checks to measure and encourage glossary compliance.

Documented in:

- *Core Features Guide > The PowerDesigner Interface > The Browser > The Glossary*

Enterprise Library

In environments with a repository, administrators can deploy an enterprise library of reference models to a special repository folder, which pushes them to users to help ensure enterprise-wide consistency.

Users automatically receive updates to the library models whenever they connect to the repository. The library is displayed in a special folder in the Browser **Local** tab, and users can create shortcuts to and replications of these enterprise objects in their project models.

Documented in:

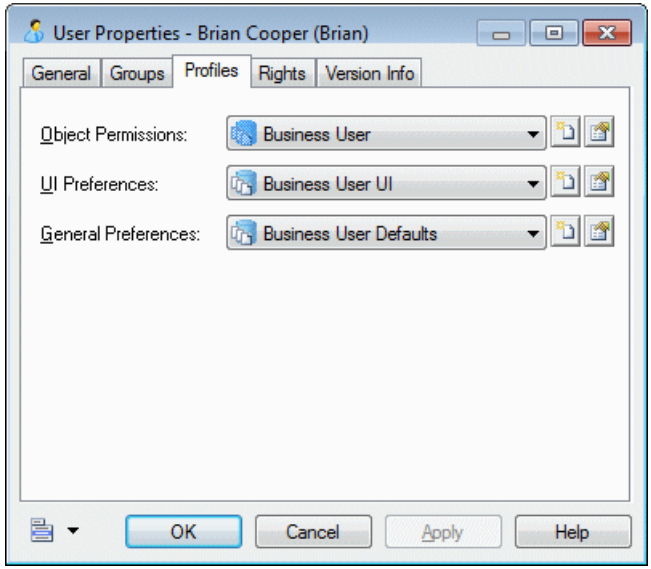
- *Core Features Guide > Administering PowerDesigner > The Browser > The Library*

Role-Based Interface Customization

In environments with a repository, administrators can now use powerful profiles to customize and simplify the PowerDesigner interface for different kinds of users.

You can develop object permissions profiles to hide models, objects, and properties, or make models available in read-only form. In addition, you can develop UI and general preferences profiles to set defaults for menus, toolbars, and toolboxes, options and preferences.

These profiles are associated with users and groups in the repository and pushed to users to provide role-based customization of the PowerDesigner environment.



Note: This feature is not supported for the XML model (XSM).

Documented in:

- *Core Features Guide > Administering PowerDesigner > Customizing the PowerDesigner Interface*

Impact Analysis Enhancements

Enhancements to impact analysis now allow you to launch an analysis from a local model and continue finding connected objects in models stored in the repository. You can also lauch an analysis on any object in the repository or from the PowerDesigner Portal.

Documented in:

- *Core Features Guide > Linking and Synchronizing Models > Impact and Lineage Analysis*

Shortcut Improvements

External shortcuts from one model to another now display all the properties of their source object, even when its model is closed or unavailable.

Note: This feature is not supported for the XML model (XSM).

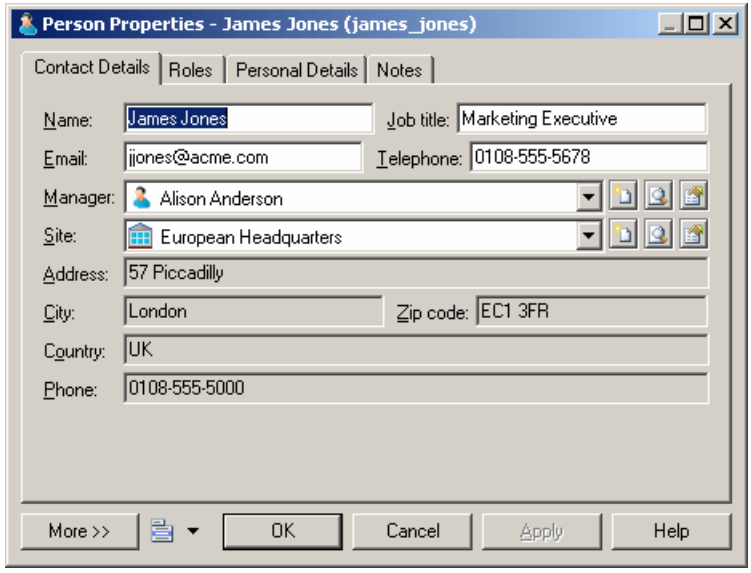
Documented in:

- *Core Features Guide > Linking and Synchronizing Models > Shortcuts and Replicas > Creating Shortcuts > Shortcut Properties*

Customizing Property Sheets

In addition to the already rich customization available for object property sheets, you can now:

- Replace any standard property sheet tab
- Include forms within forms
- Create property sheet tabs containing sub-tabs



Documented in:

- *Customizing and Extending PowerDesigner > Extension Files > Forms (Profile)*

Extended Dependency Renaming and Enhancements

Extended dependencies are renamed as "traceability links". The new links allow you to create links between any kinds of object, to specify new types of links, and to group links by object type or by link type in the **Traceability Links** tab of each object property sheet.

Documented in:

- *Core Features Guide > Linking and Synchronizing Models > Getting Started with Linking and Synching > Creating Traceability Links*

New Environments

The following new environments are supported:

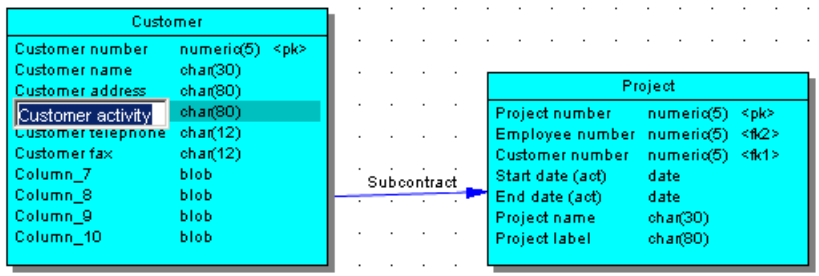
- Windows 64-bit versions
- Eclipse v3.6
- Microsoft Office 2010 and Visio 2010 - import add-ins

New Symbol Features v16.0

PowerDesigner v16.0 includes new features for symbols available for all models.

Enhanced Symbol Editing

You can now edit most object properties directly from diagram symbols. You can also add, edit, and delete sub-objects, and drag and drop sub-objects from one symbol to another.

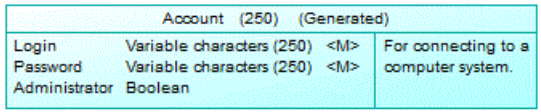


Documented in:

- *Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Symbols*

Horizontal and Vertical Symbol Layouts

New options provide greater flexibility for organizing properties on symbols, allowing multiple properties on a line and columns of properties.

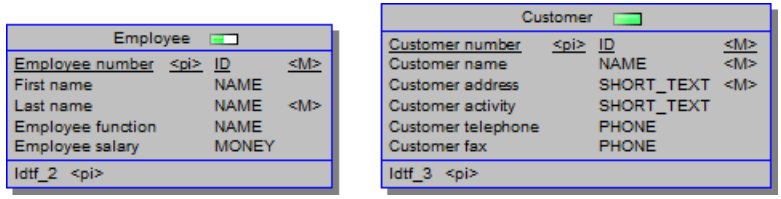


Documented in:

- *Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Display Preferences*

Attribute Value Icons

You can now create sets of icons to represent extended attribute values on diagram symbols. In the following example, each entity symbol displays an icon at its top-right corner to indicate progress:

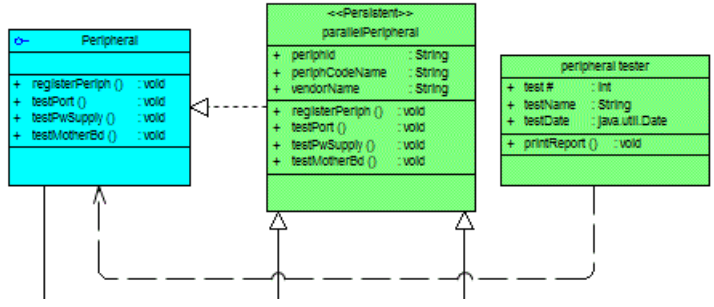


Documented in:

- *Customizing and Extending PowerDesigner > Extension Files > Extended Attributes (Profile)*

Automatic Link Routing and Link Bridges

Most diagrams now support a new algorithm for automatically optimizing link paths and routing them around object symbols. When link paths must cross, a bridge or "line hop" is added to clarify the flows.



Note: These display preferences are enabled by default for new models, but need to be set manually for models created in previous versions of PowerDesigner.

Documented in:

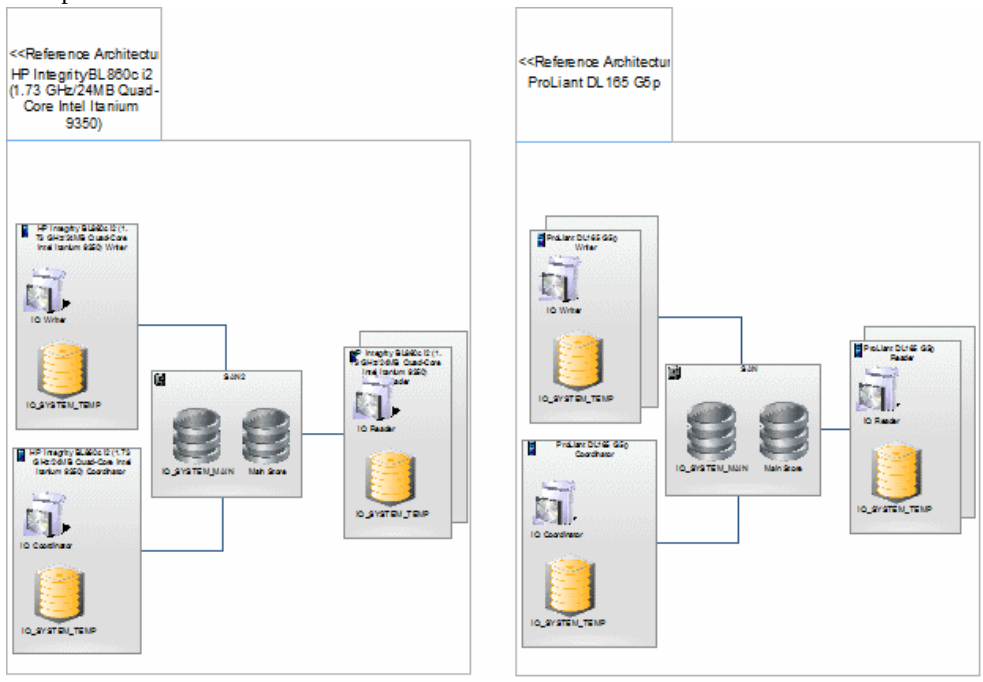
- *Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Symbols*

New Data Model Features v16.0

PowerDesigner v16.0 includes new features for the Physical Data Model (PDM).

Sybase IQ Reference Architecture Sizing

PowerDesigner now provides a special EAM model to help you determine the architecture required to deploy a Sybase® IQ data warehouse solution to meet your anticipated workload. An advisor wizard generates architectures based on one or more hardware servers, and comparison tools help you choose the best architecture based on your requirements for cost and speed.



Documented in:

- *Enterprise Architecture Modeling > Sybase IQ Reference Architecture Model*

Customizable Data Type Mapping

When changing DBMS or generating one PDM from another, you can now specify mappings of data types down to the individual column level.

Documented in:

- *Data Modeling > Working with Data Models > Generating Other Models from a Data Model > Generating Other Models from a PDM > Specifying Custom Data Type Mappings*

New or Enhanced DBMS Support

The following DBMS versions are added or enhanced:

- DB2 UDB v9.7 for Common Server
- DB2 v10.x for z/OS
- Netezza v5.0
- MS Access 2007 and 2010
- MS SQL Server 2008 R2 (supported via the MS SQL Server 2008 DBMS definition file)
- Sybase Active Server Enterprise v15.7

Documented in:

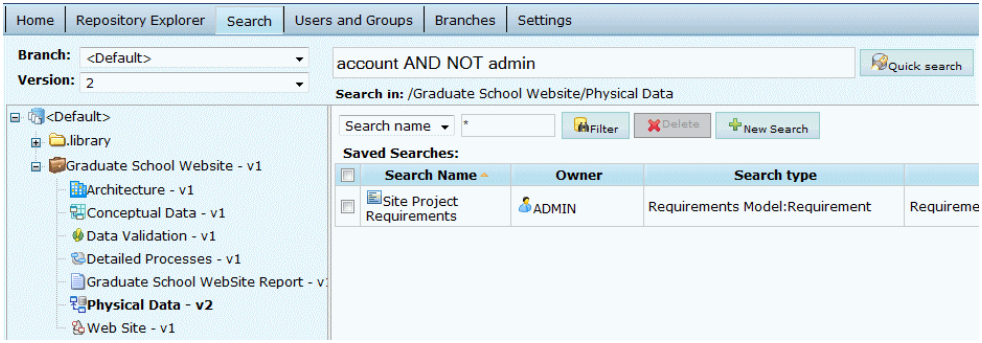
- *Data Modeling > DBMS Definition Reference*

New PowerDesigner Portal Features v16.0

PowerDesigner v16.0 includes new features for the PowerDesigner Portal.

Quick Search

A new Quick Search bar is available at the top of the Search page, which allows you to search directly on names, codes, and other fields of type string or text without the complexity of setting up a query.



Documented in:

- *Core Features Guide > The PowerDesigner Interface > The PowerDesigner Portal > PowerDesigner Portal Search*

Editing Comments, Descriptions, and Annotations

Users with the new PowerDesigner Portal Composer license can now edit the comments, descriptions, and annotations of objects directly in the PowerDesigner Portal.

Documented in:

- *Core Features Guide > The PowerDesigner Interface > The PowerDesigner Portal > PowerDesigner Portal Repository Explorer > Editing Object Comments and Descriptions*

Impact Analysis

Impact and lineage analysis is now available on the **Analysis** tab of the property sheet of all objects in the PowerDesigner Portal Repository Explorer.

Documented in:

- *Core Features Guide > The PowerDesigner Interface > The PowerDesigner Portal > PowerDesigner Portal Repository Explorer > Impact and Lineage Analysis in the PowerDesigner Portal*

New Features v15.3

The following sections describe the new features available in PowerDesigner® v15.3.

Note: The Information Liquidity Model (ILM) was renamed to Data Movement Model (DMM) in this version.

New Core Features v15.3

PowerDesigner v15.3 includes new core features available for all models.

Object List Enhancements

The following enhancements are available in object lists:

- Export list to Excel
- Print list with WYSIWYG preview
- Rapid in-column filtering
- Customize columns in lists containing multiple types of objects

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Objects > Object Lists**

Create Diagram from Selection

You can now create a new diagram from a selection of symbols using the new **Create Diagram from Selection** command.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Diagrams > Creating a Diagram**

Create Related Diagrams

You can now create a new related diagram for an object directly from the **Related Diagram** tab or using the new **Related Diagram** submenu.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Diagrams > Specifying Diagrams as Related Diagrams**

Multi-Selection in Matrices

You can now select and modify multiple cells in matrices.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Diagrams, Matrices, and Symbols > Dependency Matrices**

Display Preferences

All PowerDesigner 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.

In addition, the interface has been simplified to make access to format and content preferences available on tabs in a single dialog.

Documented in:

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

UI Simplifications

The PowerDesigner user interface has been simplified in the following areas:

- The Share and Copy radio buttons on the New Model dialog and in other parts of the interface are replaced by a single **Embed Resource in Model** tool.
- The Merge Models now displays a single tree view showing the anticipated result of the merge. You can revert to the former double-tree view format by clicking the **Show Source Model** button at the top left of the pane.

Plugin Support

The PowerDesigner plugin for Visual Studio now supports Visual Studio 2010.

New Business Process Model Features v15.3

PowerDesigner v15.3 includes new features for the Business Process Model (BPM).

BPMN 2.0

PowerDesigner now provides support for modeling business processes in BPMN 2.0 conversation diagrams, choreography diagrams, collaboration diagrams, and process diagrams.

Documented in:

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

Message Format Linked to XSM

You can now use an XML model (XSM) to model the definition of a message format

Documented in:

- **Business Process Modeling > Building BPMs > Business Process Diagrams > Message Formats (BPM)**

New Data Model Features v15.3

PowerDesigner v15.3 includes new features for the Physical Data Model (PDM).

Sybase IQ Information Lifecycle Management
Support for information lifecycle management is extended to handle the movement of indexes associated with the tables managed by the lifecycle. In addition, an improved lifecycle property sheet now displays all the elements required to define a lifecycle on a single tab.

Documented in:

- **Data Modeling > Building Data Models > Physical Implementation > Lifecycles (PDM)**

Estimate Database Size Enhancements
The Estimate Database Size mechanism now includes support for the growth in size of a database over a period of years, and the estimation algorithms can be customized through scripts in the DBMS definition file.

Documented in:

- **Data Modeling > Working with Data Models > Generating and Reverse-Engineering Databases > Generating a Database from a PDM > Estimating Database Size**

Data Profiling Enhancements
Data profiling constraints have been enhanced to provide better case support and reuse of test data profiles, and data formats can now be reused between multiple objects.

Documented in:

- **Data Modeling > Building Data Models > Physical Diagrams > Columns (PDM) > Setting Data Profiling Constraints**

Oracle Database Package Templates
Database packages can now be defined through a template, so that PowerDesigner will generate packages specific to each table and update them automatically when you make changes to the table definition.

Documented in:

- **Data Modeling > DBMS Definition Reference > Oracle > Database Packages (Oracle) > Database Package Templates**

Metamodel Enhancements

The PDM metamodel has been simplified to provide better support for schemas, materialized views, join indexes, and inner joins.

New or Enhanced DBMS Support

The following DBMS versions are added or enhanced:

- Teradata v13
- HP Neoview
- Sybase SQL Anywhere v12

Documented in:

- **Data Modeling > DBMS Definition Reference**

New Repository Features v15.3

PowerDesigner v15.3 includes new features for the Repository.

Simplified Check In

A new simplified check in dialog is available, which hides less frequently used check in options behind an **Advanced** button.

Documented in:

- **Working with the Repository > Working with Repository Documents > Checking Documents into the Repository**

PowerDesigner Portal Enhancements

The following enhancements are available in the PowerDesigner Portal:

- Customizable result columns on Search page
- Navigation through shortcuts to the target object
- Support for downloading external documents (Word etc)
- Customizable custom color themes and logos on the PowerDesigner Portal website
- Lists of sub-objects are now displayed as tabs on the parent object property sheet
- Clicking on a diagram in the Explorer displays the diagram
- Sortable columns can be sorted by clicking on the column header

Documented in:

- **Working with the Repository > Browsing the Repository Via the Web**

New Features v15.2

The following sections describe the new features available in PowerDesigner® v15.2.

New Core Features v15.2

PowerDesigner v15.2 includes new core features available for all models.

Generating Objects to Other Models

You can now define your own generations of any modeling object to any other modeling object. These new object generations work in the same way as the standard PowerDesigner model generations but are completely configurable and allow you to generate only the objects you need to any kind of model. Generation links between the source and target (generated) objects mean that you can keep the linked models synchronized.

Documented in:

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

Excel Import

There is new support for importing lists of objects and object properties from Excel spreadsheets to any model type via the **File > Import** menu. A simple wizard walks you through mapping your Excel lists and columns to PowerDesigner objects and properties.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Objects > Importing Objects from Excel Files**

Autosave

A new option instructs PowerDesigner to autosave your changes to a recovery backup file at a configurable interval to let you recover your work in the event that your modeling session exits abnormally.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Customizing Your Modeling Environment > General Options**

Naming Conventions

Camel case and headless camel case are now supported for code naming conventions. Changes to name to code conversion scripts can now be applied immediately to currently synchronized (or all) objects.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > Customizing Your Modeling Environment > Naming Conventions**

Dependency Matrix Enhancements

The following enhancements are available for dependency matrices:

- Export the matrix to an Excel file
- Enhanced filtering of rows and columns with persistent filtering
- Vertical column headers available
- Row heights and column widths are persisted
- Extensions now treated as standard objects
- WYSIWYG print preview and improved printing

Documented in:

- **Core Features Guide > Diagrams, Matrices, 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:
  - Business Process Diagram
  - Process Hierarchy Diagram
- Conceptual Data Model - All diagrams
- Logical Data Model - All diagrams
- Physical Data Model - All diagrams
- Data Movement Model:
  - Transformation Control Flow Diagram
- Object-Oriented Model - All diagrams

Documented in:

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

RTF Formatting Preserved in HTML Reports

RTF formatting including images, tables, hyperlinks and font formatting are preserved in the generation of HTML reports.

New Object Mappings

Object mappings are now supported in both directions between the following kinds of models:

- LDM-OOM
- LDM-PDM
- LDM-CDM

Documented in:

- **Core Features Guide > Linking and Synchronizing Models > Object Mappings**

Improvements to Metamodel Extensions

Many improvements have been made to PowerDesigner's support for metamodel extensions (see **Customizing and Extending PowerDesigner > Extending Your Models with Profiles**), including:

- Exclude standard metaclasses from the interface to simplify your working environment (see **Metaclasses (Profile) > Metaclass Properties**)
- Specify a display label and default columns when displaying a collections as a property sheet tab (see **Extended Collections and Compositions (Profile) > Extended Collection/Composition Properties**)
- Specify display labels for custom forms and collections in the interface (see **Extended Collections and Compositions (Profile) > Extended Collection/Composition Properties**)
- Specify a format for text extensions to obtain format-specific editors (see **Extended Attributes (Profile) > Extended Attribute Properties**)
- Specify a display label for, and associate contextual help with, custom forms (see **Forms (Profile) > Form Properties**)
- Specify icons on tool buttons calling methods on custom forms (see **Forms (Profile) > Adding Extended Attributes and Other Controls to Your Form > Form Control Properties**)
- Finer-grained control over the format and content of custom symbols (see **Core Features Guide > The PowerDesigner Interface > Diagrams and Symbols > Manipulating Symbols > Symbol Format Properties**)

New Environments

The following new environments are supported:

- Windows 7
- Windows 2008 Server
- Eclipse v3.5

New Enterprise Architecture Model Features v15.2

PowerDesigner v15.2 includes new features for the Enterprise Architecture Model (EAM).

Cluster Servers and Virtual Machines

You can now model complex machine-in-machine environments using hardware and software servers and workstations.

Documented in:

- **Enterprise Architecture Modeling > Servers, Workstations, Mobile Devices, and Network Nodes (EAM) > Modeling Cluster Servers and Virtual Machines**

New Data Model Features v15.2

PowerDesigner v15.2 includes new features for the Conceptual, Logical, and Physical Data Models (CDM, LDM, and PDM).

Sentence Generation from Relationships

English language sentences derived from the roles specified on CDM/LDM relationships between entities are now available on the relationship property sheet, and can be displayed on symbols and in reports.

Documented in:

- **Data Modeling > Building Data Models > Conceptual and Logical Diagrams > Relationships (CDM/LDM) > Relationship Properties > Relationship Property Sheet Cardinalities Tab**

Sybase IQ Information Lifecycle Management

Support for information lifecycle management is extended to handle access-based lifecycles and movement of pre-lifecycle data.

Documented in:

- **Data Modeling > Building Data Models > Physical Implementation > Lifecycles (PDM)**

Batch Import of ERwin Files

You can now import batches of ERwin files in a single operation using a new wizard.

Documented in:

- **Data Modeling > Working with Data Models > Migrating from ERwin to PowerDesigner**

Generate PDMs from XSMs
You can now generate a PDM database structure from an XML schema.

Documented in:

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

New or Enhanced DBMS Support
The following DBMS versions are added or enhanced:

- Sybase IQ v15.2
- Sybase ASE v15.5

Documented in:

- **Data Modeling > DBMS Definition Reference**

New Data Movement Model Features v15.2

PowerDesigner v15.2 includes new features for the Data Movement Model (DMM).

Replication Server v15.2/15.5 Enhancements
PowerDesigner provides new support for:

- Simplified connections to non-ASE replicate databases through connection profiles and connectors
- [v15.5 and higher] High Volume Adaptive Replication (HVAR)
- [v15.5 and higher] Generation of `alter replication definition` scripts
- Replication of SQL Statements (SQLMDL)

Documented in:

- **Data Movement Modeling > Working with Replication Server**

New Repository Features v15.2

PowerDesigner v15.2 includes new features for the Repository.

Extensions Visible in Repository Browser and PowerDesigner Portal
Extended objects and their properties now have the same status and visibility as standard objects in the repository Browser and PowerDesigner Portal.

Reuse Saved Searches in the PowerDesigner Portal
You can now save search queries created in the PowerDesigner Portal interface for reuse.

Documented in:

- **Working with the Repository > Browsing the Repository Via the Web > PowerDesigner Portal Search**

New Features v15.1

The following sections describe the new features available in PowerDesigner v15.1.

New Core Features v15.1

PowerDesigner v15.1 includes new core features available for all 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 > The PowerDesigner Interface > Getting Started with PowerDesigner > Creating a Model**
- **Core Features Guide > The PowerDesigner Interface > 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 > The PowerDesigner Interface > Getting Started with PowerDesigner > The Welcome Page**

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 extension file, which can be deployed to other users and edited in the Resource Editor.

Documented in:

- **Core Features Guide > The PowerDesigner Interface > 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 > The PowerDesigner Interface > Diagrams, Matrices, 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:
  - Use Case Diagram
  - Activity Diagram
  - Statechart Diagram
  - Interaction Overview Diagram
  - Deployment Diagram

Documented in:

- **Core Features Guide > The PowerDesigner Interface > 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 > The PowerDesigner Interface > 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 v15.1

PowerDesigner v15.1 includes new features for 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 > The PowerDesigner Interface > 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 v15.1

PowerDesigner v15.1 includes new features for the 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 > Importing to and Generating and Exporting from an EAM > 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 > Importing to and Generating and Exporting from an EAM > Importing Visio Diagrams into PowerDesigner**

New Business Process Model Features v15.1

PowerDesigner v15.1 includes new features for the 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 BPMs > 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 Data Model Features v15.1

PowerDesigner v15.1 includes new features for the 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 Definition Reference > 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 Data Models > 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 Definition Reference**

New Data Movement Model Features v15.1

PowerDesigner v15.1 includes new features for the Data Movement Model (DMM).

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:

- **Data Movement Modeling > Working with Replication Server**

New Object-Oriented Model Features v15.1

PowerDesigner v15.1 includes new features for the 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 OOMs > 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. In addition you can now decompose activities directly in the parent diagram using the editable composite view mode.

Documented in:

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

Improvements to Statechart Diagram

The Statechart diagram now supports forks and joins, and states can be decomposed directly in the parent diagram using the editable composite view mode.

Documented in:

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

New Repository Features v15.1

PowerDesigner v15.1 includes new features for the 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 PowerDesigner Portal

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