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WHAT IS POWERDESIGNER® 11?

A model driven approach to align business and IT. PowerDesigner is an enterprise modeling and design solution that empowers IT professionals to produce solutions effectively, from defining business needs to analysis and design, integrating all modern RDBMS and development for Java™ .NET, PowerBuilder® and Web Services. PowerDesigner is a unique set of modeling tools combining several standard modeling techniques: application modeling through UML, Business Process Modeling and market-leading data modeling, all supported by a powerful meta-data management solution.
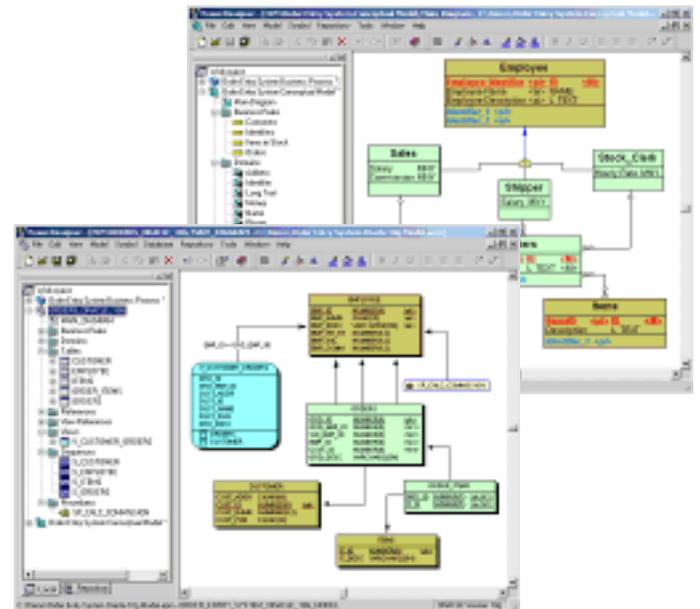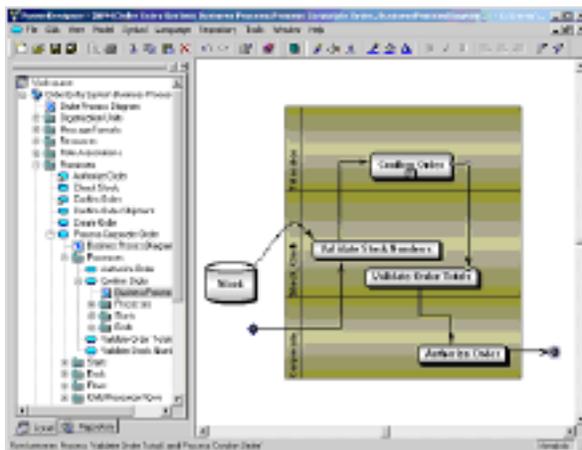
PRODUCT DESCRIPTION

PowerDesigner is a model-driven analysis and design solution that aligns business and IT to enable enterprises to build information systems quickly and cost effectively. PowerDesigner offers capabilities for a variety of roles and responsibility across the enterprise. PowerDesigner offers advanced teamwork and meta-data management using a central enterprise repository and has open support for all major development platforms.

PowerDesigner supports the following modeling techniques:

■ **Requirements Management:** PowerDesigner supports requirements definitions that can be linked to any number of analysis and design models to document requirement traceability to all analysis and design artifacts. Import/ Export with Microsoft® Word® links the business users directly into the process.

■ **Business Process Modeling:** PowerDesigner supports intuitive, non-technical business process hierarchy and flow diagrams with links to Simulation (via Simul8). PowerDesigner's model driven approach allows analysis-level UML models to generate to more detailed design models targeting specific process language, thus documenting the business view and the technology view of a Service Oriented Architecture (SOA). Design-level process models document, generate and reverse engineer ebXML, BPEL4WS and Sybase Unwired Orchestrator structures.

■ **Data Modeling:** PowerDesigner supports Conceptual, Logical and Physical Data models based on Information Engineering or IDEF 1/x notation. PowerDesigner's Conceptual and Logical models provide database-independent analysis level models, fully linked to multiple physical models for true multi-level design.
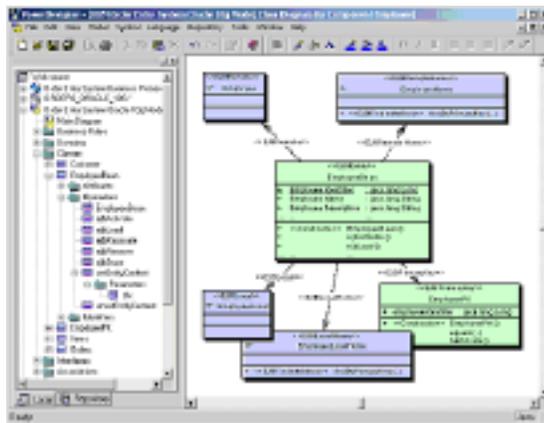
PowerDesigner's Physical models document, generate and reverse engineer structures for over 45 RDBMS vendor/ versions including the latest Oracle®, IBM® (including Informix® and Red Brick™ Warehouse), Microsoft (SQL Server and Access), Sybase (including ASE, ASA and IQ), NCR Teradata, MySQL and many more. Support includes all database objects, Java, XML and Web Services in the Database, Users, Groups and Permissions and much more.

■ **XML Modeling:** PowerDesigner also supports XML-specific modeling techniques to document, generate and reverse engineer XML Schema and XML DTD structures. The XML models are linked to process models to document message formats or other XML exchanges. They are also linked to UML models which document components responsible for managing XML and data models (supporting simple as well as complex, many-to-many mappings, between database structures and XML).
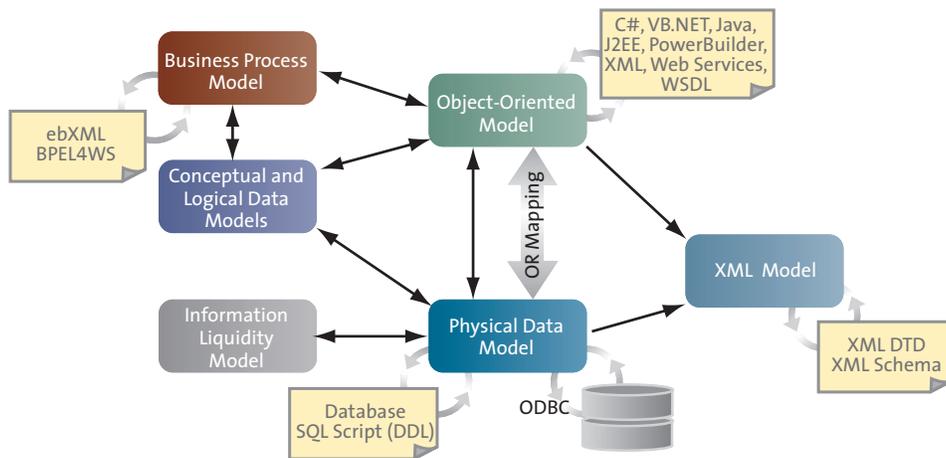
- **Application Modeling with UML:** PowerDesigner supports Unified Modeling Language (UML) diagrams and offers advanced object/relational mapping for persistence implementation management. PowerDesigner's model driven approach allows analysis-level UML models to generate to more detailed design models targeting specific language/environments. At the design level, PowerDesigner supports Java, J2EE™ design patterns, C#, VB.NET, Web Services design patterns and PowerBuilder. Comprehensive round-trip engineering support ensures models and code are never out of synchronization. With Eclipse, PowerBuilder and Visual Studio® plug-ins, PowerDesigner models can be used directly in context with the development environment with synchronization in real time.

- **Information Liquidity Modeling:** A PowerDesigner exclusive, the information liquidity models documents all aspects of information movement. Documenting source data stores, target data stores, and multiple transformation, publication and subscription processes in between, this model can document replication, data synchronization, ETL layers and more. The information liquidity model can generate and reverse engineer Sybase Replication Server® and Sybase MobiLink.

- **Integrated Modeling:** PowerDesigner models are fully integrated: using PowerDesigner's Link and Synch technologies. PowerDesigner models integrate meta-data across all model types for complete enterprise-wide or project-wide impact analysis. From requirements to UML artifacts to business processes and the data that supports it all, PowerDesigner streamlines communication and collaboration to dramatically increase the entire organization's responsiveness to change.

- **Enterprise Repository:** PowerDesigner's Enterprise Repository is a fully integrated design-time repository, hosted by your choice of relational database. PowerDesigner's highly scalable, remote-user friendly Enterprise Repository offers capabilities like: Role-based security on models and sub-models, including the ability to "hide" models from any user or group's view, version control and configuration management, merge, delta reports between models and versions, and comprehensive full repository search capabilities. PowerDesigner's Repository may also store and manage any document, including Microsoft® Office® and Project files, images, and more.

- **Open support:** PowerDesigner supports all major development platforms: supporting 45+ RDBMS including the latest Oracle, IBM (including Informix and Red Brick Warehouse), Microsoft (SQL Server and Access), Sybase (including ASE, ASA and IQ), NCR Teradata, MySQL, leading application development platforms like Java J2EE, Microsoft .NET™ (C# and VB.NET), Web Services and PowerBuilder®, all leading Application Servers and process execution languages like ebXML and BPEL4WS.

- **Customizable:** PowerDesigner supports customized transformations for model-driven development, advanced support for UML profiles, customizable menus and toolbars, automation through scripting languages, access through COM API and DDL or code generation through templates and scriptable code generators.

POWERDESIGNER 11 HIGHLIGHTS

Industry leading traditional database analysis and design is combined with powerful technology for business modeling and leading edge UML object modeling providing complete coverage of all modern techniques in a single tool. With meta-data management, impact analysis features and a true enterprise Repository, PowerDesigner 11 defines enterprise-modeling tools.

CORE FEATURES:

- **Requirements Management** – Collect, link, manage, store and report on requirements with hierarchy and matrix views and Microsoft Word import to retrieve existing requirements documents from any source

- **Impact Analysis** – New reporting capabilities that make examining the up and down stream impact to change easy to see, document and report on before changes are made to the model

- **Business Analysis** – Enhanced Business Process Modeling with links to simulation

- **Process Execution** – ebXML, BPEL4WS, Service Oriented Architecture support

- **Data Modeling** – Multi-level Conceptual, Logical, Physical and Warehouse Data Modeling with support for modern techniques like Java, XML and web services in the database

- **Open Database Support** – Full round-trip engineering for 45+ RDBMS, including the latest Oracle, IBM DB/2, Microsoft SQL Server, Sybase ASE, ASA and IQ, MySQL, Red Brick Warehouse, Teradata and many more

- **Object Modeling** – Highly extendable UML modeling including full support for UML profiles and heterogeneous environment support (mixed Java, .NET, SOA and more in one project)

- **Open Object Language Support** – Full round-trip engineering for Java, C#, VB.NET, PowerBuilder, XML, C++, more

- **Powerful Productivity** – Enhanced support for J2EE, .NET and Web Services

- **Integration with Development** – Eclipse, PowerBuilder and Visual Studio support through plug-ins and model to code synchronization

- **Enterprise Modeling** – Comprehensive Link and Synch technology for ultimate meta-data management and complete, project and enterprise wide impact analysis

- **Data Mapping Techniques** – Object/Relational, XML to database and warehouse source mapping techniques

- **Service Oriented Architecture** – Service orchestration through linking UML components, UDDI and WSDL described Web Services around an executable process

- **Documentation Generation** – Comprehensive drag-and-drop report writer with HTML and RTF report generation

- **Easy To Use** – Enhanced wizards for productivity

- **Highly Extendable** – Customizable GUI, profiles, MDA, scripting

ENTERPRISE REPOSITORY:

- **Ideal Team Solution** – Enables multiple modelers to work on the same model at the same time

- **Meta-data Management** – Stores, manages and versions PowerDesigner models and all other documents in a single location, with comprehensive permissions models that can limit access and visibility to model objects

- **Software Asset Management** – Find and reuse objects across all models and projects

- **Secure** – Role-based security with logging capabilities

- **Open** – RDBMS hosted tables fully documented for SQL-based reporting

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POWERDESIGNER 11 MODULAR PACKAGING

PowerDesigner is available in the following configurations:

DataArchitect™ and PhysicalArchitect™ – Addresses the needs of the most discriminating Data Modelers and DBAs. DataArchitect offers requirements management and full data analysis and comprehensive multi-level design techniques with round-trip engineering and detailed design capabilities for over 45 RDBMS vendor/versions. PhysicalArchitect assists DBAs in physical database administration tasks.

Developer – Addresses the needs of the Object Modeling community with requirements management and full analysis and design support for the Unified Modeling Language (UML). PowerDesigner Developer includes features to improve developer productivity for Java (and J2EE), C#,VB.NET, XML and PowerBuilder users. Developer can plug into popular development tools for tight model to code synchronization.

Business Process Architect – Addresses the needs of the Business Analyst community with requirements management and non-technical, business modeling techniques. PowerDesigner improves business processes by modeling, designing and simulating these processes (simulation performed through Simul8). Business Process Architect is a unique business modeling solution with its enterprise repository, link to technical modeling, and support for ebXML, BPEL4WS and Service Oriented Architecture (SOA).

ObjectArchitect and Studio – Addresses the needs of the Enterprise Modeling community (IT Management and business management) that needs to maintain a single center of control over all meta-data. Combining all the technical modeling in ObjectArchitect or extending technical modeling into Business Modeling (Studio), PowerDesigner streamlines communication and collaboration across the enterprise. Studio offers a model driven approach to align business and IT.

Viewer – Addresses the need for documentation teams, higher-level technical managers or other users to access to all of the PowerDesigner tools without requiring a full PowerDesigner license. Viewer is a read only tool that can access any PowerDesigner model, retrieve any model from the Enterprise Repository, print models, and create reports.

Enterprise Editions (DataArchitect Enterprise, PhysicalArchitect Enterprise, ObjectArchitect Enterprise, Developer Enterprise, Studio Enterprise) – Includes one Enterprise Repository connection for each user. Purchase or upgrade to an "Enterprise" version of any of the modules for each seat you want to have collaborate as part of a connected team.

MINIMUM SYSTEM REQUIREMENTS

- Windows® XP, NT 4.0, 2000
- Pentium® CPU 90MHz
- 96 MB RAM
- SVGA Display (800x600 or better)
- CD-ROM (for installation)
- 200MB Available disk space

ENTERPRISE VERSION REQUIREMENTS

Supported RDBMS with ODBC connection (Supported RDBMS includes Sybase, Microsoft, IBM and Oracle databases)