

Sybase® PowerDesigner® 15: Modeling for Enterprise Architecture



What is PowerDesigner 15: Modeling for Enterprise Architecture?

Sybase PowerDesigner 15 is the only modeling and metadata management tool that supports Enterprise Architecture implementation from business goals through implementation using unique Link and Synch technology; thus removing the silos, increasing business & IT alignment and enabling rapid response to technological, regulatory & competitive changes. Using unique Link and Synch technology, PowerDesigner 15 automatically and intuitively captures the intersections between all architectural layers and perspectives of the Enterprise, allowing users from all groups to clearly visualize and effectively implement fast, reliable & predictable change.

- Business Agility
- Business and IT Alignment
- Regulatory Compliance

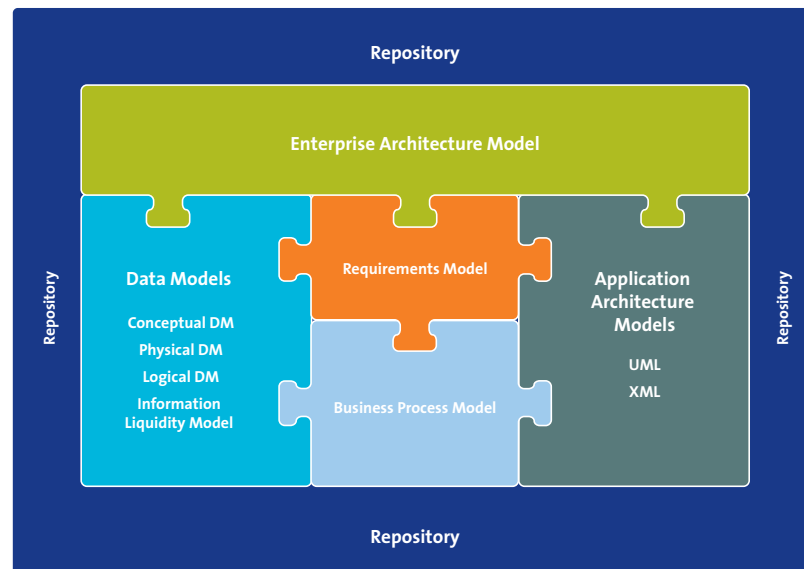


Figure 1. PowerDesigner's Link and Synch technology automatically and intuitively captures the intersections between all architectural layers and perspectives of the Enterprise allowing users from all groups to clearly visualize and effectively implement fast, reliable & predictable change.

BUSINESS AGILITY

PowerDesigner allows users to understand where changes in every scenario (non-systemically) will be impacted systemically thru Link and Synch technology. With true Impact Analysis, key constituents have a visual representation of where these changes will occur and how the changes will impact the business. Being able to implement the right changes quickly and effectively gives businesses the benefits of responding to competitive, technological and regulatory changes in a more agile way.

BUSINESS AND IT ALIGNMENT

Business and IT alignment increases communication and allows for successful management of the migration from the "as-is" systems to the "to-be" systems that support business strategy and goals. Ultimately, the task is to develop projects that meet business goals without causing disruption in business continuity. By using PowerDesigner's integrated models to define all aspects of the enterprise architecture with comprehensive impact analysis and traceability tools, users are sure of the cost and reduce the risk associated with each change on the road to the future state.

REGULATORY COMPLIANCE

The purpose of regulations is to ensure that people are doing the same thing, and that it is the right thing. Sarbanes Oxley and Basel II, as well as other regulatory standards, are driving businesses to be accountable for what information they are leveraging for reports, transactions and transformations. Integrated modeling with PowerDesigner provides an effective, layered approach by linking information through its metadata. This metadata can be used for accomplishing data quality assessments, report data lineage and to answer audit queries on financial statements. With regulatory compliance, IT is being put center stage and metadata management is a key component of success.

IMPLEMENTING SERVICE ORIENTED ARCHITECTURES

Moving to service oriented architectures and using pre-built, internally developed or purchased service components is the focus of many IT organizations. This increases the need to align the business view of the process with the orchestration view, together with the data and application (service) components that fulfill the requests is significantly increased. Ultimately, you cannot achieve maintainable service architectures without having these layers and techniques aligned. Using PowerDesigner's integrated set of modeling techniques to design an enterprise architecture, users are sure that the business conceptual levels are aligned with the physical implementation in any process or workflow engine. It can also assure the necessary services are available, centralized to reduce redundancy and aligned with centralized views of corporate data.

KEY FEATURES & BENEFITS

- Unique Link & Synch technology creates stronger alignment between Business and IT
- Achieve greater business agility through IT systems with impact analysis and change management
- Easily and accurately visualize, document and report on impact before changes are made to production
- Visually depict an Enterprise Architecture with the new Enterprise Architect model
- Easily visualize impact and lineage dependencies using Impact Analysis Diagram
- Highly customizable support for homemade or industry standard (DoDaf, Zachman) EA frameworks
- Share EA metadata with all stakeholders independent of technical abilities with Repository Web Viewer
- Service Oriented Architecture – Service orchestration at business and technical levels
- Requirements management provides detailed analysis linking all models for traceability. Import & synchronization with MS Word places the business users directly into the analysis and design lifecycle.

POWERDESIGNER INCREASES ENTERPRISE ARCHITECTURE ROI

PowerDesigner is customizable and extensible to account for unique requirements, and can be easily adapted to provide any of the work deliverables used to prove the value of any enterprise architecture project. Milestones and deliverables include:

- Impact analysis of proposed changes
- Difference reports to track applied changes
- Traceability reports to track regulatory compliance

PowerDesigner's approach to metadata management makes it easy to develop a foundation to show how satisfied users are in what enterprise architecture projects deliver.

MODELING AND METADATA LEVERAGED FOR SUCCESS

Sybase is the largest global enterprise software company exclusively focused on managing and mobilizing information from the data center to the point of action. Enterprise Architecture and Metadata Management provide a key element for providing open, cross-platform solutions that securely deliver information anytime, anywhere, and to enabling our customers to create an information edge. To support your business strategies effectively and develop a truly Unwired Enterprise, you need to ensure consistency across your IT systems and deliver new solutions quickly. Agility is the key to dealing with business change. Sybase PowerDesigner offers a model and metadata driven solution that gives companies:

- Better alignment between the business community and the IT organization
- Better control over their existing systems
- Greater business and technology agility and ability to change

MODELING TECHNIQUES

Business Modeling

Business Process Modeling with links to simulation with BPMN 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, with IE and IDEF1/x notation

XML Modeling

Unique physical paradigm supports XML DTD and Schema artifacts

Object Modeling

Highly extendable UML 1.x and 2.0 modeling

ETL, EII and Replication Modeling

Document all stages of data movement for any implementation strategy

Enterprise Modeling

Comprehensive Link and Synch technology for ultimate metadata management and complete, project and enterprise wide impact analysis

ENTERPRISE REPOSITORY

Team Solution

Enable multiple modelers to work on the same model at the same time

Metadata Management

Store, manage and version PowerDesigner models and all other documents in a single location

Cross-model Impact Analysis

Store and maintain cross model dependencies for complete impact analysis across the enterprise

Software Asset Management

Find and reuse objects across all models and projects

Secure

Role-based security with logging capabilities and comprehensive permissions that limit access and visibility to models and sub-models

Open

RDBMS hosted tables fully documented for SQL-based reporting

SUPPORTED PLATFORMS:

Process Execution

BPMN, ebXML, BPEL4WS, Service Oriented Architecture support

RDBMS

Full round-trip engineering for nearly 60 RDBMS, including the latest Oracle, IBM DB/2, Microsoft SQL Server, Sybase, MySQL, NCR Teradata and many more

Object Languages

Full round-trip engineering for Java J2EE, C#, VB.NET, PowerBuilder, XML, C++, Web Services and more

Integration with Development

Eclipse, PowerBuilder and Visual Studio plug-ins with model to code synchronization

Standardizing on PowerDesigner for enterprise architecture projects gives unique Link and Synch capabilities for all layers of abstraction from contextual to physical, and all aspects of enterprise architecture form business strategy to information architecture to application components. PowerDesigner's unique capabilities reduce the risk, time and cost associated with enterprise architecture projects while easily adapting to provide effective deliverables to maximize the value of the metadata collected.

PowerDesigner is an integrated modeling solution that empowers effective Enterprise Architecture through clear, concise, and accurate, metadata synergy from all three views of the organization: business, information, and technology.

PowerDesigner uniquely combines multiple graphical and non-graphical standard modeling techniques (Requirements, UML, Business Process Modeling, XML and market-leading data modeling) together with all modern RDBMS and leading development environments such as .NET, Workspace, PowerBuilder, Java™, Eclipse, etc., to bring innovative analysis, design, and development solutions to the traditional software development lifecycle.

PowerDesigner delivers a model driven approach to align business and IT.

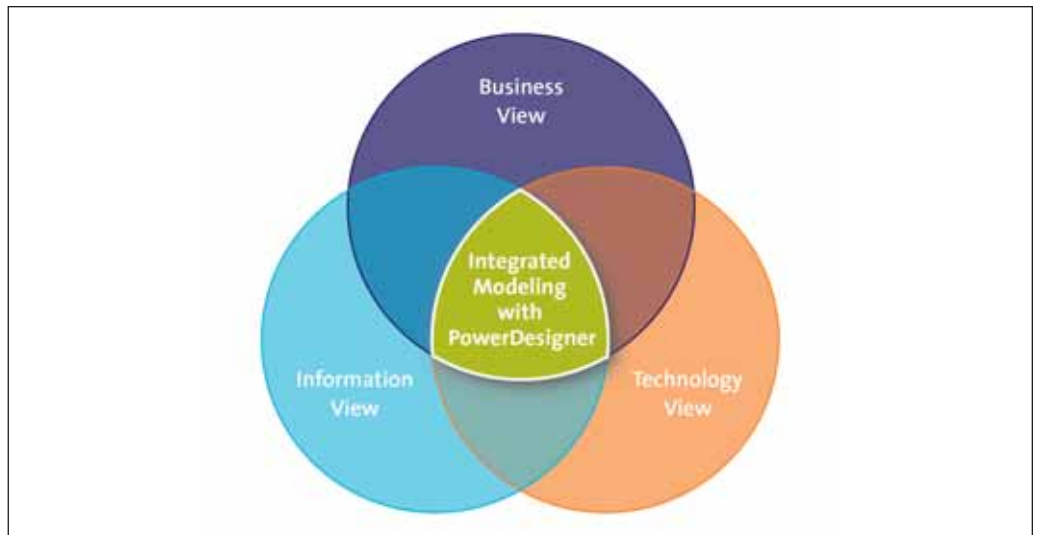


Figure 2. PowerDesigner Enterprise Architecture

POWERDESIGNER FOR ENTERPRISE ARCHITECTURE – A MODEL APPROACH

No matter what the motivation for undergoing an enterprise architecture project, it is clear that integrated modeling is essential.

- Modeling describes things before implementing them.
- Models try things out, test hypotheses, all without affecting production.
- Models provide excellent communication tools
- Modeling provides the metadata needed for traceability, regulatory compliance, transparency, impact analysis and other critical success values

PowerDesigner uniquely combines all necessary modeling techniques together in a single environment to maximize the value of the metadata center while minimizing the effort to create and maintain the central repository.