

Sybase® PowerDesigner® for Enterprise Architecture

PRODUCT BROCHURE



Sybase PowerDesigner for Enterprise Architecture

THE CHALLENGE:

Gartner defines Enterprise Architecture as the “process of translating business vision and strategy into effective enterprise change. EA tools must support, facilitate and enable this process”.¹ The biggest challenge organizations face today is no longer about the **need** for enterprise architecture, but in fact, how are they going to implement it!

Today’s Enterprise Architecture teams are under fire — both to prove their value and be a positive resource for running, growing and transforming the business. Enterprise Architecture teams are also tasked with dealing with current and pending legislation, continuous changes in economic environments and rapidly changing technology.

No longer is EA just the domain of the IT organization, it must provide a free-flowing, two way dialog between the Business and IT. EA teams must drive and support business strategy while articulating the current state of the business and demonstrate the future-state.

THE SOLUTION:

Successful Enterprise Architecture implementations provide a streamlined connection between the state of the business today and where the business needs to be tomorrow.

There are a lot of moving parts to make up ‘the enterprise’: systems, applications, business processes & requirements. Using an Enterprise Architecture tool to make the necessary links and connections between all these moving parts is critical to a successful implementation. And since pictures are worth a thousand words, using a modeling tool for this effort just makes sense. EA tools are required to support the creation, collection, and visualization of enterprise knowledge. This provides the basis for the analysis of the information to meet strategic decisions and “stakeholders” vision.

A better architected enterprise is a better run enterprise and this investment is becoming more essential as business demands on data as a service increase.

THE POWERDESIGNER DIFFERENCE:

Sybase PowerDesigner’s approach to EA is to address the decision making needs of each distinct business area of an organization, providing them with the information they need, in the ‘language’ they need it.

For the business perspective, we provide tools like organization charts, process maps, city planning diagrams and business communication diagrams. The information perspective derived from our strength in Information Architecture, provides complete conceptual, logical and physical modeling for all information sources in the enterprise. For the application perspective, we provide application architecture diagrams and service oriented diagrams (Cloud and Virtualization) and from the technology perspective, we provide technology infrastructure diagrams.

PowerDesigner ties all of the data, metadata and diagrams together with our unique Link & Sync technology. We are the only EA tool in the market that provides the ability to automatically and intuitively capture the intersections between all architectural layers and perspective, which provides users from ALL groups a clear visualization of the state of the business today and the impact of change on the future.

In addition to providing an EA modeling tool, Sybase PowerDesigner has a strong history of providing Information and Data Architecture solutions to Global 1000 customers. Our exceptionally rich support for data and information architecture gives us experience dealing with Enterprise Architecture implementations since the source of the most challenging aspects of enterprise change comes from information problems.

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 can reduce the risk associated with changes within the Enterprise when moving towards a 'future state'.

To increase communication efficiencies, we created the Enterprise Glossary, which allows users to create and connect business terms with all models and artifacts throughout the Enterprise. Definitions are established and synchronized in the repository, enabling everyone to use the same terms when naming objects. Business terms are more consistent and align with all the models across the enterprise. Now everyone is calling the same things the same things.

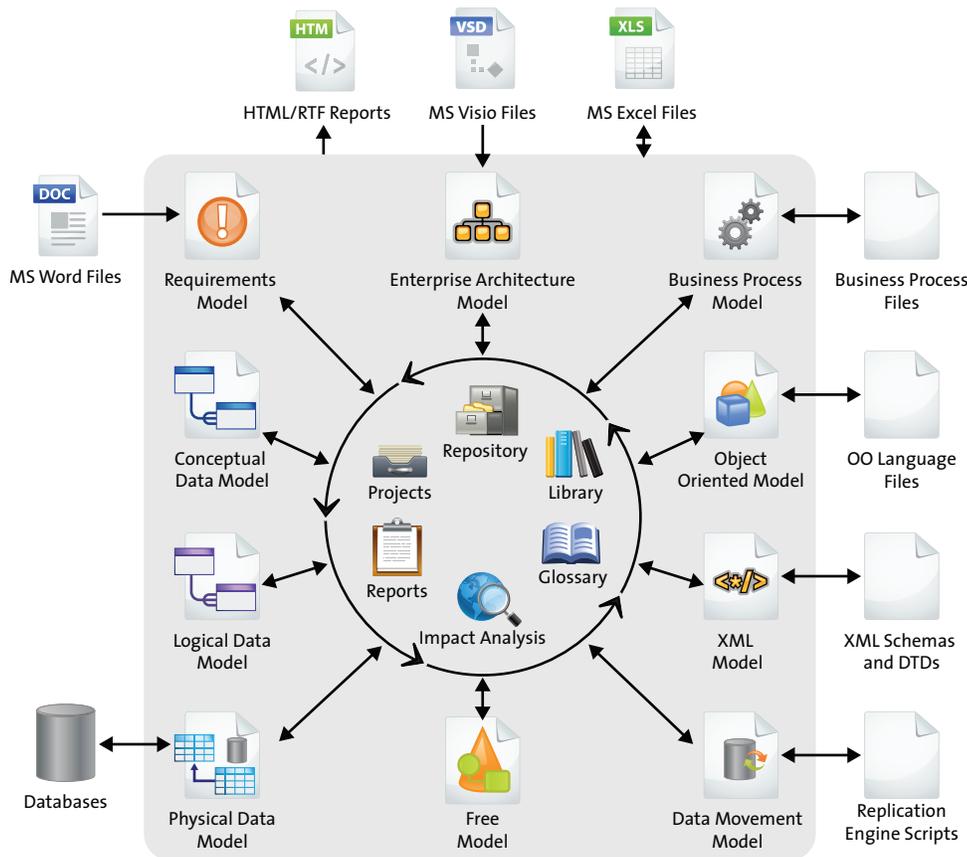


Figure 1. PowerDesigner's modeling solution for Enterprise Architectures supports standard methodologies and notations and provides automated code reverse engineering and generation through customized templates. It provides a scalable Enterprise Repository solution with strong security and versioning capabilities to aid multi-user development, powerful Management reporting capabilities and is highly extensible. PowerDesigner's Link & Sync technology provides full linkages and traceability throughout all components of the enterprise.

With the complexities driven by the economic downturn and the wave of resulting mergers and acquisitions, Sybase PowerDesigner has developed the following specific features:

- dependency traceability matrices
- configurable model transformations
- easy to configure Excel import
- virtualization and cloud architecture modeling support

These features provide visualization for organizations to better understand change and communicate it appropriately to all stakeholders. These capabilities support better decision making that leads to streamlined efficiency, improved business agility and connecting the overall business strategy to transformation needed for organizations to survive the economic crisis.

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 Sync 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

KEY FEATURES & BENEFITS

- Unique Link & Sync 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 represent an Enterprise Architecture using the Enterprise Architecture model
- Highly customizable support for homemade or industry standard EA Frameworks (eg: DoDAF, Zachman, TOGAF)
- Share EA metadata with all stakeholders independent of technical abilities via the PowerDesigner Portal
- Requirements management provides detailed analysis linking all models for traceability, import and synchronization with MS Word placing the business users directly into the analysis and design lifecycle

Sybase PowerDesigner's unique Link & Sync technology automatically and intuitively captures the intersections between all architectural layers and perspectives of the Enterprise, allowing users from all groups (business, IT, applications) to clearly visualize and effectively implement fast, reliable and predictable change. These changes come in the form of increased demand for business agility, technological changes or changes in government regulations.