SAP Sybase PowerDesigner

Move Beyond Primitive Drawing Tools with SAP® Sybase® PowerDesigner®

Create and Manage Business Change in Your Enterprise Architecture

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

The Best-Run Businesses Run SAP™

Table of Contents

3 **Add Intelligence to the Big Picture of Your Enterprise Architecture**

4 **Why Drawing Tools Fail**

No Consistency

No Way to Manage Metadata

No Link to Other Architectures, Systems, or Data Sources

No Way to Maintain as Business Changes

No Central Repository or Version Control

No Planning, No Automation, No Impact Analysis

6 **How SAP Sybase PowerDesigner Succeeds**

Consistent, Standard Modeling

Infrastructure to Manage, Integrate, and Share Metadata

Link & Sync Technology

Easy to Maintain

Central Repository with Version Control

Impact Analysis

8 **Conclusion**

To Learn More

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

Add Intelligence to the Big Picture of Your Enterprise Architecture

Achieving optimal business results: that's what enterprise architecture is all about. Whether you're transforming your organization due to a change in the marketplace, responding to new regulations, or looking for increased agility, enterprise architecture can give you the business intelligence you need to do it. Once you create an enterprise architecture, you can look at everything in your business laid out like a blueprint for a house. In a blueprint, you see how everything fits together: plumbing, electricity, walls, floors, which way the doors swing, and so on. It's the same with enterprise architecture, except that you see how your strategies, processes, people, systems, and data fit together.

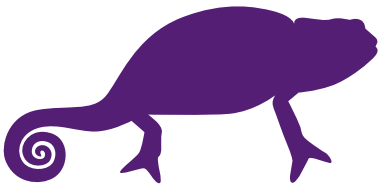
But enterprise architecture is more than just diagrams. Understanding your organization from an enterprise architecture perspective gives you the ability to see the big picture – and have all the details at your disposal – so that you can make informed business decisions quickly, respond to change, and efficiently drive positive business transformation.

Knowing these potential benefits, many organizations begin enterprise architecture initiatives. The first step is gathering knowledge about who they are, what they're doing, and how they're doing it. During this process, they need a tool to document what they learn and communicate the "blueprint" to others in the organization.

Drawing tools – including Microsoft Visio, Microsoft PowerPoint, SmartDraw, spreadsheets, sticky notes, or even markers and whiteboards – may seem like the most appropriate choice at the beginning. They help you document workflows, planning diagrams, and organizational charts; but that's all they can do. At the end of the process, you'll have expended much effort but only created a series of disconnected, moment-in-time pictures that have no intelligence behind them.

This lack of intelligence behind the pictures is the single biggest obstacle to good enterprise architecture today. Without it, you'll be starting over every time your business changes. That approach makes enterprise architecture a stumbling block on the road to business transformation rather than the tremendous aid it has the potential to be. Instead, you need a tool that lets you add intelligence to your diagrams, as well as link your workflows, planning diagrams, and organization charts together with the systems, databases, and data warehouses that you use to run your business.

SAP® Sybase® PowerDesigner® software gives you these abilities. That's what makes it so significantly superior to using drawing tools for enterprise architecture implementations.



SAP Sybase PowerDesigner has what you need to create and manage an ever-changing enterprise architecture that can evolve with your business, as it gives you the insight, visibility, documentation, and collaboration capabilities you need for increased agility. Use it to transform the way your business handles change.

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

Why Drawing Tools Fail

In this paper we define drawing tools as software that can make shapes and connect them with lines. Many companies use them to document different aspects of the business, but these tools fail to provide what you need for a successful enterprise architecture implementation. Here's why.

NO CONSISTENCY

Drawing tools, like pencil and paper, just give you a medium. They don't give you standards. If you give pencils and paper to two different people and have them document two different business processes, you'll get two completely different drawings and no way to connect them together. With SAP Sybase PowerDesigner, the standards are already built in, helping ensure a common understanding between all business and IT stakeholders.

NO WAY TO MANAGE METADATA

When you use a drawing tool, you can label the things you represent in your diagrams, but you can't add information about those things, because drawing tools have no way to manage metadata.

Simply put, metadata is information about things. For example, if you have a workflow that depends on information from Database A, then Database A is a piece of metadata. If you use a drawing tool, you can draw a cylinder in your diagram and label it "Database A," but there's no way to link that picture of a cylinder back to the actual database, or to other drawings that also represent Database A. On your picture, "Database A" is just text.

With SAP Sybase PowerDesigner, you capture the details behind what you're drawing in a single, unified database, called a repository. Within this repository, you actually create a unique piece of metadata called "Database A" and link it to the cylinder that represents Database A in your workflow diagram and to every other process diagram that relies on Database A. If anything about Database A ever changes, you'll know exactly which parts of your business will be affected. You also have only one representation of Database A, regardless of how many drawings it appears on, which helps guarantee consistency throughout the enterprise.

NO LINK TO OTHER ARCHITECTURES, SYSTEMS, OR DATA SOURCES

Drawing tools have no ability to link different pictures together to show dependencies. For example, a shipping process generally depends on the order fulfillment process for accurate information. If the marketing department decides to remove a field from the order fulfillment process on the company's Web site, shipping may be affected. That's a dependency. It's critical information for your enterprise architecture, and drawing tools simply cannot collect it.

SAP Sybase PowerDesigner has unique "Link & Sync" technology that captures those kinds of dependencies in your organization in a natural and automatic way. In fact, simply using SAP Sybase PowerDesigner in your day-to-day work will allow it to capture these dependencies automatically.

NO WAY TO MAINTAIN AS BUSINESS CHANGES

If you're keeping your enterprise architecture locked up inside a number of disconnected pictures, you'll always have to update each and every one of them to reflect any change in your organization. That approach makes enterprise architecture an impediment to your business moving forward, instead of the aid it's meant to be.

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

SAP Sybase PowerDesigner automatically propagates your changes throughout your enterprise architecture, because it works with the metadata behind each picture rather than just the pictures themselves. Maintaining metadata helps ensure that all people working on any aspect of the enterprise are properly informed of all changes and can be confident that the diagrams they work from are up-to-date.

NO CENTRAL REPOSITORY OR VERSION CONTROL

Drawing tools give you individual pictures stored as individual files on servers or hard drives, which are hard to share among a group of people. When changes are made, drawing tools can capture the details but they cannot capture all the dependencies or communicate the changes and related dependencies to all the appropriate stakeholders.

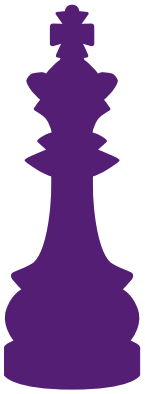
SAP Sybase PowerDesigner facilitates communication and collaboration by storing all metadata and architectures in a central location, complete with documented histories and version control. Using this shared repository, teams can analyze and design the enterprise architecture using a single, common set of source materials. If someone makes a change to Database A, SAP Sybase PowerDesigner will not only disseminate the change to every instance of Database A in your architecture, but it will also communicate the change to people throughout your enterprise with visual cues in the user interface and e-mail notifications.

NO PLANNING, NO AUTOMATION, NO IMPACT ANALYSIS

Drawing tools can give you a good idea of what the business wants and a snapshot of where you are at a single moment in time. They cannot help you plan, automate, or see the impact that a future change will have on the organization.

With SAP Sybase PowerDesigner, you can make quick, informed decisions to steer your organization through any change the future holds.

SAP Sybase PowerDesigner has unique Link & Sync technology that captures dependencies in your organization in a natural and automatic way.



© 2013 SAP AG or an SAP affiliate company. All rights reserved.

How SAP Sybase PowerDesigner Succeeds

SAP Sybase PowerDesigner is a leading modeling and metadata management solution for enterprise architecture. It allows you to document the processes, systems, and data you have, as well as how these pieces are all connected, and then build your enterprise architecture from there. SAP Sybase PowerDesigner does everything for your enterprise architecture that drawing tools can't.

CONSISTENT, STANDARD MODELING

Standard modeling provides a structure and a foundation for the graphic representation aspects of enterprise architecture, helping ensure that everyone uses a common language to describe the business. You won't have to read the legend every time you look at a new diagram.

We've integrated multiple industry-standard models into SAP Sybase PowerDesigner – including traditional conceptual, logical, and physical – to help ensure consistency and reduce ramp-up time. SAP Sybase PowerDesigner also provides special support for data warehouse databases and data movement technologies.

INFRASTRUCTURE TO MANAGE, INTEGRATE, AND SHARE METADATA

SAP Sybase PowerDesigner operates on the concept of metadata, or information about things, which is the single biggest differentiator between it and drawing tools. Metadata management is what makes SAP Sybase PowerDesigner such a powerful tool for enterprise architecture.

Manage Metadata

SAP Sybase PowerDesigner gives you the ability to collect, store, and manage all of your organization's metadata in a central location. This is a useful way to protect your metadata, as well as make it available for people in your organization to search, sort, retrieve, update, or version.

Integrate Metadata

SAP Sybase PowerDesigner also provides a way to integrate multiple sets of metadata. Just like there are multiple types of "things" in your business – business things, technology things, pieces of knowledge, and so forth – there are corresponding different types of metadata, the information about those things. Integration means that SAP Sybase PowerDesigner lets you connect the business things to the technology things to the pieces of knowledge so that you can see how all of the parts of your business fit together.

Lack of metadata integration is the single biggest obstacle to good enterprise architecture today. In the typical organization, the businesspeople put their metadata in one place, technology people put theirs in another, software engineers put their metadata in a different place from data architects, and nobody knows how all the metadata is related.

For example, finding out why a business process is using data from a particular server would not be a trivial task at most organizations. Getting an answer would generally involve multiple questions to multiple people throughout the enterprise. But with its integrated metadata, SAP Sybase PowerDesigner can answer the same question in a few seconds.

Share Metadata

Additionally, SAP Sybase PowerDesigner makes metadata easy to access and share. You can access the metadata repository, including reports and analysis output, via a Web browser. You can export those reports to documents, spreadsheets, or Web pages to distribute among teams. This is really where metadata management and integration pay off, because your organization can use the information to make business decisions and drive change.

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

LINK & SYNC TECHNOLOGY

Unique Link & Sync technology in SAP Sybase PowerDesigner gives you the ability to connect all the parts of your enterprise together, uniting the tactical and the strategic, capturing dependencies between different models and processes, effectively removing silos, increasing alignment, and improving business agility. You can also use Link & Sync to automate enterprise architecture processes such as dependency management and change management.

EASY TO MAINTAIN

Because SAP Sybase PowerDesigner is a metadata management tool, it automatically propagates any changes you make in your enterprise architecture as your business evolves. For example, if you make a change to a piece of metadata called "Customer," the change will immediately show up in every diagram where Customer appears.

CENTRAL REPOSITORY WITH VERSION CONTROL

SAP Sybase PowerDesigner stores all of its metadata and architectural artifacts in a central repository, so that all members of the IT infrastructure can access and manage the information as necessary. SAP Sybase PowerDesigner also provides version control for sharing, requiring users to "check out" and "check in" documents to view or make changes. It keeps a documented history of changes, giving users the ability to roll back to previous versions.

IMPACT ANALYSIS

Once you manage your enterprise architecture in SAP Sybase PowerDesigner, you can map out what-if scenarios in response to business needs. For example, how will the integration of Company X's systems affect the business after the acquisition of Company X is complete?

SAP Sybase PowerDesigner provides the knowledge you need to understand exactly what business processes use what information, where that information is managed and automated, and why the business uses and needs these elements.

Impact analysis reports provide a clear picture of the dependencies between pieces of metadata, helping to ensure that business goals, strategy, tactics, and requirements are respected. By highlighting impacted elements, the reports help you estimate the time, cost, and risk associated with any proposed changes. They also provide a road map for implementation should you decide to make the change.

COMPARISON: SAP® SYBASE® POWERDESIGNER® VERSUS DRAWING TOOLS

	Drawing Tools	SAP Sybase PowerDesigner
Graphical abilities	X	X
Consistent, standard modeling	X (some modeling standards offered)	X
Industry-standard modeling tools		X
Metadata management		X
Metadata integration		X
Metadata sharing		X
Link & Sync		X
Easy to maintain		X
Repository for sharing	X (some file sharing offered)	X
Version control		X
Impact analysis		X

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

Conclusion

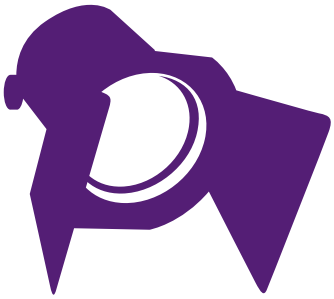
In the recent past, management experts believed that making "knowledge" work more productive would be as great a challenge as making manual work more productive was in the last century.

Simply put, effective tooling is what made manual work more productive. And SAP Sybase PowerDesigner is the effective tool for knowledge work. SAP Sybase PowerDesigner is among the best tools available for creating and managing an ever-changing enterprise architecture that can evolve with your business. It gives you the insight, visibility, documentation, and collaboration capabilities you need for increased agility.

Instead of just drawing a new picture every time your business changes, start reaping the benefits of a fully realized enterprise architecture. Stop simply reacting to change – instead, start shaping strategy and transforming your business by creating change.

TO LEARN MORE

To learn more about how SAP Sybase PowerDesigner can make a difference in the way you manage your enterprise architecture, contact your SAP representative or visit us online at www.sap.com/powerdesigner.



SAP Sybase PowerDesigner provides the knowledge you need to understand exactly what business processes use what information, where that information is managed and automated, and why the business uses and needs these elements.

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

www.sap.com/contactsap

CMP24655 (13/03)
© 2013 SAP AG or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Please see
http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark
for additional trademark information and notices.

The Best-Run Businesses Run SAP™