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Agenda

Differences of PowerDesigner and EADesigner

Areas of Usage

Roadmap

Demo
EADesigner / PowerDesigner
How do we share our vision with everyone that needs to know?

Digital

- Business Analysts
- Enterprise Architects
- Data & Solution Architects
- Developers

Planners

Architects

Surveyors

Builders

Physical

Blueprints
Today: Data sprawl, impossible to govern, security complexity
Most enterprises now have **data in 6-8 clouds**

**Data has become less accessible** due to the proliferation of cloud-based solutions and business unit build applications further fragmenting the data landscape.

Company’s **understanding of their customers, suppliers, products has been in decline**, caused by data being inaccessible.

**Substantial legal risks** due to lack of governance, e.g. GDPR.

**Difficulty of operationalizing data science** use in everyday business processes.
Business situation and implications

Most enterprises now have **data in 6-8 clouds**

**Data has become less accessible** due to the proliferation of cloud based solutions and business unit build applications further fragmenting the data landscape

Company’s **understanding of their customers, suppliers, products has been in decline**, caused by data being inaccessible

**Substantial legal risks** due to lack of governance, e.g. GDPR

**Difficulty of operationalizing data science** use in everyday business processes
Vision: Common data model, all data used by everyone, simple
SAP Enterprise Architecture Designer
In the SAP HANA Data Management Suite

SAP HANA Data Management

- In-memory transaction and analytics
- Data discovery and governance
- Data orchestration and integration
- Data cleansing and enrichment
- Data storage and compute

SAP HANA

SAP Data Hub

SAP Enterprise Architecture Designer

Big Data services from SAP

Third-party services and products
- Spark
- Hadoop
- Third-party databases
- Third-party data management

SAP Cloud Platform

SAP Enterprise Architecture Designer provides the following capabilities:
- Documentation of Business Architecture
- Schema migration from legacy data warehouses to SAP HANA
- S/4 Best Practice business process documentation

On premise

Cloud application data

Business data

Spatial

Social

Image

Hybrid

Multicloud
**PowerDesigner: Portal Server**

Portal Server is an interactive user interface for PowerDesigner.

Share content with all users.

Original invented to simplify the usage of BPMN for business useres.

**Certain models are allowed for edit**
EA-Designer is derived from Portal Server of PowerDesigner

EADesigner is an XSA / CF application

- Easy of use with common UI
- Storage of models is identical
- Transfer of models identical

Most functions of PowerDesigner Portal

Some functions EA Designer only
- Data modeling
- JSON schema
Datamodeling with PowerDesigner

CDM Conceptual Data Model
LDM Logical Data Model
PDM Physical Data Model
DMM Data Movement Model
XML XSD Model
Datamodeling with EADesigner

CDM → PDM → DMM

JSON

CDM Conceptual Data Model
PDM Physical Data Model
DMM Data Movement Model
JSON-Schema Java Script Object Notation
Areas of Usage
SAP for Full Lifecycle Enterprise Metadata Management

From Planning and Architecture to Discovery, Quality and Monitoring to drive outcomes and understanding
SAP’s Enterprise Architecture Persona Interaction

SAP Enterprise Architecture Designer’s easy-to-use user interface, makes it accessible to many stakeholders, not just Enterprise Architects and Developers. This makes it possible to use a single tool to document and share your organization’s strategies, requirements, processes, data, and IT landscapes with all relevant stakeholders.
Introducing SAP Enterprise Architecture Designer

Single point of design, documentation and reference

SAP Enterprise Architecture Designer (SAP EA Designer) lets you capture, analyze, and present your organization's strategies, requirements, processes, data, and IT landscapes in an integrated environment. Using industry standards, organizations can leverage rich metadata and use diagrams to drive understanding and promote shared outcomes. In addition, key use cases include schema migration from legacy databases, requirements management and seamless integration with SAP business process best practices.

Centralized & integrated environment
- Replaces multiple, fragmented tools with a single built-for-purpose solution

Development interchange
- Provides developers with actionable code for implementation from designs

Corporate knowledge
- Multiple personalized stakeholder views of the complete architecture

Cloud and On-Premise delivery
- Start fast on SAP Cloud Platform, deploy artifacts to SAP HANA or SAP HANA Cloud
Scenario: Data Warehouse Migration to HANA

- Create a physical data model for your source database type
- Select the reverse source
- Connect to your legacy database
- Select which objects you want to reverse into your physical data model
- Generate your new HANA physical data model from your legacy physical data model
- Edit the model
- Create your HANA HDI scripts
Roadmap EADesigner / PowerDesigner
SAP PowerDesigner
Product road map overview – Key innovations

Recent innovations

2019 – Planned innovations

Data architecture
- IBM DB2 v12 schema support
- Teradata v16 schema support
- Amazon Redshift
- JSON support
- SAP HANA 2.0 CDS schema support
- JSON NoSQL schema support
- SAP HANA 2.0 system version table

Business process architecture
- SAP Solution Manager 7.2 support (Web UI)

Ease of use
- Bird’s-eye view in canvas (Web UI)
- Symbol formatting and alignment tools (Web UI)
- Object list enhancements (Web UI)
- Object copy/paste (Web UI)
- Stay in diagram after publishing model (Web UI)
- Generated diagram view (Web UI)

Governance and collaboration
- Support multiple extensions per model
- Generate business capabilities diagram
- Export content by object list to CSV
- Import from Microsoft Word

2020 – Product direction

Data architecture
- Cassandra through JDBC
- Hive 2.0 for HDFS
- Microsoft SQL Server Azure
- SAP HANA table grouping based on CV (SAP HANA 1)

Ease of use
- Table grouping by CV for SAP HANA 1
- SAP Fiori 3 UX shell rework (Web UI)
- Generated view overlay options (Web UI)
- Compare UI list of actions (Web UI)
- Symbol coloring based on a simple rule (Web UI)
- Heatmap enhancement for better color control (Web UI)

Governance and collaboration
- Multiuser concurrent editing (Web UI)
- Metamodel extensions (Web UI): Forms, scripting

2021 – Product vision

Data architecture
- Continued support of new data sources

Continued improvement
- Application responsiveness (Web UI)

Ease of use
- Improved reporting capabilities (Web UI)
- Icon library (Web UI)

Governance and collaboration
- Branch management (Web UI)
- Display composite shortcut content (Web UI)

1. This is the current state of planning and may be changed by SAP at any time without notice.
SAP Enterprise Architecture Designer, cloud edition
Product road map overview – Key innovations

Recent innovations

Data architecture
- SAP HANA support – HDI, HDB
- Support Big Data services from SAP
- Support on-premise database
- GDPR attributes for business data definition
- Support of SAP HANA anonymization attributes

Cloud support
- Transport SAP EA Designer content
- Improve performance

Ease of use
- Object list enhancements
- Symbol content selection/customization
- Object copy/paste
- Stay in diagram after publishing model
- Symbol size control, alignment toolbar

Governance and collaboration
- Support multiple extensions per model
- Generate business capabilities diagram
- Export content by object list to CSV
- Import from Microsoft Word

Planned Q2/2019

Data architecture
- Generate non-SAP database (SQL Server)
- Data set catalog interaction with SAP Data Hub
- Enhanced physical view support
- Support SAP HANA table functions
- SAP HANA table grouping
- Generate CSN format

Ease of use
- Shell rework (SAP Fiori 3)
- Generated view overlay options
- Compare UI list of actions

Governance and collaboration
- Multiuser concurrent editing
- Extensions: Forms support
- Industry reference architecture from SAP

Planned Q3/2019

Data architecture
- Generate non-SAP database (Azure)
- Data mapping
- Better handling of consumption model
- Conceptual view builder

Ease of use
- Symbol coloring based on a simple rule
- Heatmap enhancement for better color control
- SAP Fiori 3 UX

Governance and collaboration
- API for repository transport
- Extensions: Basic scripting
- Compare any models

Planned Q4/2019

Data architecture
- Generate non-SAP database (Teradata)
- HDI direct activation
- SAP HANA data lake
- Federated search between SAP EA Designer and SAP Data Hub
- Enhanced CDM to PDM generation options

Ease of use
- Better symbol display control

Governance and collaboration
- Naming convention support
- Extensions: Advanced scripting
- Merge any models

1. This is the current state of planning and may be changed by SAP at any time without notice.
SAP Transformation Navigator provides you with clear guidance to chart the Intelligent Enterprise:

- Based on your currently used products, this free self-service produces an individualized report highlighting business value, detailing integration to SAP S/4HANA and other cloud products, and explaining transformation services and license information.
- With the new time-slider feature, you can even identify the best point in time to engage in your journey to becoming an intelligent enterprise.
- Discover the tool and your transformation path at https://support.sap.com/stn.
SAP Enterprise Architecture Designer Licenses

30-day free trial available!

Obtaining a 30-Day Free Trial of SAP Enterprise Architecture Designer, Cloud Edition

You can obtain a 30-day free trial by creating an account on SAP Cloud Platform and subscribing to SAP EA Designer Trial, cloud edition.

Procedure

1. Navigate to https://cloudplatform.sap.com/index.htm# and click the Start your free trial button.
2. Log in or create a new SAP account to go to the SAP Cloud Platform Cockpit.
3. Click the Cloud Foundry Trial button, select your preferred region, and click OK to generate your global account, along with a subaccount (x1x1), organization, and space (x1w).
4. Click Go to Space to enter the newly created space, which is initially empty.
5. Use the breadcrumbs at the top of the screen to navigate back to your subaccount (x1x1) and click the Subscriptions button in the toolbar on the left of the screen to show the applications that are available to you.

Available with SAP HANA Express Edition

SAP HANA, express edition
Install the Optional SAP Enterprise Architecture Designer Package for SAP HANA, express edition (Preconfigured VM)

5 concurrent session licenses of SAP Enterprise Architecture Designer, edition for SAP HANA per customer provided with:

- SAP HANA, Standard Edition
- SAP HANA, Enterprise Edition

There are 2 standalone editions:

- SAP Enterprise Architecture Designer, edition for SAP HANA (on-premise)
- SAP Enterprise Architecture Designer, Cloud Edition (SaaS)
Information Sources

General Information

SAP Enterprise Architecture Designer Web Page
SAP openSAP Course (free)

Product Documentation

SAP Enterprise Architecture Designer, edition for SAP HANA
SAP Enterprise Architecture Designer, cloud edition
Microservices

HANA Database
- Tables
- Views

XS Engine
- XSJS
- XSJSLIB
- XSJS

Services

App Router
Web Content

App Container
Services

HDI Container

App Container
Services

App Container
Backing Service

XSJS
XSJSLIB
XSJS
XSJSLIB
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