Agenda

Enterprise Architecture, TOGAF and EAF
  • Overview of Enterprise Architecture and TOGAF and EAF methods.

Tools for Business Architecture
  • SAP Solution Composer

Tools for Information System Architecture
  • SAP Solution Manager BPR, SCL and ES Workplace

Tools for Technology Architecture
  • SAP Solution Composer, SCL, PAM and SLD

Key Learning
  • Summary
Enterprise Architecture, TOGAF and EAF
Overview of Enterprise Architecture and TOGAF and EAF methods.
What is Enterprise Architecture?

Enterprise Architecture
is the organizing principle that aligns Business and IT, it is

- About understanding all of the different elements that go to make up the enterprise and how those elements interrelate.
- Describing, and the Description of the desired future state of an organization's business process, technology and information to best support the organization's business strategy.
- The definition of the steps required, and the standards and guidelines to get from the current state to the desired future state
Components of Enterprise Architecture

- **Business Architecture**: Business Processes, Workflows, Transactions and Collaboration
- **Application Architecture**: Systems, Services, Functional Use Cases
- **Data Architecture**: Data, Business Objects, Exchange Formats, Security and Privacy
- **Technology Architecture**: Software, Hardware, Server, OS, Network
TOGAF 9

TOGAF 9 – 744 pages of content!

- Part I: Introduction
- Part II: Architecture Development Method
  - Core of TOGAF. Step by step guidelines to develop an enterprise architecture.
- Part III: ADM Guidelines & Techniques
  - Collection of guidelines and techniques applicable to TOGAF and the ADM
- Part IV: Architecture Content Framework
  - Structured metamodel for architectural artifacts and overview of typical architectural deliverables.
- Part V: Enterprise Continuum & Tools
  - Taxonomies and tools to categorize and store output of architecture activities
- Part VI: TOGAF Reference Models
  - TOGAF Foundation Architecture, TRM, III-RM
- Part VII: Architecture Capability Framework
  - Organization, processes, skills and roles required to operate an architecture function within an enterprise
TOGAF and EAF
Detailed representation of the SAP EAF framework
Architecture Development Method
SAP EAF Content

SAP Enterprise Architecture Framework

- SAP Enterprise Architecture Framework extensions
  - Usage Guidelines
  - Architecture Development Method
  - Templates, Examples and Case Studies
  - Content Metamodel

- Resource Base Extensions
  - SAP Business Reference Models
  - SAP Technology Reference Models

SAP Mapping Extensions

SAP Tooling Extensions

- SAP Content Tools
- SAP Implementation Tools
- EA Modelling Tools

TOGAF Architecture Development Method

TOGAF Resource Base
SAP EAF Content Details

Usage Guidelines
- Framework tailoring
- Engagement Initiation
- Using EA to implement SOA
- Service Contracts
- Business Capability Assessment
- Technology Capability Assessment
- IT Governance Impact Assessment
- Solution Architecture Scoping
- Glossary

Reference Content
- SAP Business Maps
- SAP-TOGAF TRM Reference Model
- SAP Product Availability Matrix

Metamodel
- Architecture metamodel, aligned with TOGAF terms
- Defined set of architecture catalogs, views and matrices

SAP-Specific Mappings
- SAP Enterprise Architecture Framework terminology to SAP terminology mapping
- SAP product to TOGAF TRM mapping
- SAP Enterprise Architecture Framework method to SAP method mapping
- SAP Glossary

SAP Tool Guides and Integration
- IDS-Scheer / ARIS Implementation of Framework

SAP EAF Content Details

Enterprise Architecture Framework
- Resource Base
- Extensions
- SAP Technology Reference Models
- SAP Business Reference Models
- SAP Content Tools
- SAP Implementation Tools
- SAP Tooling Extensions
- SAP Mapping Extensions

Architecture Method
- Iterative architecture process extending TOGAF ADM
- Worksheet for each architecture phase identifying inputs, steps and outputs
- Narrative for each architecture phase explaining how to conduct the phase

Usage Guidelines

Architecture Development Method

Templates, Examples and Case Studies

Content Metamodel

SAP Mapping Extensions

SAP Tooling Extensions

Case Studies and Examples
- Case studies from real-world SAP architecture engagements
- “BEEST case study” worked example
- Examples for all defined architecture views and matrices
- Candidate Architecture Principles

SAP Tool Guides and Integration
Where to get more information: TOGAF and EAF

The Open Group
TOGAF
• http://www.opengroup.org/togaf/

SAP
EAF
• SAP Service Marketplace
• Quick Link: /asap-business-add-ons
• Cross Solutions
• SOA
• SAP Enterprise Architecture Framework for Enterprise SOA
• Also available from SOA Starter kit.
Tools for Business Architecture
SAP Solution Composer
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SAP Business Reference Models
- SAP Technology Reference Models
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SAP Solution Composer

**Business Content**

**SAP Solution Maps**
SAP scenario-oriented Industry Solution Maps: Oriented along a generic industry value chain, illustrate end-to-end business processes.

- A consistent multi-level blueprint showing the processes for a particular cross-industry solution.
  - 50 + SAP Solution Maps available
  - Common industry view on scenarios
  - Support structured scoping of IT requirements

**SAP Business Scenario Maps**
A graphic representation of a key industry-specific or cross-industry business scenario.

- 350 + SAP Business Scenario Maps available
- Support solution selling
- Quantifiable business benefits
- Link to implementation relevant content

**Engagement Tool**

**SAP Solution Composer**
A PC-based tool for creating & editing business maps to allow SAP, customers, and partners, to “work from the same page”.

- Over 400 business maps delivered with the tool
- Modify and create Solution Maps and Business Scenario Maps
- Support customer-specific solution planning and design
- Export the Solution Maps and Business Scenario Maps into Word, HTML, Excel and PowerPoint slide format
SAP Solution Composer

The SAP ERP application in the software foundation enterprises trust to achieve business excellence and innovation. Leveraging this foundation and its tightly integrated industry-specific functionality, you can build the business processes you need today - and tomorrow. Based on industry best practices, SAP ERP draws from more than 25 years of experience with more than 40,000 customer implementations. SAP ERP delivers the powerful functionality, global orientation, and flexible enhancement package options you need to gain a sustainable, competitive advantage and position your organization for profitable growth.

SAP’s enhancement package strategy provides you with a more economical and less disruptive way of adopting and managing software releases. This unique delivery and deployment method for enterprise software enables you to take advantage of new software functionality while meeting your need to maintain the stability and integrity of your core SAP ERP application.

Further information on SAP ERP and on SAP enhancement packages for SAP ERP are available in the SAP Service Marketplace.
SAP Solution Map - Elements

**Process Categories**
- Enterprise Management
- Manufacturing (Make to Order, Make to Stock)
- Supplier Collaboration (Procurement)
- Service Parts
- Business Support

**Main Processes**
- Demand Planning & Forecasting
- Supplier Relationship Management
- Operational Procurement
- Inbound Logistics
- Billing
- Vendor Performance
- Event Management
- Supply Planning
- Manufacturing
- Procurement
- Lifecycle Logistics
- Fixed Asset Management
- Employee Life-Cycle & Transaction Management
- Procurement
- Financial Supply Chain Management

**Level 2**
- **Service Parts**
  - Demand Planning & Forecasting
  - Supply Network Planning

**Processes**
- Forecasting (S4, S3)
- Demand Planning (S4, S3)
- Campaigns & Promotions (S4, S3)

**Details**
- Description
- Product Availability
- Product
Solution Map – Elements 1/2

Generic Industry Value Chain

Business Scenario Group / Business Level

Industry-Specific Business Scenarios

Management and Supporting Functions
Solution Map – Elements 2/2
Business Scenario - Elements

Level 1: Business View

Level 2: Interaction View

Business Benefits/Value Potentials

Mouse-Over Details:
- Description
- Roles
- Business Document

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Business Architecture - Motivation
Business Architecture - Function

**BUSINESS ARCHITECTURE**

- **Process**
  - is represented on
  - is equivalent to

**SAP – Solution Composer**

- **SAP.Business Scenario**
- **Map**
- **SAP.Industry Value Chain**

**BUSINESS ARCHITECTURE**

- **(Macro-Level) Function**
  - is equivalent to
  - utilize
  - is utilized by

- **Business Service**
  - is composed of
  - is used within

- **(Micro-Level) Function**
  - is part of
  - has a

**SAP – Solution Composer**

- **SAP.Industry Value Chain**
  - consists of
  - belongs to
  - groups

- **SAP.Value Chain Element**
  - consists of
  - belongs to

- **SAP.Business Scenario Group**
  - consists of
  - part of
  - a sequence of

- **SAP.Business Scenario**
  - is part of
  - is a sequence of

- **SAP.Process**
  - is part of
  - is covered by

- **SAP.Process Step**

- **SAP.Product**
  - is a variant of

**SAP – Solution Manager**

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Business Architecture - Organization

**BUSINESS ARCHITECTURE**
- Organisation Unit
- Location
- Actor
- Role

**SAP – Solution Composer**
- SAP.Industry Value Chain Element
- SAP.Business Participant
- SAP.Employee Role
SAP Solution Composer – more information

SAP.com
www.sap.com/businessmaps
www.sap.com/solutions/businessmaps/composer

SAP Service Marketplace
service.sap.com/businessmaps
service.sap.com/s-composer
Tools for Information System Architecture
SAP Solution Manager BPR, SCL and ES Workplace
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System Information Architecture – Data

DATA ARCHITECTURE

Data Entity

Logical Information Component
Data Extension

Resides within

Encapsulates

Physical Information Component
Data Extension

SAP Solution Manager

Master Data

SAP Enterprise Service Workplace

Business Object

contains

Process Component

SAP Scenario and Process Component List
SAP Solution Manager
Everyone running SAP has one.

- The Business Process Repository is accessible within SAP Solution Manager via SM_BPR_OVERVIEW.
- It provides a central overview of the available Reference Content structured both by organization areas
- Available solutions respective applications and underneath by business scenarios, business processes and process steps.
- [https://implementationcontent.sap.com/bpr](https://implementationcontent.sap.com/bpr)
SAP Solution Manager – Master Data
SAP Enterprise Service Workplace

The ES Workplace

is the central place to view consolidated information about all available Enterprise Services delivered by SAP.

- Find Business Objects, Process Components, and their services that are necessary for a business process.
- Find all Integration Scenarios and other objects like deployment units that are necessary for semantic and technical integration of business process.
- Access the ES Workplace system landscape with ERP, CRM, SCM, SRM, Process Integration, and Service Registry.
SAP Enterprise Service Workplace – Business Objects
System Information Architecture – Application
SAP Scenario and Process Component List

SAP SCL
Finding Realization Alternatives for SAP Solutions, Business Scenarios, and Processes

• Browse SAP's solutions, business scenarios, and processes and find out which components (i.e. software products versions and their instances) are needed and which alternatives you have.

• Browse SAP's software product versions and their instances and find out which business scenarios and processes you can realize with them. You can also plan upgrades or additional components (i.e. instances of software product versions).

• http://service.sap.com/scl
SAP SCL - Main
SAP SCL – Select Scenario
SAP SCL – Realization Alternatives
SAP SCL - Product Version Instance

![Image of SAP SCL - Product Version Instance](https://webmap130.sap-ag.de/?v_controller_name=compdetails.do&v_pwe=81200615320908008482&v_ins=Windows Internet Explorer)

### Details of Product Version Instance

<table>
<thead>
<tr>
<th>General Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Version Instance</strong></td>
<td>SAP R/3 4.6C - R/3 Server</td>
</tr>
<tr>
<td><strong>Product Version</strong></td>
<td>SAP R/3 4.6C</td>
</tr>
</tbody>
</table>

### Availability & Maintenance

<table>
<thead>
<tr>
<th>Status</th>
<th>In extended maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Customer Shipment</td>
<td>03.04.2000</td>
</tr>
<tr>
<td>General Availability</td>
<td>29.05.2000</td>
</tr>
<tr>
<td>Mainstream Maintenance Until</td>
<td>31.12.2006</td>
</tr>
<tr>
<td>Extended Maintenance Until</td>
<td>31.03.2013</td>
</tr>
<tr>
<td>Related Information</td>
<td>More About SAP's Release Strategy</td>
</tr>
</tbody>
</table>

### Upgrade Information for SAP R/3 4.6C

**Upgrades possible from:**
- SAP R/3 3.0F
- SAP R/3 3.1H
- SAP R/3 3.1I
- SAP R/3 4.0B
- SAP R/3 4.5B
- SAP R/3 4.6A
- SAP R/3 4.6B
- SAP R/3 3.0D

**Upgrades possible to:**
- SAP ECC 5.0 (to SAP ERP 2004 being part of SAP R/3 4.6C)
- SAP ECC 6.0 (to SAP ERP 6.0 being part of SAP R/3 4.6C)
- SAP ERP 6.0
- SAP R/3 ENTERPRISE 47X110
- SAP R/3 ENTERPRISE 47X200

### Database Platforms & Operating Systems

#### Database & OS Info

Find Supported Database Platforms and Operating Systems in Product Availability Matrix (PAM)

### Included Components for R/3 Server

**Included Components**
- SAP ABAP 4.6C
- SAP APPL 4.6C
- SAP BASIS 4.6C
- SAP HR 4.6C
- SAP KERNEL 4.6C 32-BIT (Internal) 7 (or compatible)

### Downloads

- **Download Component**
  - Download SAP R/3 4.6C
- **Download Support Packages**
  - Download Support Packages for SAP R/3 4.6C
  - Download Support Packages (Editions) for SAP R/3 4.6C (E)
System Information Architecture – Service
Tools for Technology Architecture
SAP Solution Composer, SCL, PAM and SLD
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SAP Product Availability Matrix

SAP PAM
The Product Availability Matrix (PAM) bundles technical and release planning information on SAP software product versions for quick reference.

- You find detailed information on their availability dates, maintenance end dates and upgrade paths, as well as technical release information (DB-platforms, JSE-platforms, operating systems etc.).
- The technical release information is displayed per product instance. What is a product instance? A SAP product version is structured into instances.

- [http://service.sap.com/pam](http://service.sap.com/pam)
SAP Master Guide

Installation And Upgrade Documentation

Here you can find comprehensive technical documentation (for example, Master Guides, installation and upgrade guides) for the following areas

- http://service.sap.com/instguides
SAP Help

Here you'll find extensive documentation from the SAP Library on SAP Solutions.

- along with additional information about the documentation, information design at SAP, education services, and links to the SAP Community Network.
- The SAP Library is created, translated, and managed using SAP's standard authoring and translation environment, SAP Knowledge Warehouse.
Key Learning

Summary
Key Learning

- Use SAP EAF or TOGAF 9 meta-model.
- The Meta-model translates well to SAP vocabulary.
- Take time to learn SAP tools and content, such as Solution Manager, Composer, SCL, and more.
- Remember to check with SAP help and other Marketplace documentation for additional clarity.
- SDN has a lot of extra information.
- Use repository based modeling, and reuse your models.
Thank You!

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