

# SAP RUNS TOGAF

Reconciles all stakeholder views from a Business and IT perspective



Pim de Wit  
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LAC 2008, 26-11-2008

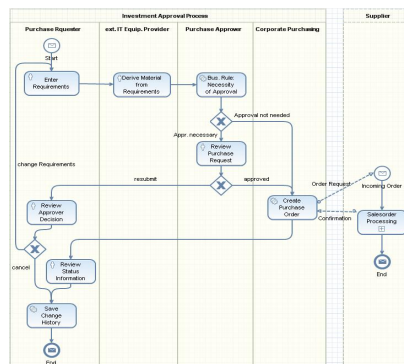
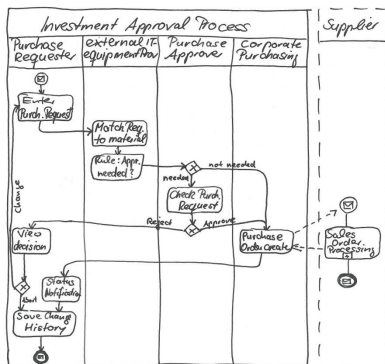
THE BEST-RUN BUSINESSES RUN SAP™ 

## So this is what your Business wants from you?



Business Requirements

Guess what, IT Tools can deliver

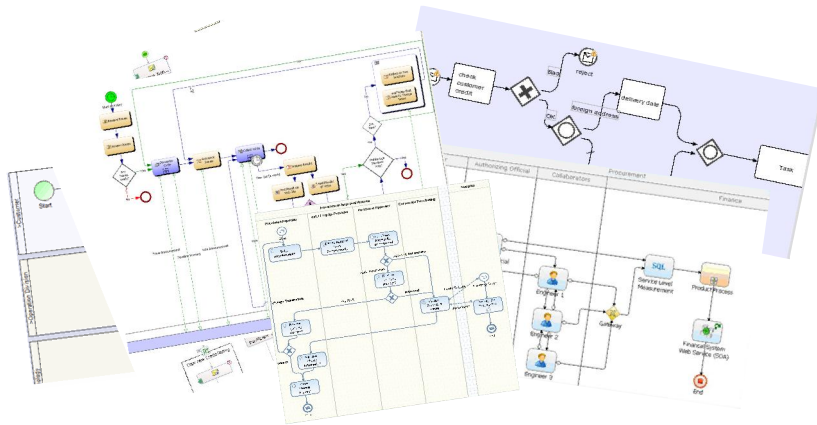


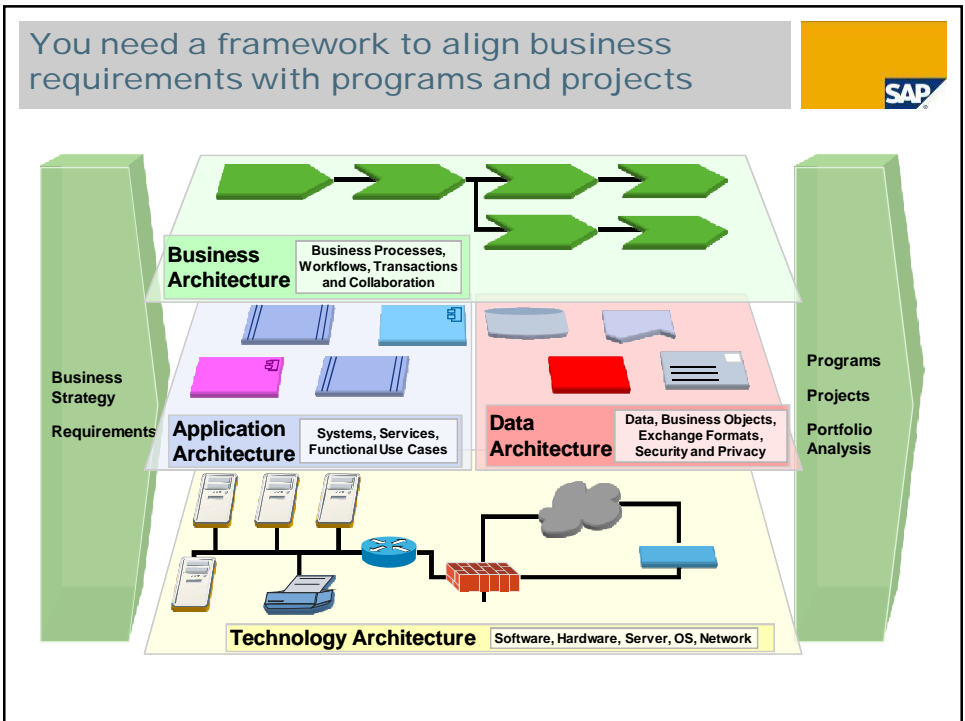
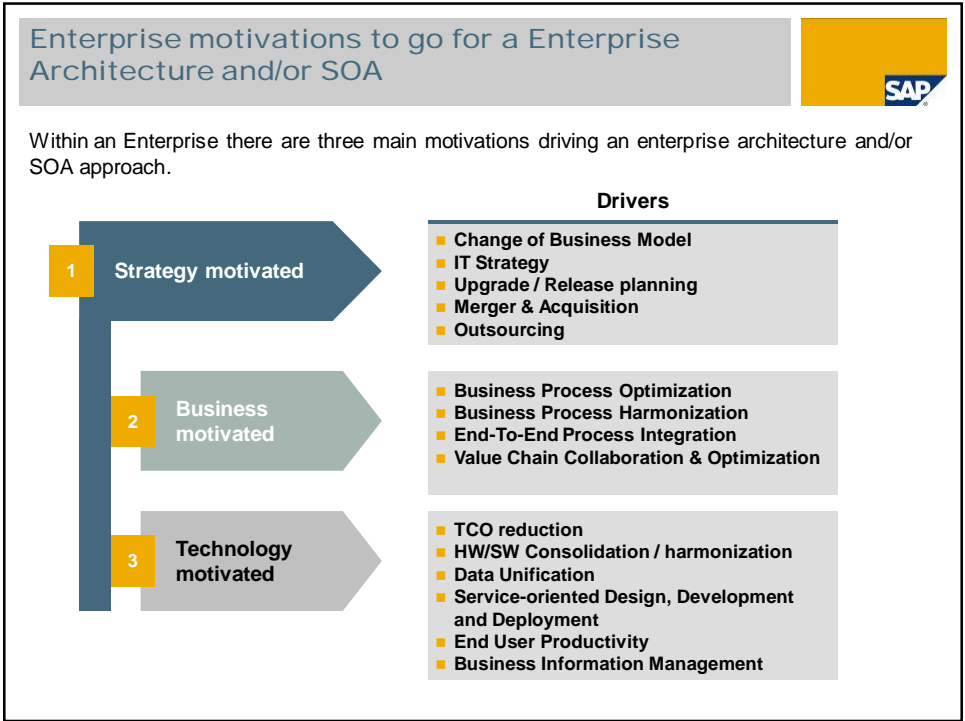


So you have full flexibility with your software tools, what next to do... ?




- ....reuse what's there or build all your Business processes from scratch ?
- ....provide full freedom to process expert to build their processes ?
- How about business and IT alignment, Corporate Governance, Data Protection and Privacy, Increased Security Profile





## Enterprise Architecture Discipline



Key discipline facilitating a **holistic view** of an enterprise


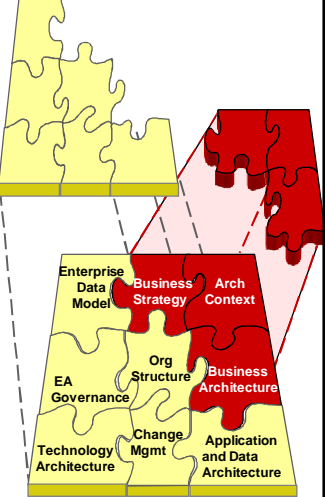
Treats the entire enterprise as a **System**

Mechanism for enabling **design, development, communication and understanding** of the enterprise


Overarching goal is to **manage the complexity** of the enterprise

**Align** business strategies and implementations

Facilitate rapid change in order to maintain **business and technological advantages**

## Why TOGAF?



A **reliable, proven method** for developing an Enterprise Architecture developed by the Open Group

An **open standard**

**Vendor neutral**

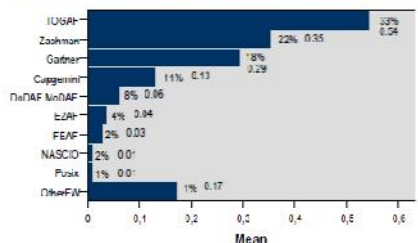
TOGAF considered to be the most relevant Framework (54 % of SAP ASUG members and 2006 SAP TechEd attendees)

Freely licensed

Intended to be tailored

<http://www.opengroup.org>


**Question III.3: What are relevant frameworks for your sector?**



| Framework   | Percentage | Mean |
|-------------|------------|------|
| IUORP       | 22%        | 0.35 |
| Zachman     | 18%        | 0.29 |
| Gartner     | 11%        | 0.13 |
| Cuppenini   | 8%         | 0.06 |
| DoDAF/ModAF | 4%         | 0.04 |
| FEAF        | 2%         | 0.03 |
| NASCIO      | 1%         | 0.01 |
| Puzix       | 1%         | 0.01 |
| OtherFAF    | 1%         | 0.17 |

Results from 2006 survey of TechEd attendees and online ASUG survey  
Graph 11: Importance of enterprise architecture frameworks (108 responses)

How does The Open Group Architecture Framework (TOGAF) help?



**Traditional EA Frameworks generate a wealth of benefits for the Enterprise**

**Business-IT Alignment**


**Comprehensive Architecture development method**

**Large adoption in the market**

**Can be used across a wide variety of industry types and geographies**

**Available under a free perpetual license**

**Generic and applicable to many types of architectures**



There is still a black hole...

**Vendor-agnostic open standard**

**Technology- and Solution-independent**

**Avoids re-inventing the wheel**

**Tailorable to meet different organizations and industry needs**

**Possibility to participate in the evolution of the Framework**

What is missing in the traditional Enterprise Architecture Frameworks



**Two critical features are missing in traditional Enterprise Architecture Frameworks**

- **Packaged Applications** 
- **Enterprise Service Oriented Architecture** 

## New Methodology: SAP Enterprise Architecture Framework Mission Statement



The SAP Enterprise Architecture Framework is a methodology and toolset primarily to support the effective adoption of SOA.

It is based on an extension of The Open Group Architecture Framework specifically designed for packaged solutions and SOA.

As platinum member of The Open Group SAP works closely together on upcoming release of Togaf 9\*



\* Togaf 9 will be launched at the Open Group EA conference in San Diego (first week of February 2009)

## Benefits of TOGAF Architecture Development Method (ADM)

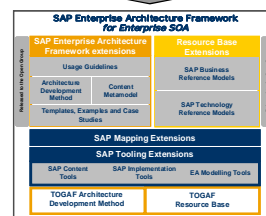


### SAP EAF Process follows the TOGAF ADM

- SAP EAF follows an open, vendor-neutral process
- Why re-invent a perfectly good wheel ?
- SAP EAF easily understandable by existing TOGAF Practitioners


### SAP EAF Process extends the TOGAF ADM

- Can be tuned for different engagement models
- Defined Iterations more suited to Package and Package Service-based scenarios
- SAP EAF Process more precisely defines specific tasks, products and terminology
- Provides the hooks into SAP Specific Products and Services where required




**SAP EAF Process extends TOGAF ADM Process to cope with more specific Package and Package Service scenarios**







SAP EAF Process extends TOGAF to cope with more specific Package and Package Service scenarios




|                   | Zachman                             | Gartner                             | DoDAF                               | IFEAD                               | IAF                                 | FEAF                                | TEAF                                | TOGAF                               | SAP EAF                             |
|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Open Standard     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Industry Agnostic | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Artifact Driven   | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     | <input checked="" type="checkbox"/> |
| Process Driven    |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ERP-aware         |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                                     | <input checked="" type="checkbox"/> |
| SOA aware         |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> |

EAF is part of package toolset to reconcile all stakeholder views from business and IT perspective



|                                   |   |  |
|-----------------------------------|---|--|
| <b>NEW SKILLS &amp; RESOURCES</b> |  | <ul style="list-style-type: none"> <li>Global Hub of Enterprise Architects</li> </ul>  |
| <b>NEW METHODOLOGY</b>            |  | <ul style="list-style-type: none"> <li>SAP Enterprise Architecture Framework for Enterprise SOA</li> </ul>                                     |
| <b>NEW TOOLS &amp; PRODUCTS</b>   |  | <ul style="list-style-type: none"> <li>SAP EAF toolset</li> <li>Enhanced Discovery System</li> <li>ES Bundles</li> </ul>                       |
| <b>NEW PROCESSES</b>              |  | <ul style="list-style-type: none"> <li>IVN &amp; ES Community</li> <li>Creation of the ESEC - Enterprise Services Enablement Centre</li> </ul> |
| <b>NEW SERVICES</b>               |  | <ul style="list-style-type: none"> <li>Enterprise Architecture Services</li> <li>Enhanced Enterprise SOA Portfolio</li> </ul>                  |
| <b>NEW TRAINING</b>               |  | <ul style="list-style-type: none"> <li>Dedicated training and certification for Enterprise SOA roles</li> </ul>                                |

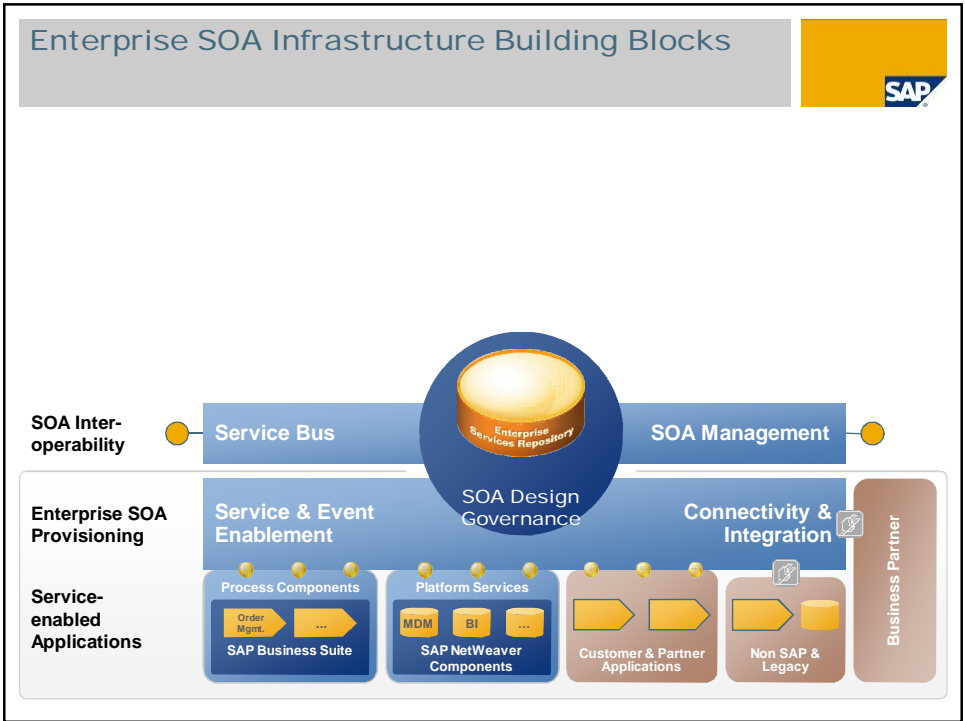
## Enterprise Architecture versus Service Oriented Architecture

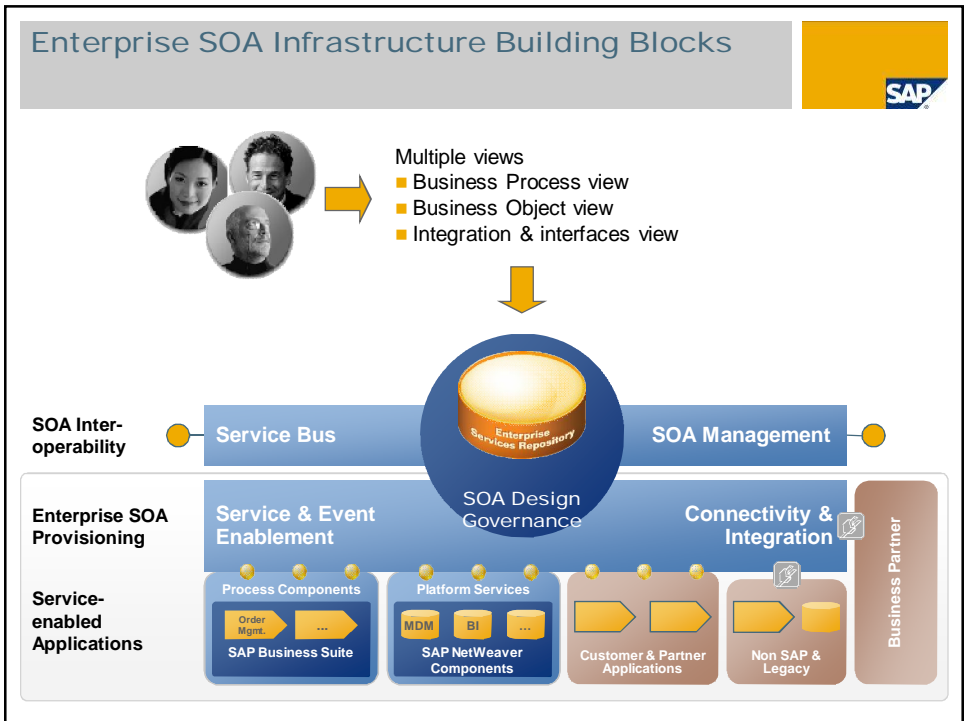
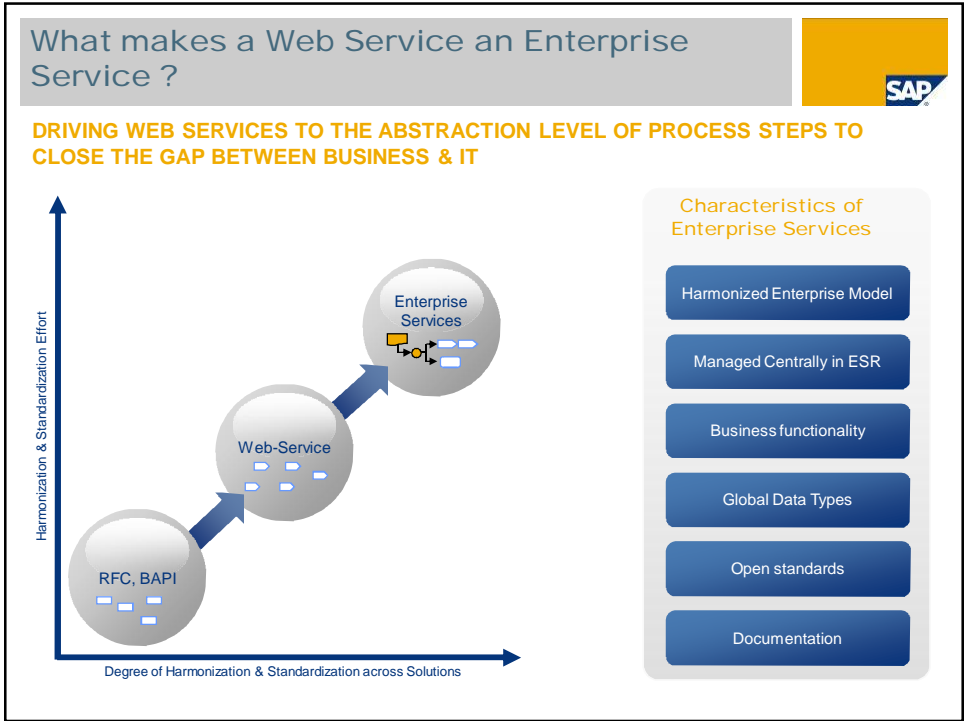


- **Enterprise architecture** is the overall **blueprint for structuring your technology and business process framework**. Provide a clear understanding and mapping of both your business processes and the technology required to support them.

SAP Enterprise Architecture Framework
  
- **Enterprise SOA** is a **business-driven software architecture** that allows you to **share and reuse enterprise services** — small, reusable “chunks” of business-driven functionality — within your company and with strategic partners.

SAP Enterprise SOA Infrastructure





## Enterprise Services (ES) Workplace

Free available at <https://www.sdn.sap.com/irj/sdn/esworkplace>

**Solution Map**

CONSUMER PRODUCTS - CONSUMER DURABLES & HOME APPLIANCES

SOLUTION MAP

SEARCH

SEE ALSO

Enterprise Services in Consumer Products - Consumer Durables & Home Appliances

Expand All

**Industry Value Chain**

| Suppliers & Partners | Analyze, Plan & Develop            | Procure & Manufacture | Market | Sell | Deliver & Service | Consumers, Customers (e.g. Retailers) & Channel Partners |
|----------------------|------------------------------------|-----------------------|--------|------|-------------------|--|
|                      | Strategic Planning                 |                       |        |      |                   |  |
|                      | Time-to-Market                     |                       |        |      |                   |  |
|                      | Integrated Supply Chain Planning   |                       |        |      |                   |  |
|                      | Sourcing & Procurement             |                       |        |      |                   |  |
|                      | Go-to-Market                       |                       |        |      |                   |  |
|                      | Sales Execution                    |                       |        |      |                   |  |
|                      | Demand Fulfillment & Execution     |                       |        |      |                   |  |
|                      | Post Sales Support                 |                       |        |      |                   |  |
|                      | Data Exchange & Legal Requirements |                       |        |      |                   |  |
|                      | Enterprise Management & Support    |                       |        |      |                   |  |

## Enterprise Services (ES) Workplace

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**Solution Map**

**Business Scenario**

PROCURE TO PAY

BUSINESS SCENARIO

Food companies focus very much on cost reduction to increase marketing budgets. In order to fulfill demand at lowest cost food companies focused on saving cost via process optimization as well as on reducing cost. Major initiatives focus on low cost procurement, supplier owned inventory and supplier consolidation.

**Increasing Revenue**

- Reduce time-to-market & volume

**Improving Customer Service**

- Reduce order lead-time

**Reducing Operating Costs & Increasing Efficiency**

- Reduce administration, improve business processes

SEARCH

BUSINESS SCENARIO MAPS

Operational Procurement - Self-Service Procurement

KPIS

SEE ALSO


Enterprise Services in Procure To Pay

Enterprise Services Index


|                              |   |
|------------------------------|---|
| Supplier Order Collaboration | <p>The supplier can use this process to create a sales order and send a purchase order response to the purchasing system. The supplier can change the order, accept it or reject it (also partly), so that the business process relating to the order and purchase order response can include repeat steps, until the purchaser and supplier are agreed.</p> <p>This process is supported by the following SAP and/or partner offerings</p> <ul style="list-style-type: none"> <li>• <a href="#">SAP Extended Procurement for Consumer Products</a></li> </ul>  |
| Requirement Processing       | <p>A purchase requisition describes a demand that is released to the purchasing department. The demand can be created automatically, e.g. as result of a MRP run or by assigning components or services to a maintenance or production order. Alternatively, the purchase requisition can be entered manually or transferred from another system. The accounting data can already be assigned and checked during processing of the purchase requisition. Sourcing (incl. initiating a RFQ process) can be executed based on a purchase requisition as well as assignment of documents.</p> <p>This process is supported by the following SAP and/or partner offerings</p> <ul style="list-style-type: none"> <li>• <a href="#">SAP ERP</a></li> <li>• <a href="#">SAP Extended Procurement for Consumer Products</a></li> </ul> |
| Processing Purchase Orders   | <p>The purchase order processing is part of the (operational) procurement of materials and services. The main task is to convert demands to purchase orders (with or without reference to a contract) or delivery schedules for a scheduling agreement and to monitor the fulfillment of these documents.</p>   |

## Enterprise Services (ES) Workplace


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Solution Map



Business Process



Business Scenario

### PURCHASE ORDER PROCESSING

**BUSINESS PROCESS**

When a purchase order has been created a number of checks and validations make sure that the right contract, discount, price, etc is referenced correctly. Purchase Order Processing also deals with the communication of the purchase order to the supplier.

**Purchase Order Types**

You can procure materials for direct consumption or for stock. You can also procure services. Furthermore, the special procurement types "subcontracting", "third-party" (involving triangular business deals and direct-to-customer shipments) and "consignment" are possible. You can use purchase orders to cover your requirements using external sources (i.e. a vendor supplies a material or performs a service). You can also use a purchase order to procure a material that is needed in one of your plants from an internal source, i.e. from another plant. Such transactions involve longer-distance stock transfers. The activities following on from purchase orders (such as the receipt of goods and invoices) are logged, enabling you to monitor the procurement process.

You can use purchase orders for once-only procurement transactions. If, for example, you wish to procure a material from a vendor only once, you create a purchase order. If you are thinking of entering into a longer-term supply relationship with this vendor, it is advisable to set up an outline agreement, since this usually results in more favorable conditions of purchase.

Because not all materials or services to be procured justify the effort involved in individual monitoring, you can also create a purchase order with an extended, predefined validity period and a value limit. (You may wish to do this when procuring office supplies, for example.) This type of purchase order is similar in nature to the "contract". In this case, you need not specify the individual materials or expend any effort with respect to goods receiving activities. You can also reduce the amount of work involved in invoice verification to a minimum by employing automatic processes.

Powered by SAP Solution Composer

SEARCH

**AVAILABILITY**

- SAP Component or Feature Available
- Enterprise SOA Enabled

**SAP APPLICATIONS**

SAP ERP


**SEE ALSO**

Access the ES Workplace ERP System Request for Access (for partners and customers with S-users only)


- Procure to Pay
- Procure to Pay
- Enterprise Services Index

## Enterprise Services (ES) Workplace


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Solution Map



Business Process



Business Scenario

Service Interface

**Enterprise Service Interfaces**

The following enterprise service interfaces support this business process:

- [Manage Purchase Order In](#)
- [Query Purchase Order In](#)
- [Manage Supplier In](#)
- [Supplier Event Out](#)
- [Procurement Arrangement In](#)
- [Query Supplier In](#)
- [Manage Purchasing In](#)
- [Ordering Out](#)
- [Ordering In](#)
- [Purchase Order Event Out](#)
- [Query Purchasing Contract In](#)
- [Purchasing Contract In](#)
- [Purchasing Contract Out](#)

**Configuration Variants**

Evaluate the following process variants in the [SAP Solution Manager](#) to implement this business process.

- [Processing Purchase Orders for Subcontracts](#)
- [Processing Purchase Orders in ERP](#)
- [Processing Contracts and Sourcing Rules in ERP](#)
- [Scheduling Agreement Processing in ERP](#)
- [Processing Delivery Schedules](#)

MANAGE PURCHASE ORDER IN

INBOUND SERVICE INTERFACE

Definition

Group of operations that enable the processing of purchase orders.

**Technical Data**

|                            |  |
|----------------------------|--|
| ESR Object Type            | ifmresat                                     |
| Software Component Version | ESM ERP 603                                  |
| Technical Name             | PurchaseOrderProcessingManagePurchaseOrderIn |
| Category                   | A2X  |
| Direction                  | Inbound                                      |

**Business Context**


The inbound service interface Manage Purchase Order contains the operations that the buyer can use to display, create, and change purchase orders.


**Service Operations**

|                                       |   |
|---------------------------------------|---|
| <a href="#">Change Purchase Order</a> | A request to and confirmation from Purchase Order Processing to change a purchase order.          |
| <a href="#">Create Purchase Order</a> | A request to and confirmation from Purchase Order Processing to create a purchase order.          |
| <a href="#">Read Purchase Order</a>   | A request to and response from Purchase Order Processing to provide the data of a purchase order. |

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### CREATE PURCHASE ORDER

INBOUND SERVICE OPERATION

**Definition**

A request to and confirmation from Purchase Order Processing to create a purchase order.

**Technical Data**

|                                |   |
|--------------------------------|---|
| ESR Object Type                | Itmoper   |
| Software Component Version     | ESA ECC-SE 603  |
| Technical Name                 | PurchaseOrderCreateRequestConfirmation_In   |
| Namespace                      | http://sap.com/xi/APPL/SE/Global  |
| Direction                      | inbound   |
| Mode                           | synchronous   |
| Release Status                 | released  |
| Application Component          | MM-PUR  |
| Idempotency                    | yes   |
| Industry Extension             | Yes   |
| Related Web Service Definition | ECC_PURCHASEORDERCRTRC  |
| WSDL                           | <ul style="list-style-type: none"> <li>• <a href="#">Detailed field description</a></li> <li>• <a href="#">WSDL (ESD)</a></li> <li>• <a href="#">WSDL (back-end)</a></li> </ul> |


SEARCH

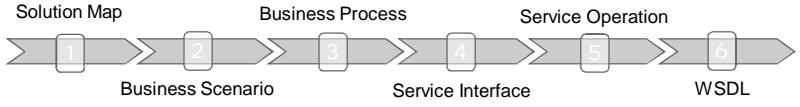
SEE ALSO

- [Enterprise Services Index](#)
- [Where used](#)

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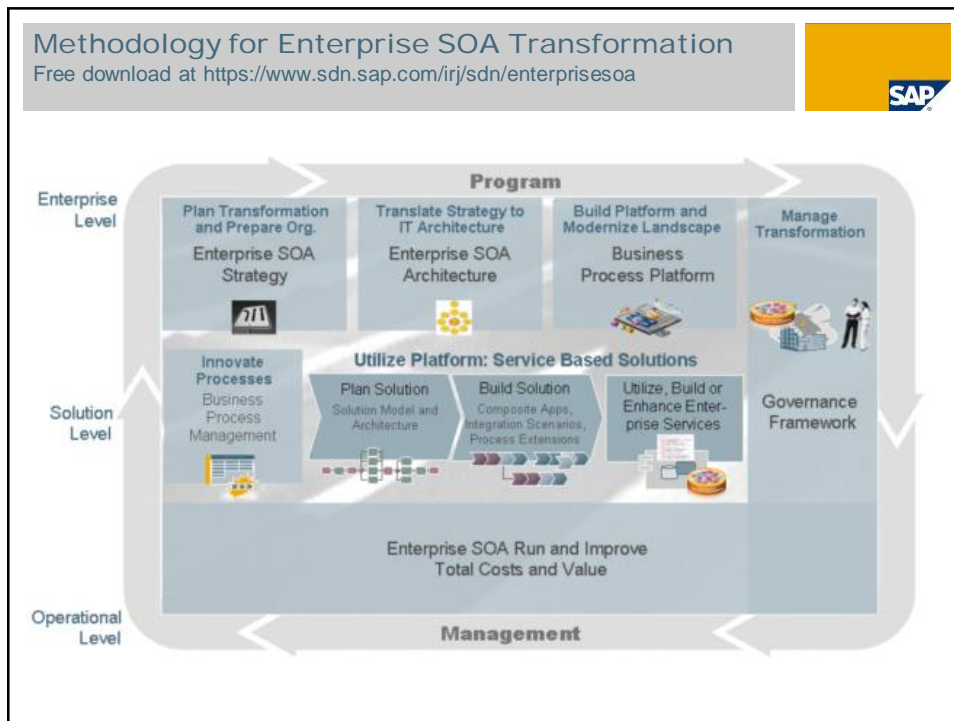
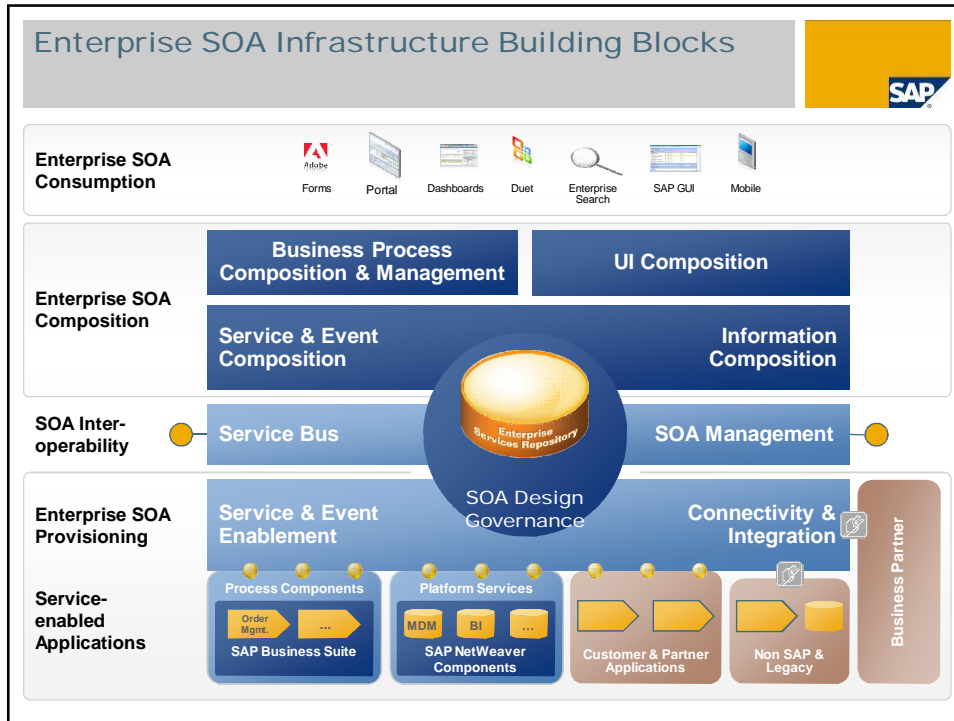




```

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targetNamespace="http://sap.com/xi/APPL/SE/Global" -->
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<!-- owl:types -->
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targetNamespace="http://sap.com/xi/SAPGlobal20/Global" -->
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## SAP RUNS TOGAF

Reconciles all stakeholder views  
from a Business and IT perspective



Pim de Wit  
Sr. Solution Architect Platform  
SAP Nederland b.v.

LAC 2008, 26-11-2008

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