Enterprise Services Repository Content Certification
Certification of Partner-delivered Enterprise Services (PdES)

SAP Integration and Certification Center
October 2009

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THE BEST-RUN BUSINESSES RUN SAP™   **SAP**

Agenda

1. Enterprise Services Repository Content Certification

2. Why Partner-delivered Enterprise Services?

3. Certification Process

4. Certification Benefits

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1. Enterprise Services Repository Content Certification

2. Why Partner-delivered Enterprise Services?

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What is
Enterprise Services Repository Content Certification?

SAP

NW-ESR-CNT Certification

- Code named as "NW-ESR-CNT" Enterprise Services Repository (ESR) content certification intends to verify that enterprise services delivered by SAP partners and Software Solution Providers are aligned with SAP's own SOA modeling guidelines.

- It involves verifying
  - Modeling of the services
  - Definition of the services

ESR Content is also known as;

- Partner-developed Enterprise Services (PdES)
- Enterprise Services Provisioning

http://tinyurl.com/pdes-cert

NW-ESR-CNT Page on SDN

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Getting Started
Service-Oriented Architecture
SAP NetWeaver Capabilities
User Productivity
Information Management
Business Process Management
Development and Composition
Lifecycle Management
Security and Identity Management
SOA Middleware

Home > Partnership and Certification > **Integration and Certification**

ENTERPRISE SERVICES REPOSITORY CONTENT CERTIFICATION (NW-ESR-CNT)
SAP INTEGRATION AND CERTIFICATION - INTEGRATION SCENARIOS

The Enterprise Services Repository (ESR) Content certification in its current version 1.0 focuses completely on the modelling and definition of synchronous inbound A2X services. Outbound services or A2A and B2B scenarios are not in the scope of certification. A2X services are general-purpose services where the consumer (X) of the application (A) functionality is not pre-defined. They are requested for example for composite applications and for composite views. This certification does not certify the actual business functionality of the implementation. Nevertheless, linked to SAP's SOA methodology, some general

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Partner-delivered Enterprise Services (PdES)
Value Proposition

ES Methodology

turned into

Value Proposition

ES Methodology		Value Proposition
Alignment of business semantics		**Harmonized Integration**
Interface patterns & Naming rules	**PdES**	**New Consulting Services** • „Enable your customer"
Standards-based Data typing		**New Marketing Element**

SAP CO-INNOVATION LAB
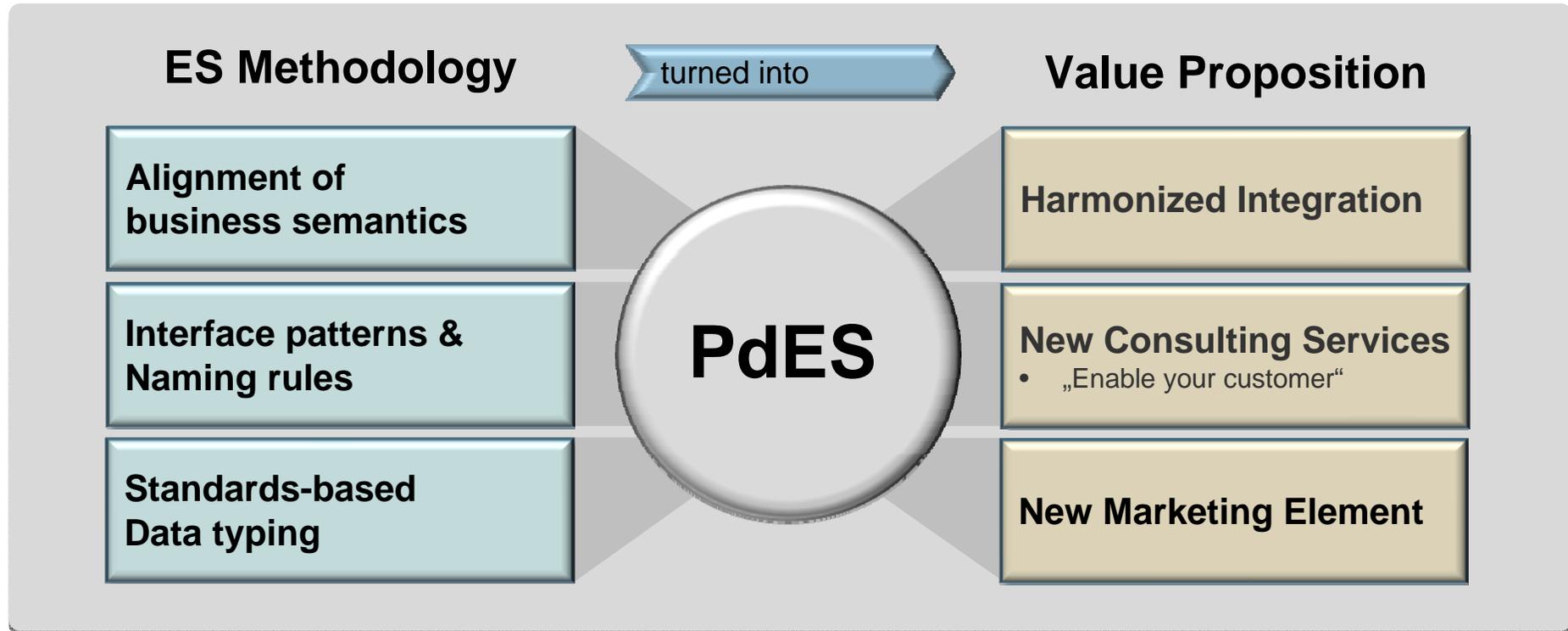
Alignment of business semantics

Harmonize the semantic view on business processes across solutions
(SAP, customer, partner solutions)

Point of alignment: Enterprise Services Workplace

Interface patterns and naming rules

Interface patterns:
Same categories of functionality (e.g. CRUD-like operations, queries, etc.) always bundled in same service interface type with similar naming

Clear naming rules for operations, service messages, message nodes, elements, and data types

Ensures maximum comprehensibility across SAP community

Standards-based data typing

Based on UNCEFACT/ CCTS standard: Core Data Types
[Amount, Number, Identifier, BinaryObject, etc.]

SAP has pre-defined data types with higher-level business semantics, the Global Data Types

Simplify integration on the message element level

SAP's Global Co-Innovation Lab Network

COIL in Action: Partner delivered Enterprise Services 2008
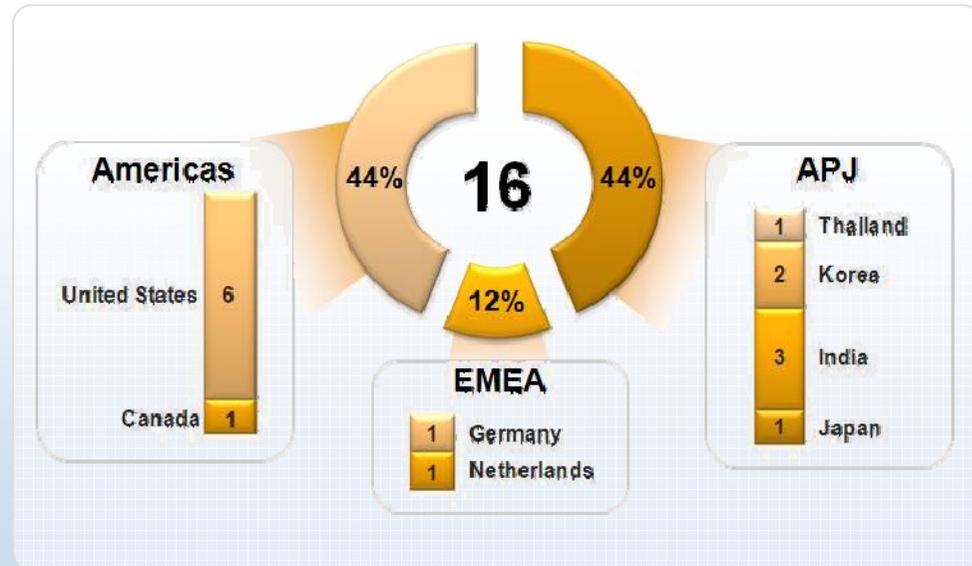
Enabling Partners around the world to successfully model, define and ultimately deliver their own SAP methodology-compliant Partner services.

COIL Global Network

Project Type	▪ Adoption Initiative ▪ Application
Deliverables	▪ 'PdES Wiki' on SDN ▪ Partner Solutions

"B-EN-G, together with COIL Tokyo, realizes the best functionalities to fulfill the needs of markets. Through this collaboration, B-EN-G has developed a partner-delivered Enterprise Service for better operations of modern Global Logistics to realize flexible, visible, efficient, and easily controlled dashboard functionalities for the most complex SCM processes of today's global trade arena."

Kiyoshi Masubuchi
Executive Officer
Business Innovation Div.
Toyo Business Engineering
Corp. (B-EN-G)

Providing and Consuming Enterprise Services
Process Overview

SAP

Provisioning

Consumption

Modeling

Tool: Enterprise Services Builder
Part of Enterprise Services Repository toolset
Shipped with SAP NetWeaver CE and PI from release 7.1 onwards

Process Composition

Definition

Consumption

SERVICE ENDPOINT

DESIGN TIME
WSDL

Implementation

Testing

RUN TIME
WSDL

Publication

Discovery

SAP CO-INNOVATION LAB
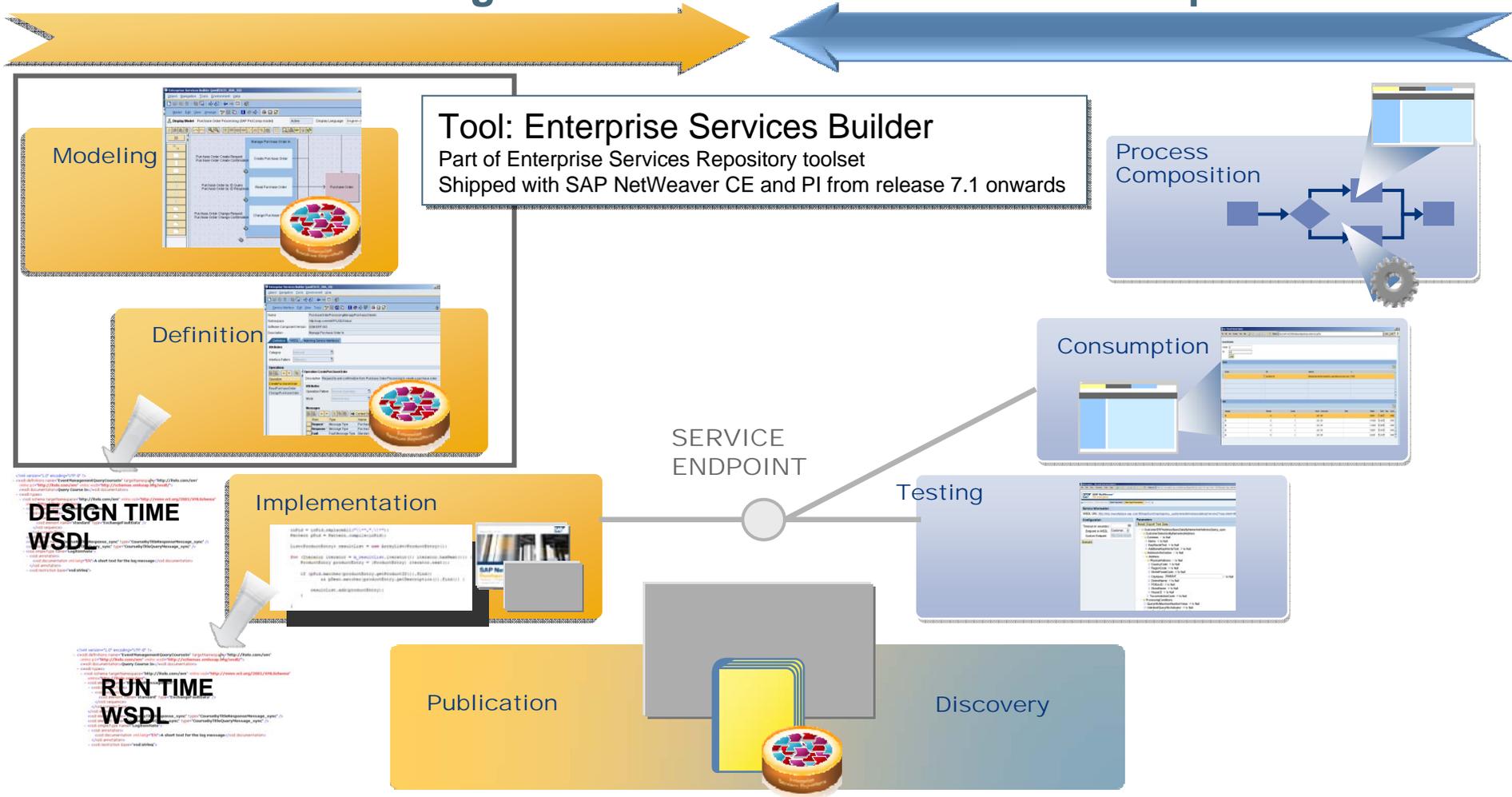
Service Modeling
Key elements I

Business Object

Identify the **main entities** in your solution's business domain

Name and define entities **appropriately and clearly**!

Business Objects should be seen as a part of your **solution data model**

Point of alignment with SAP: Enterprise Services Workplace **Re-use where appropriate! Define new where necessary!**
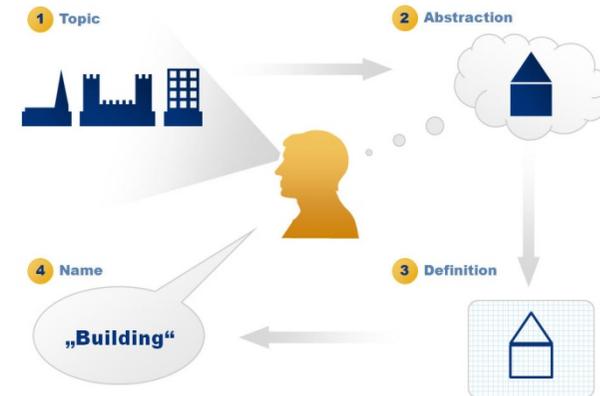
Process Component

Groups business objects in your solution's business domain

Name appropriately and clearly!

If SAP business object is re-used, embedding SAP process component must be re-used as well!

Point of alignment with SAP: Enterprise Services Workplace **Re-use where appropriate! Define new where necessary!**
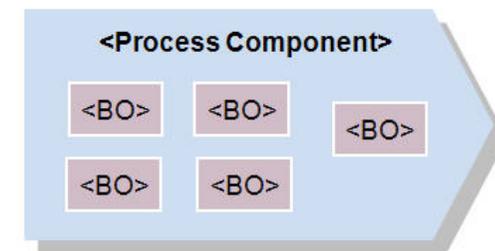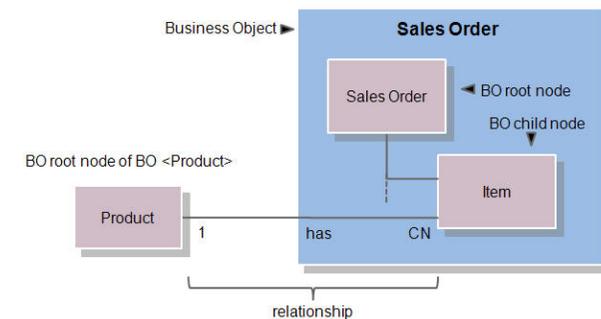
Service Modeling
Key elements II

Operations

Business functionality operating on one defined business object, parts of it and/or related clearly related business objects

Identify the **functionality** you want to expose!

Name and define entities **appropriately and clear** based on **naming rules**!

Only **synchronous A2X operations** are certified

Service Interface

Groups operations for one business object according to well-defined **interface patterns**

Names are derived, not freely chosen!

Message Types

Reflect messages exchanged during an operation call

Names are derived, not freely chosen!

Service Definition
Essentials
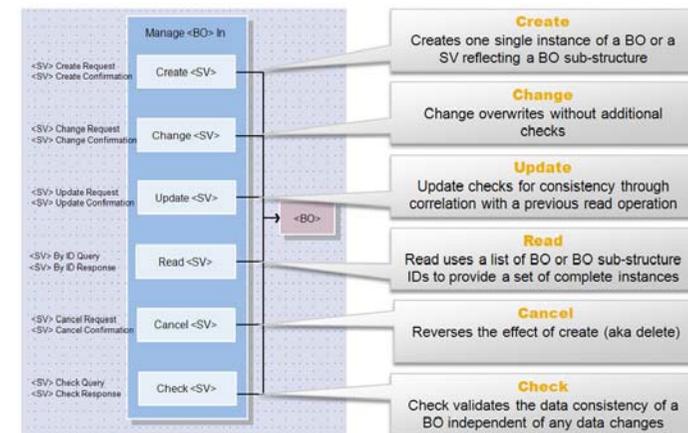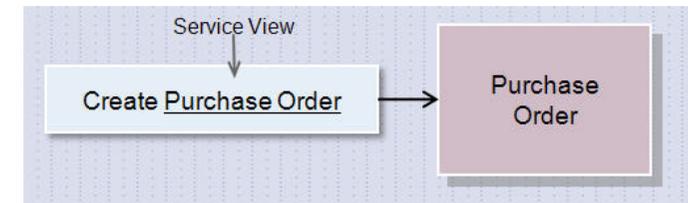
Procedure

For each modeled service interface a **service definition** is created

Service Definition corresponds directly to **design time WSDL**

Each modeled message type corresponds directly to a message in the design time WSDL

Structure and elements of exchanged message types are defined according to scenario requirements

Message Elements and Data Types

Clear naming and typing rules based on **UNCEFACT/CCTS** standard as well as **SAP Global Data Types**

Global Data Types are SAP-defined data type templates based on standard **Core Data Types** (Amount, Number, Image, …)

Re-use where appropriate! Define new data types where necessary!

Your own data types are referred to as **Business Data Types**

MDT node elements

MDT
- Message Header
- Content Root Node
- Processing Conditions
- Log
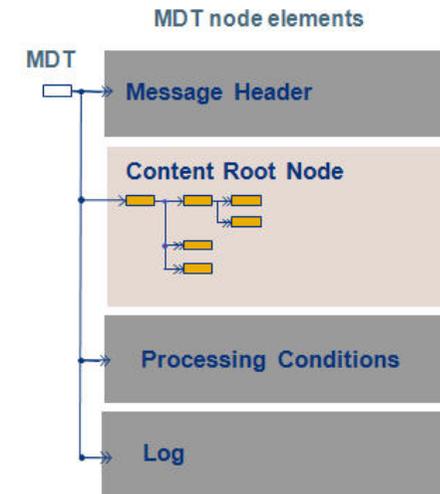
ISO International Organization for Standardization

ISO 15000-5 2006 (CCTS)

SAP CO-INNOVATION LAB

Define your own services
Elements of Success

Have a look at our **Blog Series: Partner-delivered Enterprise Services**

Gain knowledge by visiting SAP education course **SOA300**!
   [Part of Curriculum: Enterprise Service Development]

Get a feel for SAP ES Workplace: http://esworkplace.sap.com

Invest 80% into modeling!

   Service Definition is largely derived by clear naming rules.

   Align with SAP ES Workplace! Re-use!

   Bring business process experts and solution experts to the table.

The better your naming and your entity definitions, the better the quality of your service!
   [Please note as well: Your modeling content will also be published by SAP so it will be an advertisement for your solution!]

Agenda

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2. Why Partner-delivered Enterprise Services?

3. Certification Process

4. Certification Benefits

Certifications relevant to PdES

2 Implementation SAP Deployment Certification* (Optional)

non-SAP Platform

SAP NetWeaver

1 NW-ESR-CNT

3 Implementation SAP Integration Certification* (Required)

Enterprise Services Repository

SAP NetWeaver

SAP Business Suite

*: Where applicable

Pre-requisites for NW-ESR-CNT Certification
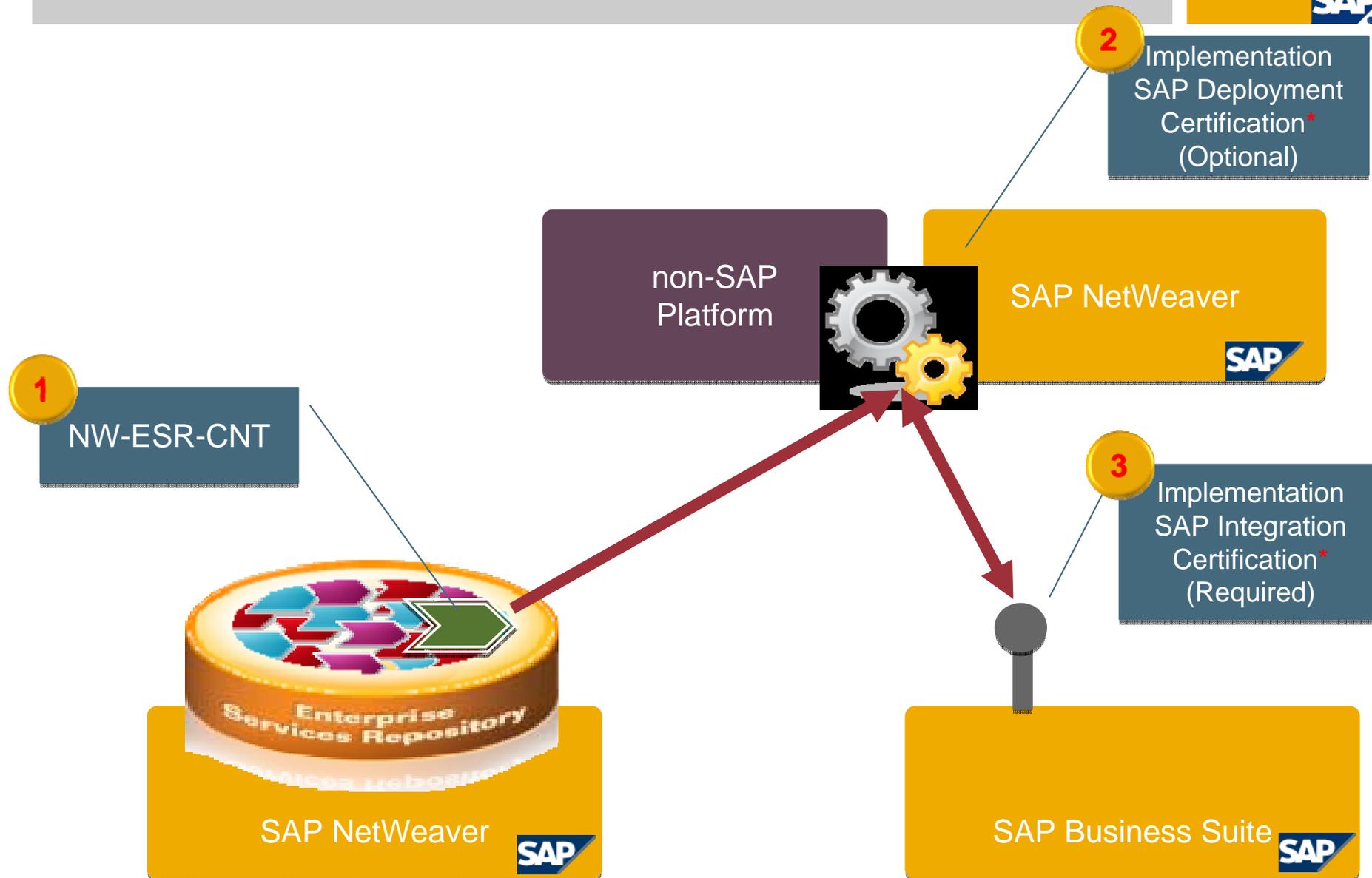
Required SAP tools

- Enterprise Services Repository
    - Enterprise Services Builder

Required SAP software

- SAP NetWeaver Composition Environment (CE) 7.1 (or higher) or
- SAP NetWeaver Process Integration (PI) 7.1 (or higher)

Required SAP software licenses

- SAP NetWeaver Developer User License
    - 2100 EUR per user
- SAP Enterprise Service Provisioning License
    - No additional fee

General Certification Requirements – 1/2

Software Landscape Directory (SLD)

- Partner product and software component should be defined in SAP SLD

Development of the Content

- Modeling content
    - All artifacts are modeled within Process Component Model using the ES Builder
- Definition of content
    - Service definitions (WSDLs) are generated based on the modeled content
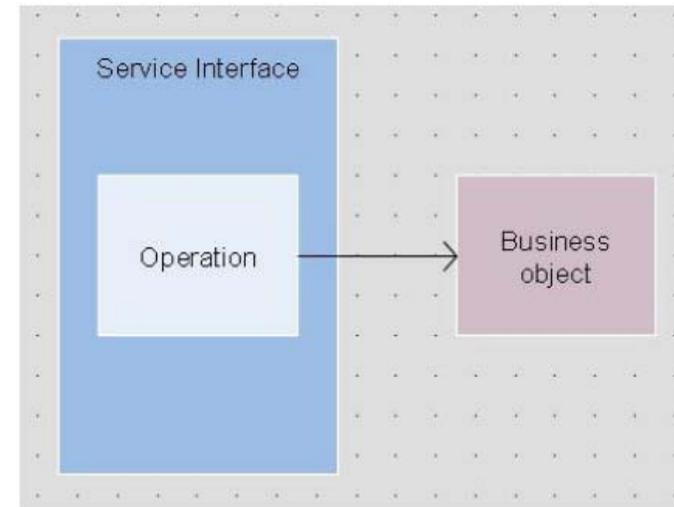
Implementation

- While the details of the implementation is outside the scope of NW-ESR-CNT certification, implementation must meet some general requirements
- Depending on the implementation platform following certifications are strongly suggested
    - SAP J2EE/Java EE Deployment certification
    - SAP ABAP certification

General Certification Requirements – 2/2

Integration with SAP Solutions

- If the implementation of the delivered ES integrate with SAP solutions (e.g. SAP ERP, CRM, SRM, PLM, etc.), associated SAP interface of the implementation is required to be certified

Documentation

- Documentation of the Process Component Models
- Consumption document for each enterprise service operation delivered
- Installation and configuration guide

Deployment of the ESR Content

- ESR content should be deployed using ES builder successfully

Functional Testing

- Functionality of the delivered services will be tested based on a mutually agreed test plan

Support and Solution Manager Integration

- Partner should provide support for their enterprise services
- Documenting partner's ES in SAP's Product and Production Management System is sufficient to achieve "SAP Solution Manager Ready" compliance

Cost and Benefits

SAP

Certification fee

- 7,000 USD (for Americas and Japan), 5,000 Euros (for all other countries).

Certified ESR Content (PdES) will receive the certification logo

- **SAP® Certified** — Integration via Enterprise Services

Certified ESR Content (PdES) is listed on several SAP web sites

- Partner Information Center
  - Customers can search for certified solutions and provider companies
- SAP EcoHub – The online marketplace in the ecosystem for SAP partner solutions
  - http://ecohub.sap.com
- Certified Solutions page on SDN

Home

ENTERPRISE SERVICES REPOSITORY CONTENT CERTIFICATION
CERTIFIED SOLUTIONS

INTRODUCTION

The new certification interface NW-ESR-CNT in its current version 1.0 focuses completely on the modeling and definition of synchronous inbound A2X services. Outbound services or A2A and B2B scenarios are not in the scope of this certification. This certification does not certify the actual business functionality of the implementation. Nevertheless, linked to SAP's SOA methodology, some general implementation requirements must be fulfilled around fault message and log handling as well as service reliability.

SAP® Certified — Integration via Enterprise Services

CERTIFIED SOLUTIONS

Company	Solution
CONET	**COACH (Groupware Integration) 2.1 by CONET Solutions GmbH** CONET Coach integrates existing collaboration solutions (MS Exchange, Lotus Notes) with SAP NetWeaver, so that the processes within the SAP Business Suite can be optimized by using the functionalities of e-mail and calendaring provided by the groupware, e.g., process-driven assignment of incoming e-mail directly to SAP CRM. [Certification valid until: 2012-08-30]
TPG Task Performance Group	**MegaXML/ESP 3.5 by Task Performance Group, Inc.** The Electronic Document Delivery Status Monitoring & Reporting solution MegaXML/ESP by Task Performance Group, Inc. tracks all electronic documents provided by SAP and processed through its pipeline. [Certification valid until: 2012-04-23]

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SAP Integration and Certification Center

SAP

Contact icc@sap.com or visit our Homepage on SDN

- Established in 1996
- 15 - 20 consultants worldwide in 5 locations
- > 1850 valid certifications
- > 800 companies
- > 130 defined integration scenarios and additional integration options
- Supports ISVs and all companies interested in joining SAP PartnerEdge

http://tinyurl.com/sapicc

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Germany

CHENGDU
China

BANGALORE
India

SAP Integration and Certification Center Services

SAP

Plan ▸ Build ▸ Certify ▸ Publish & Maintain

Consulting Services

Integration Consulting and
Integration Assessment
by experienced integration consultants

Integration Certification

Certification against
standard and custom
integration scenarios

Online Listing,
Logo

Hosted Test System Access

Hosted test systems of several SAP solutions
(ERP, CRM, etc.) for integration testing

SDN Homepage ICC

Dedicated ICC website on SDN, with integration documentation, forums
and blogs to foster information exchange among the ISV technical community

Expert Access

Dedicated project support

Integration Certification Branding

SAP Certified
Integration with SAP Applications

SAP Certified
Powered by SAP NetWeaver

SAP Certified
Integration via Enterprise Services

SAP Certified
Integration with SAP NetWeaver

SAP Certified
SAP Business One Integration

SAP® Certified
Integration with SAP BusinessObjects

One Consistent Master Brand to harmonize and unify branding, and to avoid the past confusion caused by several logos and taglines

Six Intuitive Descriptors to highlight integration areas, and to provide transparency to customers, what each integration certification stands for

Equal Positioning of all certifications regardless of logo, as all certifications represent a value-add to customers

Integration Certification within the SAP Ecosystem

SAP

Trusted and Relevant Partner Solutions and Services

Communities of Innovation

Software Solution Partners

Channel Partners

Business Process Expert Community

Industry Value Networks

SAP Certified
SAP Business One Integration

SAP Certified
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Integration via Enterprise Services

Peers

Partners

Customer

Individuals

SAP

Industry Standards

SWIFT

OAGi

GS1

WS-I

W3C MEMBER

OASIS

ES COMMUNITY

Technology Partners

Service Partners

Technical Communities Diamond, SDN

Enterprise Services Community

Benefits of SAP Integration Certification

SAP

... to CUSTOMERS

Enhance Return on Investment

- **Reduce integration costs with pre-certified solutions for SAP applications**
- **Decrease deployment risks for solutions running on SAP NetWeaver with SAP endorsed technologies**
- **Aim for minimal interruption during software upgrades**

Offer Choice

- **of 3rd party solutions which either extend SAP functionality and/or run on SAP NetWeaver**

Reduce Downtime

- **SAP Solution Manager Ready integration testing**
- **Regular re-certifications**

Provide Transparency

- **New logos clearly document technical integration area**

Accelerate Innovation

- **Upgrade to new technologies together with your partners**

... to PARTNERS and ISVs

Opportunity for Growth and Participation

- Entry point to participate in **SAP PartnerEdge**
- Faster sales cycles with proven SAP integration

Marketing Benefits

- Logo
- Online listings
- PR Reviews and basic awareness tools
- Eligibility for EcoHub

Join SAP PartnerEdge to augment the benefits you can gain from certification

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