

SAP Certifications for BW Interfaces



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Agenda



1. SAP Integration and Certification Center

2. Business Warehouse Interfaces

3. Certification Process and Fees

4. Certification Benefits

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 SSPs and all companies interested in joining SAP PartnerEdge



Integration Certification within the SAP Ecosystem



Trusted and Relevant Partner
Solutions and Services

Communities of Innovation

Software Solution
Partners

Channel
Partners

Business Process Expert
Community

Industry
Value Networks

SAP Certified
Integration with SAP Applications

SAP Certified
Powered by SAP NetWeaver

SAP Certified
Integration with SAP NetWeaver

SAP Certified
Integration with BusinessObjects

SAP Certified
Integration via Enterprise Services

SAP Certified
SAP Business One Integration

Partners

Customer

Individuals

Peers

SAP

Technology
Partners

Service
Partners

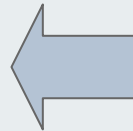
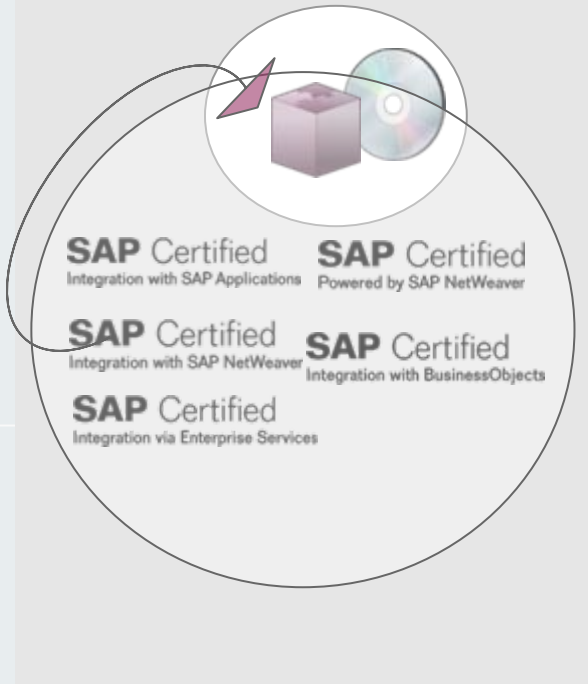
Technical Communities
Diamond, SDN

Enterprise Services
Community

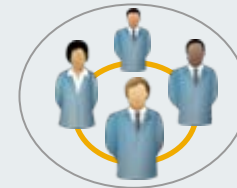


Communities of Innovation

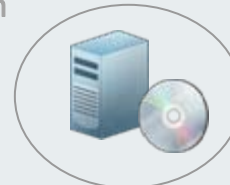
Software Solution Partners



SDN Documentation



Integration Consulting
and Assessments



Test System Access

Get the support you need for a successful integration project with SAP solutions

Plan

Build

Certify

Publish &
Maintain



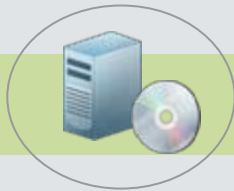
Consulting Services

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

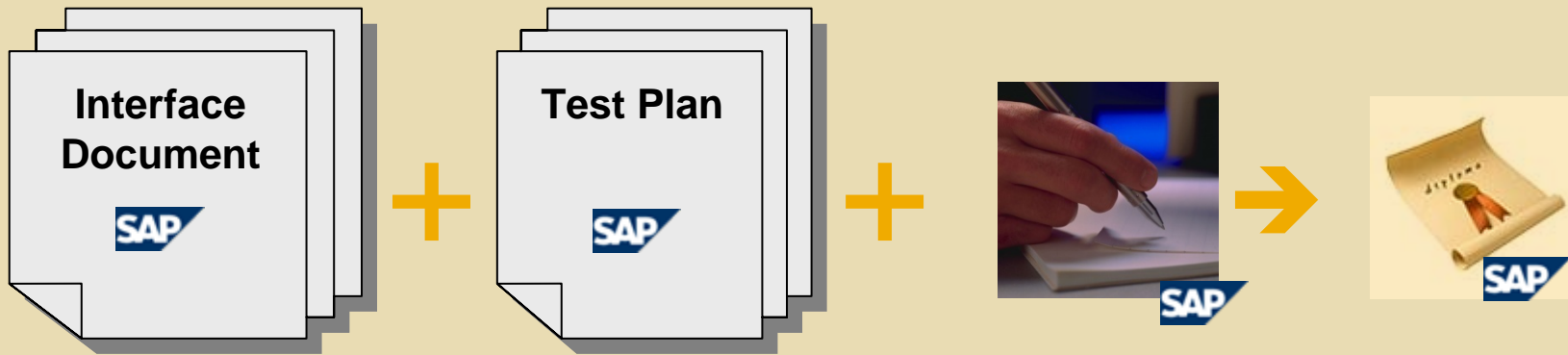
Dedicated ICC website on SDN, with integration documentation, forums
and blogs to foster information exchange among the ISV technical community



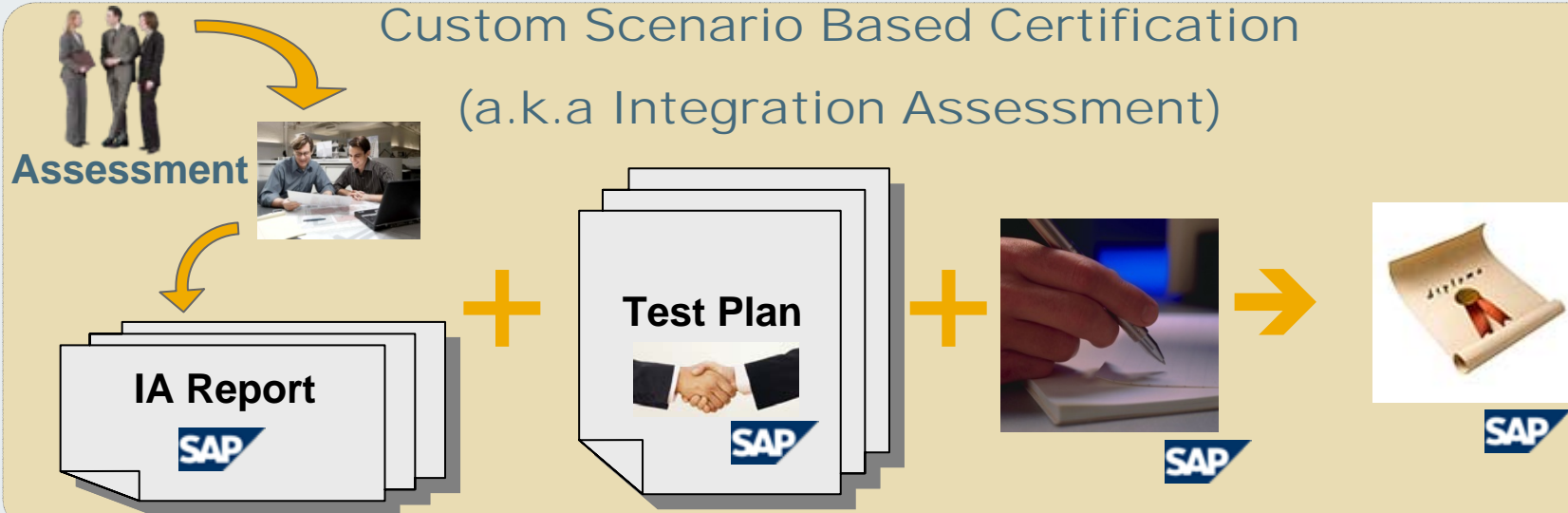
Expert Access

Dedicated project support

SAP Pre-defined Scenario Based Certifications



Custom Scenario Based Certification (a.k.a Integration Assessment)



Accelerated Innovation

Deployed Partner Applications and Content

CE 7.1

SAP NetWeaver

PI 7.1

...

SAP Certified
Powered by SAP NetWeaver

Continuous Innovation

EHP

EHP

EHP

EHP

EHP

EHP

ERP

CRM

SCM

SAP Business Suite

SRM

PLM

SAP NetWeaver 7.0

EHP

EHP



Integrated Partner Applications

SAP Certified
Integration via Enterprise Services

SAP Certified
Integration with SAP Applications

SAP Certified
Integration with SAP NetWeaver

EHP = Enhancement Packages

Agenda



1. SAP Integration and Certification Center
- 2. Business Warehouse Interfaces**
3. Certification Process and Fees
4. Certification Benefits

- SAP ICC offers the following interfaces for integrating third-party tools provided by Software Solution Providers (SSPs) with SAP BW

BW Interface name	Description	SAP BW Release		SAP NetWeaver
BW-OB1	Business Warehouse – OLAP BAPIs	3.0	3.5	7.0
BW-ODB	Business Warehouse – Reporting on OLAP	3.0	3.5	7.0
BW-XMLA	Business Warehouse – Data Staging	3.0	3.5	7.0
BW-SCH	Business Warehouse – Job Scheduling	3.0	3.5	7.0
BW-OHS	Business Warehouse – Open Hub Services	3.0	3.5	7.0
BW-STA	Business Warehouse – Data Staging	3.0	3.5	7.0
BW-UDC-JDBC	Business Warehouse – Universal Data Connect JDBC	3.0	3.5	7.0
BW-DMI	Business Warehouse – Data Mining Interface		3.5	7.0
BW-CNT	Business Warehouse – Third Party content	3.0	3.5	7.0

Select appropriate BW interface certification based on the following criteria

- Reporting

- BW-OB1
- BW-ODB
- BW-XMLA

- Scheduling

- BW-SCH
- BW-OHS

- Data extraction from BW

- BW-DMI

- Uploading data to BW

- BW-STA
- BW-UDC-JDBC

Business Warehouse – OLAP BAPIs Certification

- OLAP BAPIs provide an industry-standard method for accessing SAP Business Warehouse (SAP BW) data via third-party front-end presentation tools
- OLAP BAPIs enables Partners and SSPs to connect the SAP BW server to a wide range of applications with varying OLAP architectures
- OLAP BAPIs enables third party application to access SAP BW Meta data and Master data
 - Accessing InfoObjects or InfoCubes
 - Accessing dimensions of InfoCube
- OLAP BAPIs enables third party application to access SAP BW Transaction data
 - Accessing InfoCube and Drilldown on Characteristics
 - Accessing restricted data using filters

Business Warehouse – Reporting for OLAP

- OLE DB for OLAP (ODBO) enables Partners and SSPs to query data from an OLAP server
 - ODBO is a set of COM objects and interfaces that extend OLE DB in order to provide access to multidimensional data structures
- BW-ODB interface provide methods for accessing SAP Business Warehouse (SAP BW) data via a third-party front-end presentation tool
- ODBO enables third party application to access SAP BW Meta data and Master data
 - Accessing InfoCubes
 - Accessing dimensions of InfoCube
- ODBO enables third party application to access SAP BW Transaction data
 - Accessing InfoCube and Drilldown on Characteristics
 - Accessing restricted data using filters

Business Warehouse – Data Staging

- XML for Analysis (XML/A) is a protocol specified by Microsoft© Corporation
 - Used for the exchange of analytical data between client applications and servers via HTTP and SOAP
 - Materialized as a Web service within SAP BW
 - Once connected to SAP BW, XML/A enables a third-party reporting or analysis tool to communicate directly with SAP's analytical engine
- XMLA enables third party application to access SAP BW Meta data and Master data
 - Accessing InfoCubes
 - Accessing dimensions of InfoCube
- XMLA enables third party application to access SAP BW Transaction data
 - Accessing InfoCube and Drilldown on Characteristics
 - Accessing restricted data using filters

Business Warehouse – Job Scheduling

- BW-SCH interface provides APIs that allow external scheduling tools to schedule BW Process Chains and BW Info Packages (optional)

- BW-SCH BAPIs allow third party application to:
 - Retrieve a list of Process Chains
 - Start/Schedule a Process Chain
 - Monitor Process Chains
 - Display logs
 - Restart Process Chain

Business Warehouse – Open Hub Services

- SAP BW allows the controlled and secure provision of high quality SAP BW data to downstream systems and applications using Open Hub Services
- BW-OHS interface provide BAPIs to integrate SAP BW with third party tools (such as ETL tools) for data distribution
- BW-OHS BAPIs allow third party application to
 - List and select Open Hub Destinations, read Meta data
 - Also list and select InfoSpokes
 - Successfully extract data from SAP BW and send the status
 - Read all SAP data type
 - Schedule the extraction process
 - Using Process Chains

Business Warehouse – Data Mining Interface

- Data mining is used to automatically determine significant patterns and hidden associations from large amounts of data.
- Data mining provides you with insights and correlations that had formerly gone unrecognized or been ignored because it had not been considered possible to analyze them.
- BW-DMI interface enables Partners/SSPs to connect their data mining engines to SAP BW.
- BW-DMI offers APIs to
 - Register 3rd party engines in SAP BW
 - Modeling in the Data Mining Workbench
 - Model and execute training processes
 - Model and execute prediction processes
 - UI Customization

Business Warehouse – Data Staging

- BW-STA interface provides BAPIs
 - For updating and retrieving Meta data
 - To send data extracts to SAP BW

- Allows to connect Meta data repositories and the extraction engines to SAP BW

- BW-STA BAPIs allow third party application to
 - Upload Master data and Transaction data
 - Upload Unicode data
 - Creation and activation of Meta data
 - Characteristic and Keyfigure
 - InfoSource
 - InfoPackage

Business Warehouse – Universal Data Connect JDBC

- Universal Data Connect or UD Connect is part of concept introduced in SAP BW 3.5 called Universal Data Integration (UDI)
- UDI leverages the SAP NetWeaver Application Platform's J2EE engine to provide inbound connectivity for diverse data sources for SAP BW
- BW-UDC-JDBC Interface verifies that the Partner's/SSP's JDBC driver is in compliance with the UD Connect technology
- BW-UDC-JDBC interface provides
 - Access between SAP BW and external database system
- Partner/SSP should have SAP NetWeaver Application Server

Certification Process

- Deployment of the JDBC driver on SAP NetWeaver Application Server and configure UD Connect
- Verification of external database
 - To test DB schema
 - DB schema will be provided by ICC, Partner/SSP has to prepare the schema in the database before the certification
 - Test servlets will be provided by ICC for testing the schema, Partner/SSP has to deploy the servlets on Apps Server
- Verification of data using BW Remote Cubes
 - Prepare a BW Remote Cube 1 with external database as source system
 - Execute a simple query using BEx Analyzer to read data
 - Data will be provided by SAP
- Verification of Performance/Stability
 - Prepare a BW Remote Cube 2 with external database as source system
 - Execute a simple query using BEx Analyzer to read data
 - Data will be provided by SAP
 - Number of records in the database: about 250,000 records

Agenda



1. Introduction to SAP Certification
2. Business Warehouse Interfaces
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Certification process

- Signing service offer
- Kick-off meeting
- ICC will provide a test plan for certification
 - Testing will be done accordingly on SAP hosted systems, but can be done even on Partner's or SSP's system also
- Register the product in SLD
 - Once registered, product is Solution Manager ready

Certification fees

- \$13,500 (in America and Japan), €10,000 (for all other regions)
 - Consulting and one day testing at SAP facility or remotely
 - Entry-level marketing support (e.g. press release review)

Certification validity

- Valid for three years
- Re-certification possible

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... 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

Join SAP [PartnerEdge](#) to augment the benefits you can gain from certification





Voice of Partners

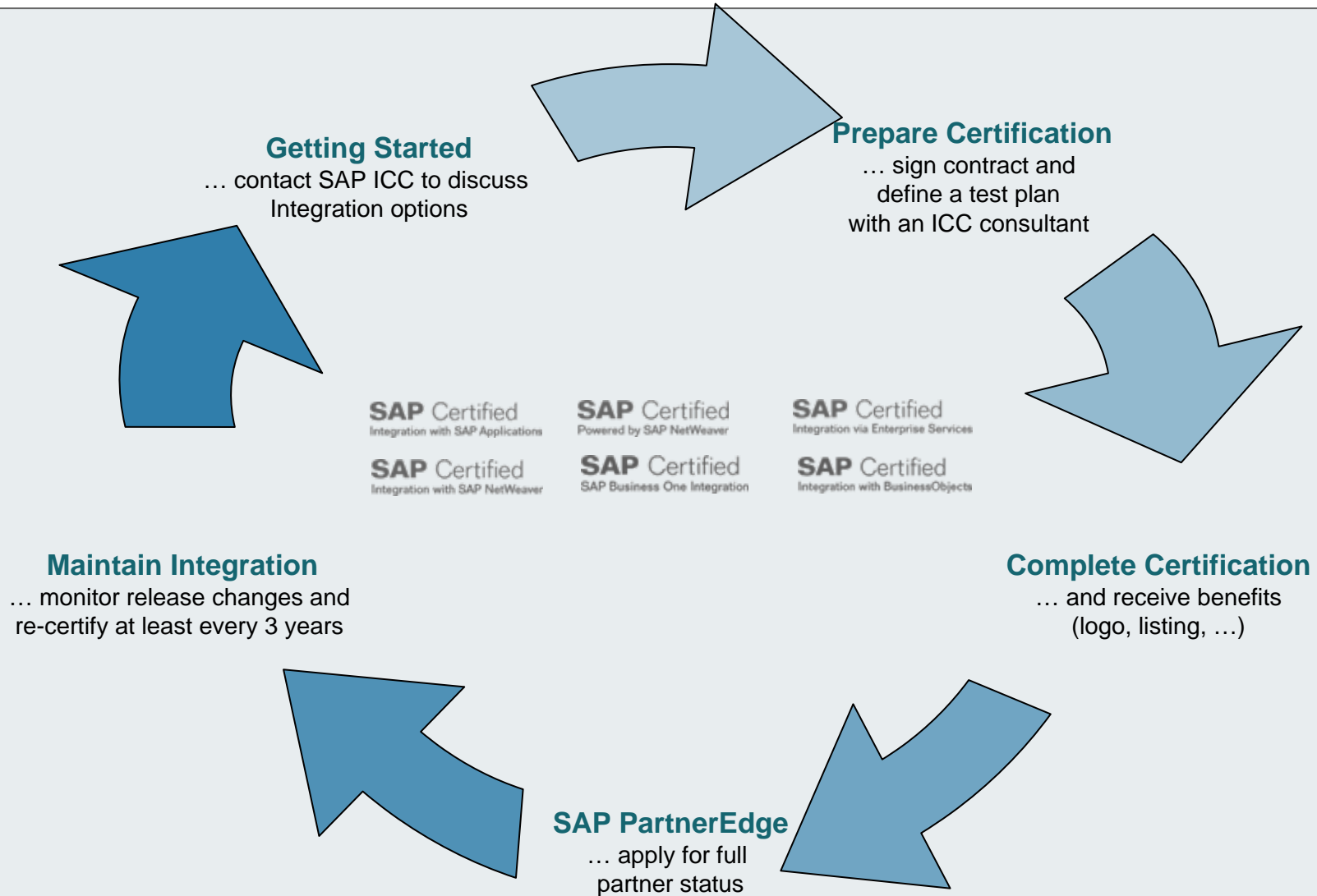
■ Reason for certification

- SAP Brand / Affiliation with SAP → 31%
- Customer demand → 24%
- Awareness within SAP customer base / Lead Generation / to target SAP Customers → 23%
- Quality assurance → 22%

Voice of Customers

■ The main advantages customers expect:

- Passed a rigorous SAP evaluation, so integration must be of fine quality and based on SAP-endorsed technologies
- Will work well with SAP solutions, since the solution provider and SAP already resolved integration issues and other problems
- Will match up to and operate with the most recent SAP releases due to regular re-certifications



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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





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