SAP Business One Integration for NetWeaver(B1ISN) – Introduce

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SBS Solution Management Rollout

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AGENDA

Business One Integration Strategy
System Architecture
Integration Scenarios with Demos
References
Q&A
AGENDA

Business One Integration Strategy

System Architecture

Integration Scenarios with Demos

References

Q&A
SAP Business One is an affordable, integrated business management solution designed specifically for small and midsize companies (10-100 employees)

Large Businesses (1,000+ Employees)
- 200 M Employees (18% of Total)
- $503 B IT Spending (49% of Total)
- 3 to 4% CAGR

Medium Businesses (100-999 Employees)
- 190 M Employees (17% of Total)
- $208 B IT Spending (20% of Total)
- 9 to 10% CAGR

Small Businesses (1-99 Employees)
- 700 M Employees (65% of Total)
- $321B IT Spending (31% of Total)
- 13 to 14% CAGR
Small Business Market

Small Businesses (1-100 Employees)

- Subsidiaries
- Business One Sweet Spot
- Very Small Business
"How can I provide HR as a central shared service for my subsidiaries?"

"How can I make it happen that the financial and sales data of our subsidiaries comes in time and in good quality?"

"What do I have to do to speed up my subsidiary order process so that our replenishment and delivery processes are more efficient and accurate?"
The Need to Integrate & Standardize Systems

Ensuring consistency throughout the business ecosystem

IMPROVE CONTROL
- Real-time insight
- Master data consistency
- Standardize operations

INCREASE EFFICIENCY
- Faster month-end closing
- Automated processing
- Improved collaboration

LOWER COSTS
- Harmonize data
- Lower maintenance costs
- Reduce administrative burden
SAP Business One Integration Technology provides generic, message-based and declarative integration capabilities based on model-driven integration.

**Preconfigured Integration Content for mySAP**
- Master Data Distribution
- Intercompany Business
- Reporting  

**Integration content for SME-like Use Cases**
- Ecosystem
- Data Migration
- Integration of third party applications and Web services  

Starting 2007
Separation of Content and Technology

Main benefits

- Reduction of complexity through clear focus on content, technology and tools
- High flexibility due to interdependency of a particular technology
- High re-usage of Business Integration Content
- Rapid implementation and minimal skill set for standard integration cases
**Supported SAP Components**

**Headquarters**
- mySAP ERP / R/3
  - R/3 4.6 C
  - R/3 4.7 110
  - R/3 4.7 200
- SAP NetWeaver MDM 5.5 SP3

**Subsidiary/Branch**
- SAP Business One
  - 2004 A/B/C (Win)
  - 2004.2 B (Win)
  - 2005 A/B (Win)
  - ...

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# Value Proposition of B1 Integration Technology

<table>
<thead>
<tr>
<th>Value Proposition</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>High Productivity</strong></td>
<td>► Easy data and content sharing between SAP systems</td>
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<td>► Homogeneous, harmonized, and standardized processes</td>
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<td>► Close SAP NetWeaver alignment</td>
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<td><strong>Fast Implementation</strong></td>
<td>► Preconfigured Business Integration Units</td>
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<td>► Preconfigured Integration Pattern</td>
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<td>► Preconfigured support for SAP technologies like SAP XI</td>
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<td>► Rapid development of custom integration content</td>
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<td><strong>Low TCO</strong></td>
<td>► Reduced risk of human error and higher data accuracy</td>
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<td>► Lightweight architecture and platform independency</td>
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<td></td>
<td>► Low skill set for implementation and maintenance</td>
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<td>► Faster alignment between business and IT capabilities</td>
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The Underlying Technology

Integration Foundation

- Technical Integration Model – Modeling Entities
  - Integration Application, IPO-Models, BizFlows, Atoms

Integration Tool

- Technical Adapter

Integration Content

- Semantical Integration Models (SIM)
- Business Integration Units (BIU)
- Semantical Adapter

Model-Driven Integration (MDI) Repository & Directory

Integration Pattern Library
- Internal Pattern, External Pattern

SAP Visual Composer

Model-Driven Integration (MDI) Repository & Directory

Integration Pattern Library
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SAP Visual Composer

Integration Tool
Major Integration Task

- **Built & Run**
  - Develop your own Integration Content guided through by the Semantical Integration Model

- **Config & Run**
  - Help yourself by configure ready-to-run Integration Content

**Business Integration Units**

**Semantical Integration Model**
- Semantic Adapter
- Pattern Library
- Repository Directory

**Technical Integration Model**
- Technical Adapter (DI-API, RFC)
- B1i Technology (XCellerator, BizProcessor)

**Integration Content**

**Integration Foundation**

**B1i Application (IPO Steps)**
- Business Integration Layer
- Semantical Integration Layer
- Technical Integration Layer
Integration Content Development

Simple – Pre-configured

Framework

Integration Library

Micro Scenarios

Admin

Operation

Generic

Ex.Operation

Tailored Content

Configuration Support

Support

Integration Pattern

Design Support

Technical Pattern

Service

Content Development

Full-fledged – Flexible

Partner

SAP
Business Integration Unit (BIU)

- Is the smallest granular unit dealing with business logic
- Used to build business scenarios
- Covers the complete logic between two concrete systems
- Runs between two application systems in one direction
- Enables a phased implementation approach
Semantical Integration Model (SIM)

- A SIM covers all functionality that all BIUs have in common
- Controls in a generic way the process flow between B1 and R/3
  - How B1 is interacting with R/3 – all the particular things
  - For example:
    - Retrieve data
    - Enrich the data
    - Check out the rules
    - Handover the data
Graphical Integration Application Design with the SAP NetWeaver Visual Composer
Technical Options of the Integration with B1IntNW

Integration over SAP NetWeaver Process Integration (XI)
- All integration logic resides in a central PI (XI)
- Every SAP Business One company is controlled over PI (XI)
- SAP Business One Integration as message hub
- Individual processes between HQs and every single subsidiary (option)

Integration over SAP Business One Integration
- SAP NetWeaver Process Integration (XI) is optional (and can serve as message hub/service)
- The integration of subsidiaries can be grouped and separated to create an additional layer of abstraction
### SAP Business One Integration Technology

The SAP Business One Integration Technology is a generic framework for *semantical* system integration:

- **Pure JAVA-based**
- **XML/XSLT-centric**
- **Highly declarative and pattern-based (instead of programmatic)**
- **Does not focus on *technical* integration (only to the reasonable minimum)**

#### Prerequisites

- **Java Web-Container (Servlet Environment)**
- **J2SE 1.4.x**
- **State-of-the-art XML/XSLT Processor**
- **RDBMS**
- **For SAP Business One connectivity: DI API**

- **Runtime Environment, browser-based user interface for administration**
- **Preconfigured content (various pattern of different kinds)**
- **Designtime Tools, e.g. SAP NetWeaver Visual Composer**
AGENDA

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Integration Scenario 1 – Master data distri.

Distribution of Material master / Customer master

mySAP ERP

- Initial Download
- Delta Download

►► SAP Business One

SAP B1
Integration Scenario 2 – Intercompany Sales

Intercompany sales from central stock

mySAP ERP  ◄►  SAP Business One

- Sales order
- Purchase order
- Confirmation
- Delivery
- Drafts goods receipt document
- Invoice accounts receivable
- Invoice accounts payable

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B1 Integration Technology Landing Page on PartnerEdge

http://service.sap.com/smb/sbo -> Solution Overview -> Integration
Compatibilities

SAP BUSINESS ONE INTEGRATION FOR SAP NETWEAVER

SAP Business One integration for SAP NetWeaver is the next generation solution for enabling SAP Business One to rapidly and easily integrate with components of the mySAP Business Suite and SAP NetWeaver. It is based on the SAP Business One Integration Technology, a state-of-the-art integration technology that complements the SAP Business One API offering (SDK) and solves message-based integration issues around SAP Business One.

Positioning:

Seamless integration with mySAP solutions is a key part of the vision for SAP Business One, and alignment with the SAP NetWeaver strategy is essential in achieving this goal. SAP Business One is designed as a simple yet powerful solution, and we strive to provide maximum flexibility to our partners and customers so that they can minimize the cost, duration and training necessary for successful integration projects between SAP Business One and the mySAP Business Suite. Our integration approach will cover typical SMD-related integration requirements for connecting SAP Business One components of the mySAP Business Suite. Compared to other vendors, SAP will not only provide state-of-the-art integration technology but also an innovative approach of delivering declarative integration content for rapid usage.

Key benefits:

A key benefit of SAP Business One is its ability to interface seamlessly and rapidly with a mySAP environment. This integration will benefit from ongoing development of SAP Business One, SAP NetWeaver, SAP Master Data Management, SAP Business Intelligence and other mySAP Business Suite components or SAP NetWeaver applications. It will also benefit from SAP's ability to pre-configure integration content for out-of-the-box usage, so that implementation costs and TCO will be reduced dramatically.

Availability:

SAP Business One integration for SAP NetWeaver is unrestricted shipment. Please check the Q&A document for further information including pricing, content, and ordering process.

Here you can find all product and solution related information at a glance.

Supporting Materials
- Preview Version - Download available
  January, 2007
- Q&A for SAP Business One integration for SAP NetWeaver
  New
- Whitepaper on SAP Business One and SAP NetWeaver
  2005 Integration for SAP NetWeaver
- Solution Map for SAP Business One Integration for SAP NetWeaver
  2005
- Developers Community on SBN
- Easily & affordably integrate your entire business ecosystem
- Demo on Subsidiary Integration

Related Information
- Sarbanes Oxyey compliance with SAP Business One
- Central deployment of SAP Business One over a Terminal Server architecture (e.g. Citrix)
- Use the globalization Knowledge Base to learn about country specific issues of SAP Business One.
http://www.sdn.sap.com
https://www.sdn.sap.com/irj/sdn/developerareas/businessone
Demo in Our Online Demo & Evaluation Environment!

- [http://service.sap.com/smb/sbo](http://service.sap.com/smb/sbo) -> Solution Overview -> Demo & Evaluation Center
- This environment is “in front of” the SAP intranet, therefore accessible from every PC/laptop that has an internet connection
- The intended use is for internals and for partners to do product demos or evaluations together with a customer
For Interested Partners

**General**
- Partner has sales opportunities where
  - The integration of B1 and SAP enterprise application, e.g. mySAP ERP, is a requirement (this case refers to SAP Business One integration for SAP NetWeaver® (B1ISN))
  - The integration of other distributed applications or services is a requirement (this case refers to the plain SAP Business One integration platform® (B1IP))

**Sales Role**
- Understand the issue of integration and integration projects, esp. the difference between semantics and technology
- Articulate the value of integration platforms vs. adapters and connectors
- Communicate the complements of different integration approaches for B1 (DI API, B1IP, B1ISN)
- Main source: [http://service.sap.com/smb/sbo/b1i](http://service.sap.com/smb/sbo/b1i)

**Consulting Role**
- Understanding of the process or process steps that shall be integrated, this includes knowledge about the application or services that shall be integrated with B1
- Install and configure B1IP/B1ISN
- Activation and configuration of preconfigured integration scenarios, incl. value mapping
- Discuss technical infrastructure issues (central vs. distributed deployment, security, …)
- Visit the level 1 B1IP/B1ISN training (TB1BIT)

**Development / Maintenance / Support Role**
- Install and configure the B1IP/B1ISN (TB1BIT)
- Implement different technical infrastructures (central vs. distributed deployment, security, …)
- Customizing of the offering of preconfigured integration scenarios (see SDN documentation on BIU development)
- (Build new integration content) (depending on SAP deliverables that are expected with B1 2006 A release -> B1IP Partner Enablement Package) (see SDN documentation on BIU development)
- XML/XSLT skills
- DI API knowledge
- Main source: [https://www.sdn.sap.com/irj/sdn/developerareas/businessone](https://www.sdn.sap.com/irj/sdn/developerareas/businessone)

*The SAP Business One integration platform is a generic model-driven and message-based integration platform. It's the foundation for SAP Business One integration for SAP NetWeaver, which offers a preconfigured solution for customers who want to integrate B1 (running in their subsidiaries) with e.g. mySAP ERP (running in the HQ).*
Thank You!

http://service.sap.com/smb/sbo