



**Welcome to your RKT Live Expert Session**

SAP Business One integration for SAP  
NetWeaver Release 2005 –  
Development of Integration Content

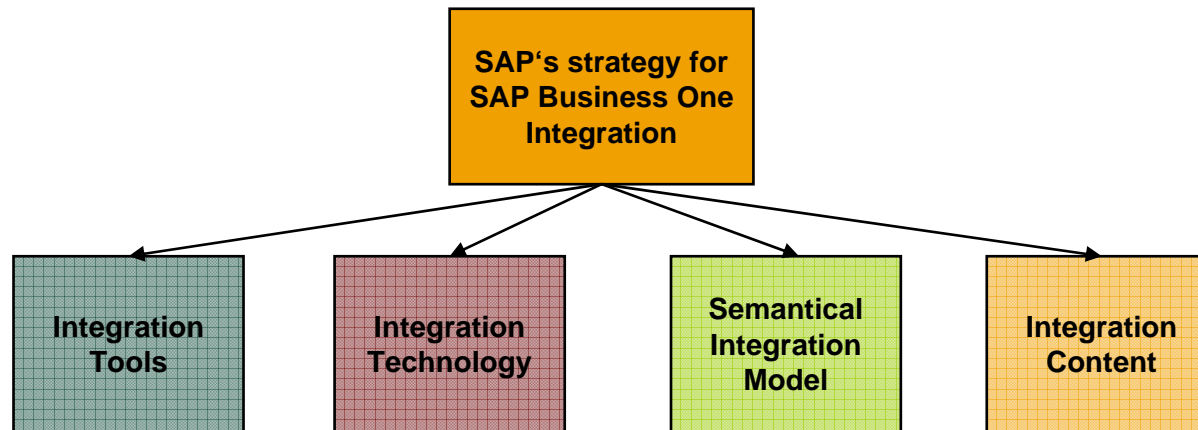
**Felipe Ortega**  
**Solution Architect**

**Please note that we are recording this session!**

- **Introduction**
  - ◆ **Modules in SAP Business One integration for SAP NetWeaver**
  - ◆ **Business Integration Units concept and properties**
  - ◆ **Files in BIUs**
- **Building up a B1 to B1 BIU**
  - ◆ **Meta/Virtual BIU**
  - ◆ **Main Bizflow**
  - ◆ **XSL File**
  - ◆ **Version File**
- **Deployment**
- **Demo**
- **Documentation, scripts.**



# Modules in SAP Business One Integration for SAP NW



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**B1 INTEGRATION CONTENT 2005**

## Updates for SAP Business One

[Updates for SAP Business One](#) → [SAP Business One 2005](#) → [SAP B1 2005 INTEGRATION FOR NW](#)

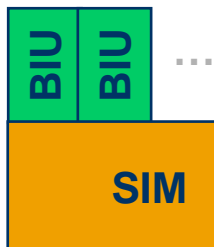
### SAP B1 2005 INTEGRATION FOR NW

- [B1 INTEGRATION CONTENT 2005](#)
- [B1 INTEGRATION SIM 2005](#)
- [B1 INTEGRATION TECHNOLOGY 2005](#)
- [B1 INTEGRATION TOOLS 2005](#)

# Rapid Application Integration with B1i

## SAP Business One integration Technology for SAP NetWeaver

Subsidiary  
Integration



1. Integration Content  
Business Integration Units (BIUs)
2. Semantical Integration Model (SIM)

B1i Technology

3. B1i Technology

- **BIU's, are designed for creating data mapping based on the different data structures**
- **They will map the schema from one kind of business object to another with out changing the current values of properties.**
- **A BIU is a preconfigured integration block that covers the smallest reasonable integration step.**
- **Basically, a Business Integration Unit (BIU) is used to convert one object to a different object.**

The main principles of a BIU are:

- It is the smallest granular unit dealing with business logic
- It is used to build business scenarios
- It covers the complete logic between two concrete systems
- It runs between two application systems in one direction

# BIU Files

In general they are formed by 4 main file types.

Name	Size	Type
BIUMETA.R3.46C_B1.2004.xml	1 KB	XML Document
BIUMETA.R3.46C_B1.2005.xml	1 KB	XML Document
BIUMETA.R3.47.100_B1.2004.xml	1 KB	XML Document
BIUMETA.R3.47.100_B1.2005.xml	1 KB	XML Document
BIUMETA.R3.47.200_B1.2004.xml	1 KB	XML Document
BIUMETA.R3.47.200_B1.2005.xml	1 KB	XML Document
Main.bfd	1 KB	BFD File
R3PROD2B1ITEM.xsl	19 KB	XSL Stylesheet
version.xml	1 KB	XML Document

1

2

3

4

## Creating our BIU (B1 to B1)

The files that the zip file will contain are:

- BIUMETA.B1.2005\_B1.2005.xml
- Main.bfd
- Version.xml
- B1PO2B1SO.xsl



# BIU Meta or Virtual BIU

## BIU Meta (BIUMETA.B1.2005\_B1.2005.xml)

The Virtual BIU links to the Main.bfd and includes the following information:

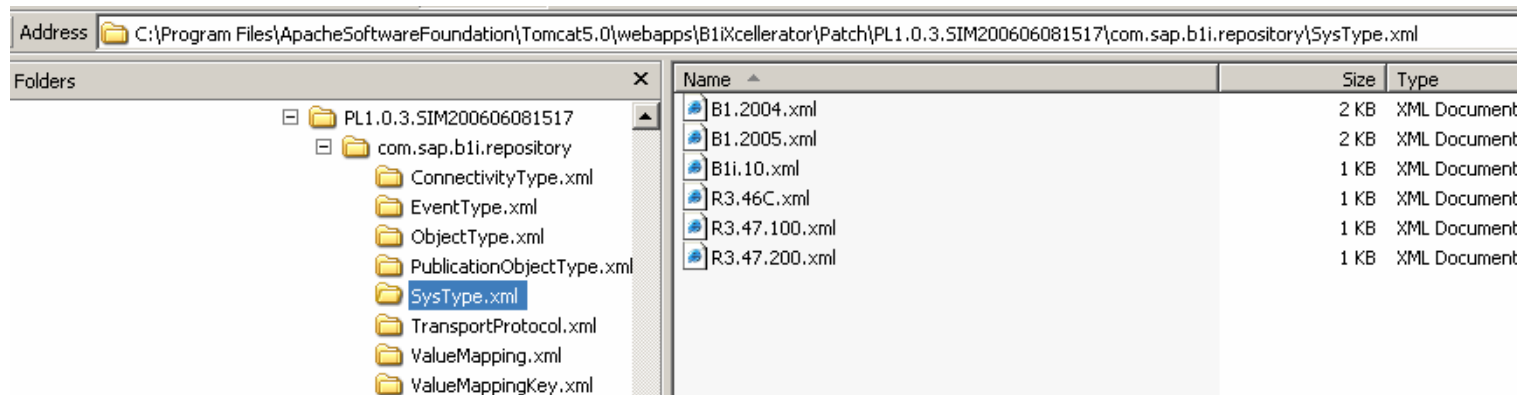
- Sender System Information
- Sender Object Type
- Receiver System information
- Receiver Object type

**One BIU folder may have several Virtual BIUs that cover different system combinations. In our case the Sender and the Receiver systems are SAP Business One 2005 systems therefore the name "BIUMETA.B1.2005\_B1.2005.xml".**

# BIU Meta or Virtual BIU (cont...)

## Sender and Receiver System types

These systems must exist as an xml document in the System Type folder located in the repository folder. Check path `..\Program Files\ApacheSoftwareFoundation\Tomcat5.0\webapps\B1iXcellerator\Patch\com.sap.b1i.repository\SysType.xml` otherwise it is not feasible to use them; however is possible to create your own System Types and then to use them in the BIU Metadata file.

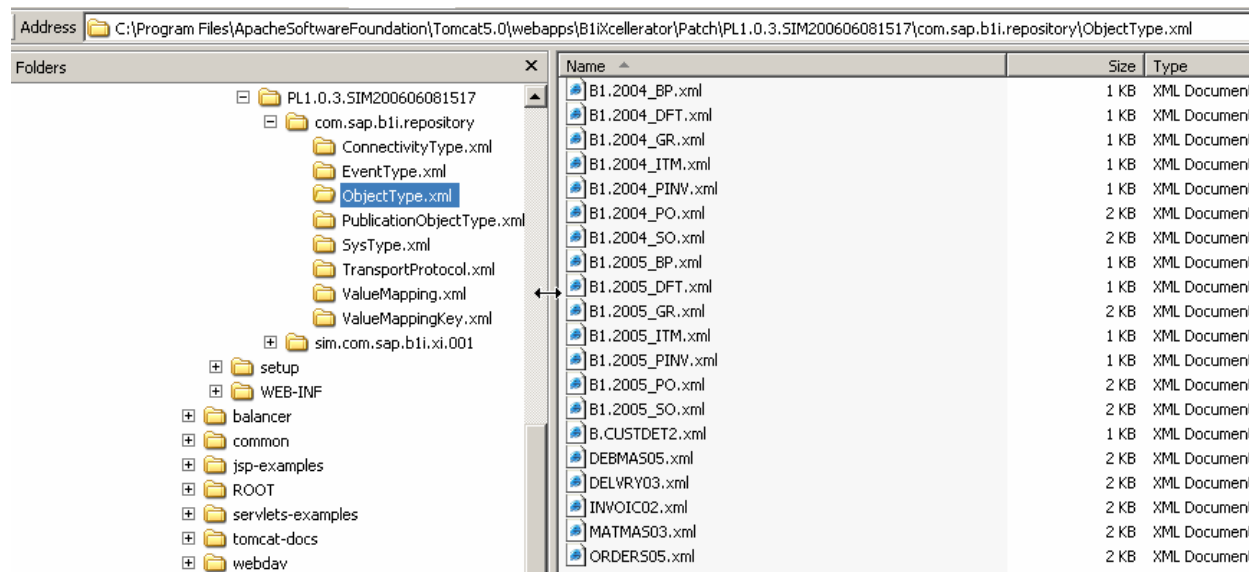


# BIU Meta or Virtual BIU (cont...)

## Sender and Receiver Objects

The xml files that declare these IDs have to exist in the repository folder as well. They are located in the ObjectType.xml folder. Check path ... \Program Files \ApacheSoftwareFoundation \Tomcat5.0 \webapps \B1iXcellerator \Patch \PL1.0.4.SIM200606081517 \com.sap.b1i.repository \ObjectType.xml – in this case we use the folder of the last patch applied PL4)

If it is desired to have a new object that is not listed in this folder, the appropriate xml file has to be created. For this purpose a copy of the existing files can be used and changed accordingly.



# Main Bizflow (Main.bfd)

This file will be invoked during runtime by the Bizprocessor and with it the correct BIU, Sender/Receiver systems and object types will be matched and then the transformation will be executed via the XSLT file.

Any modifications will influence all the virtual BIUs in this folder. Therefore, if you want to/do modify the .bfd file, please ensure that all other virtual BIUs also work properly after the modifications.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <bizflow xmlns="urn:com.sap.b1i.bizprocessor:bfdefinition" xmlns:b1im="urn:com.sap.b1i.sim:b1imessage"
  xmlns:sim="urn:com.sap.b1i.sim:entity" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:com.sap.b1i.bizprocessor:bfdefinition ../../com.sap.b1i.system/xsd/bizflow.xsd" active="true"
  name="MAIN1" schemaversion="1.0">
- <interface>
  <description>Use XSLT to convert from inbound object to outbound object</description>
  - <inbound>
    <propertylist />
  </inbound>
  - <outbound>
    <propertylist />
  </outbound>
</interface>
- <bizatoms>
  - <xform name="BIUConvert" nslst="xmlns:b1im='urn:com.sap.b1i.sim:b1imessage'xmlns:">
    <description>Invoke XSLT file to convert import object to result object</description>
    <inpath id="0" />
    <outpath id="1" />
    - <rule optional="false">
      <intended bfxp_href="#B1PO2B1SO.xsl" />
    </rule>
  </xform>
</bizatoms>
</bizflow>
```

# XSLT File (B1PO2B1SO.xsl)

**XSLT is used for concrete structure mapping. In our sample we will map an SAP Business One Purchase Order Object into an SAP Business One Sales Order Object.**

## **1. Variables Section.**

Stores in a variable the property "Customer Number" that exists in the control center. In this way you can always query the properties that were set for the subsidiary or of the headquarters. In our sample we need this value as it will be inserted in the "Card Code" property of the Documents Object for SAP Business One.

## **2. Payload.**

Contains the statements that define the payload that will be queried in order to retrieve information to determine the structure of the Target object.

## **3. Structure.**

Contains the xml definition of the Target object, in our case the Sales Order Document Object (id 17). As you can see we "navigate" through the payload structure and match it with the structure of the Target object. In branch "U\_Myfield", we can see that we also have the ability to have User Defined Fields and we can map these fields; in this case we are mapping the user defined field "U\_TB1BIT" from the sender system into "U\_Myfield" in the receiver system.

## Version Xml File

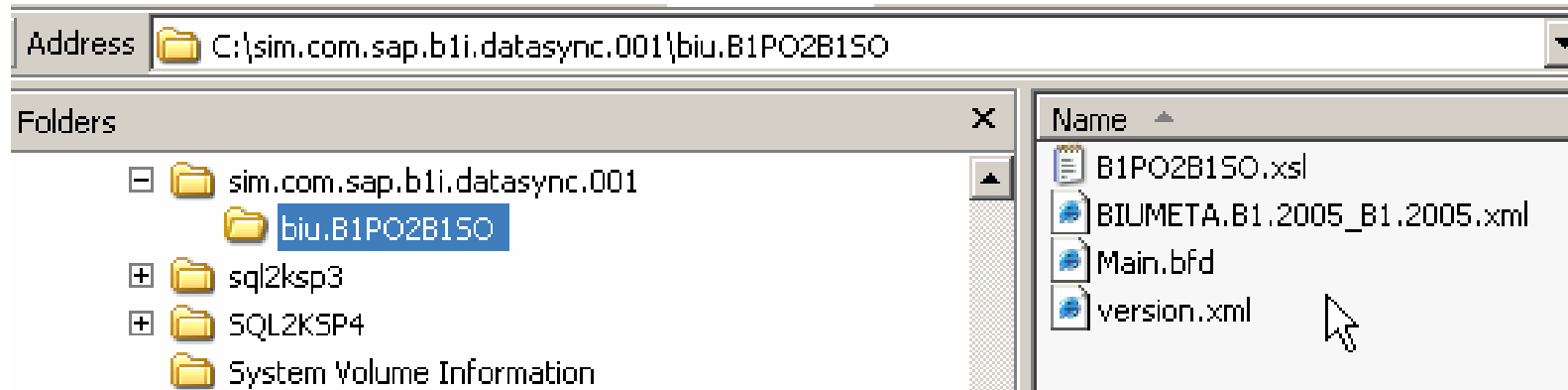
### Version.xml

This file contains a record of the version, service-pack and patch in which the BIU was created.

Script.

```
<?xml version="1.0" encoding="UTF-8"?>
<version>
  <main-version>1</main-version>
  <service-pack>0</service-pack>
  <patch>3</patch>
  <timestamp>20051011080006</timestamp>
</version>
```

**At this point all the files needed to create the BIU are ready, now it is necessary to give it a folder structure before it is zipped and then uploaded into the repository of B1i.**



## Important links

### **SAP B1i Forum**

**<https://www.sdn.sap.com/irj/sdn/forum?forumID=161>**

### **SAP Business One SDN Page**

**<https://www.sdn.sap.com/irj/sdn/developerareas/businessone>**



# B1i Education site

The screenshot displays the SAP Channel Partner Portal in Microsoft Internet Explorer. The browser's address bar shows the URL <https://websmp110.sap-ag.de/smb>. The page title is "SAP Channel Partner Portal - D035557 - 20060808 - Microsoft Internet Explorer".

The portal's navigation bar includes "Home", "Manage My Partnership", "mySAP All-in-One", "SAP Business One", "Partner Networking", "Education" (highlighted), "News & Events", "Support Services", and "Using the Portal". A search bar is located on the right side of the navigation bar.

The main content area is titled "Integration Consultants" and features the "SAP BUSINESS ONE INTEGRATION CONSULTANT Certification Curriculum". The text describes the curriculum as a series of e-learning courses designed to help users become effective SAP Business One Integration Consultants. It mentions that the curriculum is designed specifically for their education needs and includes live expert sessions to supplement standard e-learning. It also notes that in some countries, classroom training on the integration consultant role is available.

A flowchart illustrates the training path:

- Product training (22 hr)
- Integration overview (1 hr)
- Installation & configuration (4 hr)
- Technical (6 hr)
- Integration consultant certification test

The right sidebar contains several sections:

- E-learning**
  - Certification Curriculum 2005
  - Certification Curriculum 2004
  - Training Databases
  - Classroom Training
  - Delta Training
- Live Expert Sessions**
  - Current Live Expert Sessions
  - Archived Live Exp. S. 2005
  - Archived Live Exp. S. 2004
- Contacts**
  - Contact the Expert
- Related Topics**
  - Solution Overview

The bottom of the page shows a "Trusted sites" notification.

# Q&A

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