

Appendix 1: XMLSpy Project set up for integration scenario development in B1iSN



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Aug 2009

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XMLSpy Project Set up



Note: You are free to choose any XML Editor for editing BizPackage and BIU documents. In the following section, we'll use XML Spy as XML Editor.

Create Project File (Note: Please refer to screen shorts step by step in next page)

- Project -> New Project
- Delete all folder (XML Files, XSL Files, ...)
- Project -> Save Project (Desktop B12B1)

Add BizPackage Document to the project

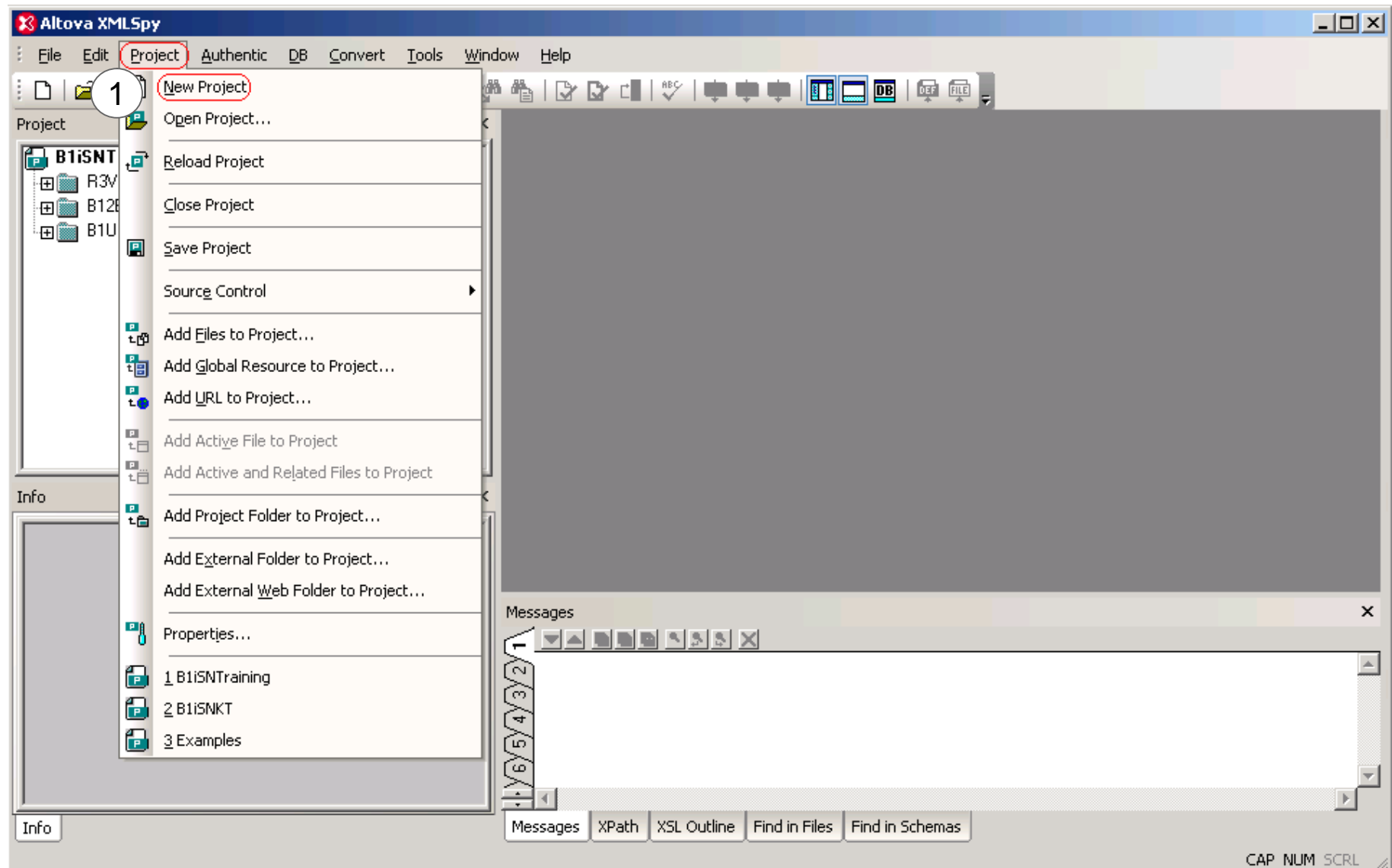
- Position on Project root, right mouse click -> add URL
- Server URL: <http://localhost:8080/B1iXcellerator/exec/dummy>
- Browse
- Select [/sim.com.sap.b1i.datasync.001/bp.Z.XXX.B12B1_IC_PUR/BizPackageMETA.xml](#)
- Double-click to add the document to the project

Add BIU Documents to the project

- Create Folder for BIU (position on Project root, right mouse click -> add project Folder B1IN2B1OUT)
- Add the 4 BIU documents (Position on BIU folder, right mouse-click -> add URL)
 - [/sim.com.sap.b1i.datasync.001/biu.Z.WS_B1IN2B1OUT/BIUMETA.B1.2007_B1.2007.xml](#)
 - [/sim.com.sap.b1i.datasync.001/biu.Z.WS_B1IN2B1OUT/version.xml](#)
 - [/sim.com.sap.b1i.datasync.001/biu.Z.WS_B1IN2B1OUT/Main.bfd](#)
 - [/sim.com.sap.b1i.datasync.001/biu.Z.WS_B1IN2B1OUT/biu.Z.WS_B1IN2B1OUT.xsl](#)

Save Project

Setup XMLSpy Project - Screen Shots(1): Create a new project



Setup XMLSpy Project - Screen Shots(2): Delete all default files



The screenshot shows the Altova XMLSpy v2009 interface. The 'New Project' dialog box is open, displaying a list of file types and their associated actions. A red circle with the number '1' highlights the 'XML Files' entry. Another red circle with the number '2' highlights the 'Delete' option in the 'Actions' column. The 'Messages' pane at the bottom is empty, and the status bar at the bottom right shows 'CAP NUM SCRL'.

File Type	Action	Shortcut
XML Files	Check well-formedness	F7
XSL Files	Validate XML	F8
XQuery Files	XSL Transformation	F10
HTML Files	XSL:FO Transformation	Ctrl+F10
DTD/Schema Files	Generate DTD/Schema...	
Entities	Send by Mail...	
	Check Out...	
	Check In...	
	Undo Check Out...	
	Cut	Ctrl+X
	Copy	Ctrl+C
	Paste	Ctrl+V
	Delete	Delete
	Select All	Ctrl+A
	Add Files...	
	Add Global Resource...	
	Add URL...	
	Add Active File	
	Add Active and Related Files	

Setup XMLSpy Project - Screen Shots(3): Add a Project Folder for B12B1_IC_PUR



The screenshot displays the Altova XMLSpy v2009 interface. On the left, the 'Project' pane shows a 'New Project' folder. The 'Info' pane is open, and the 'Add Project Folder...' option is highlighted with a red circle and labeled with a '1'. The 'Properties' dialog box is open in the foreground, with the 'Name' field containing 'B12B1_IC_PUR' and the 'OK' button highlighted with a red circle and labeled with a '2'. The dialog box includes fields for 'File extensions', 'Validation', 'XSL transformation of XML files', 'XSL:FO transformation of XML files', 'XSL transformation of XSL files', 'Destination files of XSL transformation', and 'Authentic view'.

Setup XMLSpy Project - Screen Shots(4): Add URL for BizPackageMETA.xml



Altova XMLSpy

File Edit Project Authentic DB Convert Tools Window Help

Project: **New Project ***
B12B1_IC_PUR

1

2

Add URL to project

File URL: `http://sim.com.sap.b1i.datasync.001/bp.Z.XXX.B12B1_IC_PUR/BizPackageMETA.xml`

Note: Please replace “/” with “/” above

Open as:
 Auto XML DTD

Identification
User: `B1iadmin` Password: `.....` save

Available files
Server URL: `http://localhost:8080/B1iXcellerator/exec/dummy/`

Browse:
1.sim.com.sap.b1i.datasync.001
2.bp.Z.XXX.B12B1_IC-PUR
3.BizPackageMETA.xml

- bp.IPLocalStock
- bp.MDBusinessPartner
- bp.MDProductItem
- bp.MRSales
- bp.R3RRMasterData
- bp.Z.KT_B12B1
- bp.Z.WS_B12B1
- bp.Z.WS_B1UD2B1UD
- bp.Z.WS_R3VEN2B1SUP
- bp.Z.XXX.B12B1_IC_PUR**
- BizPackageMETA.xml**
- Version

3

4

Messages

XMLSpy v2009 Regis

ova GmbH

CAP NUM SCRL

Setup XMLSpy Project - Screen Shots(5): Save BizPackageMETA.xml in pretty-print format



The screenshot displays the Altova XMLSpy v2009 interface. The main window shows an XML document being edited. The XML content is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<BizPackage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="
urn:com.sap.b1i.sim.entity" xsi:schemaLocation="urn:com.sap.b1i.sim.entity
../com.sap.b1i.datasync.repository/General.xsd/SubsidiaryIntegration.xsd" BizArea="
Sales and Distribution" isMulti-Receiver="no" Name="Z.XXX.B12B1_IC_PUR"
isMulti-Sender="no" ProcessType="D" Id="Z.XXX.B12B1_IC_PUR_D_0" Classification
="P" isBiDirect="no">
  <SysTypeLists>
    <SysTypeList Direction="S">
      <SysType Id="B1.2007"/>
    </SysTypeList>
    <SysTypeList Direction="R">
      <SysType Id="B1.2007"/>
    </SysTypeList>
  </SysTypeLists>
  <UIStepList>
    <UIStep isLastStep="no" Number="1" isMandatory="yes"/>
    <UIStep isLastStep="no" Number="2" isMandatory="yes"/>
  </UIStepList>
</BizPackage>
```

Annotations on the screenshot:

- 1 Double click**: Points to the project file `http://localhost:8080/B1iXcellerator/exec/dummy/sim.c` in the Project pane.
- 2 Click "Pretty -print" button**: Points to the Pretty-Print icon in the toolbar.
- 3 Click Save**: Points to the Save icon in the toolbar.

The Messages pane at the bottom shows a successful message: `File http://localhost:8080/B1iXcellerator/exec/dummy/sim.com.sap.b1i.datasync.001/bp.Z.XXX.B12B1_IC_PUR/Biz`.

Altova XMLSpy v2009 Registered to B1i (SAP Labs China) ©1998-2009 Altova GmbH Ln 1, Col 1 CAP NUM SCRL

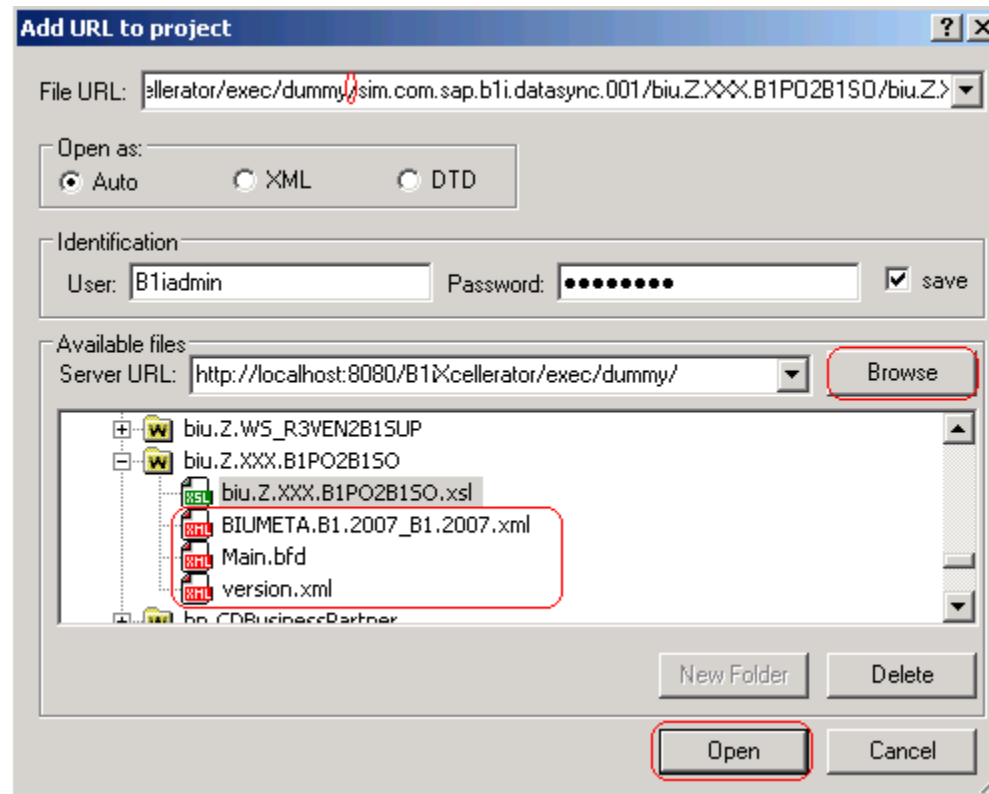
Setup XMLSpy Project - Screen Shots(6): Add Project Folder for BIU B1P02B1SO



The screenshot displays the Altova XMLSpy interface with the following elements:

- Project Panel:** Shows a 'New Project' folder containing a sub-folder 'B12B1_IC_PL...'. A red circle '1' and the text 'right click' point to the 'B12B1_IC_PL...' folder.
- Context Menu:** A right-click menu is open over the folder, listing various actions. A red circle '2' and the text 'Add Project Folder...' point to the bottom-most option in the menu.
- Properties Dialog:** A 'Properties' dialog box is open, showing the 'Name' field set to 'B1P02B1SO'. A red circle '3' and the text 'OK' point to the 'OK' button.
- Toolbar:** The main toolbar includes icons for File, Edit, Project, Authentic, DB, Convert, Tools, Window, and Help.
- Status Bar:** The bottom status bar shows 'XMLSpy v2009', 'Registered', and 'CAP NUM SCRL'.

Setup XMLSpy Project - Screen Shots(8): Repeat step 7 to Add URL for the other BIU documents



Setup XMLSpy Project - Screen Shots(9): Save Project



The screenshot displays the Altova XMLSpy application interface. The main menu bar includes 'File', 'Edit', 'Project', 'XML', 'DTD/Schema', 'Schema design', 'XSL/XQuery', 'Authentic', 'DB', 'Convert', 'View', 'Browser', 'XBRL', 'Tools', 'Window', and 'Help'. The 'Project' menu is open, showing options such as 'New Project', 'Open Project...', 'Reload Project', 'Close Project', 'Save Project' (highlighted with a red circle and the number '1'), 'Source Control', and various 'Add' options for files, folders, and web resources. The 'Save Project' option is circled in red.

A 'Save As' dialog box is open, showing the 'Save in' location as 'Examples'. The file list includes folders like 'ExampleSite', 'Import', 'IndustryStandards', 'MapForce', 'Tutorial', 'XBRL Examples', 'XMLSpyClient', 'XMLSpyPlugIn', 'XMLSpyPlugInActiveX', 'XQuery', and 'XSLT2', along with files like 'B1iSNKT.spp', 'B1iSNTraining.spp', 'Examples.spp', 'kt.spp', and 'test.spp'. The 'File name' field contains 'B12B1' (circled with a red circle and the number '2') and the 'Save as type' is set to 'XMLSpy Project *.spp'. The 'Save' button is highlighted with a red box.

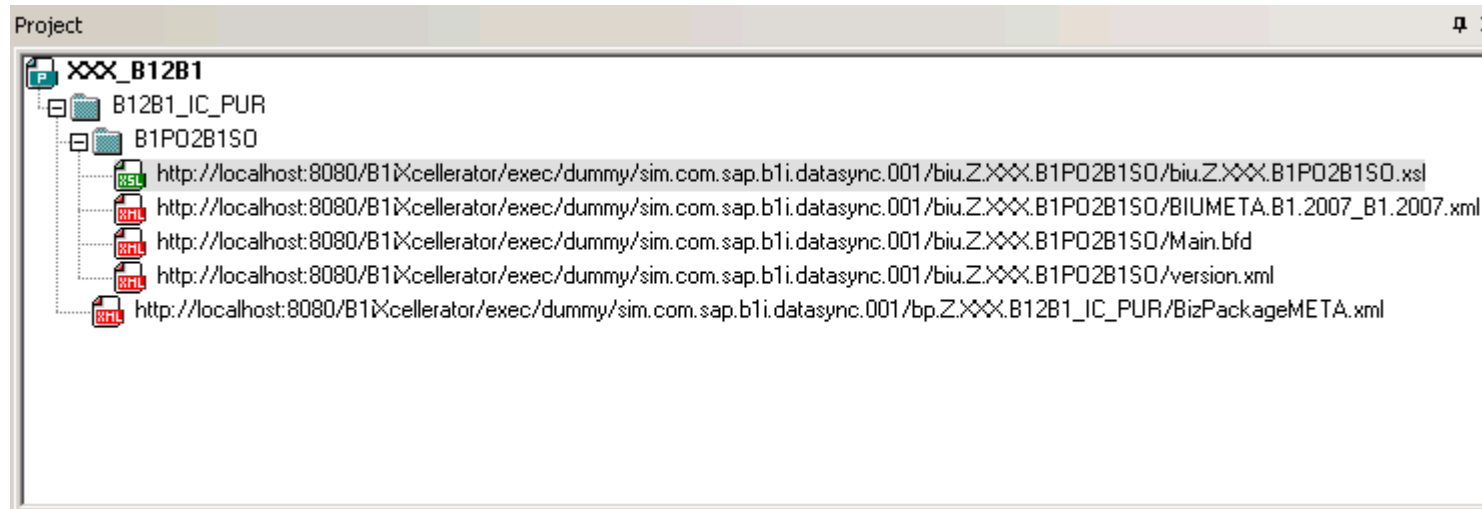
The status bar at the bottom indicates 'Ln 1, Col 1' and 'CAP NUM SCRL'.

XMLSpy Project



Result:

- XML Spy Project with BizPackage/BIU documents available
- We can design the BizPackage/BIU



Check the BizPackage/BIU Documents



- Open the BizPackage Definition Document
/sim.com.sap.b1i.datasync.001/bp.Z.XXX_B12B1_IC_PUR/BizPackageMETA.xml
 - Pretty-print
 - All default values are okay
- Open the following BIU documents
 - /sim.com.sap.b1i.datasync.001/biu.Z.XXX.B1PO2B1SO/BIUMETA.B1.2007_B1.2007.xml
 - Pretty-print
 - We will add key expansion later
 - </sim.com.sap.b1i.datasync.001/biu.Z.XXX.B1PO2B1SO/biu.Z.XXX.B1PO2B1SO.xsl>
 - Pretty-print
 - We will implement the transformation later
- **Don't** touch the following BIU documents
 - </sim.com.sap.b1i.datasync.001/biu.Z.XXX.B1PO2B1SO/version.xml>
 - </sim.com.sap.b1i.datasync.001/biu.Z.XXX.B1PO2B1SO/Main.bfd>

Tips: XPath Evaluation Used to test XPath during develop XSLT



1 Copy the message here

```
<?xml version="1.0" encoding="utf-8"?>
<b1im:B1Message xmlns:b1im="urn:com.sap.b1i.sim:b1imessage" MessageId="090812184526812015067F00000191A1"
BeginTimeStamp="20090812184526" LogOn="true" Validity="true" SubMessageId="1">
  <b1im:Header>
    <b1im:Sender>
    <b1im:Receiver>
    <b1im:System Task="I" GlobalKey="090812181101812017747F000001F7D8">
      <BIU xmlns="urn:com.sap.b1i.sim:entity" xmlns:ns0="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" ns0:schemaLocation="urn:com.sap.b1i.sim:entity
../com.sap.b1i.system.sld.repository/General.xsd/SemanticIntegrationModel.xsd" SenderSysTypeId="B1.2007"
ReceiverSysTypeId="B1.2007" SenderCountryCode="" ReceiverCountryCode="" SenderMainObjectTypeId="
Z.B1.2007_MyPO" ReceiverMainObjectTypeId="B1.2007_SO" MainBizflow="Main.bfd" Name="Z.XXX.B1P02B1S0">
        <sim:PropertyList xmlns:sim="urn:com.sap.b1i.sim:entity">
          <sim:Property Key="TargetDocType" Value="SalesOrder" Description="">
          <sim:Property Key="BillTo" Value="Customer" Description="">
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Country" Value="" Description="B1_SI_STD_100001"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Company Language" Value="" Description="
B1_SI_STD_100002"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Foreign Language" Value="" Description="
B1_SI_STD_100003"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Company Code" Value="" Description="B1_SI_STD_100004"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Credit Control Area" Value="" Description="
B1_SI_STD_100005"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Sales Organization" Value="" Description="
B1_SI_STD_100006"/>
          <Property xmlns="urn:com.sap.b1i.sim:entity" Key="Distribution Channel" Value="" Description="
```

2 Evaluate XPath...

3 Test the XPath with given inbound message

```
1 /b1im:B1Message/b1im:Header/b1im:System*[local-name()='PropertyList']/*[local-name()='Property' and @Key='TargetDocType']/@Value
```

4 Result

Value SalesOrder

The End



Questions