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ABAP Proxy communication (Server Proxy)

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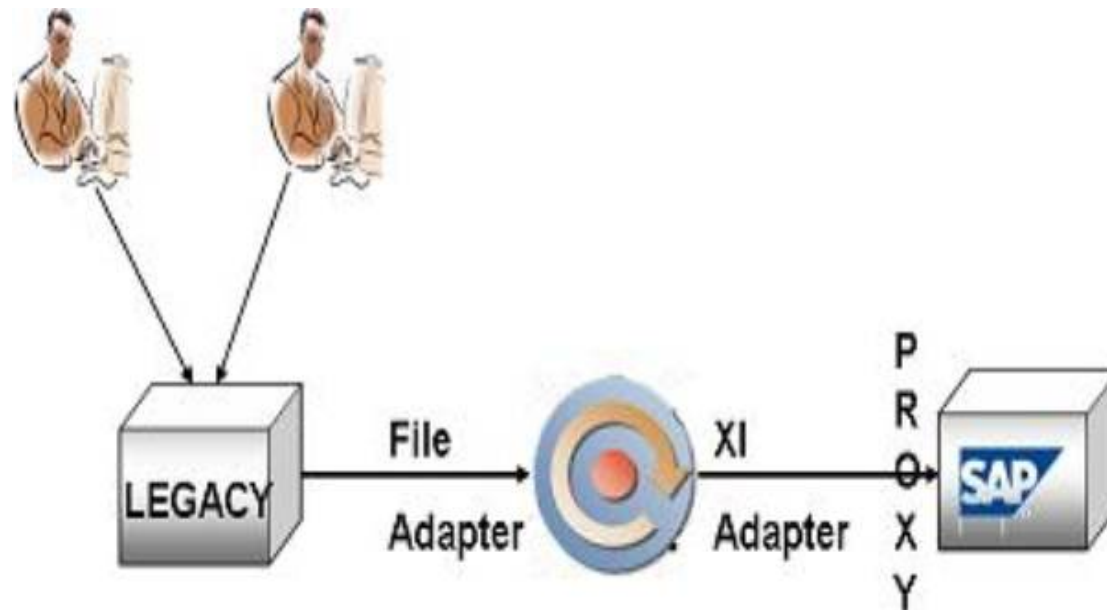
[Demo Scenario](#)

What's New?

- ❑ ABAP Test Cockpit **HOT**
- ❑ SAP ABAP Pragmas
- ❑ Understanding SE32 (ABAP Text Element Maintenance)
- ❑ Creating an IDoc File on SAP Application Server
- ❑ Understanding "Advance with dialog" option of SAP Workflow
- ❑ SAP Workflow Scenario: Maintenance Notification

This document describes Time bound file processing scenario where in, a file containing the employee personal details is picked from a FTP server system (Sender/Source) and sent to SAP System (Receiver/Target) via Exchange Infrastructure. Server ABAP proxy is configured to post the data to an application on target SAP System which will save the records into database.

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- ❑ Differences between polymorphism in JAVA and ABAP
- ❑ Passing multiline parameters from an ABAP Class event to a Workflow container
- ❑ Concept of Re-evaluate agents for active work items in SAP Workflow
- ❑ Dynamic creation of component usage in ABAP WebDynpro
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- ❑ Add fields in FBL5N using BADIs
- ❑ Tutorial on Wide casting
- ❑ Defining a Range in Module Pool Program
- ❑ Copy fields from one structure/table into another structure/table
- ❑ Side Panel Usage in NWBC



Structure	Category	Type	Occurrence	Details
EMPLOYEE	Element	EMPLOYEE...		
EMPLOYEE	Element		1	
EMPL	Element		1..unbounded	
SS	Element	xsd:string	1	
LN	Element	xsd:string	1	
FN	Element	xsd:string	1	
AG	Element	xsd:integer	1	

Contribute?

Sample Specs

What's Hot?

In this example a small difference is maintained between the source message structure and target structure to show the need of mapping. Find below the mapping where in Full name is constructed after concatenating the Last name and First name.

Web Dynpro for ABAP Tutorials

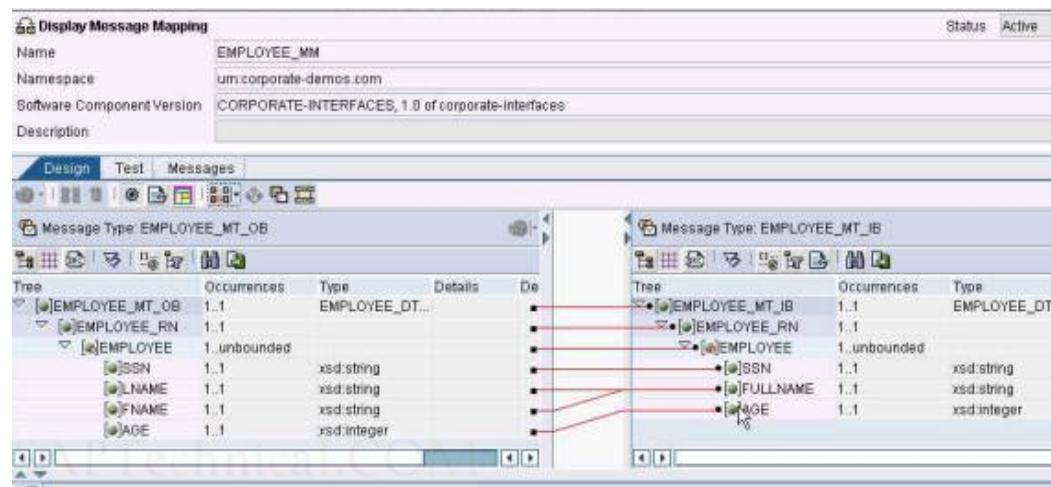
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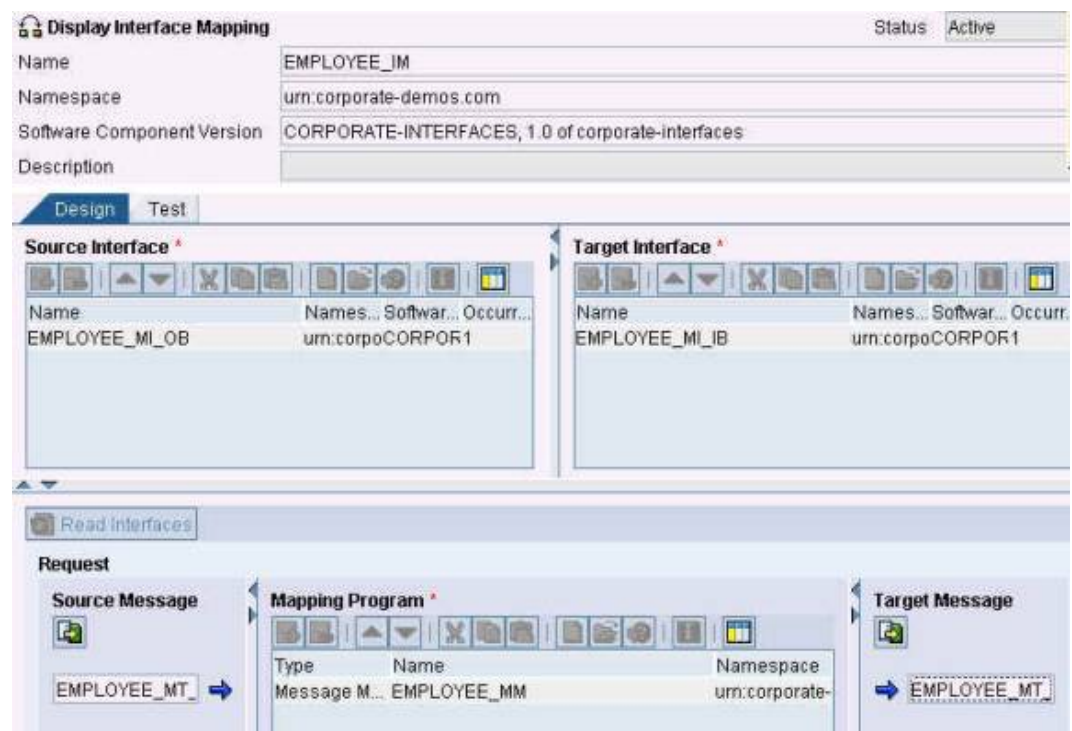
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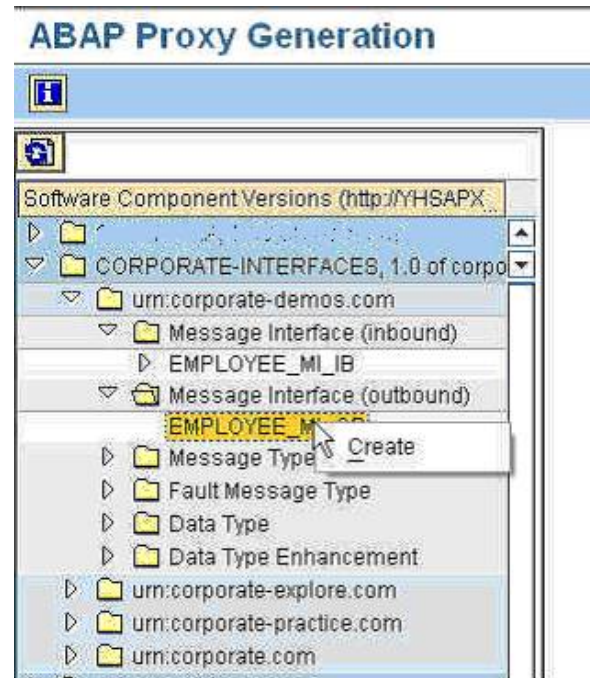


Finally we require a message interface, which will encapsulate the message mapping between source structure and target structure.



Before completing the configuration in Integration Directory, let us create a ABAP proxy object in Target SAP system.

Go to Transaction: SPROXY where in you get to see all the objects designed in Integration Repository. As Proxies implement message interfaces in Integration Repository, navigate to the required inbound message interface, as we are creating a Server proxy. Right click to create the Proxy as shown in the below screenshot.



You can observe a Proxy-interface getting created in Target system with 'Properties', 'Generation', 'Structure' and 'Type Mappings'.

Display Proxy ZII_EMPLOYEE_MI_IB

Message Interface (Inbound): EMPLOYEE_MI_IB Active

Properties Generation Structure Type Mappings

Identification

Type	Message Interface
Name	EMPLOYEE_MI_IB
Namespace	urn:corporate-demos.com
Short Text	
Direction	Inbound
Mode	Asynchronous

Proxy-Interface

ABAP Name	ZII_EMPLOYEE_MI_IB
Short Text	Proxy Interface (generated)

Implementing Class (created if does not already exist)

ABAP Name	ZCL_EMPLOYEE_MI_IB
Short Text	Proxy Class (generated)

General Data

You observe that Structures resembling inbound data types, message types get created in the system. As the target structure can get multiple records of Employee personal details in this scenario, observe that a Table type of ZEMPLOYEE_IB_EMPLOYEE_TAB getting created. This can be transferred to required application in SAP for successful processing of the records, ultimately saving them into database.

Display Proxy ZII_EMPLOYEE_MI_IB

Message Interface (Inbound): EMPLOYEE_MI_IB Active

Properties Generation Structure Type Mappings

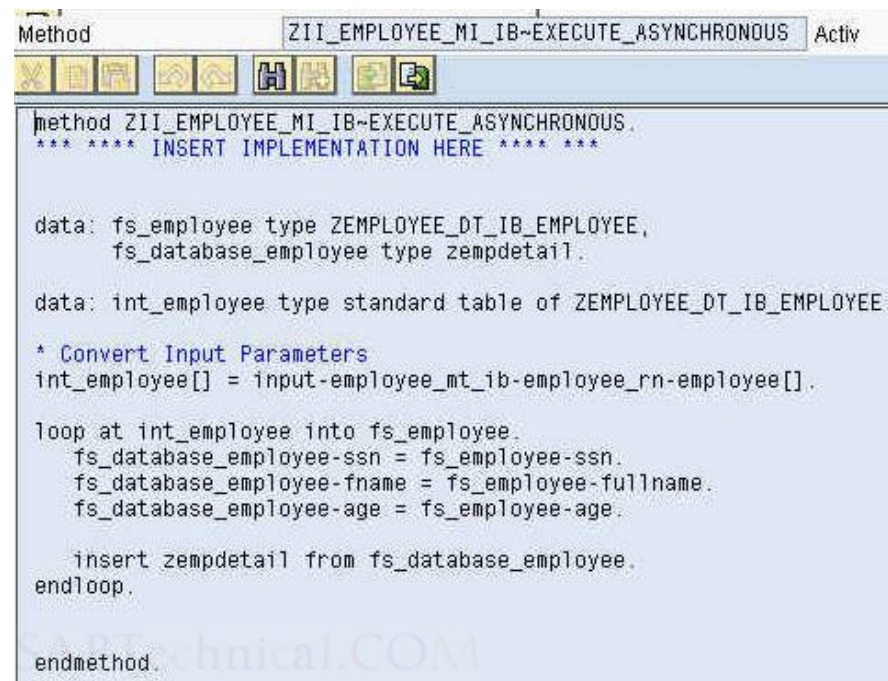
List of All Generated Proxy Objects

Type	ABAP Name	Short Text
Interface	ZII_EMPLOYEE_MI_IB	Proxy Interface (generated)
Structure	ZEMPLOYEE_DT_IB	Proxy Structure (generated)
Structure	ZEMPLOYEE_DT_IB_EMPLOYEE	Proxy Structure (generated)
Structure	ZEMPLOYEE_DT_IB_EMPLOYEE_RN	Proxy Structure (generated)
Structure	ZEMPLOYEE_MT_IB	Proxy Structure (generated)
Table Type	ZEMPLOYEE_DT_IB_EMPLOYEE_TAB	Proxy Table Type (generated)

You can observe the compatible equivalent elements of inbound data type created.



Finally you need to implement the Proxy. For this double click 'Implementing Class' on 'Properties' tab to lead you to method 'EXECUTE_ASYNCHRONOUS'. This is default method that gets created with Implementing Class where in you need to code as per the business logic. Find below the screenshot of the sample code that reads the data from Employee internal table and inserts the data into database.



Now it is the time for configuration. Logon to XI integration directory to start creating the collaborative profiles and agreements to route the message from source system and then placing a proxy call to server proxy to post the data to target SAP System.

Continued...



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