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ABAP Proxy communication (Server Proxy)

...Previous

First we need a Sender Communication channel, which will be able to pick up the file from source FTP server. Find below the attributes of the communication channel, which is of type 'File'.

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Display Communication Channel

Communication Channel: Sender_CC_FILE_EMPLOYEE

Party:

Service: FTPServer_YASH

Description:

Parameters | Identifiers | Module

Adapter Type *: File http://sap.com/xi/XI/System SAP BASIS 6.40

☒ Sender ☐ Receiver

Transport Protocol *: File Transfer Protocol (FTP)

Message Protocol *: File Content Conversion

Adapter Engine *: Integration Server

File Access Parameters

Source Directory *: /YashTest/XI_Sender/

File Name *: xi_filecontent.txt

☐ Advanced Selection for Source File

FTP Connection Parameters

Server *: 10.6.16.233

Port *: 21

Timeout (secs):

Connection Security *: None

☐ Anonymous Login

User Name: yashind

Then create a receiver communication channel to place a proxy call. Though we use XI Adapter for placing the proxy call, we will call this communication as 'Adapter less' communication. The reason is, usually an adapter is used to specify transport protocol where in this is used to define the mode of communication and message protocol where in this is used to convert the message format from XML to native format and other wise.

As XI adapter is defined with HTTP as transport protocol and XI as message protocol, both are default protocols of XI environment, hence we say it is adapter less communication.

Display Communication Channel

Communication Channel	Receiver_CC_XI_Employee		
Party			
Service	R3S		
Description			

Parameters Identifiers Module

Adapter Type *	XI	http://sap.com/xi/XI/System	SAP BASIS 6.40
Sender	Receiver		
Transport Protocol *	HTTP 1.0		
Message Protocol *	XI 3.0		
Adapter Engine *	Integration Server		

Addressing Type *	URL Address
Target Host *	10.6.100.55
Service Number *	8002
Path *	/sap/xi/engine?type=entry


Authentication Data

Authentication Type *	Use Logon Data for SAP System
User Name	sapdev02
User Password	*****
Logon Language	EN
Client	800

Security Settings

☐ Web Services Security

To complete the configuration we have to define collaborative profiles and agreements, which include Sender Agreement, Receiver Agreement, Interface Determination and Receiver Agreement. Find below the screenshots explaining the same.

 **Display Sender Agreement**

Sender

Party

Service

Interface

Namespace


Receiver

Party

Service

Description

Sender Communication Channel *

 **Display Receiver Agreement**

Sender

Party

Service

Receiver

Party

Service





Interface


Namespace

Description

Receiver Communication Channel *

Header Mapping

<input type="checkbox"/> Sender Party	<input type="text"/>	
<input type="checkbox"/> Sender Service	<input type="text"/>	
<input type="checkbox"/> Receiver Party	<input type="text"/>	
<input type="checkbox"/> Receiver Service	<input type="text"/>	

Interface Determination Edit View 

Display Interface Determination S1

Sender

Party

Service FTPServer_YASH_Proxy

Interface EMPLOYEE_MI_OB

Namespace urn:corporate-demos.com

Receiver

Party

Service R3S

Description

Type of Interface Determination **Quality of Service**

☒ Standard ☐ Extended ☒ Maintain Order At Runtime

Configured Inbound Interfaces

Inbound Interface		Interface Mapping
Name	Namespace	Name
1 EMPLOYEE_MI_IB	urn:corporate-demos.com	EMPLOYEE_IM

Display Receiver Determination

Sender

Party: _____

Service: FTPServer_YASH_Proxy

Interface: EMPLOYEE_ML_OB

Namespace: urn:corporate-demos.com

Receiver

Party: *

Service: *

Description: _____

Configured Receivers

Condition	Party	Service
		R3S

Configuration Overview for Receiver Determination

Receiver (Partner | Service) / Mapping ↔ Receiver Agreement (Communication Channel)

▼ | R3S

Receiver (Partner Service)	Mapping	Receiver Agreement (Communication Channel)
EMPLOYEE_ML_OB	EMPLOYEE_IM	Receiver_XI_Employee

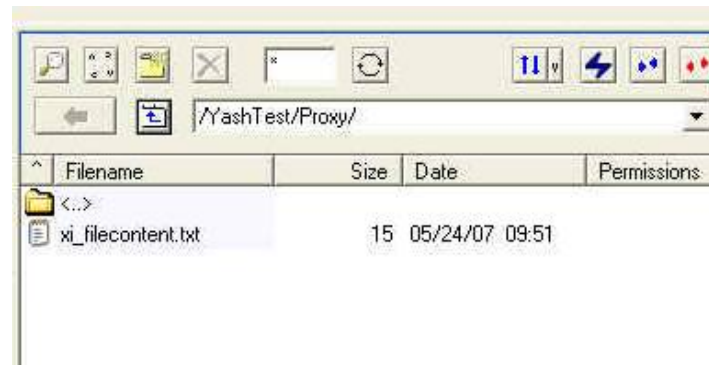
Now prepare the file with Employee personal details resembling outbound message type as shown below:

xi_filecontent - Notepad

File Edit Format View Help

999,Raj,veer,23

This file is placed on FTP server to wait for the XI server to pick of the file at regular intervals, hence we can call the scenario to be Time bound file processing.



After the defined periodicity as per Sender communication channel, the file is picked for processing and can be found through ABAP stack of XI through the transaction code SXI_MONITOR. This is explained in the screenshot below:

Monitor for Processed XML Messages

Display Error information Referencing Messages Restart

Number of XML Messages Displayed: 4

XML Messages

Status	Ack. Status	Executed Fro...	StartTI...	Executed Until	EndTime	Version	Q. Status	R
👁		24.05.2007	05:00:04	24.05.2007	05:00:06	"Current Status"		
➡				24.05.2007	05:00:04	"Current Status"		
👁				24.05.2007	05:00:06	"Current Status"		
👁			06:20:48	24.05.2007	06:20:53	"Current Status"		

Processed successfully

Shortly you will notice that the message got successfully processed and data is posted in the database.

Table: ZEMPDETAIL
 Displayed Fields: 5 of 5 Fixed Columns: 2 List Width 1000

MANDT	SSN	LNAME	FNAME	AGE
<input type="checkbox"/> 800	0000	test	test	1
<input type="checkbox"/> 800	1111	Rambabu	Kunuku	27
<input type="checkbox"/> 800	123-456-789	SAPDEV02	02	4
<input type="checkbox"/> 800	1234	SK	pabbathi	20
<input type="checkbox"/> 800	2222	Yash	Technologies	5
<input type="checkbox"/> 800	5555	andrew	andrew	2
<input type="checkbox"/> 800	6789	SAPDEV02		20
<input type="checkbox"/> 800	777		pragada raju	23
<input type="checkbox"/> 800	7777	test	test	2
<input type="checkbox"/> 800	888	test	test	2
<input type="checkbox"/> 800	9999	test	test	2

The record that got posted is related to SSN 999 that can be viewed in the database.

Table ZEMPDETAIL Display

MANDT	800
SSN	999
LNAME	
FNAME	Veer Raj
AGE	23

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