# File to JDBC

## Applies to:

File to JDBC Asynchronous scenario

## Summary

File to JDBC Asynchronous scenario in detail explanation of all part with screen shot. Release SAP Netweaver 7.0.

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## Author Bio

Kalenthirababu Paulsamy is currently working with EminentLabs as a SAP XI Consultant. I involved in the most complicated integration scenarios and has got experienced in areas of SAP XI, MDM and got MCAD certification from Microsoft Corparation.

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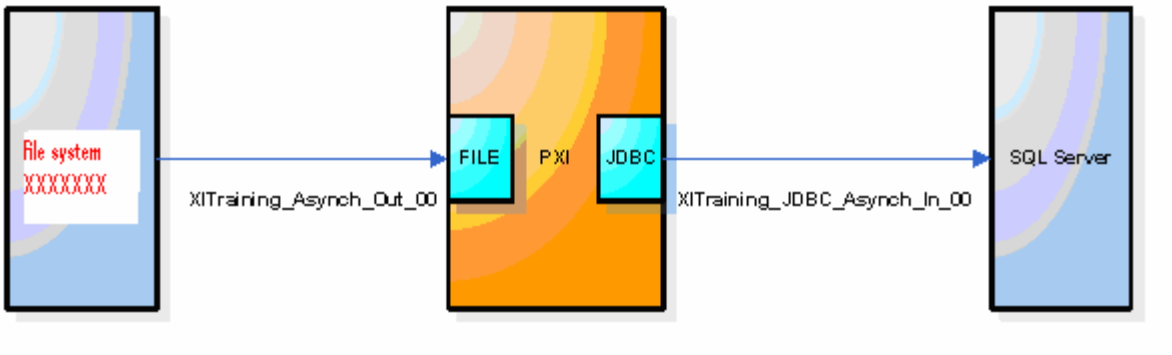
## File to JDBC

This scenario deals with reading an XML file from shared location using file adapter and inserting the records to SQL Server database.



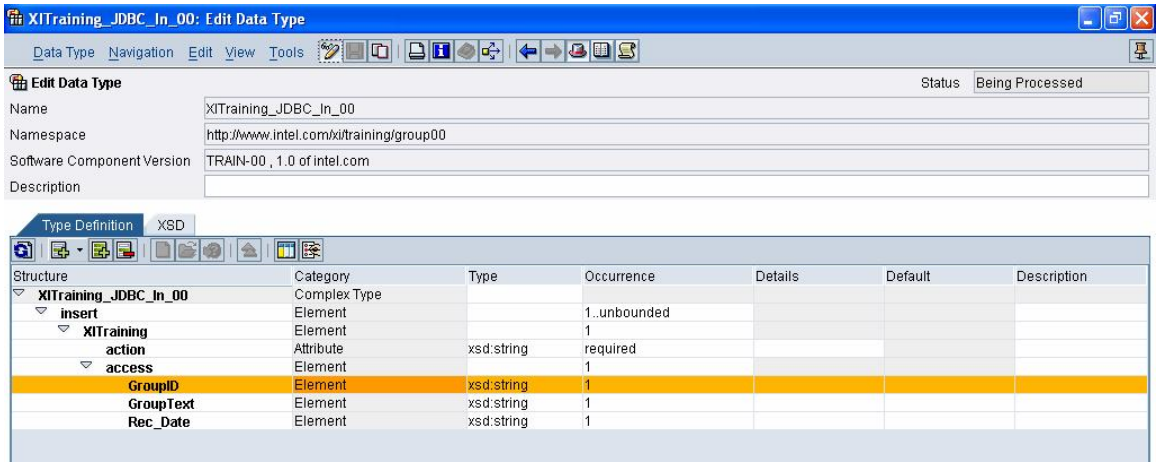

## Integration Repository Configurations

**Note:** This scenario assumes that basic settings such as Software Component and Namespaces are already created.

### Data Type

1. Expand the Integration Objects and go to the Data Types.
    a. Create Data type name as XITraining_Out_XX (Group ID)
        i. GroupID
            1. Occurrence: 0..1
            2. Type: String
        ii. Text
            1. Occurrence: 0..1
            2. Type: String
2. Create the data type for inbound interface.
    a. XITraining_JDBC_In_00
        i. Insert
            1. XITraining *(this is table name which we are going to reference).*
                a. Action *(This is attribute category node which is attached to XITraining node.)*
                    i. Type: String
                    ii. Category: Attribute
                    iii. Occurrence: Required
                b. Access
                    i. GroupID:
                        1. Type: String
                        2. Occurrence: 1
                    ii. Rec_Date
                        1. Type: String
                        2. Occurrence: 1
3. Save the newly created Data type.

**Note:** Please create your structure strictly according to following structure otherwise JDBC adapter will throw unexpected errors during run time. JDBC only supports communication in certain format according to the scenario. We are preparing scenario for Asynchronous communication and we are going to insert the records to the SQL Table. After creating the structure it should look like following screen.




## Message Type

Go to Message Type Option and right make sure that you already have a message type with name XITraining_Out_XX.

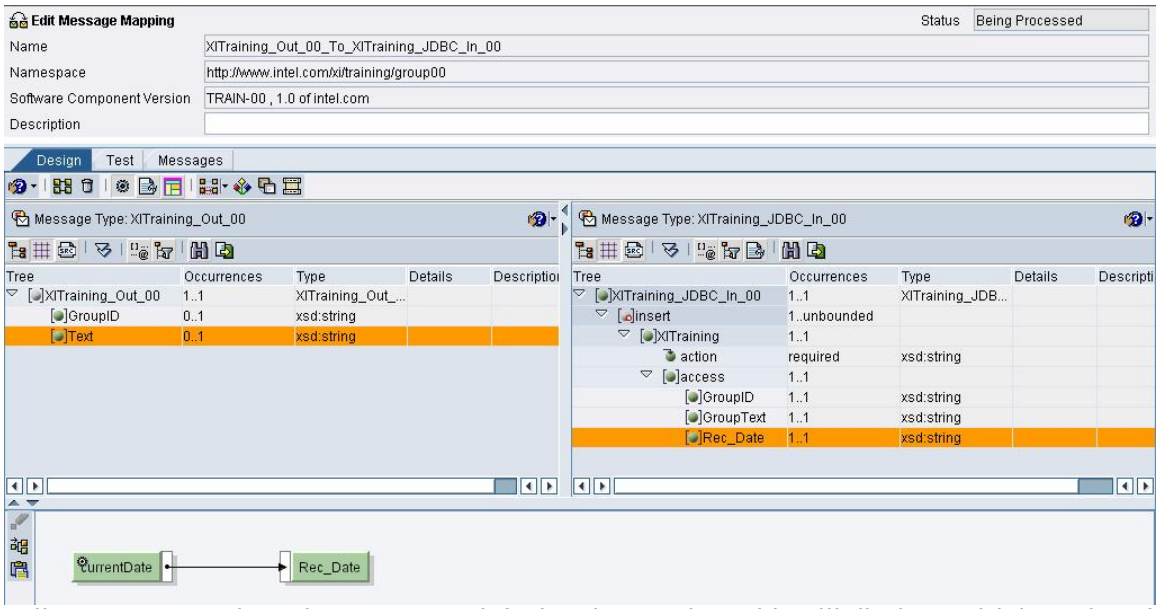
1. Create one or more message type **XITraining_JDBC_In_XX** using Data type **XITraining_JDBC_In_XX using the F4 help.**
2. Save newly created message type.

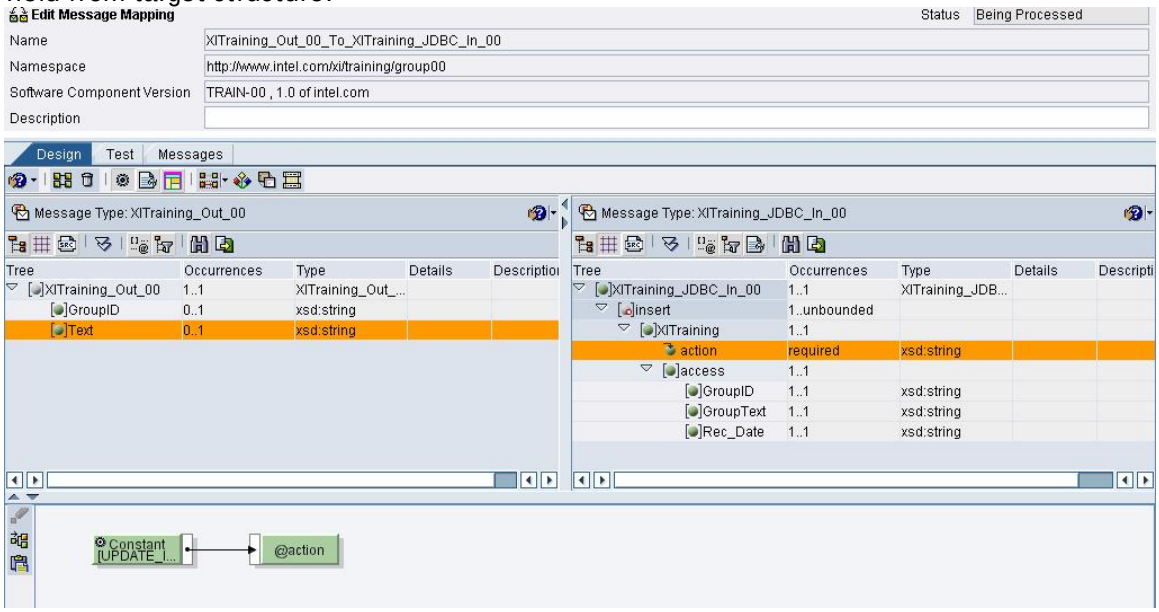
## Message Interface

1. Go to the Message Interface option make sure that you already have a message interface with name XITraining_Asynch_Out_XX
2. Create one more Message Interface XITraining_JDBC_Asynch_In_XX.
3. Select mode as Asynchronous and direction as Inbound for second interface.
4. Save the interface definition.

## Message Mapping

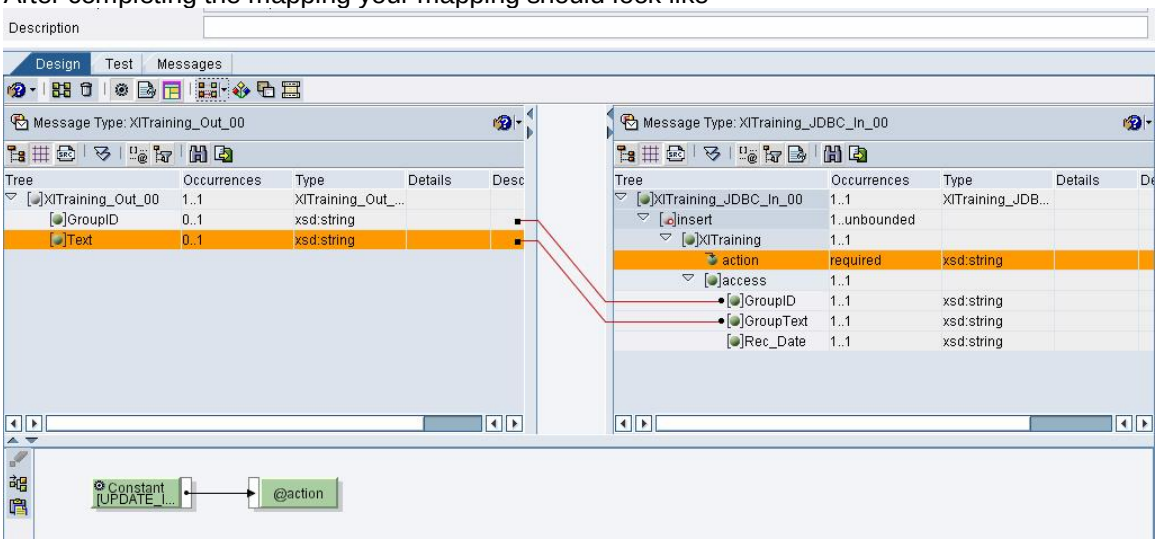
1. Go to Mapping Objects and go to Message Mapping section. Right click and create a new mapping
2. Use name as XITraining_Out_XX_To_XITraining_JDBC_In_XX.
3. Select XITraining_Out_XX as source message type.
4. Select XITraining_JDBC_In_XX as target message type.
5. Map GroupID to GroupID and Text to Text.
6. From standard function selection option, select “Date” which will display all the date related standard functions. Double click the “Date” from target message and use “current Date” function for mapping to Date field from target message (If you are not able to locate this function, please ask instructor and they will help you out)

7. 

8. Follow same procedure above to go to default values option. This will display multiple options for defining defaults during mapping. Click first option which will display a CONSTANT block in the mapping editor. Double click it to change the default value to “INSERT” and map it to the OPTION field from target structure.
9. 

10. Save The Message mapping.

After completing the mapping your mapping should look like




### Interface Mapping

1. Go to Mapping Objects and create a new Interface Mapping.
2. Use XITraining_Asynch_Out_XX_To_XITraining_JDBC_Asynch_In_XX as Interface mapping name.
3. Select Source interface as XITraining_Asynch_Out_XX and Target interface as XITraining_JDBC_Asynch_In_XX
4. Click "Read Interfaces"
5. Select your message mapping (XITraining_Out_XX_To_XITraining_JDBC_In_XX)
6. Save the Interface mapping.

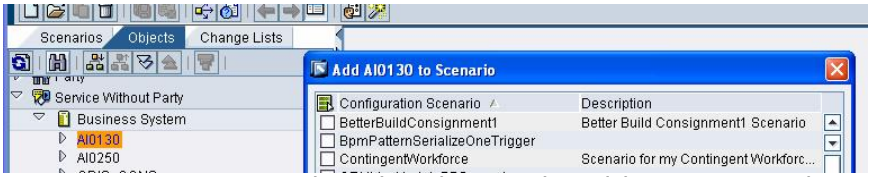
**Note:** Please activate all the changes. Try to activate all the created or changed objects in one go. If you are having trouble in activating the objects try activating it one by one. While activating individual objects make sure that you are following the sequence Fault Message Types, Software Component (if changed) Data Type, Message Type, Message Interface, Message mapping and Interface Mapping. If not activated, these objects will not be visible in directory while doing the configuration.

## Integration Directory changes

Login to Integration Directory.

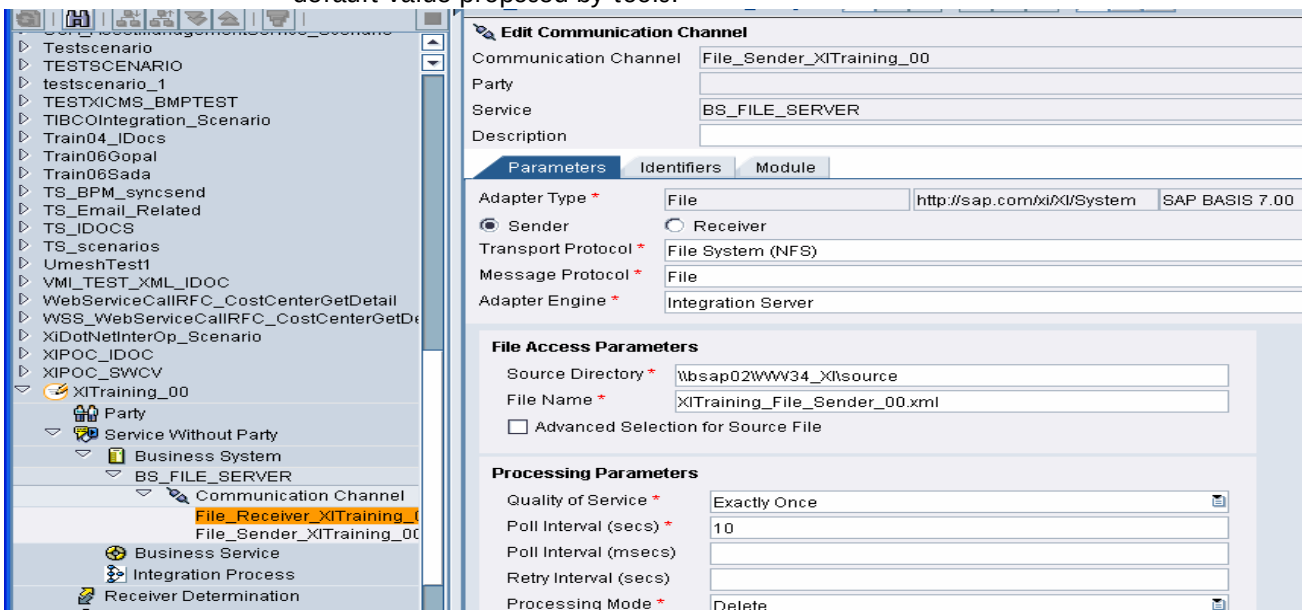
Check if we have Business System *XXXXXX* available in the system (Ask instructors if you don't have the business system available).

1. Make sure that you have you business scenario in the tool. Locate XITraining_XX scenario and check all your objects created in scenario exist there.
2. Go to the "Service without Party" and locate BS_FILE_SERVER business system. Right click on this and assign this business system to your scenario.



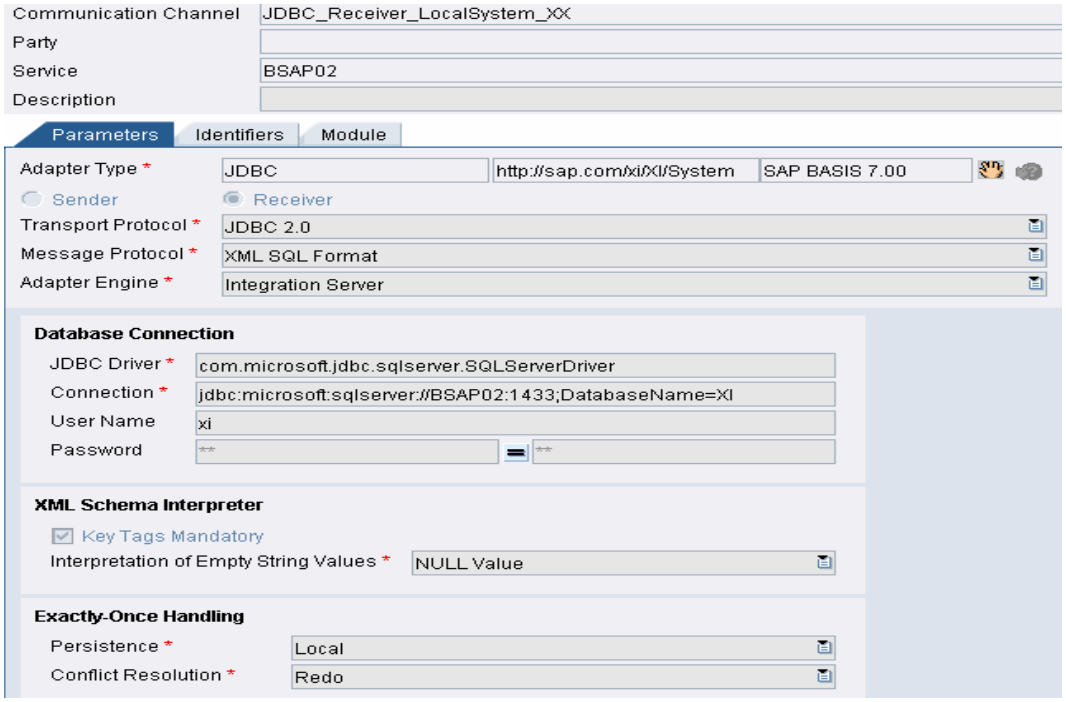

3. Go to your scenario and go the "Service without Party" make sure that communication channel File_Sender_XITraining_XX exists under the BS_FILE_SERVER with following options.
    a. Communication Channel 1: File_Sender_XITraining_XX
        i. Adapter Type: File
        ii. Direction: Sender
        iii. File Type: Binary
        iv. QoS: Exactly Once
        v. Processing Mode: Delete. (Please don't select TEST mode)

vi. Polling Interval: 10 Secs
vii. File Path: file path
viii. File Name: XITraining_File_Sender_XX.xml all other settings should be left as default value proposed by tools.



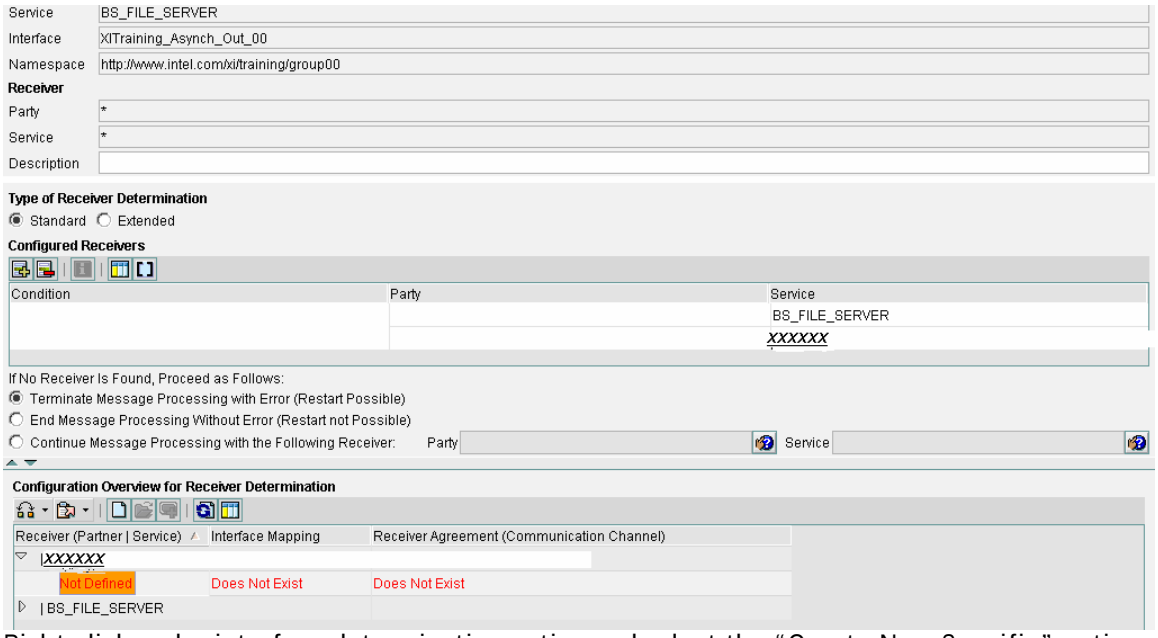

4. Go to the Business *XXXXXX* and create a new communication channel with following properties:
   a. Name: JDBC_Receiver_LocalSystem_XX
   b. Give all details here.
   c. Make sure that you are giving correct values in JDBC driver related information. We recommend that you copy paste these values from this document instead of typing manually to avoid the typing errors.

   Protocol: JDBC 2.0
   JDBC Driver: com.microsoft.jdbc.sqlserver.SQLServerDriver
   Connection: jdbc:Microsoft:sqlserver://XXXXXX:1433;DatabaseName=XI
   User Name:
   Password:

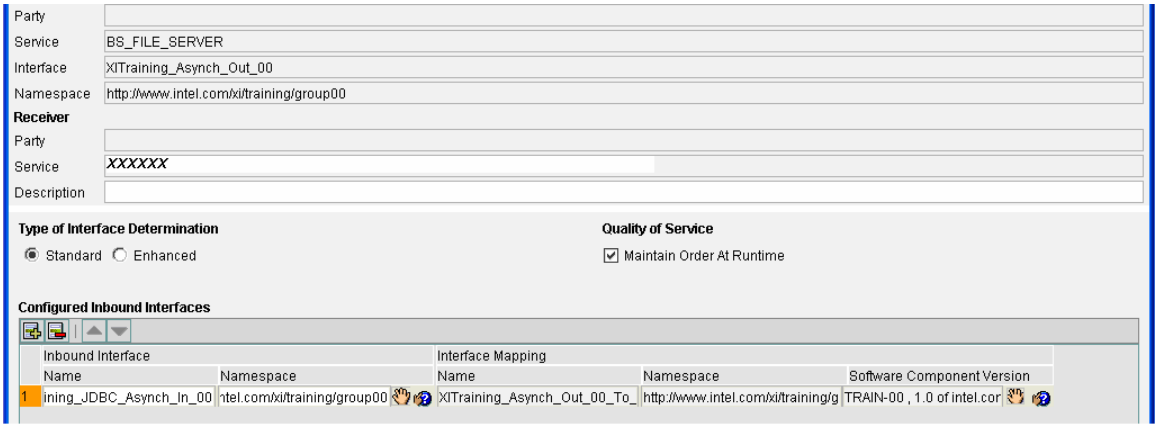


## Receiver Determination

1. Go to the Receiver Determination and make sure that you already have a receiver system existing from scenario 1. You will see 2 options on this screen one for selecting the receivers which should be in the middle of the screen and second one configuring the receivers which should be at the bottom of screen. Add another line in the receiver selection screen. Select *XXXXXX* as second receiver. Save the changes. After saving you will see newly added service in "configure Receiver" option. Drop this new service in this option to see the values below it. Ideally nothing should be defined under *XXXXXX* service but if you get some option below, consult your instructor for more clarification.




2. Right click under interface determination option and select the "Create New Specific" option. This should bring a new screen where you can select the inbound interface.
3. Click on F4 help for selecting the inbound interface. This list will display all the interfaces related *XXXXXX* business system. Try to locate your interface XITraining_JDBC_Asynch_In_XX. If you are not able to locate your interface then click "ALL" radio button option from the top menu which will display the entire inbound interface created in the integration repository. Now you should be able to locate your interface.
4. Click to select the corresponding interface mapping. Ideally this should just display one interface determination.




5. Go back to the original screen and refresh it.

6. Create the receiver agreement by selecting “JDBC_Receiver_LocalSystem_XX” as the communication channel.
7. Check that we already have a sender agreement with name “File_Sender_XITraining_XX” as the sender communication channel.

We are ready for testing. Drop the file by changing the name of the template file given by instructor according to your group name. After some time file will be deleted from the source directory and new file will be created in target directory.

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