



Leading the **Integration** Revolution

Your business problems have changed.
Why hasn't your integration solution?



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Use Case: ETL / Mapping scenarios

Use Case highlights

In this use case we will use following Mappings

1. Applying 'For Each' condition to split data into multiple outputs
2. Applying 'Lookup' and 'Value-maps' condition
3. Applying 'Duplicate handling' condition
4. Pivoting to single record
5. Joining two sources by common key

Design methodology



Design a high level process flow



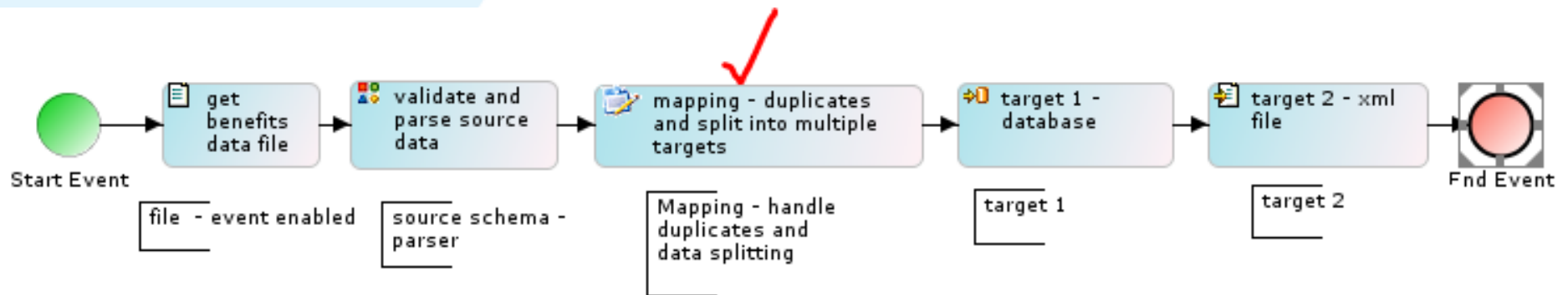
Configure all the activities in the process flow



Attach to Event

Design: Process Flow

Please refer to the Use Case video describing how to build this process flow



Configure – Source and Targets

Services > Source > File ✓

Delete + Create New

<input type="checkbox"/>	Name	Description	Owner	Project Name
<input type="checkbox"/>	Benefits_data_source	employee csv data file location	demouser	UseCase_ETL_Mapping

Services > Target > Database ✓

Delete + Create New

Quick Search

<input type="checkbox"/>	Name	Description	Owner	Project Name	Modified
<input type="checkbox"/>	Benefits_database_target	db target	demouser	UseCase_ETL_Mapping	12/24/13 1...

Services > Target > File ✓

Delete + Create New

Quick Search

<input type="checkbox"/>	Name	Description	Owner	Project Name	Modified
<input type="checkbox"/>	EmployeeBenefitTarget_non_CA	output XML file location	demouser	UseCase_ETL_Mapping	12/24/13 1...

Configure – Source and Target Schemas

Edit Text Schema: Benefits_csv_schema

Name* Benefits_csv_schema

Description* source data schema

Data Header Present

Record Separator* \n

Field Separator* ,

Definition Mode* Import Definition File Enter the Fields Sequentially

Definition File Data

#	Field Name	Type	Date Format	Time Format	Repeat	Parent
1	EmpFirstName	string	mmddyyyy	hh:mm:ss	1	
2	EmpLastName	string	mmddyyyy	hh:mm:ss	1	
3	EmpMiddleInitial	string	mmddyyyy	hh:mm:ss	1	
4	EmpSSN	string	mmddyyyy	hh:mm:ss	1	
5	EmpGender	string	mmddyyyy	hh:mm:ss	1	

Number of Rows 1 at Position 16

Services > Schema > Text

Name* MembersDBSchema

Description* members tables

Select Database Info* MembersDB

Definition Mode* Import XSD File Table Name

XSD File

Table Name benefits

SQL Query
SELECT * FROM benefits

Services > Schema > Database

Configure – Mapping (duplicate and split)

Services > Data Transformation > Data Mapping (Refer to the video for details)

[not(preceding:: EmpSSN = EmpSSN) and EmpState = 'CA']

The screenshot displays the Data Mapper interface with the following components:

- Structure_of_source_XSD (Benefits_csv_schema):**
 - Record
 - @ recordNumber (M)
 - EmpFirstName (string) (M)
 - EmpLastName (string) (M)
 - EmpMiddleInitial (string) (M)
 - EmpSSN (string) (M)
 - EmpGender (string) (M)
 - EmpAddr1 (string) (M)
 - EmpAddr2 (string) (M)
 - EmpCity (string) (M)
 - EmpState (string) (M)
- Structure_of_destination_XSD (MembersDBSchema):**
 - Record (F) ✓
 - @ Action
 - @ recordNumber (M)
 - EmpSSN (integer) (M)
 - EmpFirstName (string) (M)
 - EmpLastName (string) (M)
 - EmpMiddleInitial (string) (M)
 - EmpGender (string) (M)
 - Addr1 (string)
 - Addr2 (string)
 - EmpCity (string) (M)

The mapping rules are configured as follows:

Node	Mapping Rules	Textual Rules	Local Variables	Properties
Global	XPath		/Root/Record	
Global	ForEach		\$input_Benefits_csv_schema/Root/Record	[not(preceding:: EmpSSN = EmpSSN) and EmpState = 'CA']

Configure – Attach activities to process flow

Select and drag the activities from Repository View and attach it to activities.

The screenshot displays the Process Designer interface for a process named 'Benefits_Duplicate_split_process'. The main workspace shows a process flow starting with a 'Start Event', followed by 'get benefits data file', 'validate and parse source data', and 'mapping - duplicates and split into multiple targets'. A 'Multiple Stream Dialog' window is open on the right, showing the configuration for streams 'ca' and 'non_ca'. The dialog includes a 'Stream Name Entry' section, a 'Stream And Activity Mapping' section with dropdowns for 'Streams' (set to 'non_ca') and 'Activities' (set to 'Benefits_data...'), and a 'Stream Information Table'.

Stream Name	Error Stream	Stream Consumer Activity	Explicit Stream
ca	<input type="checkbox"/>	Benefits_database_target	<input type="checkbox"/>
non_ca	<input type="checkbox"/>	EmployeeBenefitTarget_non_CA	<input type="checkbox"/>

Below the dialog, a 'Properties' window is visible, showing the 'Name' as 'EmployeeBenefitTarg' and the 'Label' as 'Start Event'.

Deploy – File Event

Right click on the process flow located under Develop > Process > Process Flow and create and register File Event to the process flow.

File Event: CSV_trigger_event

Standard Properties

Name*	CSV_trigger_event
Description*	event to kick off the process
Trigger Type*	On FileExists
Check for File Modification	<input type="checkbox"/>
File Include Criteria*	*benefits*.csv
File Exclude Criteria	
File Base Location*	c:\input

Project: View and manage activities for this use case

Projects

List of activities included in project "UseCase_ETL_Mapping" ✓

◀ Back Move ↻

<input type="checkbox"/>	Name	Description	Owner
[-] Data Mapping (1)			
<input type="checkbox"/>	Benefits_data_map	duplicate and splitting mapping rules	demouser
[-] Database Info (2)			
<input type="checkbox"/>	AccountsDB	database connection	demouser
<input type="checkbox"/>	MembersDB	members database connection	demouser
[-] Database Schema (1)			
<input type="checkbox"/>	MembersDBSchema	members tables	demouser
[-] Database Target (1)			
<input type="checkbox"/>	Benefits_database_target	db target	demouser
[-] Event Registry (1)			
[-] File Event (1)			
<input type="checkbox"/>	CSV_trigger_event	event to kick off the process	demouser
[-] File Source (1)			

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Thank You!



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