Cognizant Technology Solution

Exercises - BPM

WebMethods Integration Workshop

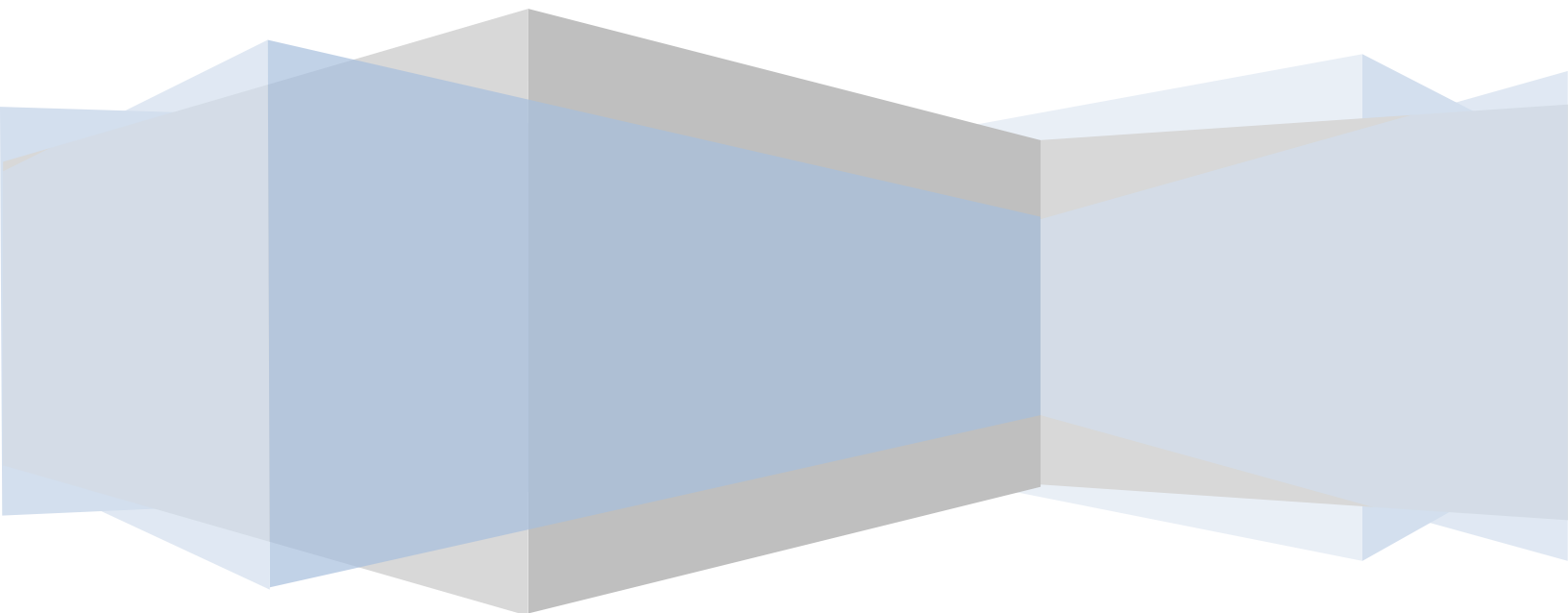**WebMethods CoE**

Table of Contents

Business Process Management

Introduction

Business process management (BPM) is a holistic management approach focused on aligning all aspects of an organization with the wants and needs of clients. It promotes business effectiveness and efficiency while striving for innovation, flexibility, and integration with technology. BPM attempts to improve processes continuously. It can therefore be described as a "process optimization process." It is argued that BPM enables organizations to be more efficient, more effective and more capable of change than a functionally focused, traditional hierarchical management approach.
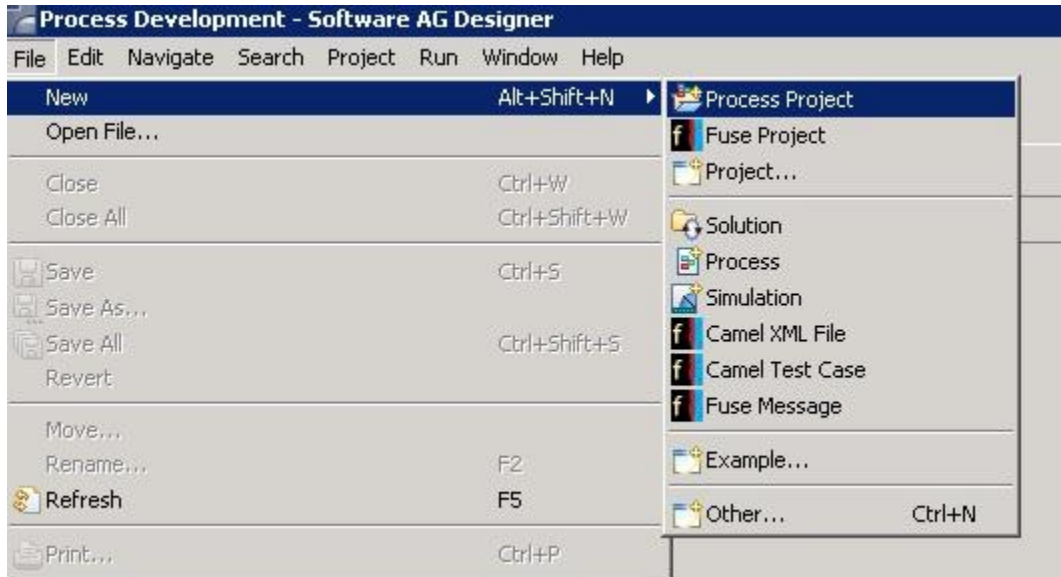
Process

A **process** is the top-level asset in a process project. It contains steps and logic; and it is the asset that is ultimately built and executed in the Process Engine and uploaded to the Process Audit Database for analysis. Processes can be started in many different ways, including using rules and services. A process can invoke a rule, of course, but a rule can also invoke a process.
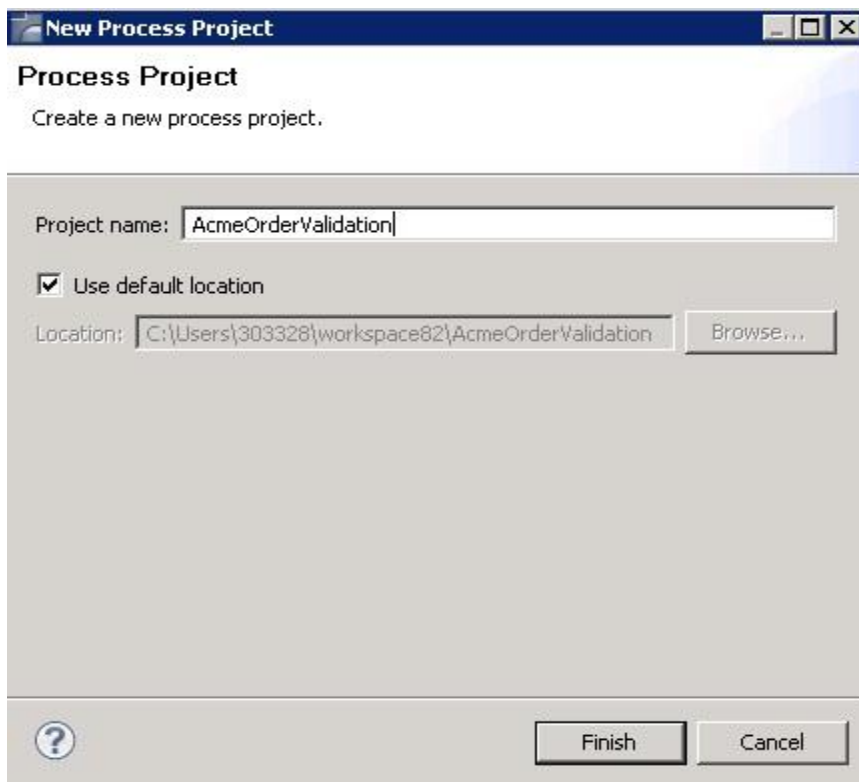
Practical

Creating Process Project

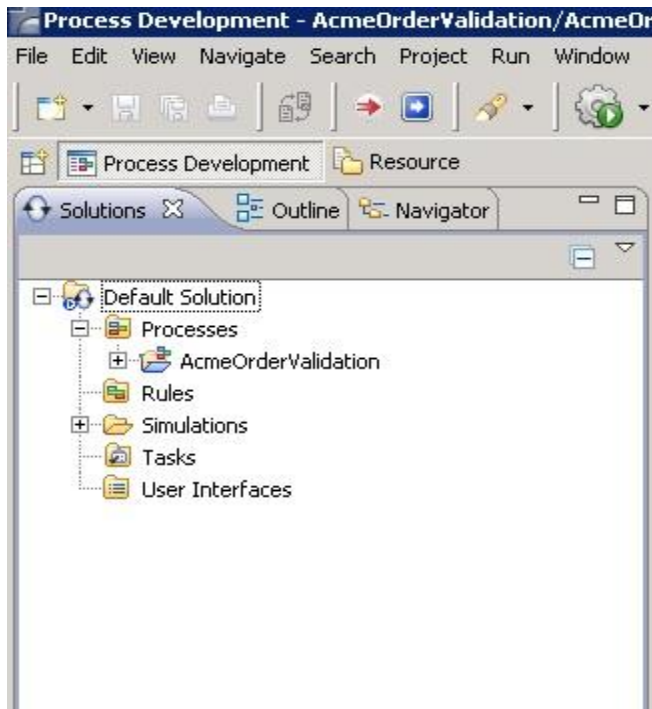### Steps to create process project

1. In Designer: **File >New >** **Process Project.**

2. In the **New Process Project** window, type the project name(here **AcmeOrderValidation_<Empid>**).
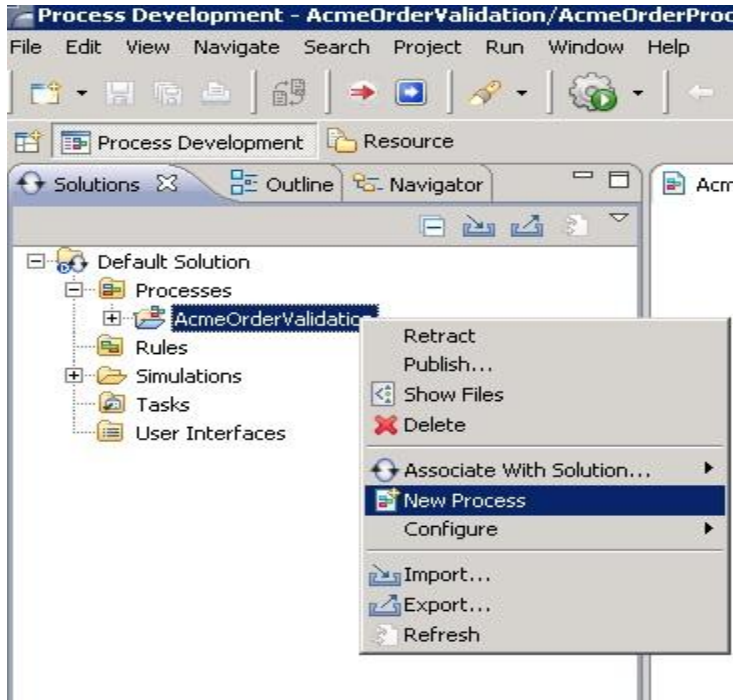
3. Click **Finish**.
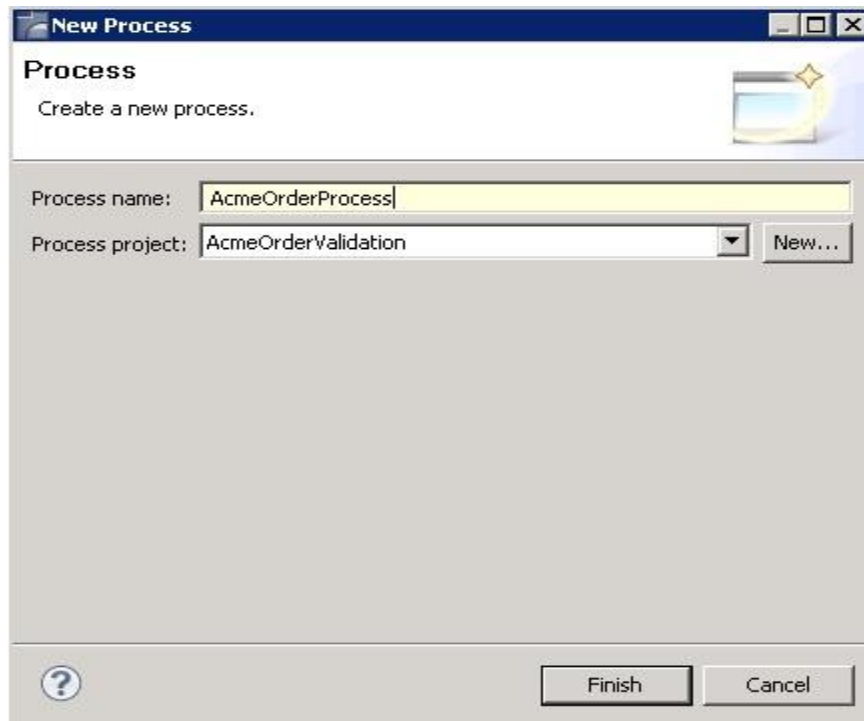4. A process project is created with specified name.

Creating a Process
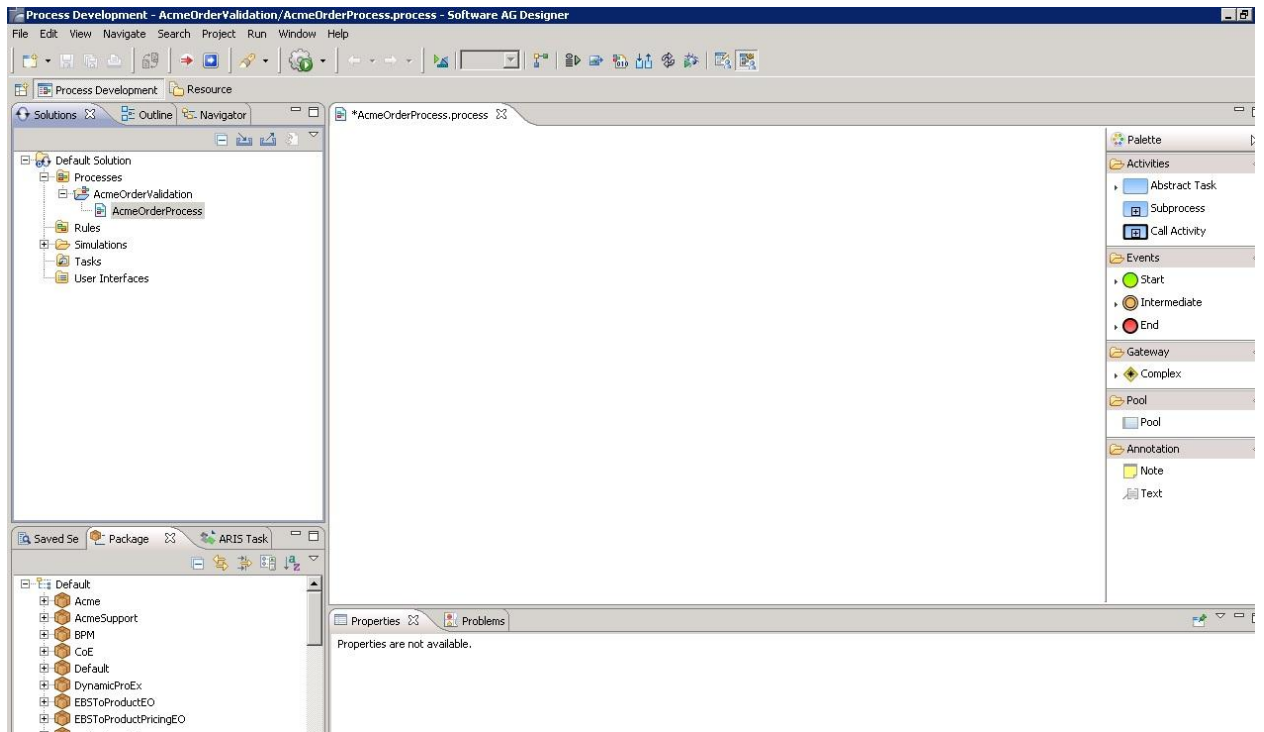
Steps to create process

1. Right click on process project(here **AcmeOrderValidation_<Empid>**) and select **New Process** from the list.

2. In the **New Process** window, type the process name(here **AcmeOrderProcess_<Empid>**).
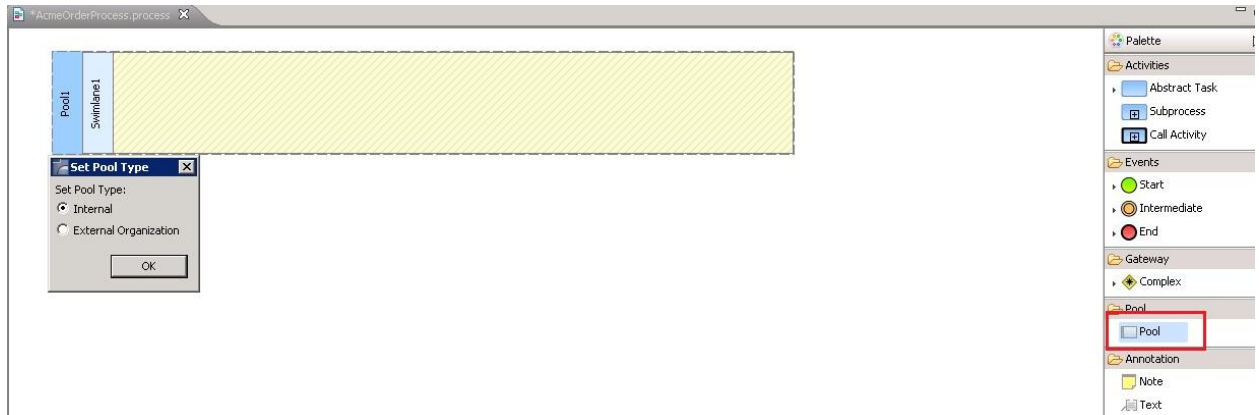
3. Click **Finish**.
4. A process is created with specified name.

Adding steps on to Process

Steps to add steps on to process

1. Switch to **Process Developer** perspective by clicking on this in the toolbar menu.
2. Add **Pool** by drag and dropping it on to process canvas from **Palette** panel. And **Set Pool Type** as **Internal**.

3. To rename the **Pool**, Right click on Pool and select **Rename Pool** and enter the name(here **AcmeOrderProcess**).
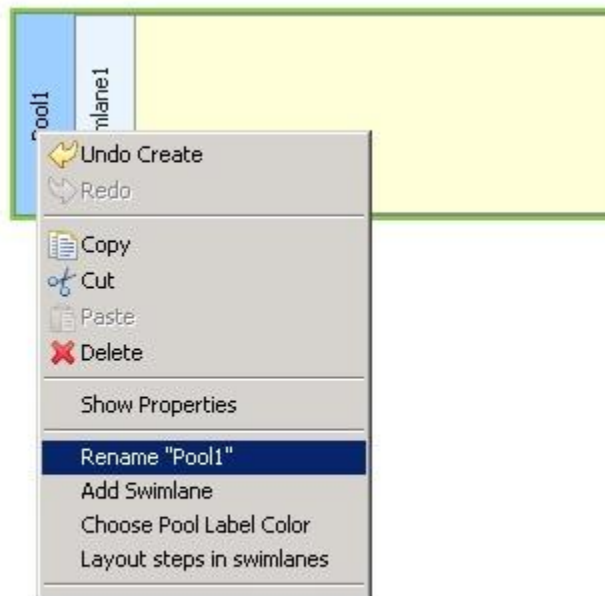
4. To rename the **Swimlane**, Right click on Swimlane and select **Rename Swimlane** and enter the name.
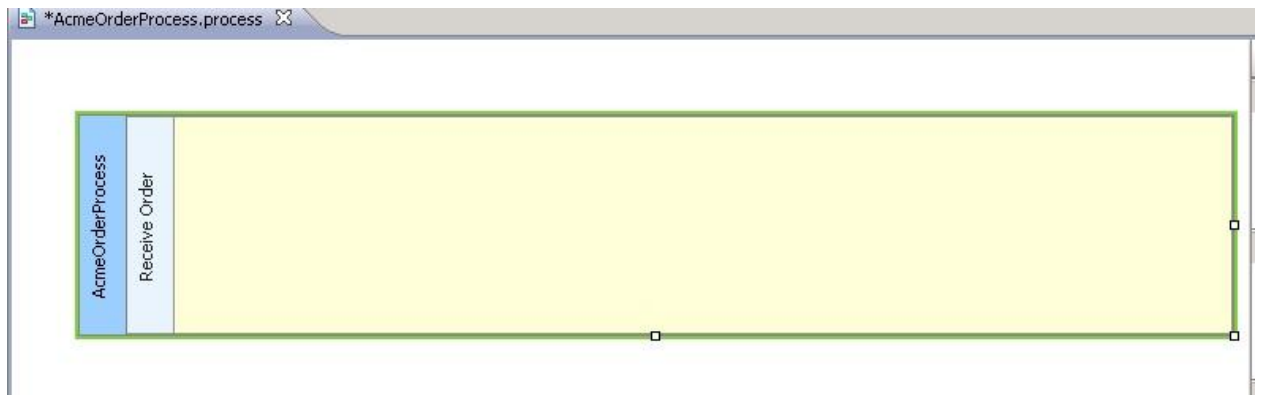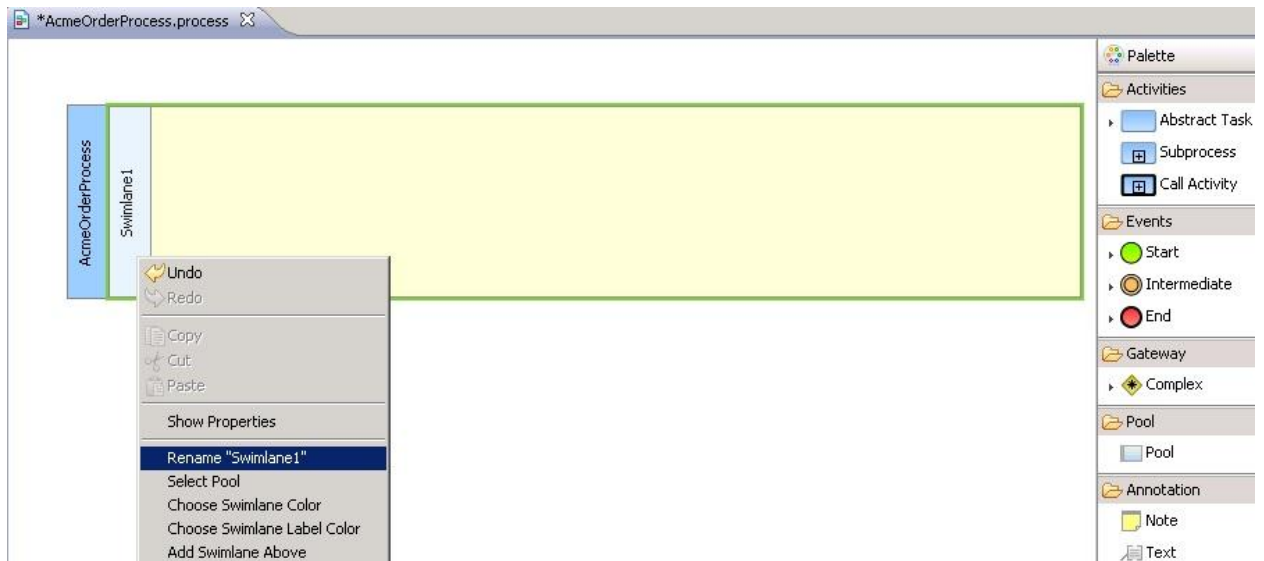
5. Right click on **Pool** and choose **Add Swimlane Below** to add another Swimlane to Pool. Rename Swimlane. Add as many as Swimlane Reqiured.

AcmeOrderProcess	Receive Order
	Validation
	Mapping
	Data Base
	PubSub
	OrderStatus
	Flat File
	endProcess
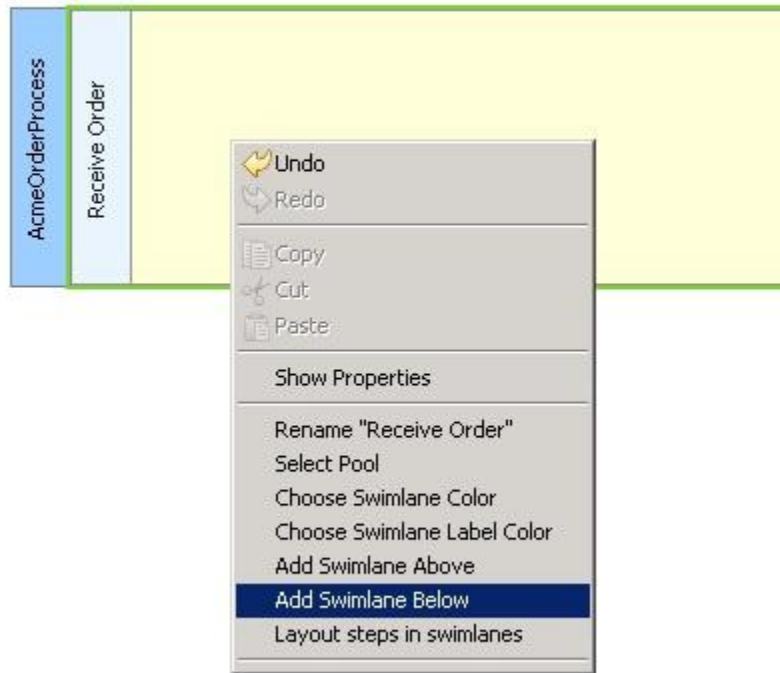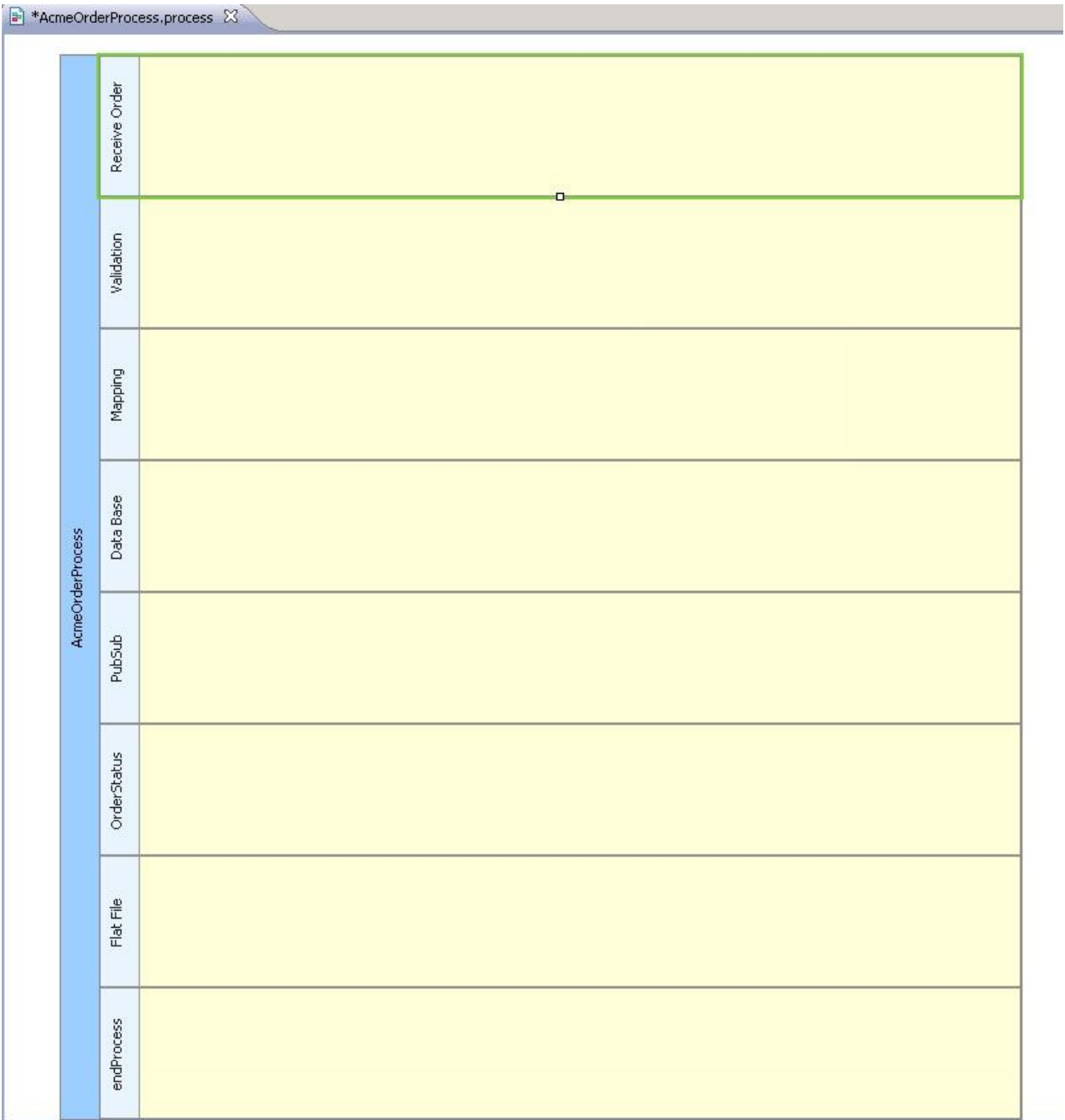
6. To add Start Event do the following
   - Drag and drop the publishable document(the document that needed to be processed) from the package on to specific Swimlane.
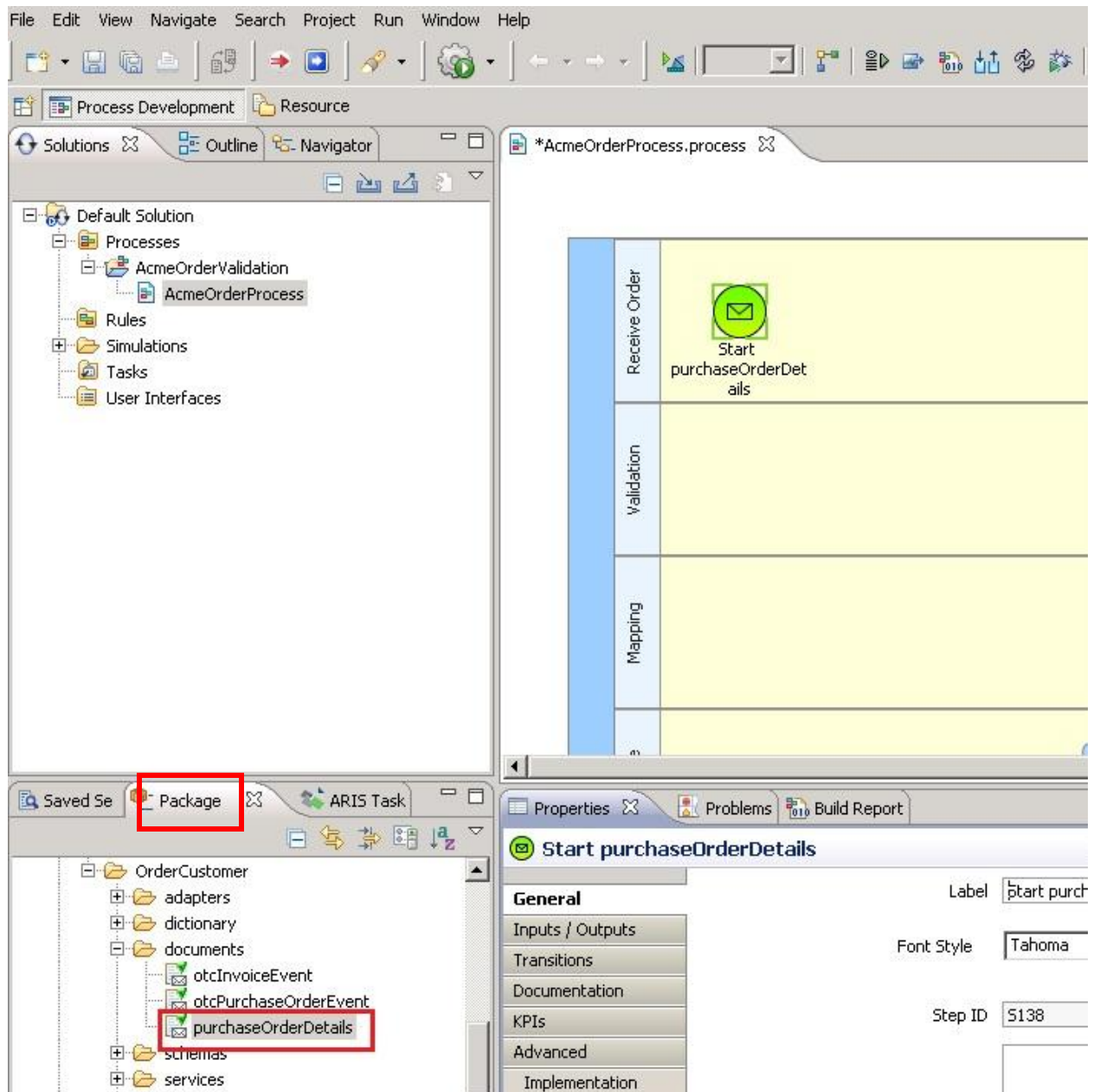
7. To add activity step do the following
   - Drag and drop the service from the package on to specific Swimlane.
   - Do the same for the remaining services.

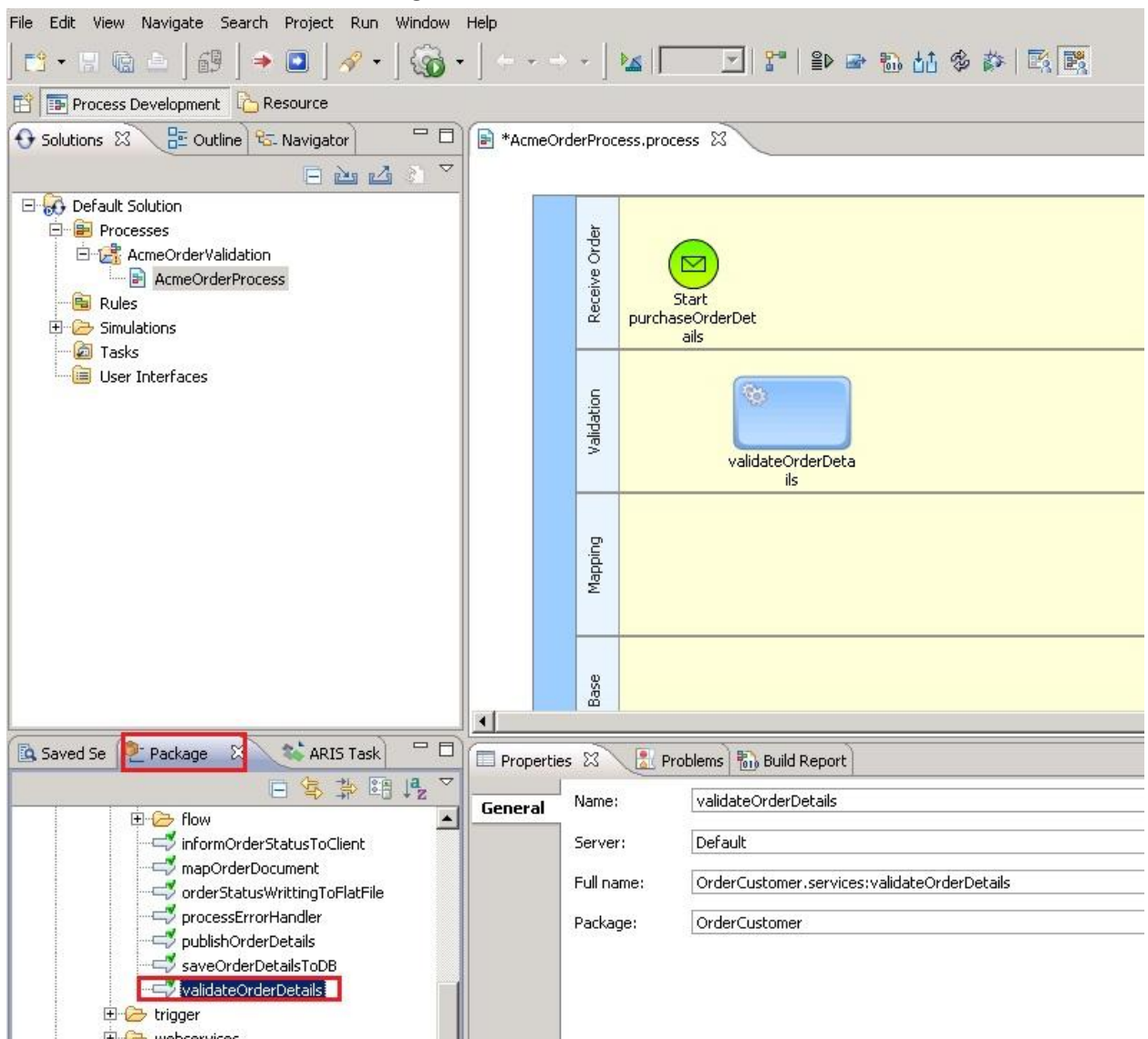|		
Receive Order	Start purchaseOrderDet ails	
Validation	validateOrderDeta ils	
Mapping	mapOrderDocume nt	
Data Base	saveOrderDetailsT oDB	
PubSub	publishOrderDetail s	
OrderStatus	informOrderStatus ToClient	
Flat File	orderStatusWrittin gToFlatFile	
endProcess		

8. In the last Swimlane drag and drop the **End Event** from the Palette panel.
9. To rename the End Event do the following
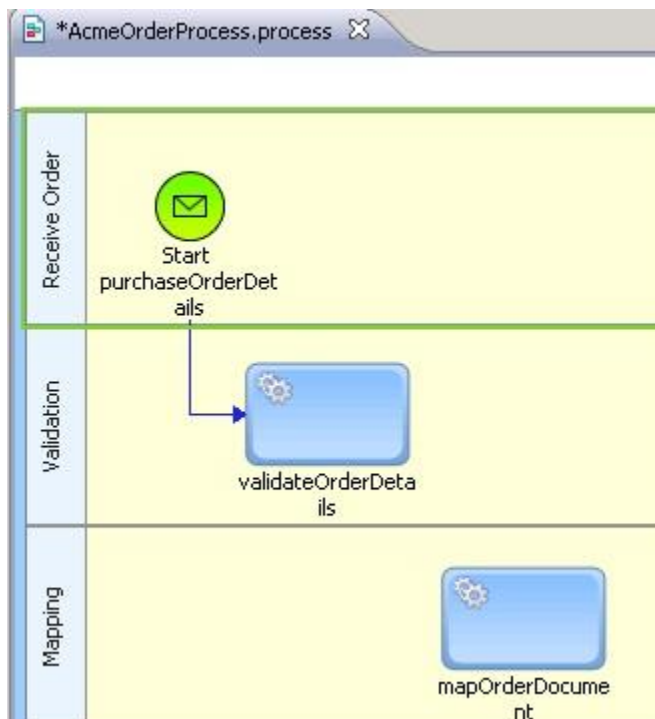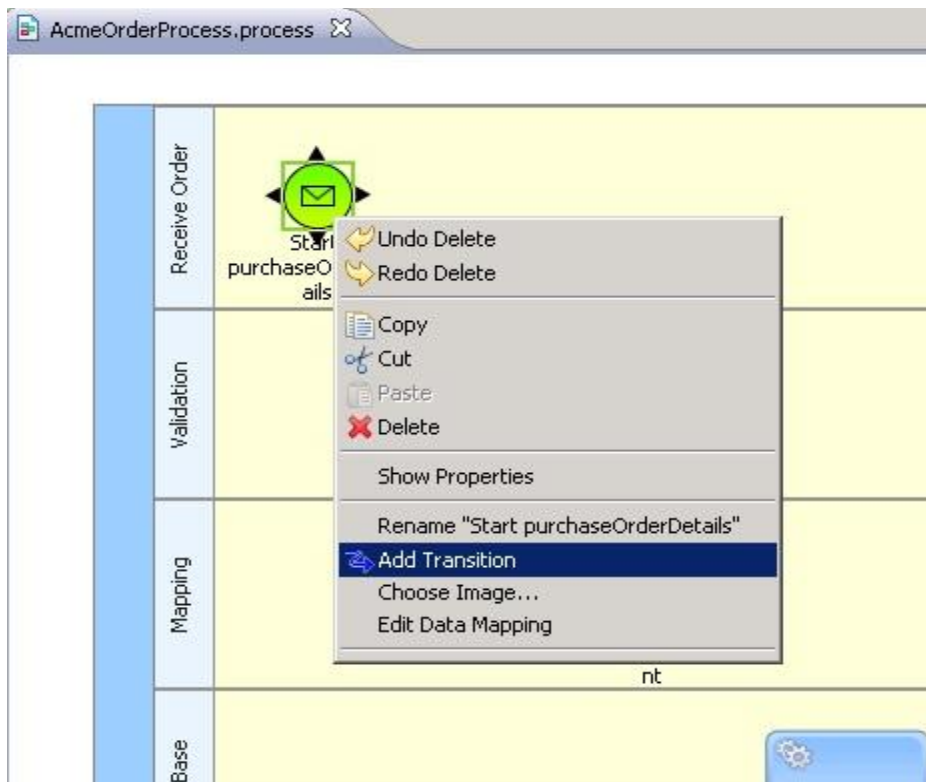   - Select the **End Event** and click on **Properties** tab in the panel.
   - Click on the **General** tab and type the name in **Label** Column.
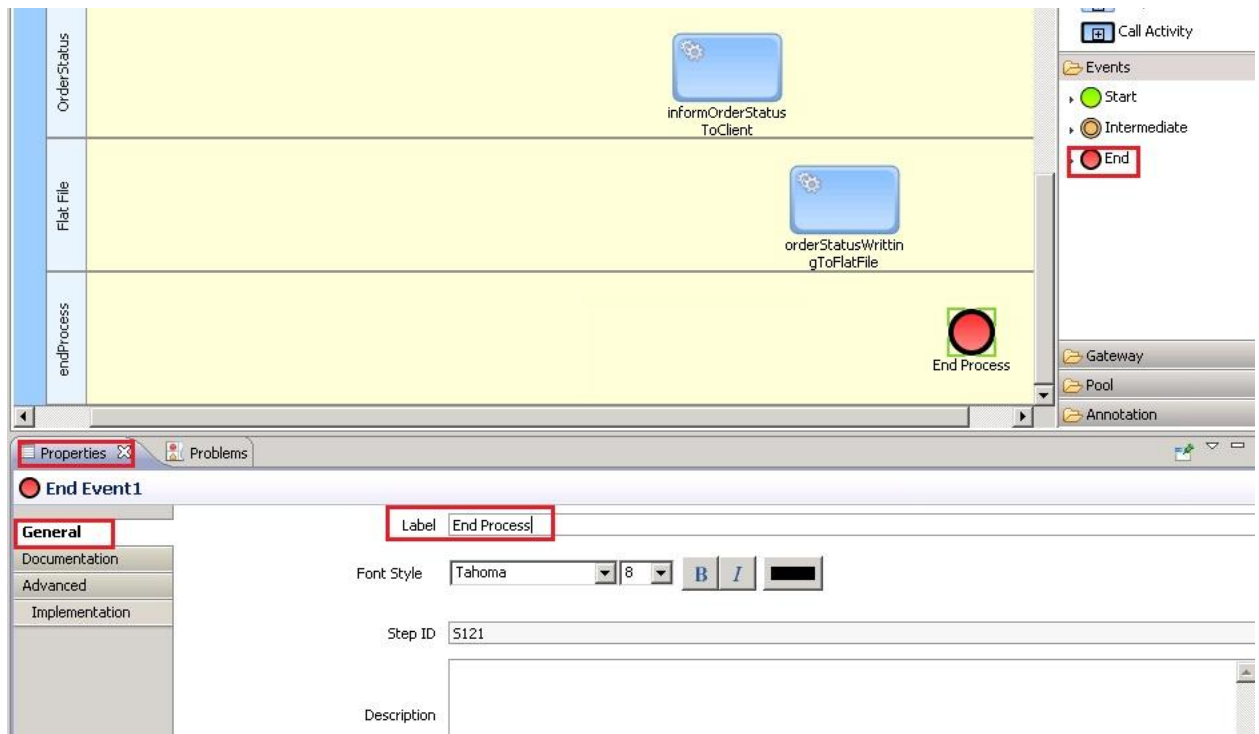
10. To add transaction do the following
   - Right click on a **Start Event** step choose **Add transaction** and connect it to next activity to be performed(here validateOrderDetails).
   - Do the same for remaining services.

AcmeOrderProcess.process

AcmeOrderProcess

Receive Order
Start
purchaseOrderDetails

Validation
validateOrderDetails

Mapping
mapOrderDocument

Data Base
saveOrderDetailsToDB

PubSub
publishOrderDetails

OrderStatus
informOrderStatusToClient

Flat File
orderStatusWrittingToFlatFile

endProcess
End Process
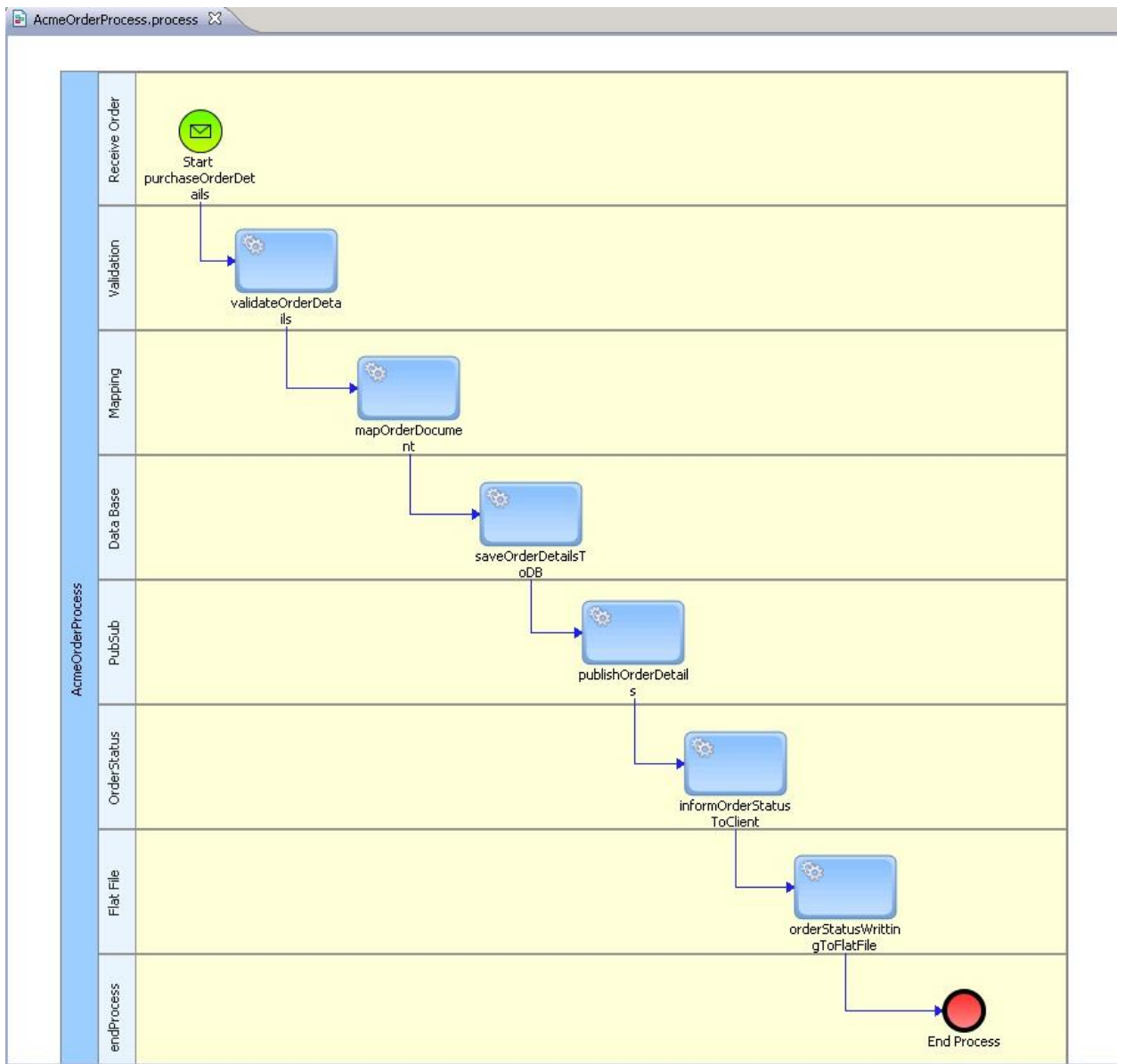
11. Do the following steps to handle error
   - Add another Swimlane and rename it as **Error Handling**. Add specific service and add End Error Event and map them.
   - Click on process canvas, select **Properties** tab and under it select **Error** tab, and in the **Error Handler Task** choose the appropriate service.
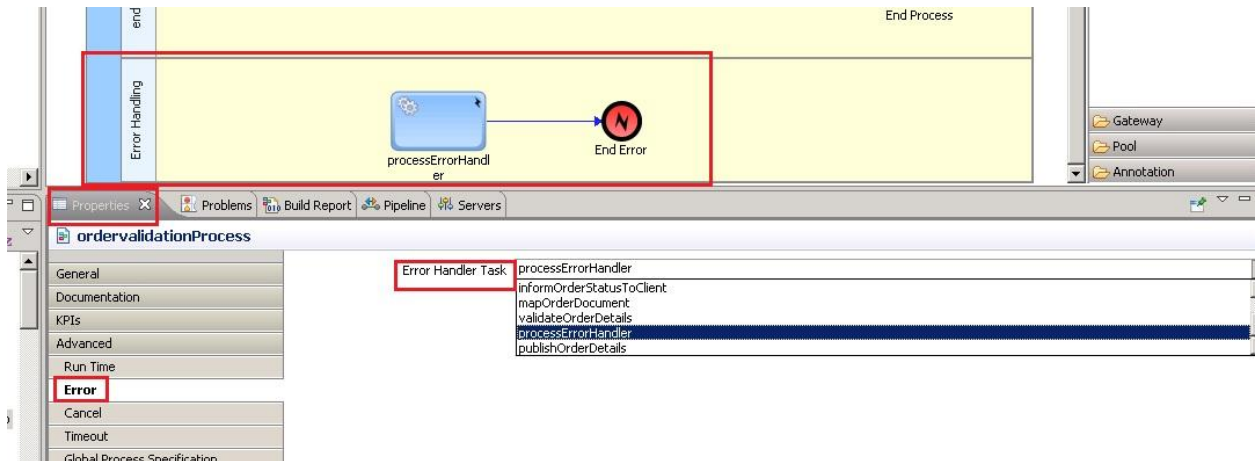
Build and Upload for Execution

Steps to build and upload the process on to Integration Server

1. Select the process that's need to be build and upload(here **AcmeOrderProcess_<Empid>).**
2. Click on this ![icon](Build and Upload for Execution) in the tool bar menu.
3. Wait for some time until you get successful message.
4. A package is created with the name(here **AcmeOrderValidation_<Empid>)** on to Integration Server. You can check it in Developer.