OSM Orchestration Exercise

Lab 7-1 - Define Decomposition Rules

So far we have used the '**Product Class**' and '**Product Spec**' combination to generate a number of 'Functional' Order Components for the items in the order.

This is only the first part of the decomposition process, we still need to match those '**FUNCTIONS**' to the target '**SYSTEMS**' and specify the '**GRANULARITY**' with which those SYSTEMS operate.

To do this we will create '**Decomposition Rules**' to create additional '**Order Components**'.

The table below shows the additional components that need to be created for each function.

FUNCTION	SYSTEM	GRANULARITY
InitiateBillingFunction	BillingSystem	OrderGranularity
ShipOrderFunction	Shipping-InHouse	BundleGranularity
ProvisioningOrderFunction	ProvisioningSystem	ItemGranularity
InstallOrderFunction	WFM-ALL	BundleGranularity
FulfillBillingFunction	BillingSystem	OrderGranularity

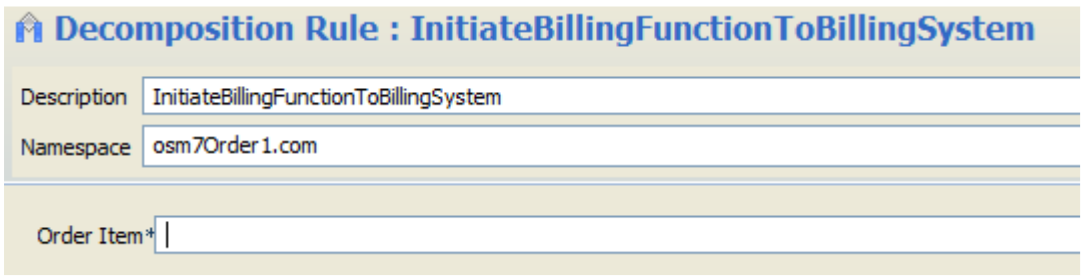
Note* we are using '**Bundle**' granularity but currently have no product bundles in our order data. This is in preparation of future labs. The '**Mobile**' order line has a '**BundleID**' of '00' which will be used.

We now need to create '9' '**Decomposition Rules**' to manage the creation of these additional order Components. Use the following table as input data for the next steps.

NAME	FOLDER	SOURCE ITEM	TARGET ITEM
InitiateBillingFunctionToBillingSystem	FUNCTION_TO_SYSTEM	InitiateBillingFunction	BillingSystem
ShipOrderFunctionToShipping-InHouse	FUNCTION_TO_SYSTEM	ShipOrderFunction	Shipping-InHouse
ProvisioningOrderFunctionToProvisioningSystem	FUNCTION_TO_SYSTEM	ProvisioningOrderFunction	ProvisioningSystem
InstallOrderFunctionToWFM-ALL	FUNCTION_TO_SYSTEM	InstallOrderFunction	WFM-ALL
FulfillBillingFunctionToBillingSystem	FUNCTION_TO_SYSTEM	FulfillBillingFunction	BillingSystem
BillingSystemToOrderGranularity	SYSTEM_TO_GRANULARITY	BillingSystem	OrderGranularity
Shipping-InHouseToBundleGranularity	SYSTEM_TO_GRANULARITY	Shipping-InHouse	BundleGranularity
ProvisioningSystemToItemGranularity	SYSTEM_TO_GRANULARITY	ProvisioningSystem	ItemGranularity
WFM-ALLToBundleGranularity	SYSTEM_TO_GRANULARITY	WFM-ALL	BundleGranularity

1. Create a new '**Decomposition Rules**'

   - Complete the wizard using the data from the table above
   - use the namespace 'osm7Order1.com'

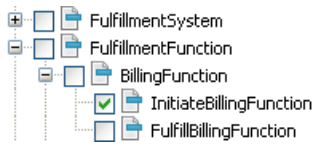


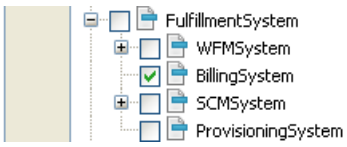
2. In the editor that has opened

** **Note** you can select a product Specification for this decomposition rule which indicates that this decomposition rule will 'only' be run when the product spec has been matched. For our labs, we want these decomposition rules to work on 'ALL' product specifications – which means we leave this field blank.

- We do need to specify something called '**Order item**' which we have not defined yet. When we complete the next section of labs, we will come back and update this field. – Leave it blank for now.

3. Switch to the '**Source/Target**' tab
   - set the source and target order components to match the information from the table



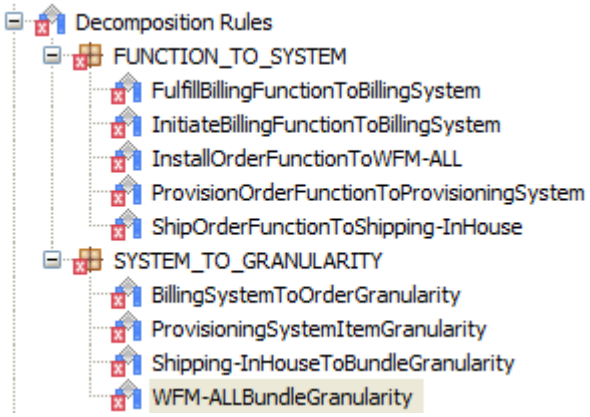


This will create the 'BillingSystem' component when the 'InitiateBillingFunction' component has been created.

** **Hint** Use copy/paste from the Word Document containing the lab to remove the need to re-type all names.
** **Hint** If you click on the folder you want to use, design studio will remember the folder name in the Wizard.

4. Repeat the above steps for the other eight rules required.

Once complete you should have the following:



** **Note** The red markers are caused by the missing **Order Item** information – this is normal.

This concludes **Lab 7**. To recap where we are after Lab 7, we have:

- Created all the Order Component Specification
- Defined the Fulfilment Modes
- Created the Product Specifications
- Created the Product Classes
- Created the Decomposition Rules

In the next section we will create the '**Order item Specification**' which will reference the incoming order data and also the Product Class to Product Specification mapping file.

END OF LAB