OSM Orchestration Exercise
Lab 9-3 - Add Control Data to Order

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We now need to add the new 'ControlData' structure to your 'Order' object and create some '**Reference Node**' keys. This is done by modifying the 'Order Component Specifications' we created earlier adding **Order Template** entries

Perform the following operations on each of the '**Order Component Specifications**' listed below.

FulfillBillingFunction
InitiateBillingFunction
ProvisioningOrderFunction
ShipOrderFunction
InstallOrderFunction

1. Design studio will not allow us to add control data to a functional component unless it is assigned to a process.

   ↓ Assign the corresponding process as defined in the table below.

Functional Component	Process
FulfillBillingFunction	BillingProcess
InitiateBillingFunction	BillingProcess
ProvisioningOrderFunction	ProvisioningProcess
ShipOrderFunction	ShippingProcess
InstallOrderFunction	InstallProcess

2. Open the 'FulfillBillingFunction' and switch to the Order Template tab. It should be blank – if not do not worry.

3. Right mouse click and select '**Select from Dictionary**'

   ↓ Expand the **ControlData** node and the **Functions** node
   ↓ Select the **ControlData/OrderItem** group and its child elements and the structure under 'FulfillBillingFunction' and its child elements as shown in the following example (you should be able to use SHIFT+CNTRL to automatically select a 'tree' of objects).
   ↓ Click 'OK'
   ↓ Once 'ControlData' has been inserted into the 'Order' expand the structure to ensure that all elements are present.
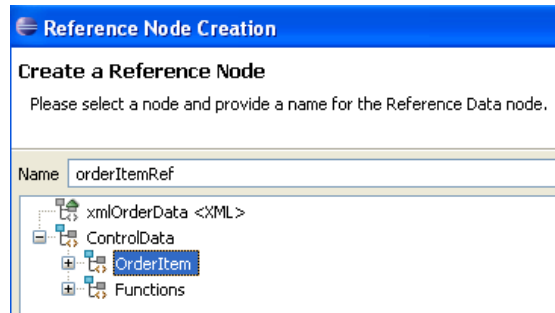   e.g.
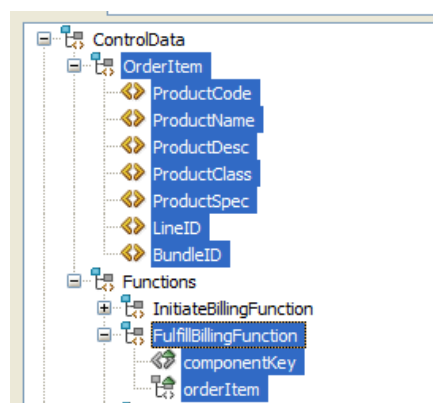
4. With the 'Functions' structure expanded,

   ↓ Right-click on the '**ControlData/Functions/FulfillBillingFuction/orderItem**' object and select **'Add Reference Node'**.

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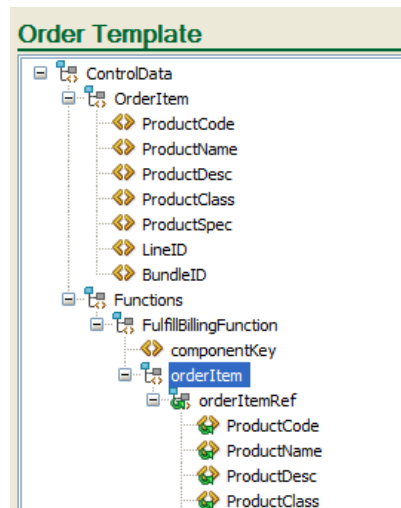   ✦ Enter the name **orderItemRef** and then expand the 'ControData' structure and select 'OrderItem'.


     ✦ Click 'OK' to complete this action.

5. Expand 'OrderItem' and you should have a structure like the following example (note not all items shown under 'orderItemRef'

6. Repeat the steps 2 – 5 for each of the other functions listed in the introduction.

7. Finally, to allow the Orchestration Plan to be created, the decomposition process needs to update the order during decomp. For this to take place the complete '**ControlData**' structure needs to be added to the '**OrderCreationTask**' you previously created.

     ✦ Bring up the editor for you '**OrderCreationTask**
     ✦ Right mouse click in the Task Data window and select pick 'Select from order Template'. Select the entire ControlData section.
        o To select the whole 'ControlData' structure you need to expand **all** groups within the tree and then select everything at once (ensure that ALL groups are expanded)..
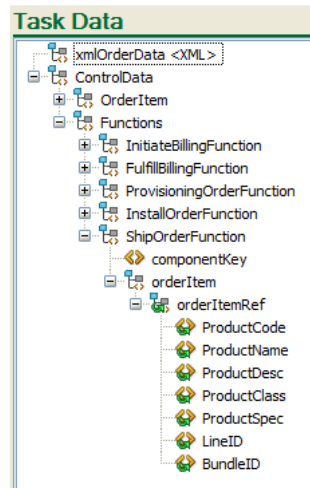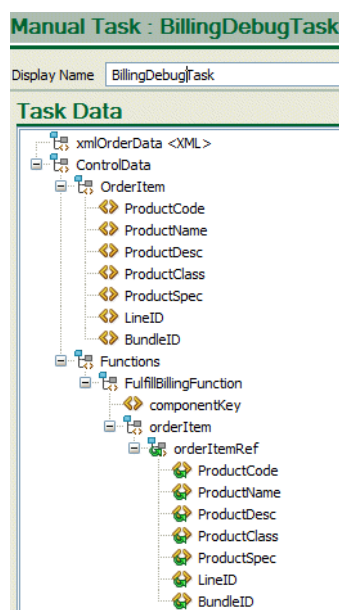
8. For each of the **debug** tasks that have been created, add the corresponding control data section to it.
   I.e for the task **BillingDebugTask**, you will add the

   - **ControlData/OrderItem** group
   - **ControlData/Functions/InitiateBillingFunction** group
   - **ControlData/Functions/FulfillBillingFunction** group
   - Add the **xmlOrderData** node

i.e.

This concludes the setup of the control data.

We have now completed **Lab** 9.

END OF LAB