

# OSM Orchestration Exercise

## Lab 5-1 - Define Product Specifications

Product Specifications define how the incoming products on the Order Lines will be decomposed.

They define the ‘**Order Components**’ that will be generated and the **dependencies** between them.

Note: Product Specifications only define the first stage of the decomposition process i.e. ‘**Functions**’. ‘**Decomposition Rules**’ are required to specify the ‘**SYSTEM**’ and ‘**GRANULARITY**’ components that will be created.

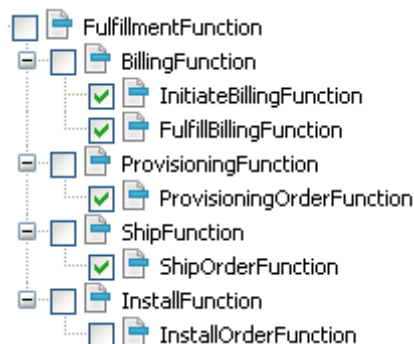
For the ‘Mobile’ Order Line item in the incoming order the following sequence of ‘**Order Components**’ needs to be generated.



1. To enable re-use of the Product Specifications, create a ‘**Product Specification**’

- Name : ‘**Base.Product.Spec**’
- Fulfillment Mode : ‘**ORDER**’ (Fulfillment Mode is set after the creation)
- Namespace : ‘**osm7Order1.com**’.

2. Under the ‘Orchestration Plan’ tab, ‘Order Components’ sub-page select the following Order items.



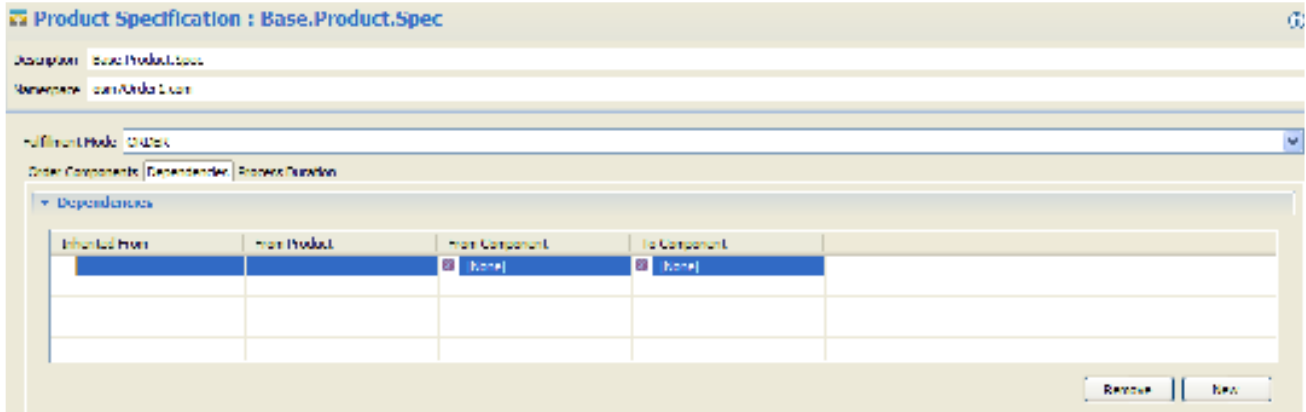
These Order Components will then be created during the decomposition process.

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We now need to create the dependencies so that they are sequenced in the order of the previous graphic.

- Under the '**Dependencies**' tab, create two new dependencies by selecting the Order Components in the lower part of the screen.



**\*\* Hint.** Click 'New' and then select 'From Order Component' and then 'To Order Component'.

From Order Component	To Order Component
ShipOrderFunction	FulfillBillingFunction
InitiateBillingFunction	ShipOrderFunction

We created a 'Base.Product.Spec' so that we can re-use this spec in other specs to save repeating the above dependencies in every other product spec.

This will create the following dependency graph



- Now create a '**Product Specification**'

- Name: **Mobile.Product.Spec**
- Fulfillment Mode: '**ORDER**'
- Namespace: '**osm7Order1.com**'.
- Extends: '**Base.Product.Spec**'.

- You do not need to select any additional Order Components as they are all defined in the base spec, however you do need to create additional Dependencies between Billing and Provisioning as shown below.

From Order Component	To Order Component
ProvisioningOrderFunction	FulfillBillingFunction

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**Product Specification : Mobile.Product.Spec**

Description: Mobile.Product.Spec  
Namespace: osm7Order1.com

Fulfillment Mode: ORDER

Order Components: Dependencies Process Duration

**Dependencies**

Inherited From	From Product	From Component	To Component
Base.Product.Spec		InitiateBillingFunction	ShipOrderFunction
Base.Product.Spec		ShipOrderFunction	FulfillBillingFunction
		ProvisioningOrderFunction	FulfillBillingFunction

**\*\* Note how the first two dependencies have been inherited from the base specification.**

From the base product specification we have inherited the base dependency mappings, and then override the specifics (dependencies) for Mobile services, resulting in



This concludes the creation of the Product Specifications. We will be returning later to create two further Product Specs when we enhance our cartridge.

**END OF LAB**