OSM Orchestration Exercise

Lab 13-1 - Adding Enhanced Granularity Rules

Up till now we have not done much configuration on granularity rules other than to create them. In lab 3-3 we created the following:

Folder	Order Component Spec.	Extends	Namespace
GRANULARITY	ProcessingGranularity		osm7Order1.com
GRANULARITY	OrderGranularity	ProcessingGranularity	osm7Order1.com
GRANULARITY	ItemGranularity	ProcessingGranularity	osm7Order1.com
GRANULARITY	BundleGranularity	ProcessingGranularity	osm7Order1.com

In this lab we will configure these granularity rules using **XQuery** to handle the **Bundle, Item and Order** granularity that is described below:

FUNCTION	GRANULARITY
InitiateBillingFunction	OrderGranularity
ShipOrderFunction	BundleGranularity
ProvisioningOrderFunction	ItemGranularity
InstallOrderFunction	BundleGranularity
FulfillBillingFunction	OrderGranularity

1. First we will modify the **ItemGranularity** '**Order Component Specification**'

   - Granularity is configured by providing an XQuery rule into the **Component ID** tab to define an **XQuery** expression that Oracle Communications Order and Service Management (OSM) evaluates against each order item in the order component.
   - OSM uses the resulting value to determine to which instance of the order component the order item will be assigned.
   - OSM groups all order components that share the same component ID in the same order component instance.

   Add the following XQuery code to the **Component ID** field

```
(:
The xquery expression returns the lineID (which must be unique) of an order
line.
Order lines with the same LineID value will be grouped together for
processing of order lines an item at a time.
:)
declare namespace
osm="http://xmlns.oracle.com/communications/ordermanagement/model";
declare namespace osm7dd="osm7Order1.com";

let $ans := osm:properties/osm7dd:LineID/text()

return
      $ans
```

   ** **Note:** All our examples have unique "lineID", if the line ID is not unique then the above rule will fail.

2. Next we will add the rule to the **BundleGranularity** rule

```
(:
The xquery expression returns the BundleID of an order line.
```

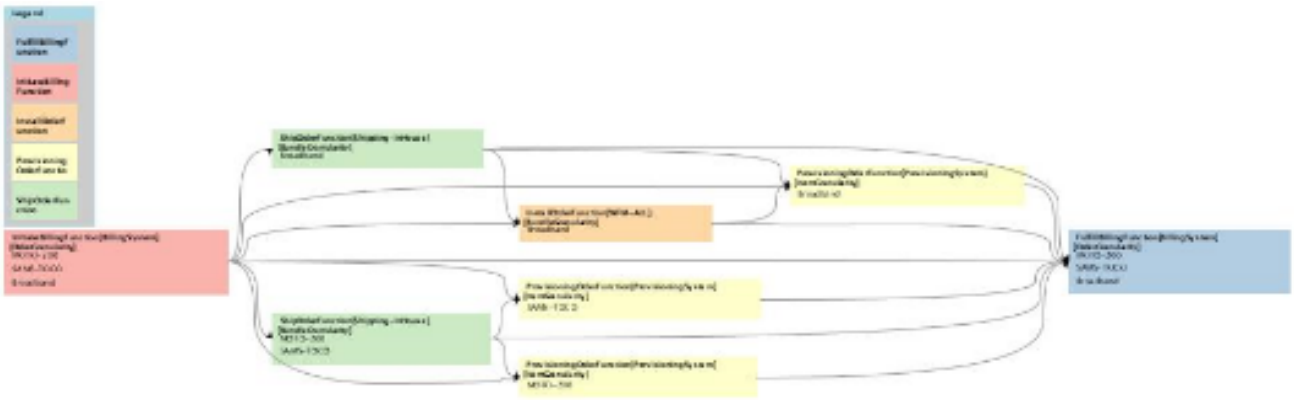
```
Order lines with the same BundleId value will be grouped together for
processing of order lines a bundle at a time.
:)
declare namespace
osm="http://xmlns.oracle.com/communications/ordermanagement/model";
declare namespace osm7dd="osm7Order1.com";

let $ans := osm:properties/osm7dd:BundleID/text()

return
   $ans
```

** **Note:** The bundle id must be set for all items that need to be grouped

** **Note:** There is no change required to the OrderGranularity rule

3. Run the Lab Example 'OSM7-DD-Lab11-3.xml'

If everything has been configured correct the dependency graph should look similar to:



If your orchestration plan looks similar to the above, you have successfully configured the granularity rules.

END OF LAB