


OSM Orchestration Exercise

Lab 1-0 - Create Base Orchestration Cartridge

In this lab we will create a new base cartridge to accept an incoming order. This new cartridge will then be updated in stages to form a fully function Central Order Management cartridge.



Unless otherwise specified the names of the entities should be used as described in **bold** during the exercise. If any name has **xxx** then you should replace this with you initials e.g. '**L3-DD-xxx**' becomes '**L3-DD-OSM**' (assuming my initials are OSM)

Assumptions:

-  You are familiar with the usage of Design Studio

Work through the following steps.

1. Create a new Order and Service Management Project called **L3-DD-xxx**, select 'Target Version' 7.0 and click 'Finish'—(ignore any java warnings).
2. Create a new Role called **osm7ddRole under the root folder**. Select all Permissions and save the changes.
3. Create a new 'Element', type 'String' in the Data Dictionary called **OrderId**.

-  Set minimum Cardinality to '0'
-  Set the String length to 20. (to be set after the element is created)

4. Now add the new '**OrderId**' element to the '**L3-DD-xxxOrder**' object in your cartridge.





-  While editing the order object, add your previously created **role** under the permissions tab.

5. Now create a new Order Lifecycle Policy called **OrderLifecyclePolicy**.

-  Ensure that only 'your' role is selected when moving through the wizard.





6. Open the newly created **OrderLifecyclePolicy** object

Add your role '**osm7ddRole**' to the following sections

-  **In Progress > Fail Order**
-  **Not Started > Fail Order**
-  **Suspended > Fail Order**
-  **Waiting for Revision > Fail Order**

Tip: Use the 'Add' button and leave the default name as 'Permission'

7. Now create 'two' manual tasks. When creating the tasks we will use Studio 'folders' (the folders will be automatically created by following the instructions below), the tasks will also be assigned to the **L3-DD-xxxOrder**.


1. Creation Task
 -  Name: **OrderCreationTask**.
 -  Folder: **ORDER**
2. Debug Task
 -  Name: **OrderDebugTask**.
 -  Folder: **PROCESS**

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*** Note: it is good practice to hit the save button after each change. You can always see what is not saved as there will be an '*' in front of the object name in the tab at the top of the page.

8. Edit each task in turn performing the following actions

1. Add the '**OrderId**' element to each task's 'Task Data'.
 **Tip:**—select from the Order template.
2. Add the previously created role '**osm7ddRole**' under the permissions tab
3. Remove all 'Statuses' except '**Next**' from the debug task
4. Remove all 'Statuses' from the creation task
5. Add the Status '**submit**' to the creation task using the 'Select' button.

Note: you can multi-select.

9. We now need to create a test 'Process' to run the debug task. Create a new 'standard' OSM process






 Name: **TestProcess**

 Folder: **PROCESS**.

1. Drag the task '**OrderDebugTask**' onto the canvas and 'add' an '**End**' activity.
2. Now link '**Start**' to the debug task with a '**Flow**'
3. Link the task '**OrderDebugTask**' to the 'End' object with a '**Next Flow**'.

*** Note some people prefer to use the standard 'Flow' for all joins and then right-click on the line and use the 'Status' option to select the correct transition.

10. Now that we have a creation task and process we can finish the configuration of the '**L3-DD-xxxOrder**' object.

1. Edit the '**L3-DD-xxxOrder**' object and under the 'Details' tab add the
 -  Lifecycle Policy : '**OrderLifecyclePolicy**'
 -  Default Process : '**TestProcess**'
 -  Creation Task : '**OrderCreationTask**'
 -  Under 'Permissions' check that the role '**osm7ddRole**' is set (set in step 4)
 -  On the 'Query Task' Tab, add your debug task as the main query task (ensure that Summary, Defaults and Detail are selected)..

*** Note: some people prefer to use the 'New....' option from the Order task to create the required entities.

11. Now build and deploy the new cartridge.

Create an environment project

1. From the Studio menu, select **New > Environment Project**
2. In the Name field, enter **Training_ENV**.
3. Click Finish
4. In the Cartridge view (on the left), select **Training_ENV**.

Create an environment

1. From the Studio menu, select **Studio > Show Environment Perspective**
2. Right-click 'New Studio Environment'.
3. In the Name field, enter **VM_ENV**.
4. Click Finish.

The Studio Environment editor opens (at the bottom).

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5. Modify the connection information to point at the ipaddress of your VM.
6. Save.

Connect to the OSM Server

1. In the Environment view, right-click '**VM_ENV**' and select Test Connection.
2. Enter the username and password provided by your instructor.
3. Click OK.

The system takes several seconds to connect to the OSM server. Then, in the Cartridge Management view, your cartridge is displayed in the list

Deploy the cartridge



1. Click Query.
2. Select your cartridge '**L3-DD-xxx**'
3. Click Deploy.
4. Click OK.

The deploy window appears. Wait until the deployment is completed and the window disappears. The cartridge is displayed with the "deployed" column checked.

12. Once the cartridge has been deployed you need to use the OSM Administrator to add the 'osm' user account to your new Role (Workgroup).

1. Start the Administrator .exe file and connect to your OSM instance using osm/osmadmin.
2. Select you cartridge and add the 'osm' user to your workgroup.
3. Refresh the cache and exit the Administrator.

13. Start the OSM Web Client in Internet Explorer (from your host machine—not the VM)

 **http://<ip assigned to the vm image>:7001/oms**
 **i.e http://192.168.100.10:7001/oms**

1. Validate that you have permission to create a new order in your cartridge i.e it is available under 'New Order'.
2. Create a new order, enter an order id and progress the order through to completion.

This is the end of **Lab 1** and you should now have a working base cartridge. If you have any problems, ask you instructor for assistance.

END OF LAB