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­­HANDS ON LAB  
Adobe Experience Manager Commerce Integration Framework

Omni Channel Experience

Student Workbook

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# Lesson 1 – Understand PIM (Product Information Management)

## Overview

|  |  |
| --- | --- |
| Task | Analyze and observe AEM Commerce PIM for WeTelco |
| Time | 10 minutes |
| Objective | Understand PIM with WeTelco example |

## Setup

1. Open terminal.
2. Navigate to **/Users/l322/Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel.** Execute following command

cd Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel

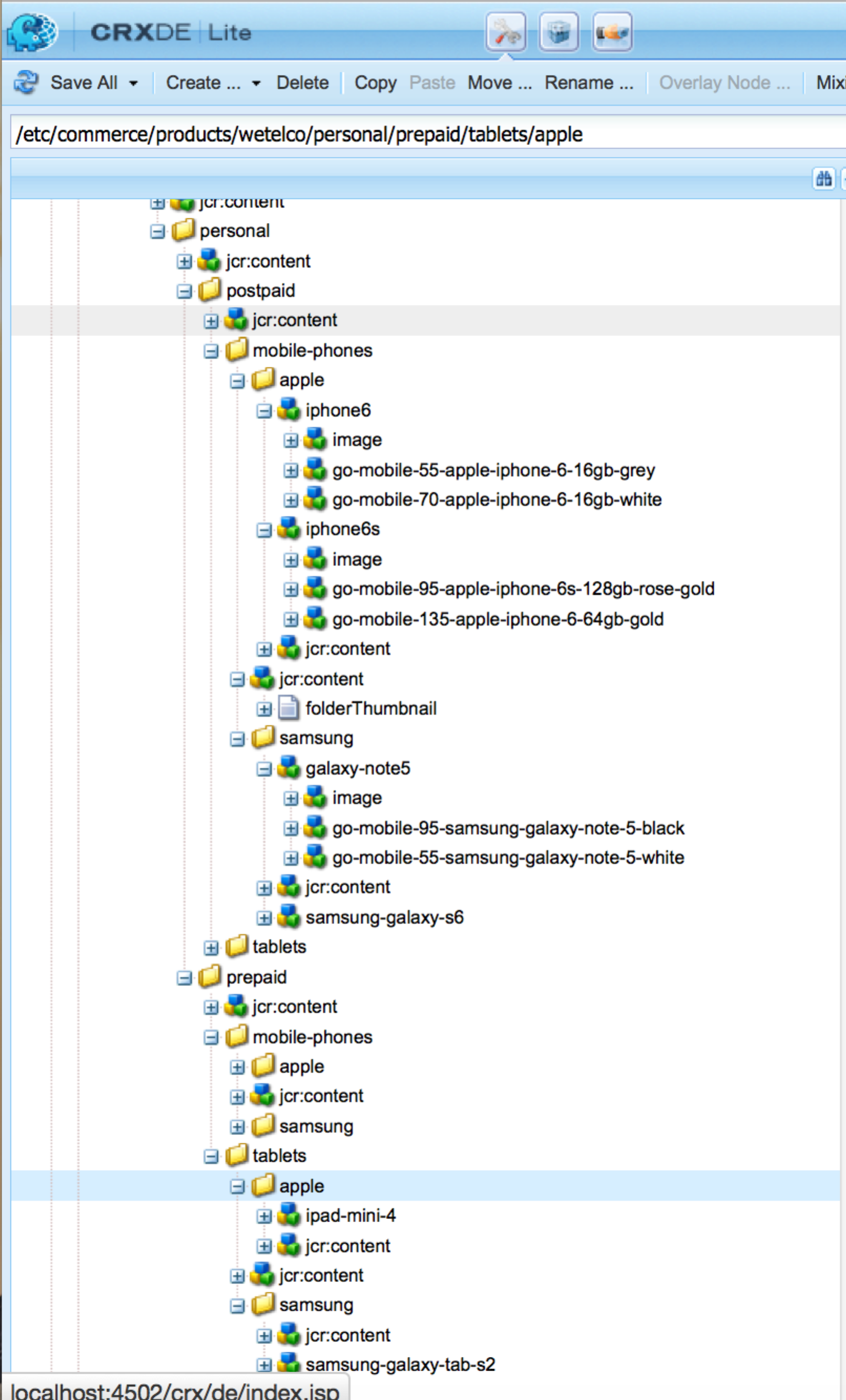
1. Execute following command (to switch to lab0, maven install package from lab0)

sh init.sh

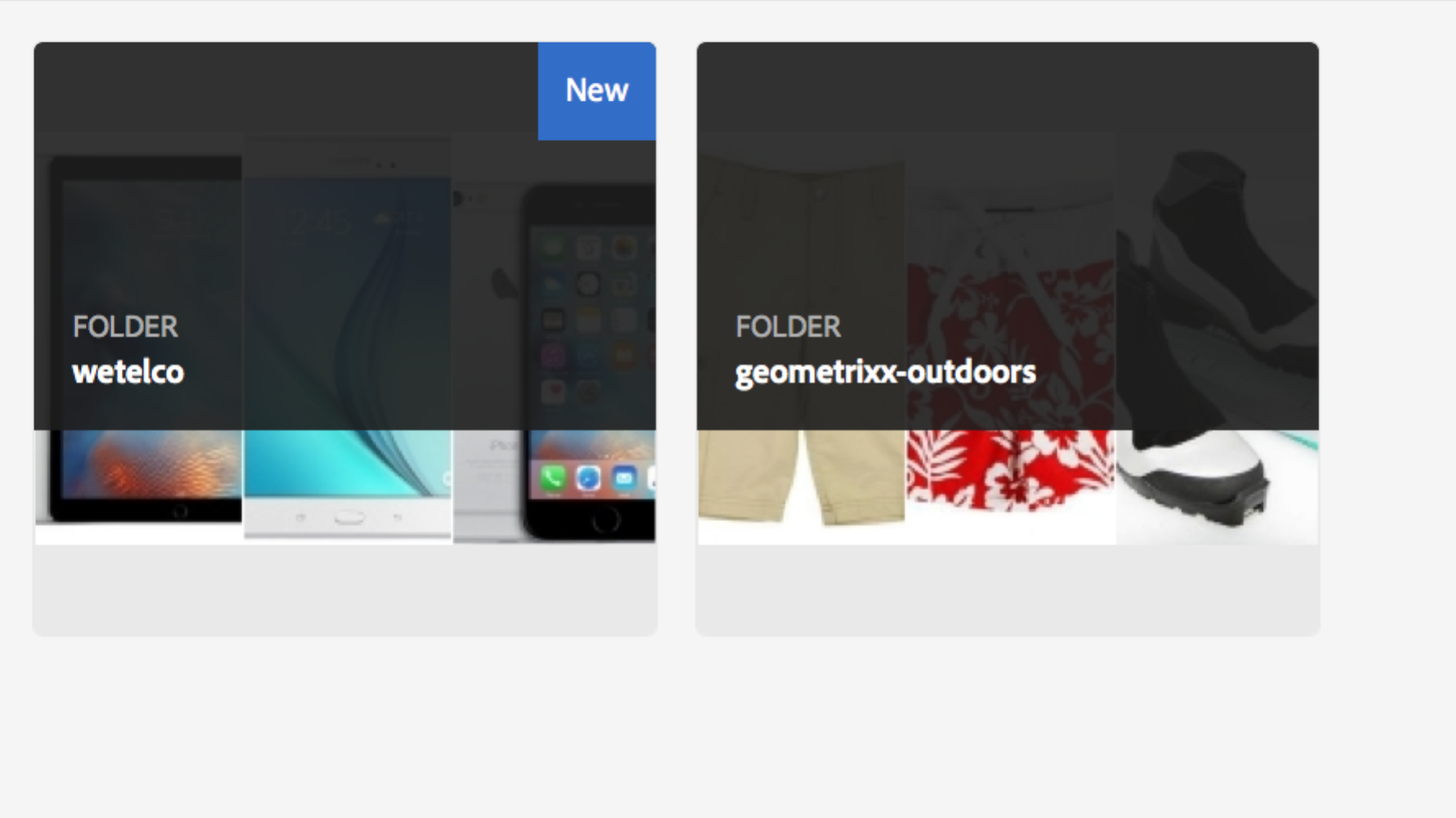
## Observations

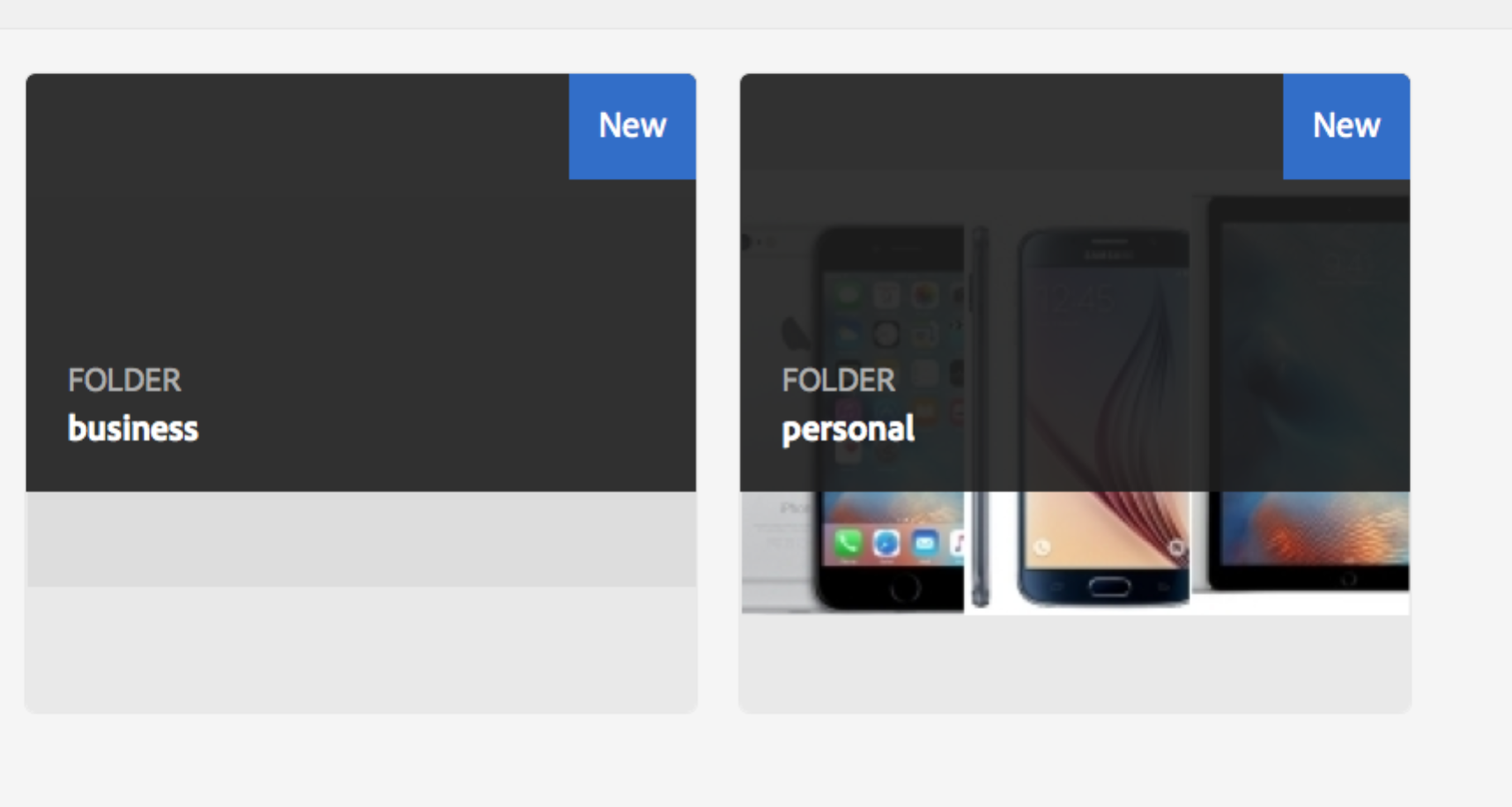
### Observation-1

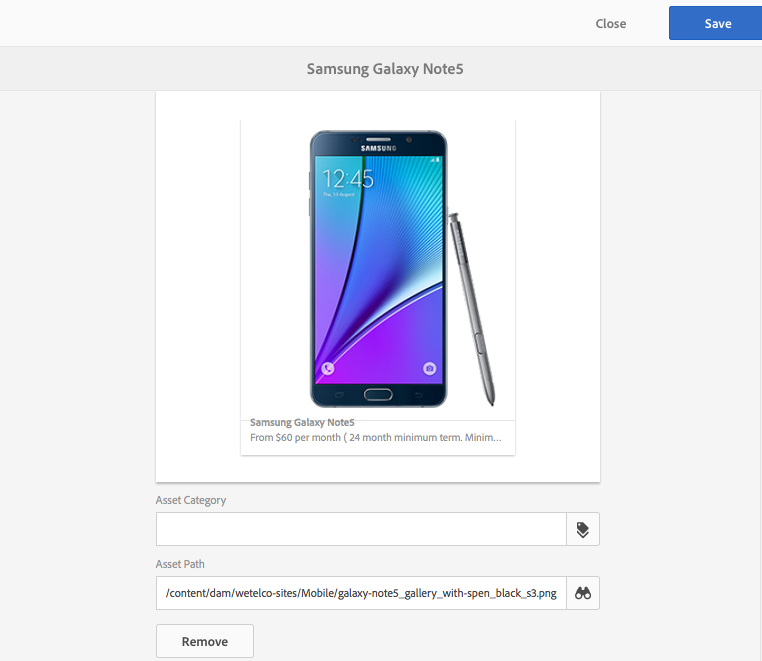
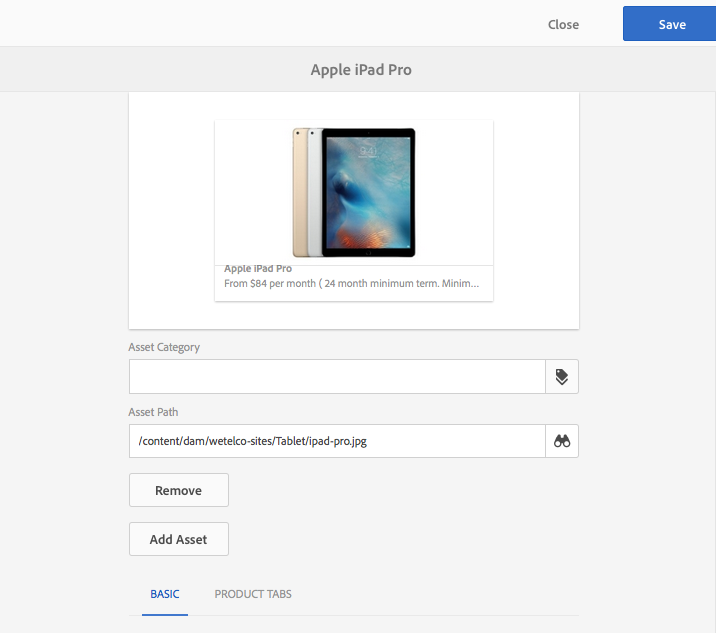
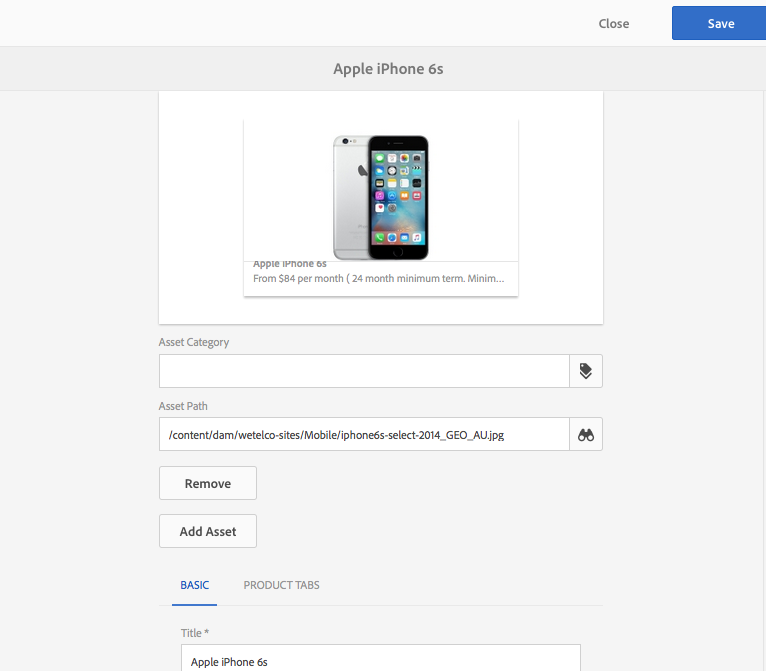
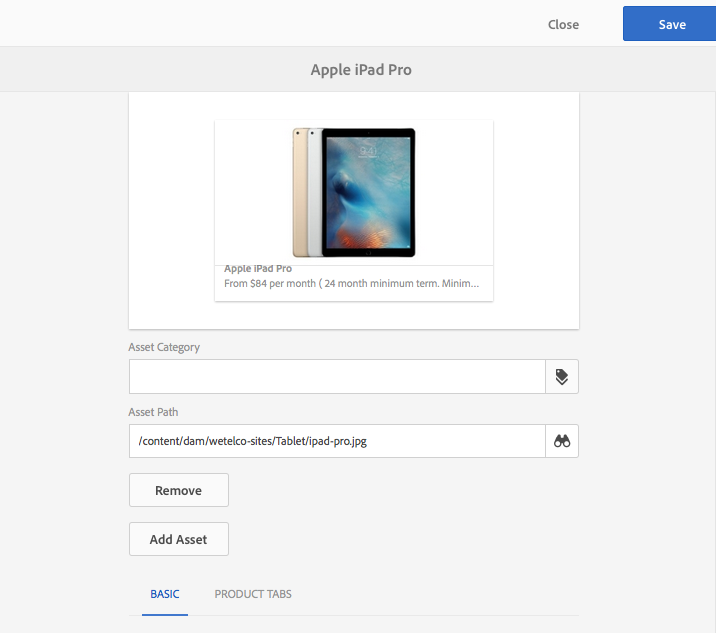
1. Navigate to <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco>



1. Take note of all the **categories** (reference to some below)
   1. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/business>
   2. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal>
   3. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid>
   4. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones>
   5. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/apple>
   6. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/samsung>
   7. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/prepaid>
2. Take note of all the **products** (reference to some below)
   1. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/apple/iphone6>
   2. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/apple/iphone6s> <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/samsung/galaxy-note5>
3. Take note of all the **variants** (reference to some below)
   1. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/apple/iphone6/go-mobile-55-apple-iphone-6-16gb-grey>
   2. <http://localhost:4502/crx/de/index.jsp#/etc/commerce/products/wetelco/personal/postpaid/mobile-phones/apple/iphone6/go-mobile-70-apple-iphone-6-16gb-white>
4. Please also note the properties of the products and variants.
5. Note the Commerce PIM imported from an external source at <http://localhost:4502/libs/commerce/gui/content/products.html/etc/commerce/products/wetelco>

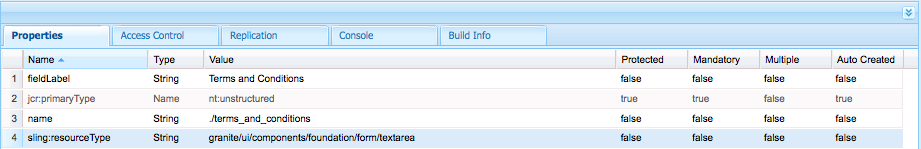






## Tasks

1. Go to <http://localhost:4502/crx/de/index.jsp#/etc/scaffolding/wetelco/product/jcr%3Acontent/cq%3Adialog/content/items/columns/items/column2/items/tabs/items/basic/items/titles/items>
2. Copy Node from CRXDE /etc/scaffolding/wetelco/product/jcr:content/cq:dialog/content/items/columns/items/column2/items/tabs/items/basic/items/titles/items/description
3. Paste Node copied to /etc/scaffolding/wetelco/product/jcr:content/cq:dialog/content/items/columns/items/column2/items/tabs/items/basic/items/titles/items/
4. Rename the newly copied node to terms-and-conditions.
5. Press SaveAll
6. Click on Node /etc/scaffolding/wetelco/product/jcr:content/cq:dialog/content/items/columns/items/column2/items/tabs/items/basic/items/titles
7. Press Referesh
8. Click on Node /etc/scaffolding/wetelco/product/jcr:content/cq:dialog/content/items/columns/items/column2/items/tabs/items/basic/items/titles/items/terms-and-conditions
9. Enrich the newly copied node with following properties
   1. **fieldLabel**: Terms and Conditions
   2. **name**: .terms\_and\_conditions
   3. **sling:resourceType**: granite/ui/components/foundation/form/textarea
   4. Right click and delete property **renderReadOnly**

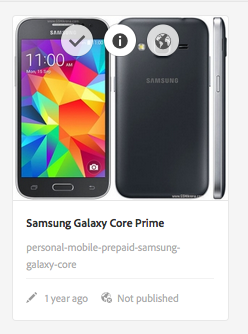


1. Press SaveAll

## Observations

### Observation 2

1. Navigate to <http://localhost:4502/libs/commerce/gui/content/products.html/etc/commerce/products/wetelco/personal/prepaid/mobile-phones/samsung>
2. Now click on **View Product Data** icon



1. You will now notice that a new field is created to enter terms and conditions.

## Solution

1. In Terminal make sure you are under **/Users/l322/Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel** and Execute following command

sh lab1-solution.sh

# Lesson 2 – AEM Commerce Integration Framework – Catalog Management

## Overview

|  |  |
| --- | --- |
| Task | Understand catalog management in AEM CIF |
| Time | 20 minutes |
|  |  |

## Setup

1. **Optional (If not already in Terminal):** Open terminal (if not already open)
2. **Optional (If not already in directory mentioned):** Navigate to **/Users/l322/Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel.** Execute following command

cd Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel

1. Execute following command (to switch to lab2 branch in GitHub)

sh switch.sh

1. Execute following command (to switch to install lab2 material on AEM6.2)

sh init.sh

## Observations

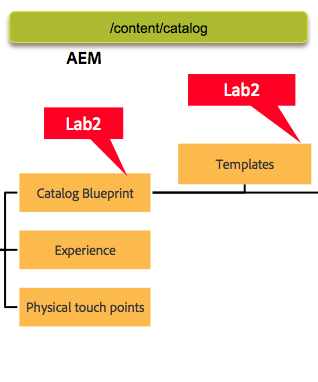
### Observation 1: WeTelco Site Structure setup and templates

1. Go to <http://localhost:4502/editor.html/content/wetelco-sites/en/personal.html> . Observer how the website looks and feels (in Edit and Preview mode in AEM Author).

|  |
| --- |
| **Notice the following** |
| 1. Site structure as Business, Personal as top sections. |
| 1. Shop is empty at the moment. |
| 1. Website is responsive. |

1. Go to <http://localhost:4502/aem/catalogs.html/content/catalogs>
2. Navigate to
   1. WeTelco > English
3. Observe the following

|  |  |
| --- | --- |
| **Folder** | **Comments** |
| WeTelco Sites Template Pages | **Template pages which constitute the page used for Blueprints created in Catalog.** |
| WeTelco Sites AEM Base Catalog | **The Catalog Blueprint setup used for setting up how the rollout pages will look like** |

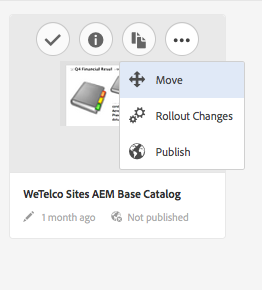
**Snapshot from Presentation and what this represents.**

1. Navigate into WeTelco Sites Template Pages (<http://localhost:4502/aem/catalogs.html/content/catalogs/wetelco/en/aem-sites-template-pages> ) and note the following. Also navigate into the properties to notice where the location of the template pages come from.

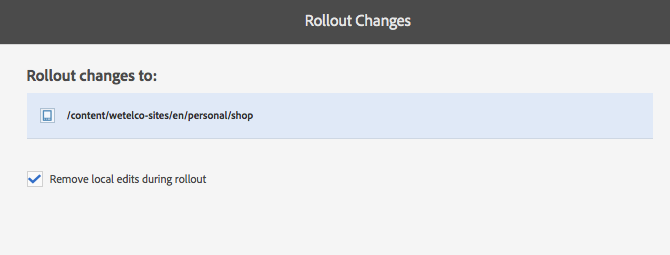
|  |  |  |
| --- | --- | --- |
| Folder | Comments | Template Reference in WeTelco |
| Catalog Page Template | Template used for the top level catalog page – Example: Shop | wetelco-sites/components/structure/landingpage |
| Section Page Template | Template used for category section of the page – Example: Tables, Mobiles pages. | /apps/wetelco-sites/templates/categorypage |
| Product Page Template | Template used for product pages. Example: iPhone 5S | /apps/wetelco-sites/templates/productpage |

## Tasks

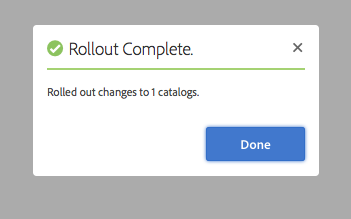
1. Go to <http://localhost:4502/aem/catalogs.html/content/catalogs/wetelco/en>
2. Hover over **WeTelco Sites AEM Base Catalog, click on More Actions represented by circle with (…)** and select **Rollout Changes**.



1. On next page for Rollout Changes, select **Remove Local edits during rollout**



1. Press Rollout Changes.
2. Now you will get a prompt saying rollout complete. This completes the rollout of the blueprint using product catalog to specific location in /content/wetelco/en/personal/shop location



1. View the rolled out pages here - <http://localhost:4502/crx/de/index.jsp#/content/wetelco-sites/en/personal/shop> (which was previously empty)

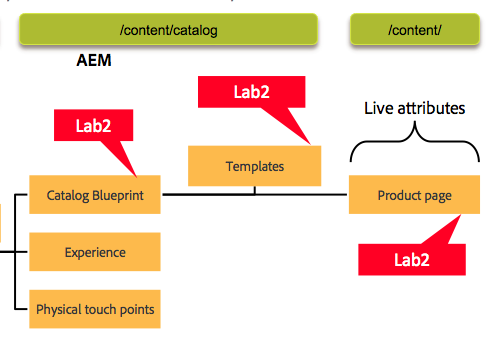


Figure : Checkpoint

## 2 – Observations

### Observation 2: WeTelco Shop

1. Click on <http://localhost:4502/editor.html/content/wetelco-sites/en/personal/shop.html> .
2. We can see shop and rolled out pages. But, the devices are missing!!! ☹

## Advanced Tasks: Setting up WeTelco Commerce Entry Point – Using Commerce API

**INFO: This task is advanced, will involve some code and solution will be provided at end of task if you are unable to complete task. To skip in terminal enter following**

**sh lab2-solution.sh**

1. **Optional (If not already in Terminal):** Open terminal (if not already open)
2. **Optional (If not already in directory mentioned):** Navigate to **/Users/l322/Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel.** Execute following command

cd Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel

1. Execute following command (to switch to **lab2-task2** branch in GitHub)

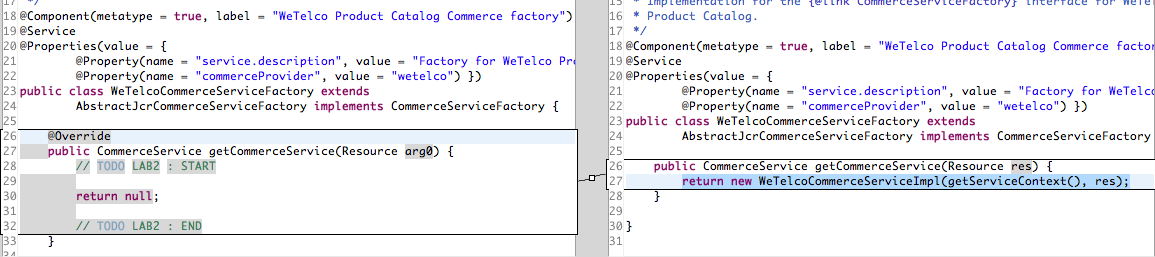
sh switch.sh

1. Go into Eclipse
2. Navigate to and open WeTelcoCommerceServiceFactory (Hot Key in Eclipse Command + Shift + R)
3. Replace any section between // **TODO** LAB2 : START and // **TODO** LAB2 : END

with

**return** **new** WeTelcoCommerceServiceImpl(getServiceContext(), res);

Figure below indicates how the change should reflect.



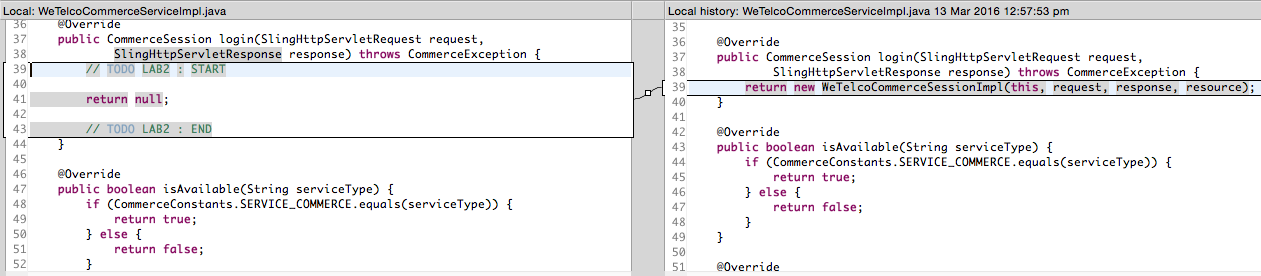
The above step has just introduced a entry point for WeTelco commerce provider used for this demo.

1. Navigate to and open WeTelcoCommerceServiceImpl (Hot Key in Eclipse Command + Shift + R)
2. Replace any section between // **TODO** LAB2 : START and // **TODO** LAB2 : END

with

**return** **new** WeTelcoCommerceSessionImpl(**this**, request, response, resource);

Figure below indicates how the change should reflect.

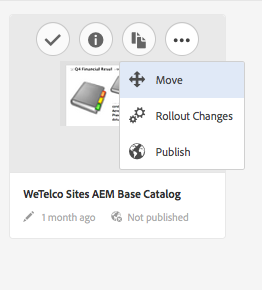


The above step has just introduced a entry point for WeTelco commerce provider used for this demo.

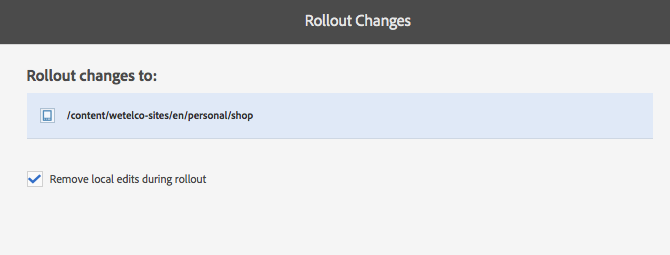
1. Go to Terminal
2. Execute following command (to switch to **deploy change to local AEM**)

sh init.sh

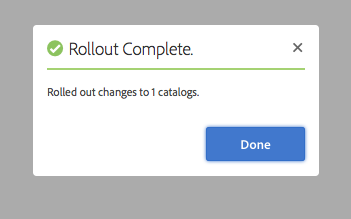
1. Go to <http://localhost:4502/aem/catalogs.html/content/catalogs/wetelco/en>
2. Hover over **WeTelco Sites AEM Base Catalog, click on More Actions represented by circle with (…)** and select **Rollout Changes**.



1. On next page for Rollout Changes, select **Remove Local edits during rollout**



1. Press Rollout Changes.
2. Now you will get a prompt saying rollout complete. This completes the rollout of the blueprint using product catalog to specific location in /content/wetelco/en/personal/shop location



1. View the rolled out pages here - <http://localhost:4502/crx/de/index.jsp#/content/wetelco-sites/en/personal/shop> (which was previously empty)

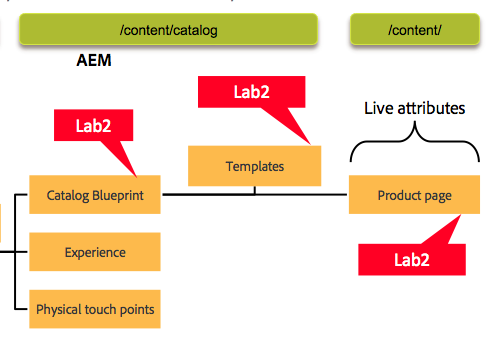
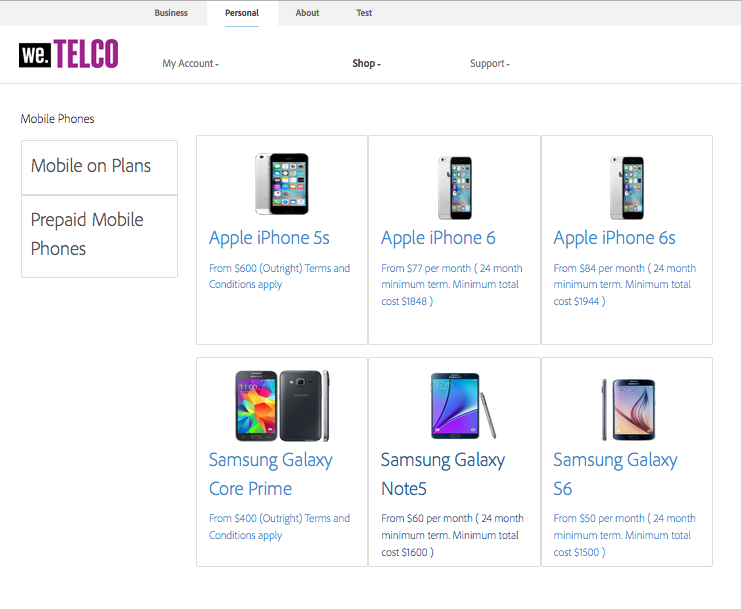


Figure 2 : Checkpoint

## Observations

### Observation 2: WeTelco Shop is full populated with all the devices

1. Go to <http://localhost:4502/content/wetelco-sites/en/personal/shop/mobile-phones.html>
2. You can now see all the devices rolled out and appearing



## Solution

1. In Terminal make sure you are under **/Users/l322/Desktop/AEM-Commerce-Lab-WS/aem-commerce-omni-channel** and Execute following command

sh lab2-solution.sh

# Lesson 2 – AEM Commerce Page Rollout Mechanism Management

## Overview

|  |  |
| --- | --- |
| Task |  |
| Time | 30 minutes |
|  |  |

## Setup

## Observations

## Task

## Summary

Extra time:

# Lesson 3 – Leverage AEM CIF for AEM Mobile On Demand

## 

## Overview

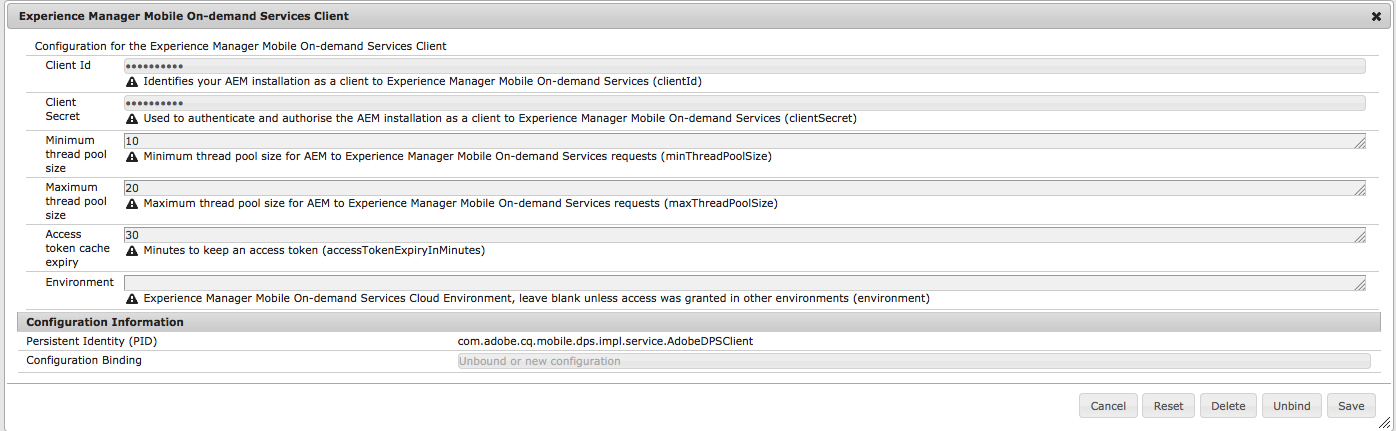
|  |  |
| --- | --- |
| Task |  |
| Time | 30 minutes |
|  |  |

## Setup

### SETUP AEM Mobile on Demand Publishing Solution Client:

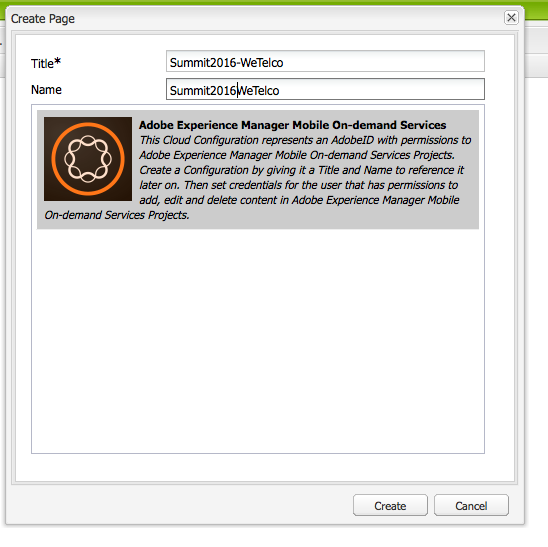
In your AEM instance, go to Tools > Web Console. A new tab or window is opened.

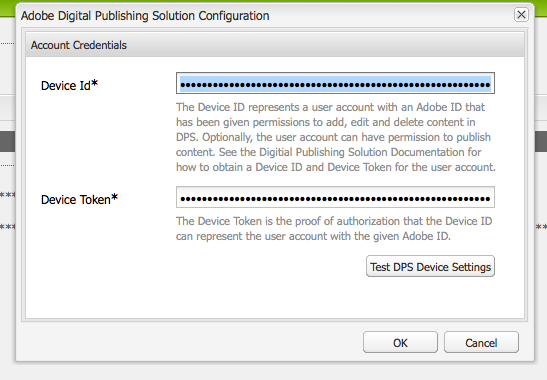
* + Scroll down to “Adobe Digital Publishing Solution Client” and click the edit icon (pencil).
  + Enter the IMS Client ID and Client Secret in the “DPS Client Id” and “DPS Client Secret” fields and click Save. You can then close the Web Console tab or window.



### Back on Main AEM page, go to Tools > Operations > Cloud > Cloud Services.

* + Scroll down to “Adobe Experience Manager mobile On-demand Services” (green icon, under “Adobe Creative Cloud”).
  + Click “Configure Now.”
  + In the “Create Configuration” pop-up window, enter a Title and Name, and click Create (Name should have no spaces).
  + In the Adobe Digital Publishing Solution Configuration pop-up window, enter the Device Id and Device Token from the IMS Device Token Generator used earlier.
  + Click “Test DPS Settings” to check this.
  + Click OK, and then navigate back to the Main AEM window.





## Observations

## Task

## Summary

# Lesson 4 – Leverage AEM CIF for AEM Screens

## Overview

|  |  |
| --- | --- |
| Task |  |
| Time | 30 minutes |
|  |  |

## Setup

## Observations

## Task

## Summary

# References

## Create your sample maven multi module project - <https://github.com/Adobe-Marketing-Cloud/aem-project-archetype>

<https://helpx.adobe.com/digital-publishing-solution/how-to/get-started-digital-publishing.html?set=digital-publishing-solution--get-started--ready-to-use>