Styla – Oracle Commerce Cloud Integration Guide

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Version: 0.5

Status: issued for approval

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Revision History

Version Number	Who	Revision Date	Summary of Changes	Changes marked
0.1	Aleksander Yanchin	January 2020	First draft	n/a
0.2	Aleksander Yanchin	26 January 2020	Executive Summary/Business Background	n/a
0.3	Aleksander Yanchin	26 January 2020	Adding Appendix A - Glossary	n/a
0.4	Aleksandr Yanchin	10 February 2020	Adding Styla Integration to OCC Implementation (Revision)	n/a
0.5	Aleksandr Yanchin	10 February 2020	Final Draft	n/a

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References

No.	Title	Document Name	Date	

BA Peer Review

Name	Title	Reviewer Status	Date Reviewed

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1 Introduction

1.1 Business background

1.1.1 Overview

Styla offers a Content Experience Engine that automatically designs content in real-time. In contrast to pure commerce platforms, Styla merges content and commerce into a unified experience. Content and Shop are not longer independent from each other and become one.

Styla is seamless integrated with all major commerce platforms.

This document describes the basic integration with Oracle's Commerce Cloud Platform (hereinafter referred to as OCC).

Oracle Commerce Cloud have a widget and server-side extensions concept. We will talk about this in more depth in the following section.

1.1.2 Flexibility in Integration

Commerce Cloud was built from the ground-up with an API-first architecture and a complete REST web services framework for agile, standards-based development and simplified integrations.

1. **API-first:** All functionality is accessible through easy-to-use REST web services. Oracle-built, partner-built and customer-built storefront and applications all use the same APIs. And the API documentation is publicly available.
2. **Standards-based, flexible:** There is nothing proprietary about working with Oracle Commerce Cloud. Commerce Cloud leverages standards-based skills, allowing for fast development and scalability. The storefront is built in HTML5, CSS3, JavaScript, and NodeJS. Extensions can be built client-side and server-side depending on the requirement.
3. **Simplified integrations:** The API and Webhooks framework allow for faster, cheaper, less complex integrations to Oracle, third party, and homegrown solutions. Additionally, Commerce Cloud features an adapter for Oracle Integration Cloud Service (ICS) for 'drag-and-drop' integrations and data mapping between Oracle and third-party applications. Another benefit is being able to leverage the Oracle Cloud Marketplace to access pre-built extensions and connectors with various technology partners to reduce costs and accelerate integrations.

1.2 Scope

1.2.1 In scope

The objective is basic integration between Oracle Commerce and Styla.

1. The Oracle Commerce REST API is extended with some endpoints who deliver JSON responses for the following endpoints:
    a. Categories Endpoint
    b. Search Endpoint

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c. Product Details Endpoint

2. The integration contains sample code for two parts of integration:
   a. The widget part does injection of javascript files based on customer account from Styla and initialize callbacks for integration.
   b. The server-side extension provide a layer of JSON responses from OCC which transforms to JSON responses for Styla response and available on specific REST API endpoints.

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2 Solution Design

2.1 Assumptions

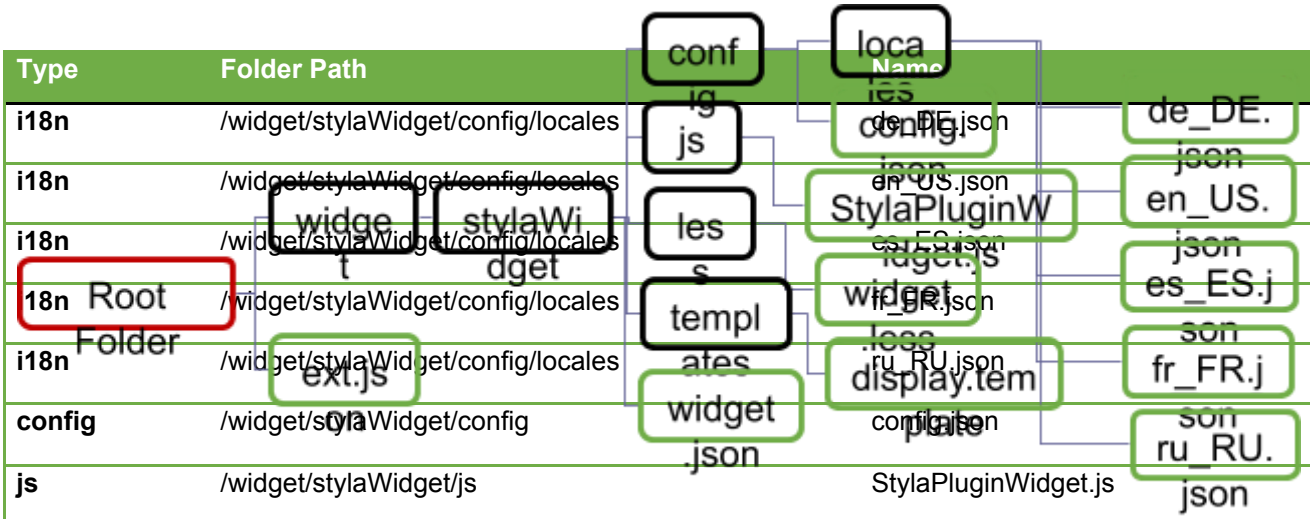
1. The REST Endpoints are based on standard OCC configurations, such as product catalog item definitions.
2. Not all product attributes which are required in Styla are available in standard OCC. Those attributes can be added to OCC via standard REST API endpoints. The assumption is that those will be added later and based on the custom catalog of the target customers.
3. The integration can be extended based on target client needs and should be seen as a starting point for a Styla integration.
4. As new target customers and requirements are identified, the integration will be enhanced and can become a more complex solution.
5. No multisite is needed for the basic integration with Styla.

2.2 Integration Components

The basic Styla integration consists of the following sources:

Complete integration with Styla contains two ZIP files.

The **StylaPluginWidget.zip** contains a widget with callbacks and initial code for Styla CMS functionality.



Type	Folder Path	Name
i18n	/widget/stylaWidget/config/locales	de_DE.json
i18n	/widget/stylaWidget/config/locales	en_US.json
i18n	/widget/stylaWidget/config/locales	es_ES.json
i18n	/widget/stylaWidget/config/locales	fr_FR.json
i18n	/widget/stylaWidget/config/locales	ru_RU.json
config	/widget/stylaWidget/config	config.json
js	/widget/stylaWidget/js	StylaPluginWidget.js
less	/widget/stylaWidget/less	widget.less
template	/widget/stylaWidget/templates	display.template
config	/widget/stylaWidget	widget.json
config	/	ext.json

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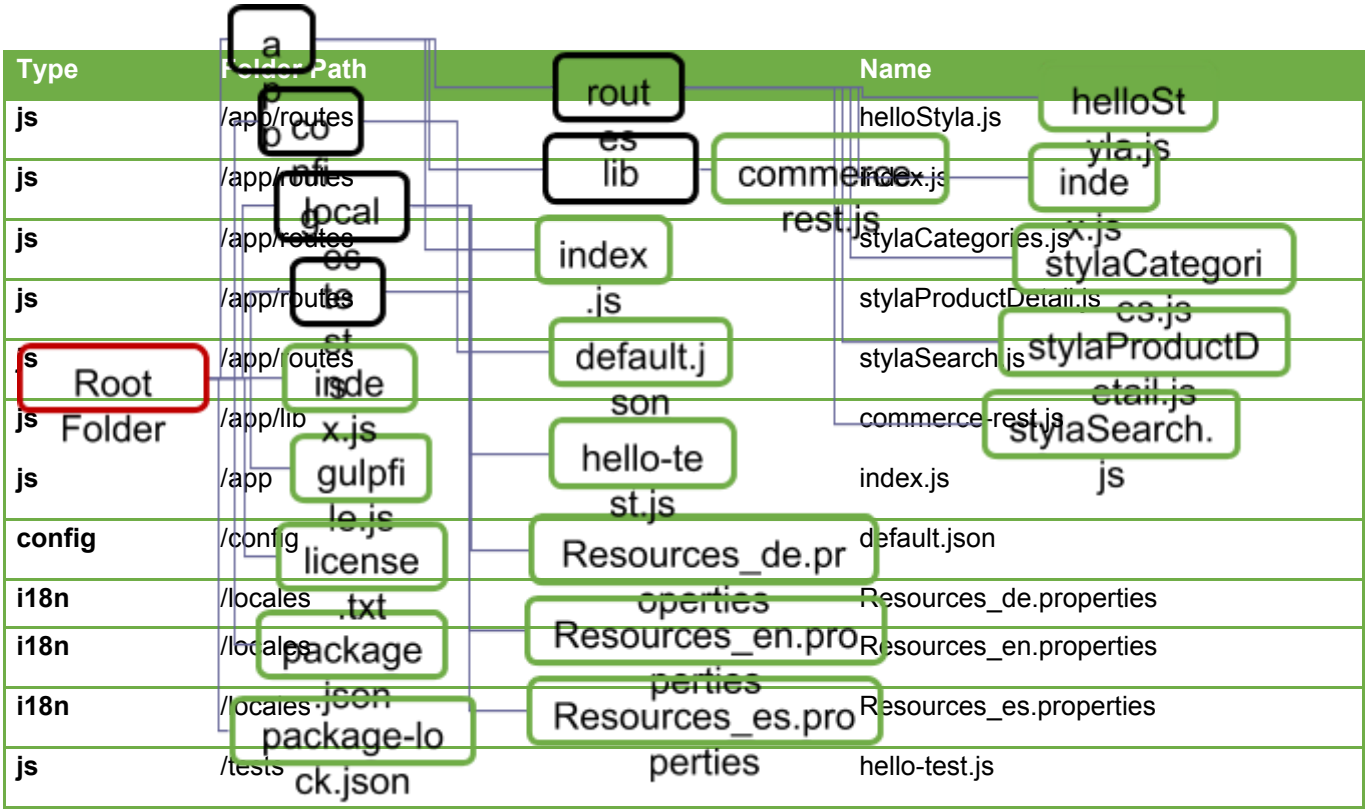
The **StylaEndpoints.zip** contains a server-side extension (SSE) which provides REST API endpoints for Styla connections.



Type	Folder Path	Name
js	/app/routes	helloStyla.js
js	/app/routes	index.js
js	/app/routes	stylaCategories.js
js	/app/routes	stylaProductDetail.js
js	/app/routes	stylaSearch.js
js	/app/lib	commerce-rest.js
js	/app	index.js
config	/config	default.json
i18n	/locales	Resources_de.properties
i18n	/locales	Resources_en.properties
i18n	/locales	Resources_es.properties
js	/tests	hello-test.js
js	/	index.js
js	/	gulpfile.js
txt	/	license.txt
config	/	package.json
config	/	package-lock.json

2.3 Adding Styla Integration to OCC Implementation

As it mentioned above this integration contains two parts. The widget part **StylaPluginWidget.zip** should be uploaded as like any widget for OCC. Here below you can find some simple steps how to do it:

1. As the first step, we will generate new extension id for our widget. Login into your Sandbox environment.
2. Go to **Settings**:

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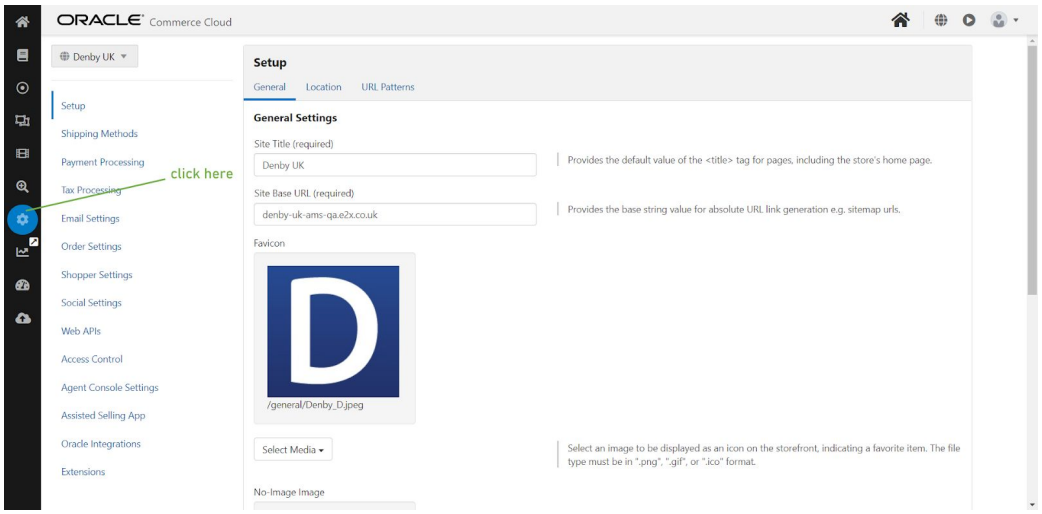
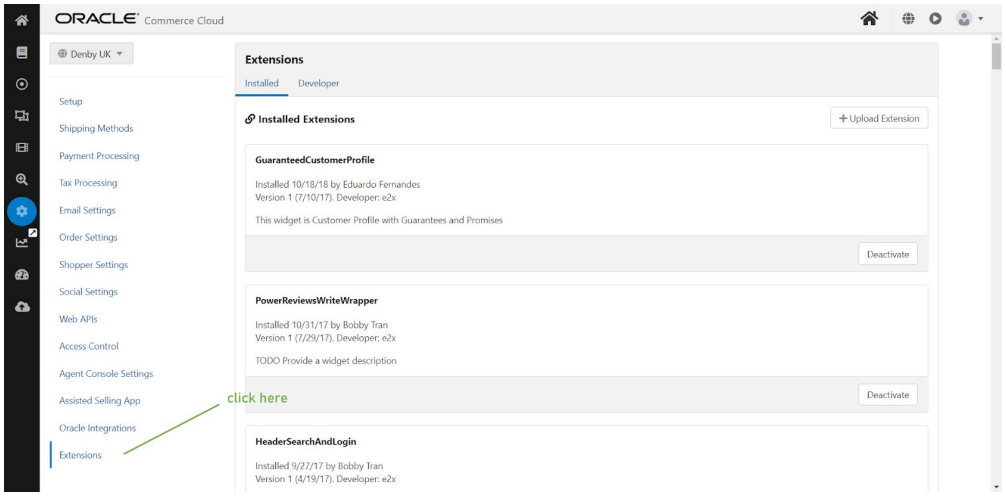
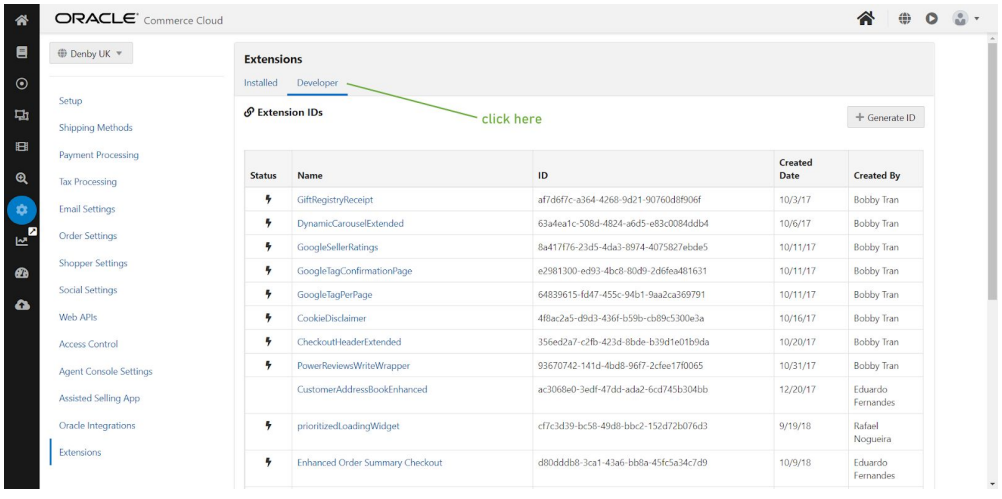


3. Go to **Extensions**:



4. Go to **Developer**:



5. Copy and paste the name of your widget:

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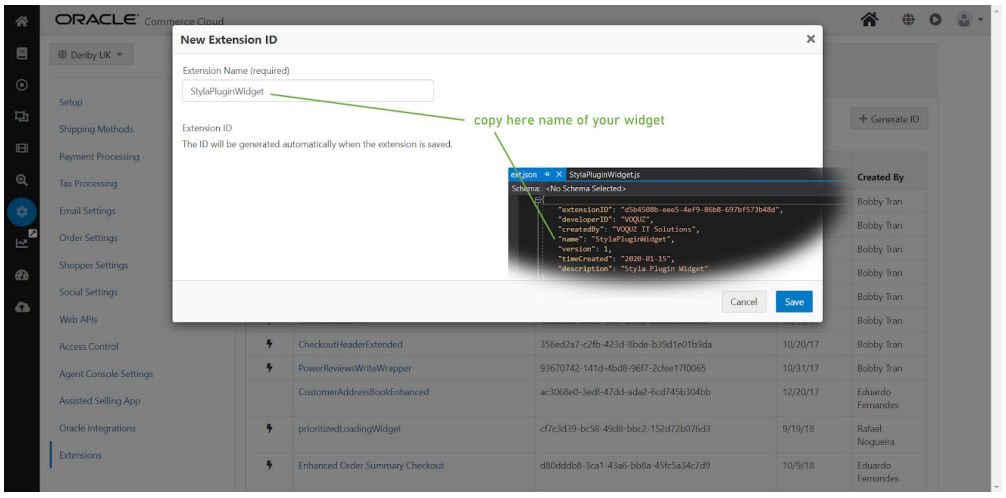
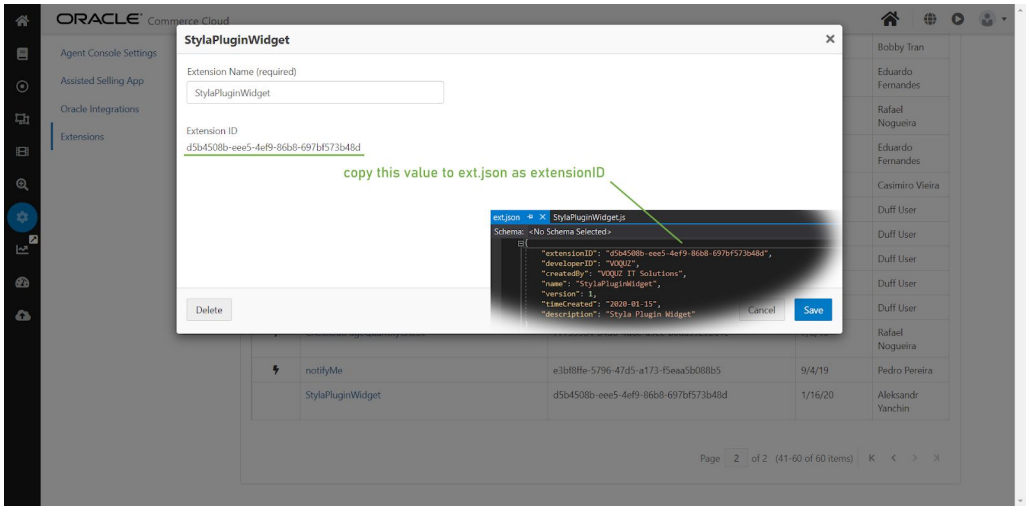
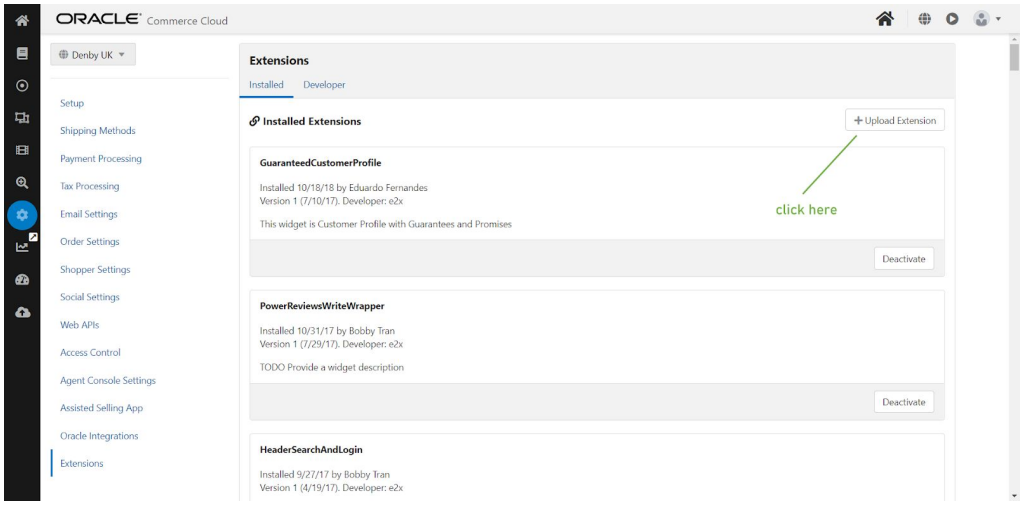


6. Copy generated **“extensionID”** to **ext.json**



7. Click on the button **“Upload Extension”**



8. Then you can see your widget in the list of installed widgets

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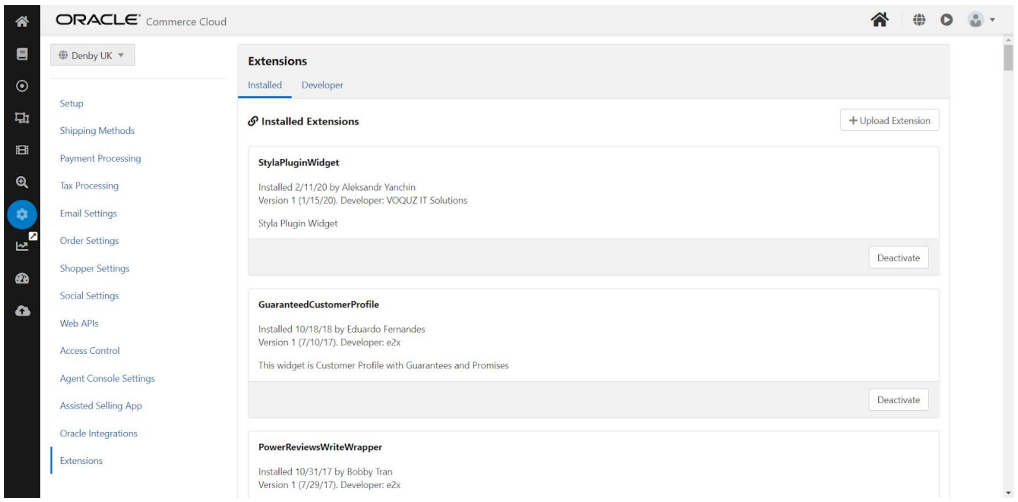
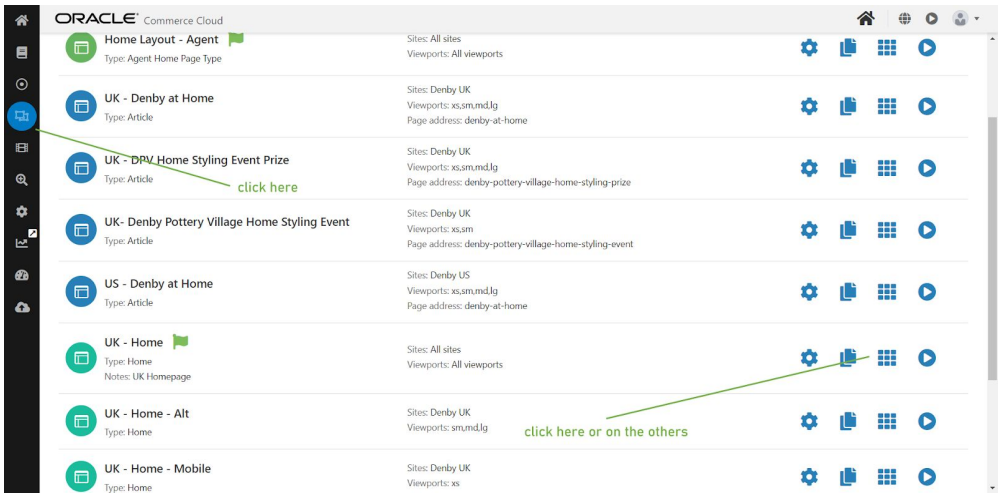
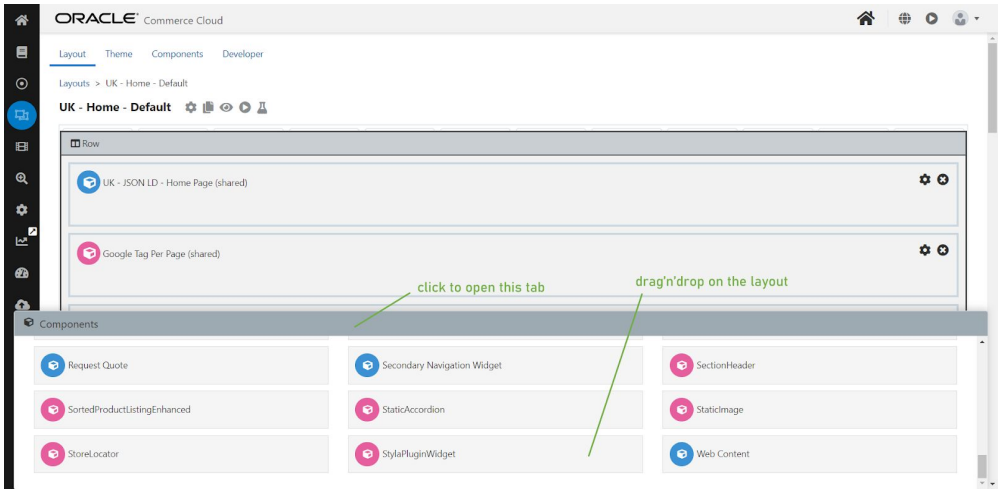


9. Go to **Design**:



10. Open the **"Components"** tab and put your widget on the page



11. Create new instance for the widget

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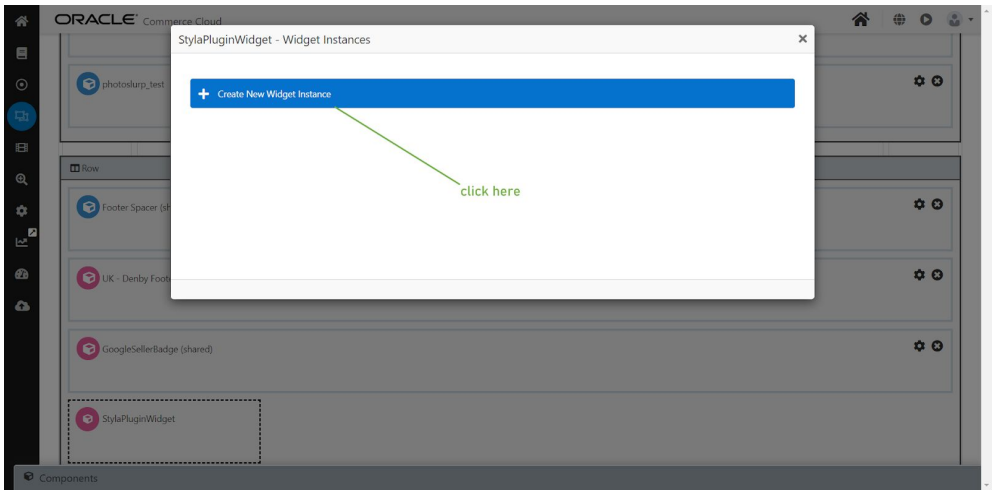
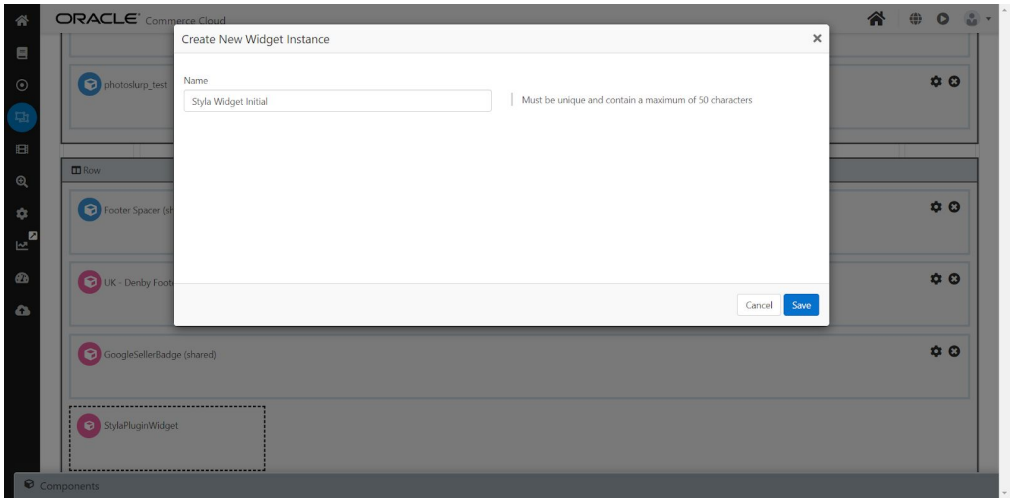
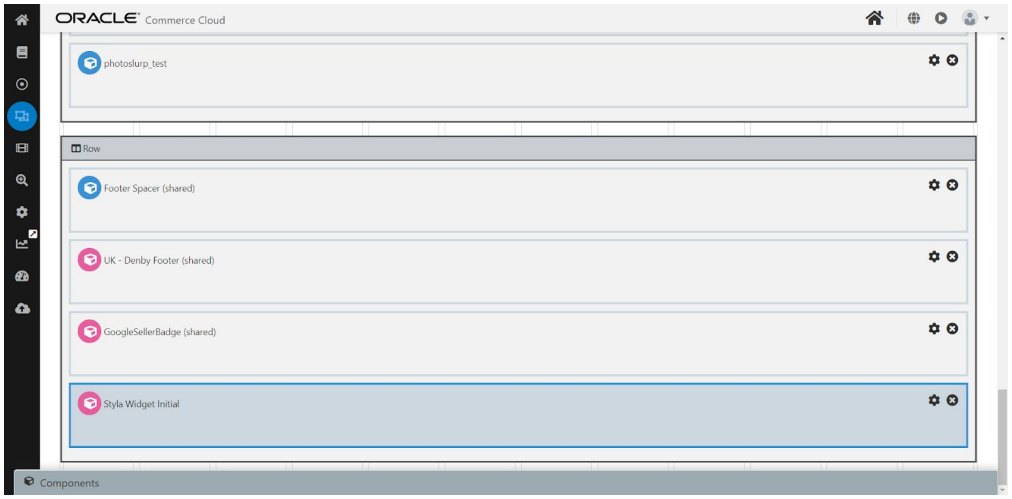


12. Define the name for the instance of widget



13. Now you're ready to configure this instance of widget to the content from Styla. Click on the gear icon which is inside the area of your widget.



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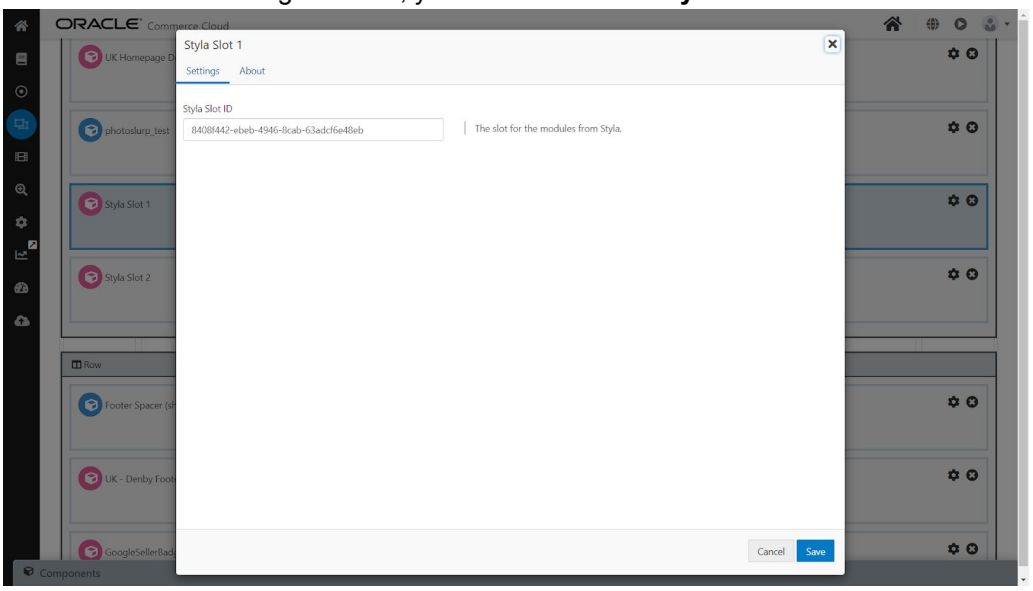
14. In order to use widget as slot, you have to define **"Styla Slot ID"**.



15. If you're done all steps properly, you should see the content from Styla on your layout.

The SSE part **StylaEndpoints.zip** should be uploaded via REST API from OCC. In order to upload server-side extension you should use POST. For the details you can have a look in Oracle Commerce Cloud Swagger, link https://docs.oracle.com/en/cloud/saas/commerce-cloud/cxocc/op-ccadmin-v1-serverextensions-get.html.

After that you'll be able to reach these endpoints below:

https://ccadmin-prod-zb1a.oracleoutsourcing.com/ccstorex/custom/v1/stylaCategories

https://ccadmin-prod-zb1a.oracleoutsourcing.com/ccstorex/custom/v1/stylaSearch

https://ccadmin-prod-zb1a.oracleoutsourcing.com/ccstorex/custom/v1/stylaProductDetail?id=342010009

2.4 Configuration

After when you placed the widget **"StylaPluginWidget"** on the page layout you have to define the Styla account name in that. In order to define this value for widget go to **Design**, find your page layout where you

POST

Content-Type: multipart/form-data

Authorization: Bearer ${AUTH_TOKEN}

Body:

- fileUpload: file
- filename: string
- force: Boolean (default: true)
- uploadType: string (default: extensions)

https://ccadmin-prod-zb1a.oracleoutsourcing.com/ccadmin/v1/serverExtensions

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have placed this widget. On the widget instance click on the gear icon and set **Styla User Account URL** on yours. Click save and widget ready to use.

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APPENDIX A:

OCC	Oracle Commerce Cloud is a fully featured, extensible SaaS commerce solution, supporting B2C and B2B ecommerce models in a unified platform. Oracle Commerce Cloud grants greater agility and cost savings with the extensibility and control required in the ultra-competitive digital commerce market.
Widget	Prebuilt, modular components.
SSE	The Server-Side Extensions using for extending backend functionality in your OCC instance.

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APPENDIX B:

*** ***end of document*** ***

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