

Oracle® Banking Originations Cloud Service

Retail Lending Integration Guide



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Preface

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

Purpose

This guide is to help with Integration of Oracle Banking Originations Cloud Service with Oracle Banking Retail Lending (OBRL) module acting as the backend Product Processor.

Audience

This guide is intended for the Implementation and IT Staff to implement and maintain the software.

Documentation Accessibility

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Oracle Banking Retail Lending Servicing

This topic provides the information about the Oracle Banking Retail Lending Servicing Integration Service.

User can integrate Oracle Banking Originations Cloud Service with Oracle Banking Retail Lending Servicing acting as the product processor of Loan accounts through Oracle Banking Routing Hub. This guide briefs about the specific steps needed for integration of these two products and specific maintenances.

- [Maintenance for Oracle Banking Originations Cloud Service](#)
This topic describes systematic instructions to maintain Oracle Banking Routing Hub configuration in common core for Oracle Banking Retail Lending Servicing.
- [Maintenance for Product Processor as environment variable](#)
This topic describes systematic instructions to maintain Oracle Banking Routing Hub configuration in common core for Oracle Banking Retail Lending Servicing.

1.1 Maintenance for Oracle Banking Originations Cloud Service

This topic describes systematic instructions to maintain Oracle Banking Routing Hub configuration in common core for Oracle Banking Retail Lending Servicing.

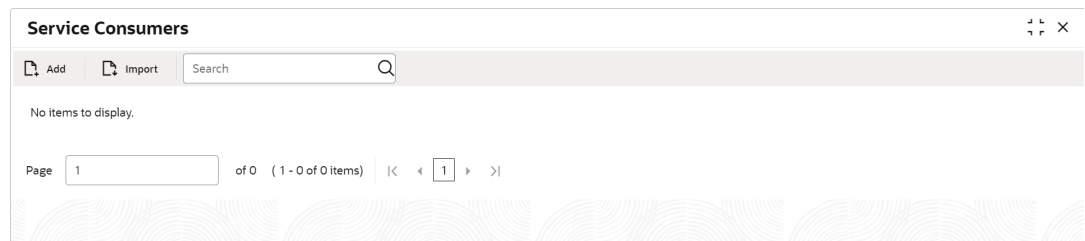
To manage the configuration of the Oracle Banking Routing Hub within the common core for Oracle Banking Retail Lending Servicing.

To import the services:

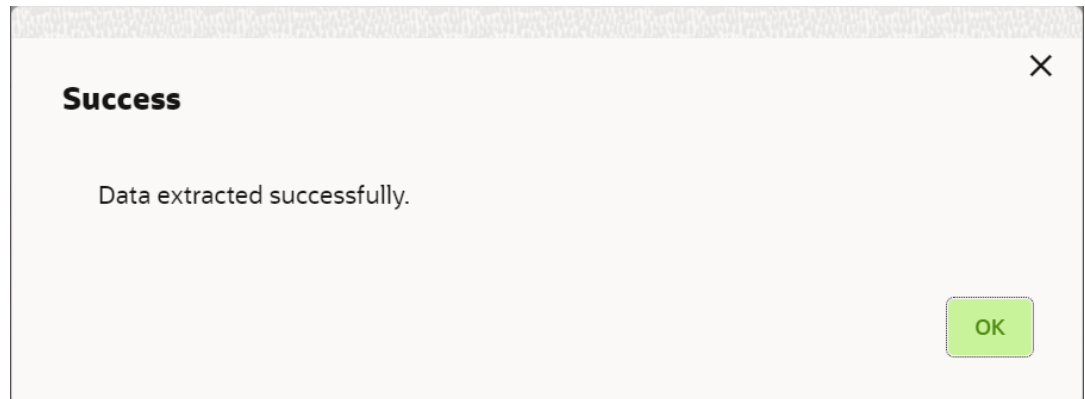
1. On **Home screen**, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**. Under **Routing Hub**, click **Service Consumers**.

The **Service Consumers** screen displays.

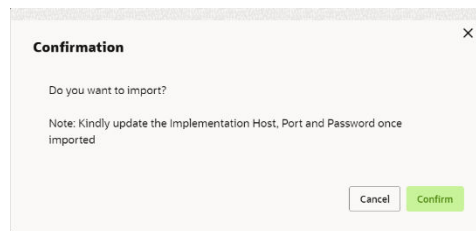
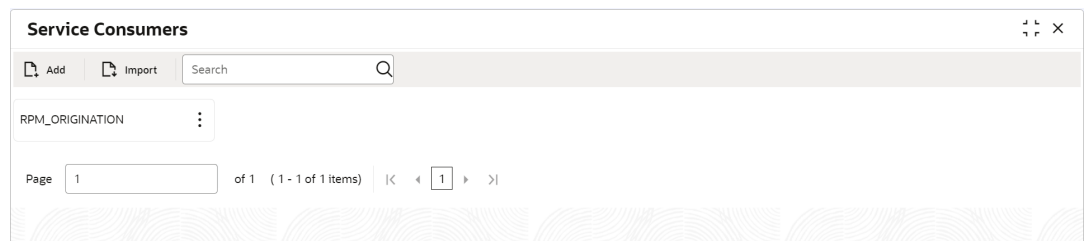
Figure 1-1 Service Consumers



2. Select **Import** and upload the `RPM_ORIGINATION_Consumer.json` file provided in the release and then click **Extract**.

Figure 1-2 Success

3. Select **OBRL** and click **Import**.

Figure 1-3 Confirmation**Figure 1-4 RPM Origination**

4. Click **RPM_ORIGINATION**. Under **RPM_ORIGINATION**, click **OBRL**.
The Service Provider screen displays.

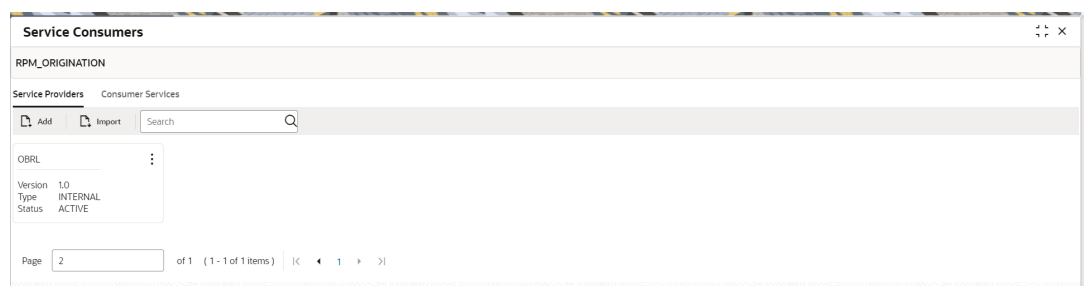
Figure 1-5 Service Providers

Figure 1-6 OBRL Implementation

The screenshot shows the 'Service Consumers' page for 'RPM_ORIGINATION > Service Providers > OBRL 1.0'. It displays a table of implementations with columns: Actions, Name, Description, Service Name, Host, Port, and Queue. Three items are listed: 'obrl-ln-schedule-services', 'obrl-ln-account-services', and 'Contract_Template_Service'. The page is on 1 of 1 (1 - 3 of 3 items).

Actions	Name	Description	Service Name	Host	Port	Queue
⋮	obrl-ln-schedule-services	obrl-ln-schedule-services	OBRL-LN-SCHEDULE-SERVICES			
⋮	obrl-ln-account-services	obrl-ln-account-services	OBRL-LN-ACCOUNT-SERVICES			
⋮	Contract_Template_Service	obrl-ln-contract-template-services	OBRL-LN-CONTRACT-TEMPLATE-SERVICES			

5. Click **Edit**.
6. Change the host and port as per the Oracle Banking Retail Lending Servicing installation and save it.

Figure 1-7 Edit Implementation

The screenshot shows the 'Edit Implementation' form for 'obrl-ln-schedule-services'. Fields include Name, Description, Type (DEFAULT), Default (toggle), Eureka Instance (toggle), Single Tenant (toggle), Scheme (https), Host (100.23.32.45), and Port (8006). There are expandable sections for Authentication and Headers, and a Save button at the bottom right.

7. Repeat the same for all Service Providers of Oracle Banking Retail Lending Servicing. The below consumer services will be imported.

Table 1-1 Consumer Service

Consumer Service	Description	APIs Called
List_All_Loan_Products	Usage: Fetch the list of Loan Products for Oracle Banking Retail Lending. Transformation: List_All_Loan_Products_Transform_OBRL	/obrl-ln-lending-product-services/service/v14.8.1.0.0/products/?offset=0&limit=500

Table 1-1 (Cont.) Consumer Service

Consumer Service	Description	APIs Called
Get_Loan_Product_Details	Usage: Fetch Loan Product details. Transformation: Get_Loan_Product_Details_Transform_OBRL	/obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode}
Get_Loan_Interest_Details	Usage: Fetch Loan Interest details. Transformation: - Get_Loan_Multi_Interest_Product_Details_OBRL - Get_Loan_Multi_Term_Interest_Details_Transform_OBRL	a. /obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode} b. /obrl-In-account-services/service/v14.8.1.0.0/accounts/interestData
Get_Loan_Charge_Details	Usage: Fetch Loan Interest and Charge details. Transformation: - Get_Loan_Product_Details_Transform_OBRL - Get_Loan_Interest_Details_Transform_OBRL - Get_Loan_Charge_Details_Transform_OBRL	a. /obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode} b. /obrl-In-account-services/service/v14.8.1.0.0/accounts/interestData c. /obrl-In-account-services/service/v14.8.1.0.0/accounts/chargesSimulation
Loan_Simulation	Usage: Fetch Loan Schedule. Transformation: - Loan_Simulation_Transform_OBRL - Get_Loan_Product_Details_Transform_OBRL - Personalized_Schedule_Generation_LLM_OBRL - Get_Quote_Inquiry_OBRL	a. /obrl-In-schedule-services/service/v14.8.1.0.0/schedules/scheduleSimulation b. /obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode} c. /obrl-In-schedule-services/service/v14.8.1.0.0/schedules/LLMBasedScheduleQuote d. /obrl-In-schedule-services/service/v14.8.1.0.0/schedules/quote
Loan_Account_Creation	Usage: Loan Account creation Transformation: - Get_Loan_Product_Details_Transform_OBRL - Loan_Account_Creation_Transform_OBRL	a. /obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode} b. /obrl-In-account-services/service/v14.8.1.0.0/accounts/accountCreate
Get_Multi_Installment_Amount	Usage: To get multi-installment/schedule for given term. Transformation: Get_Multi_Installment	/obrl-In-schedule-services/service/v14.8.1.0.0/schedules/multiInstallmentAmount

Table 1-1 (Cont.) Consumer Service

Consumer Service	Description	APIs Called
Get_Default_Product_Preferences	Usage: To get default product preferences from product processor. Transformation: Get_Default_Product_Preferences_OBRL	/obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode}
Get_Personalized_Schedule	Usage: To get Personalized Schedule using LLM Transformation: - Personalized_Schedule_Generation_LLM_OBRL - Get_Quote_Inquiry_OBRL	a. /obrl-In-schedule-services/service/v14.8.1.0.0/schedules/LLMBasedScheduleQuote b. /obrl-In-schedule-services/service/v14.8.1.0.0/schedules/quote
PRE_VALIDATE_ACCOUNT_CREATION_DATA	Usage: Pre-Validate Account Creation Data Transformation: - PreValidate_Get_Loan_Product_Details_Transform - PreValidate_Loan_Account_Creation_Transform_OBRL	/obrl-In-lending-product-services/service/v14.8.1.0.0/products/productcode/{productCode} /obrl-In-account-services/service/v14.8.1.0.0/accounts/accountCreate

1.2 Maintenance for Product Processor as environment variable

This topic describes systematic instructions to maintain Oracle Banking Routing Hub configuration in common core for Oracle Banking Retail Lending Servicing.

1. On **Home screen**, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.
3. Click **Edit**.

Figure 1-8 Edit Service Consumers

4. Under **Environment Variables**, add **LOAN** as new group.

Figure 1-9 Add Group

The screenshot shows a web-based interface for editing a service consumer. The dialog box is titled 'Edit Service Consumer' and has a close button (X) in the top right corner. It contains the following elements:

- Name:** A text input field containing 'RPM_ORIGINATION'.
- Audit Type:** A dropdown menu currently showing 'All Requests'.
- Environment Variables:** A section with a checkmark icon and the text 'Environment Variables'.
- Actions:** A horizontal bar with three buttons: 'Add' (with a plus icon), 'Edit' (with a pencil icon), and 'Delete' (with a trash icon).
- Group:** A dropdown menu currently showing 'LOAN'.
- Table:** A table with three columns: 'Actions', 'Name', and 'Value'. The table is currently empty, displaying 'No data to display.'
- Save:** A button in the bottom right corner.

5. Add **PP** as new variable, **OBRL** as value and **save** it.

Figure 1-10 Add Variable

Edit Service Consumer

Name: RPM_ORIGINATION

Audit Type: All Requests

Environment Variables

Group: LOAN

Actions	Name	Value
⋮	PP	OBRL

Save

6. Click **RPM_ORIGINATION**. Under **RPM_ORIGINATION**, click **Consumer Services**.
7. Follow below steps for all consumer services of Oracle Banking Retail Lending Servicing.
 - a. Search **List_All_Loan_Products**.
 - b. Click **Edit**.
 - c. Add **Product_Processor** as new attribute, include json path, and save the changes.

Figure 1-11 Add Attribute

The screenshot shows the 'Edit Service' dialog box with the following fields and options:

- ID:** List_All_Loan_Products
- Status:** A toggle switch is currently turned off.
- Audit:** Radio buttons for 'Yes' (selected) and 'No'.
- Description:** To get List of All Loan Products
- Add Attribute Section:** A table with columns 'Actions', 'Attribute Name', and 'json path'. It contains one entry: 'Product_Processor' with 'json path' '\$.env.LOAN.PP'.
- Buttons:** 'Add' (with a plus icon) and 'Save'.

- d. Click on **List_All_Loan_Products** Consumer service.
- e. Click on **Routing**.
- f. Click on **Edit** for List_All_Loan_Products_Route_OBRL route.
- g. Click on **Custom Rule**. Click on **Expression Editor**.
- h. Add **Product_Processor** as attribute and **OBRL** as value and click **Save**.

Figure 1-12 Expression Editor

The screenshot shows the 'Expression Editor' dialog box with the following fields and options:

- Attribute:** Product_Processor (selected in a dropdown)
- Operator:** == (selected in a dropdown)
- Value:** "OBRL" (entered in a text box)
- Condition Type:** A dropdown menu with a 'Required' label below it.
- Buttons:** 'Save'.

Figure 1-13 Saved Expression

Edit Route

Name

List_All_Loan_Products_Route_OBRL

Start/Stop

STARTSTOP

Auto Shutdown

Default Rule

Custom Rule

Rule

(Product_Processor == "OBRL")

Expression Editor

Transformations

Add

Save

i. Click **Save**.

Figure 1-14 Saved Route

Service Consumers

RPM_ORIGINATION > Consumer Services > List_All_Loan_Products

TransformationRouting

Add

Search

Actions	Name	Start/Stop	Rule	Product Processor	Implementation	Service
	List_All_Loan_Products_Route_OBRL		(Product_Processor == "OBRL")	OBRL 1.0	Contract_Template_Service	Fetch All Contract Templates - /web/v1/contracttemplate

Page 1 of 1 (1 - 1 of 1 items)