

Oracle Banking Origination

Retail Lending Integration Guide



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Preface

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
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- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
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Purpose

This guide is to help with Integration of Oracle Banking Origination Product with Oracle Banking Retail Lending (OBRL) 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

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

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Diversity and Inclusion

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 user supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that user enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

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Oracle Banking Retail Lending Servicing

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

User can integrate Oracle Banking Origination 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 maintenance.

- [Maintenance for Oracle Banking Origination](#)
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 Origination

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

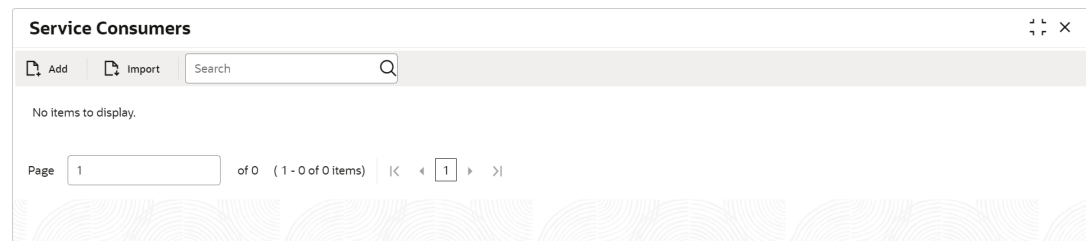
To manage the configuration of the Oracle Banking Routing Hub within the common core for Oracle Banking Retail Lending Servicing.

To import the services:

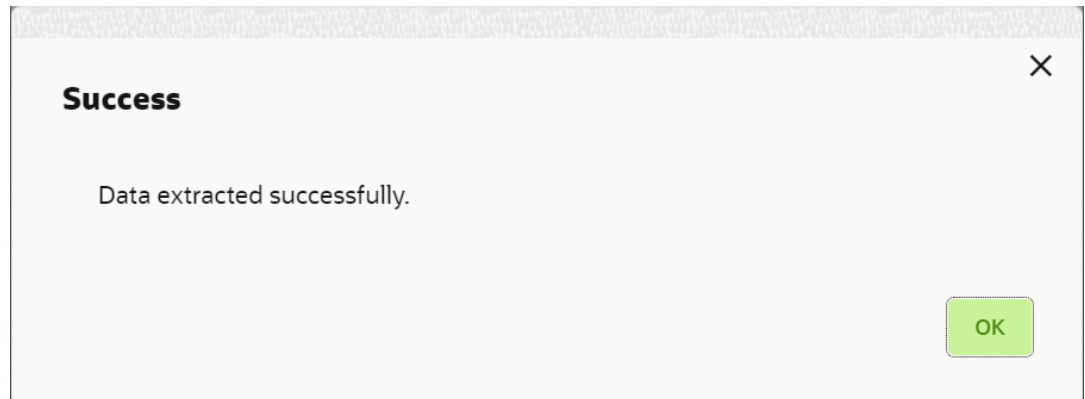
1. On **Home screen**, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**. Under **Routing Hub**, click **Service Consumers**.

The **Service Consumers** screen is displayed.

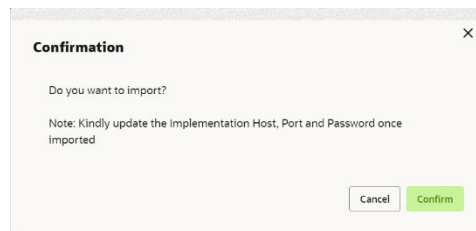
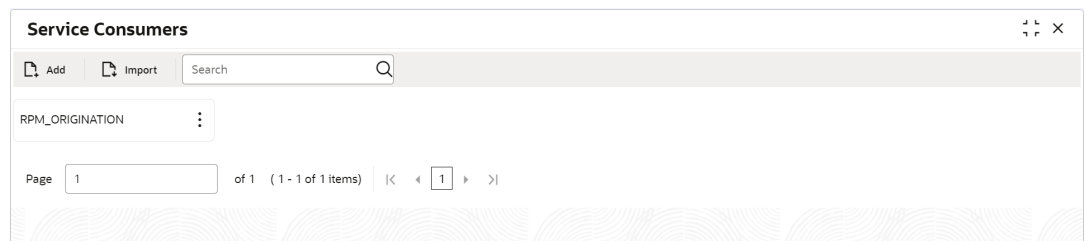
Figure 1-1 Service Consumers



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.

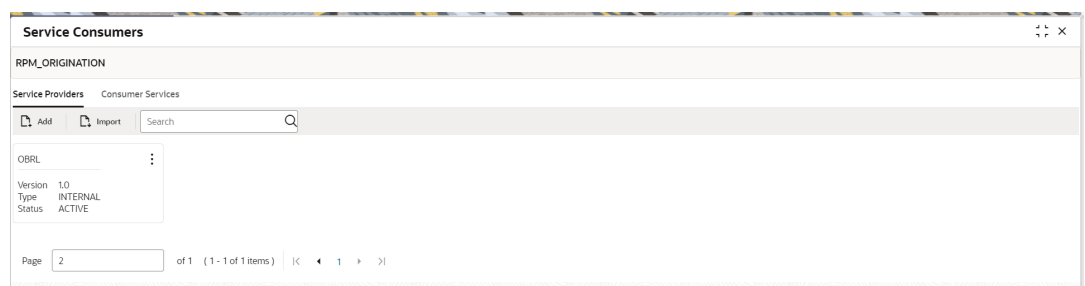
Figure 1-5 Service Providers

Figure 1-6 OBRL Implementation

The screenshot shows the 'Service Consumers' window 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 first item is selected, and the page shows '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	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

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

The screenshot shows the 'Edit Service Consumer' window. The 'Name' field is populated with 'RPM_ORIGINATION'. The 'Audit Type' dropdown is set to 'Service level configuration'. Under the 'Environment Variables' section, there is an 'Add' button and a 'Group' dropdown menu. Below this, a table is shown with columns 'Actions', 'Name', and 'Value', but it is currently empty with the message 'No data to display.' at the bottom right, there is a 'Save' button.

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

Figure 1-9 Add Group

Edit Service Consumer

Name: RPM_ORIGINATION

Audit Type: All Requests

Environment Variables

Group: LOAN

Actions	Name	Value
No data to display.		

Save

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

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

Edit Service

ID: List_All_Loan_Products

Status: ☒

Audit: ☒ Yes ☐ No

⚠ Applicable if the Audit type at 'Service Consumer' is 'Service level configuration'

Description: To get List of All Loan Products

Add

Actions	Attribute Name	json path
⋮	Product_Processor	\$.env.LOAN.PP

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

Expression Editor

Attribute: Product_Processor

Operator: ==

Value: "OBRL"

Condition Type:

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

Transformation Routing

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

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Glossary

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