Routing Hub Configuration User Guide Oracle Banking Supply Chain Finance

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Routing Hub Configuration User Guide

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1 Preface

1.1 Purpose

This document enables the user to integrate Oracle Products with External Product Processor with the of Oracle Banking Routing Hub Platform.

1.2 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.3 Document 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.

1.4 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

1.5 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describe following details:

- Introduction
- Preferences & Database
- Configuration / Installation



2 Introduction

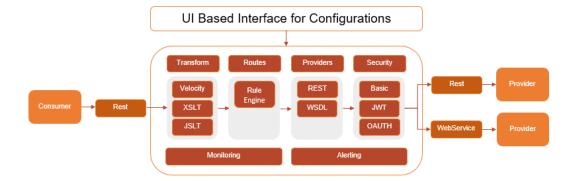
Oracle Banking Routing Hub is routing hub which enables seamless & standardized integrations between FSGBU

Banking Product using configurations provided as part of the product Infrastructure.

Consumer Application does not need to know

- Servicing Providers or Product Processors Product processor to which the integration is required.
- Name of the Service Logical name of the service e.g. Funds Transfer, Letter of Credit Initiation
- Messaging structure of Service Structure of the message e.g Json, XML.
- Communication Protocol Web services, Rest API.
- Can be integrated with different versions of a Product processors

In this document we have shown the maintenance of two product i.e." Oracle Service Consumer as Service Consumer and "External Product Processor" as Service Provider





2.1 Acronyms & Definitions

Following are some of the acronyms and abbreviations you are likely to find in this user manual:

Abbreviation & Definitions	Description
Service Consumers	Are Applications need to integrate with multiple product processors with loosely couple integration layer available as Oracle Banking Routing Hub. Service Consumer integrates with Oracle Banking Routing Hub
Service Providers	This are product processors available to serve the request send by Oracle Banking Routing Hub on behalf of Service Consumer
Service	Are Soap Web Services imported through WSDL or Rest Web Services imported through Swagger
Headers	Are headers require by product processor while sending request



3 Start Maintenance - Login Screen

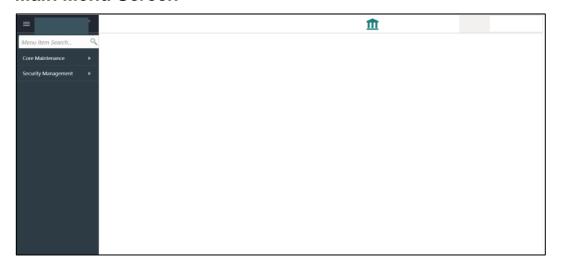
Open Browser, Hit URL and Launch Oracle Banking Routing Hub.



Component briefing								
Component Name	Component Type	Is Mandatory	Data type	Comments				
User Name	Text Box	Yes	Alphanumeric					
Password	Text Box	Yes	Alphanumeric with special characters					
Sign In	Button			Navigates to Dashboard / menu screen				
Cancel	Button							



4 Main Menu Screen



Component briefing						
Component Name	Component Type	Comments				
Core Maintenance	Main menu item					
Routing Hub	Sub menu item					
Configuration	Sub menu option	Navigates to Configuration screen				
Service Consumer	Sub menu option	Navigates to Service Consumer screen				
Request Audit	Sub menu option	Navigates to Request Audit screen				



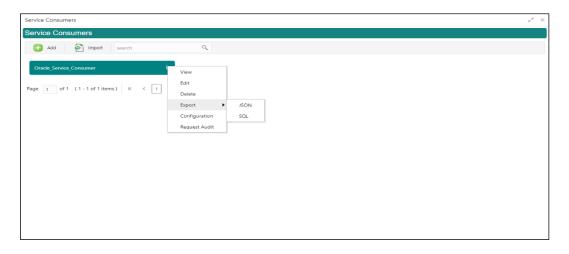
5 Service Consumer

Service Consumer is Oracle product which will invoke Oracle Banking Routing Hub API, Oracle Banking Routing Hub will analyse, evaluate destination product processor and transform data into format of the same.

Service Consumer comprises of the source and destination integration details.

Navigation: Core Maintenance -> Routing Hub -> Service Consumers





Component briefing						
Component Name	Component Type	Condition	Comments			
Add	Button		Pops up add dialog			
Import	Button		Pops up import dialog			

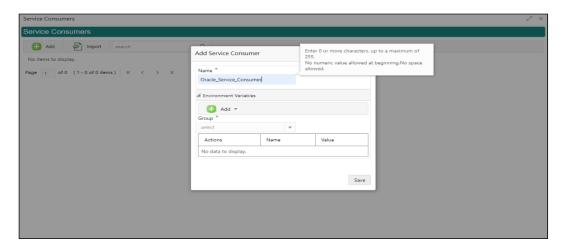


Search Navigation: Service	Consumers -> 3 dot	icon (operation	Provides search functionality with case insensitive (Service Consumer Name)
Navigation: Oct vice	Jonisumers -> 5 dot	- Con (operation	inicia)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	Sub menu item		
JSON	menu option		Exports in JSON
SQL	menu option		Exports in SQL
Configuration	menu option		Pops up configuration dialog
Request Audit	menu option		Pops up request audit log

5.1 Add

User can create Service Consumer manually.

Navigation: Service Consumers -> Add





Component b	Component briefing							
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments			
Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 	Unique Service Consumer name			
Environment Variables	Table Content							
Save	Button				Saves the Service Consumer			

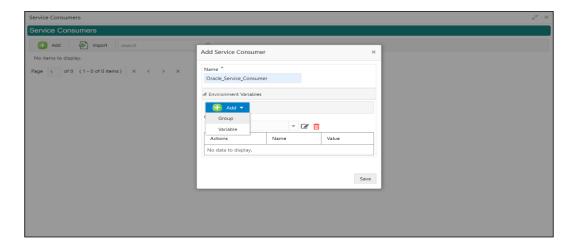
5.1.1 Environment Variables

User will be able to define the group of variables which can be accessed throughout the specific consumer's configuration.

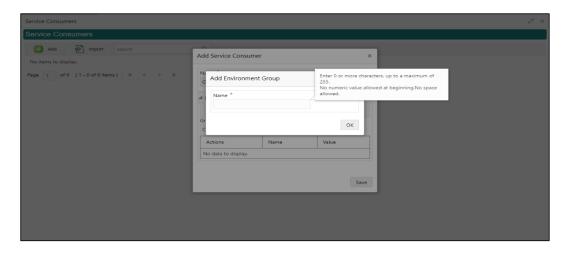
Below is the syntax for accessing environment variables:

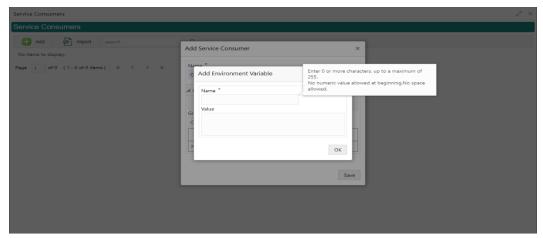
\$env.Environment_Group_Name.Environment_Variable_Name

eg: \$env.COMMON.BRANCH_CODE









Component b	Component briefing						
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments		
Add	Menu Item						
Group	Menu option				Pops up add group dialog		
Variable	Menu option				Pops up add variable dialog		
Navigation: So	Navigation: Service Consumer -> Environment Variables -> 3 dot icon (operation menu)						
Edit	menu option / icon				Pops up edit dialog		



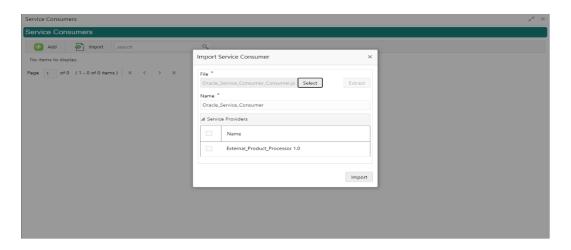
Delete	menu option / icon				Deletes group / variable		
Environment Group / Variable							
Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 			
Value	Text Area				Value can either be hardcoded or Velocity mapping.		
ок	Button				Saves the group / variable and displays it in the list		



5.2 Import

User can create a service consumer by importing the JSON file and manually selecting the service Providers or select all providers that needs to be imported.

Navigation: Service Consumers -> Import



Component briefing							
Componen t Name	Componen t Type	Is Manda tory	Data type	Validation	Condition	Comments	
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box	
Extract	Button	Yes				Extracts Consumer Name and Service Provider list from JSON file and displays it in the respective elements.	



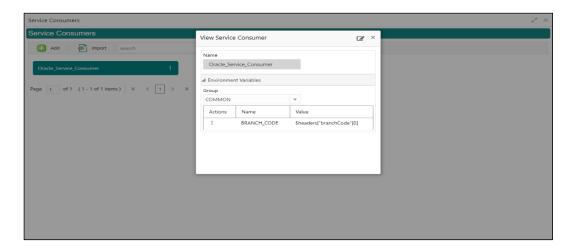
Name	Text Box	Yes	Alphanu meric with special charact ers	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 	Editable	Unique
Service Provider	Collapsible Header & Content					Displays the list of service providers that are present in JSON file
Import	Button					Imports Service Consumer

NOTE: Below data needs to be changed after importing consumer configuration file:

- Implementation Host and Port
- Implementation Authentication Password

5.3 View

User can view consumer details and can also switch to edit form by clicking on edit icon. Navigation: Service Consumers -> Operation Menu (3 dot icon) -> View

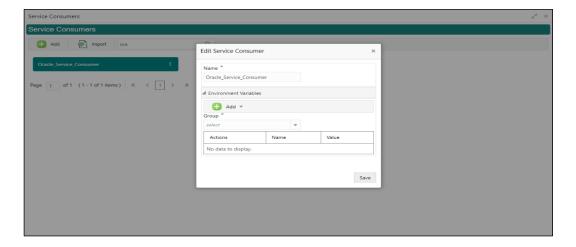




5.4 Edit

User can modify the consumer details.

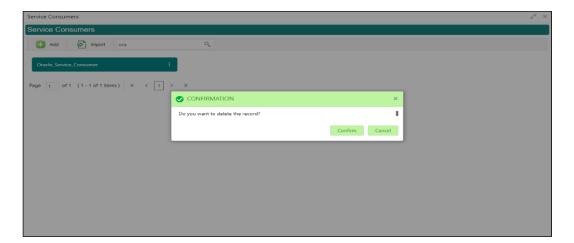
Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Edit



5.5 Delete

User can delete the consumer.

Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Delete

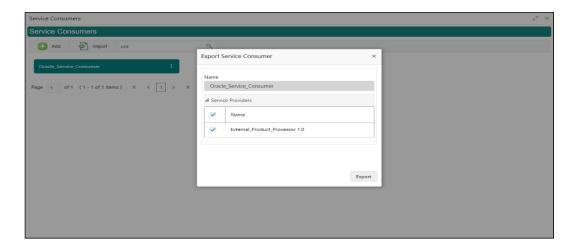




5.6 JSON Export

User can export the consumer configuration as JSON file.

Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Export -> JSON



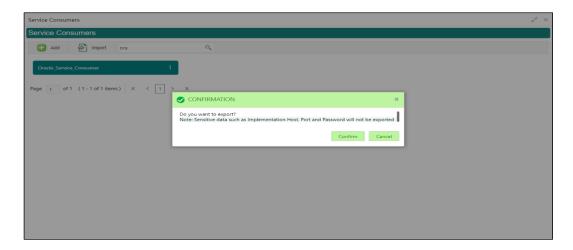
Note:

- User has an option to select service providers from the list which needs to be exported or can click on "Select All" option for all service providers.
- JSON Export feature will export below data:
 - Selected service consumer
 - All consumer services
 - Selected service providers with services
 - Default implementation of selected service providers with services (without Host, Port and Authentication Password)
 - · Default transformations
 - All default implementation routes

5.7 SQL Export

User can export the consumer configuration as SQL file.

Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Export -> SQL





NOTE: SQL Export feature will export entire configuration without Host, Port and Authentication Password details.

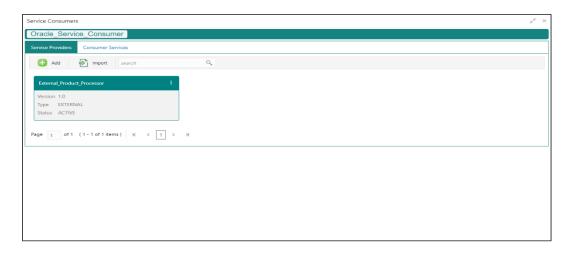


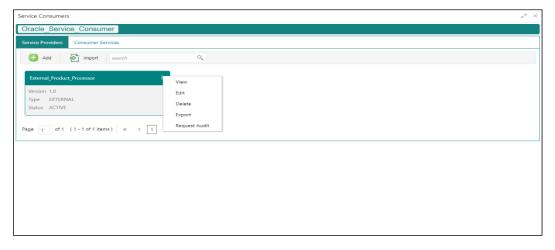
6 Service Providers

Service Providers are the product processors configure to process request send by Oracle Banking Routing Hub on behalf of service consumers.

Service Provider comprises of destination integration details.

Navigation: Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer> -> Service Providers





Component briefing						
Component Name	Component Type	Comments				
<service consumer=""></service>	Button		Navigates back to Service Consumers			



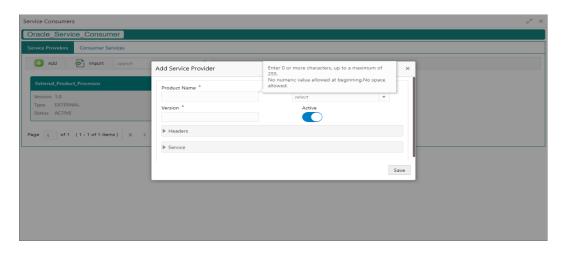
Add	Button		Pops up add dialog
Import	Button		Pops up import dialog
Search	Combo Box One		Provides search functionality with case insensitive (Service Provider Name)
Navigation: Serv	ice Providers -> 3 dot	icon (operation	menu)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	menu option		Exports in JSON
Request Audit	menu option		Pops up request audit log



6.1 Add

User can create Service Provider manually.

Navigation: Service Providers-> Add



Component b	Component briefing						
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments		
Product Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique provider name		
Туре	Combo Box One	Yes			Predefined Values: INTERNAL / EXTERNAL		
Version	Text Box	Yes	Number	 Version cannot be blank Enter 0 or more characters, up to a maximum of 255. Enter only numeric or decimal values. 	Unique provider version		



Active	Switch		Predefined Values: ACTIVE / INACTIVE
			If provider is marked as inactive, then all related routes will be stopped.
Headers	Collapsible		Provider
	Header &		specific
	Content		headers
Service	Collapsible		Provider
	Header &		specific
	Content		service details
Save	Button		Saves the
			Service
			Provider

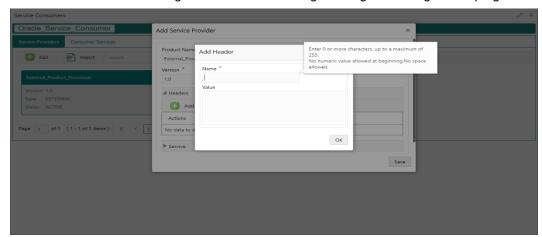


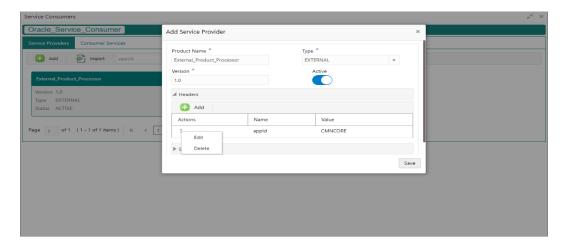
6.1.1 Headers

External product processor might require some standard headers to be passed along with the request.

User can specify the headers which are required by service endpoints for its all implementations but not present in swagger file.

These headers can be configured in Oracle Banking Routing Hub using the steps given below





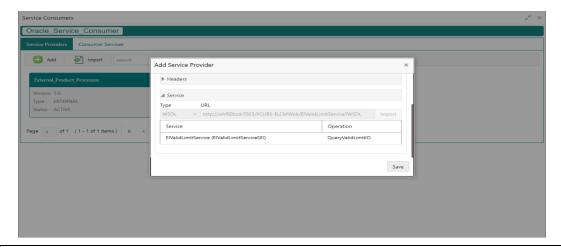
Component briefing						
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments	
Add	Button				Pops up add dialog	



Navigation: Service Providers -> Headers -> 3 dot icon (operation menu)						
Edit	menu option				Pops up edit dialog	
Delete	menu option				Deletes header	
Navigation: Service Providers -> Headers -> Add						
Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 		
Value	Text Area	Yes	Alphanumeric with special characters	Enter 0 or more characters, up to a maximum of 255.	Value can either be hardcoded or can be Velocity mapping.	
ОК	Button				Saves the header details and displays it in the list	



6.1.2 Service



Component briefing					
Component Name	Component Type	Is Mandatory	Comments		
Туре	Combo Box One	Yes	Predefined Values: WSDL / SWAGGER		
URL	Text Box	Yes	Service URL of the file location		
Gateway Prefix	Text Box		Gateway Prefix is context path of below formatted URL http://host:port/gateway-prefix/endpoint		
Import	Button		Extracts the service information from URL and displays it in the Service list		

6.1.2.1 WSDL

The Web Services Description Language (WSDL) is an XML-based interface description language that is used for describing the functionality offered by a web service.

Currently, non-SSL WSDL URL is only supported.

NOTE: In case there is a change in wsdl file, then same wsdl file need to be imported again in order to update the provided service information in routing hub.



6.1.2.2 SWAGGER

Swagger is an Interface Description Language for describing RESTful APIs expressed using JSON.

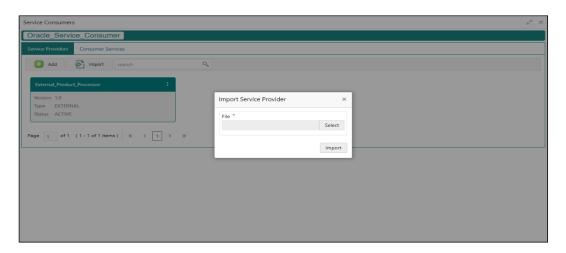
Currently, Swagger 2.0 & OpenAPI 3.0 both are supported.

NOTE: In case there is a change in swagger file, then same swagger file need to be imported again in order to update the provided service information in routing hub.

6.2 Import

User can create a service provider by importing the JSON file.

Navigation: Service Providers -> Import



Component briefing						
Component Name	Component Type	Is Mandatory	Validation	Condition	Comments	
File	File picker	Yes	Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box	
Import	Button				Imports Service Provider	

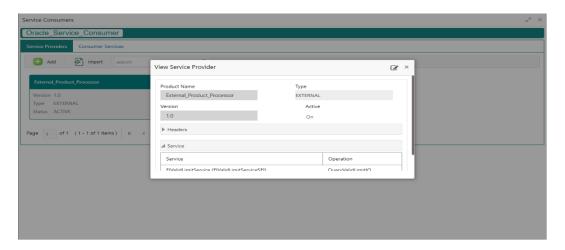
NOTE: Below data needs to be changed after importing provider configuration file:

- Implementation Host and Port
- Implementation Authentication Password



6.3 View

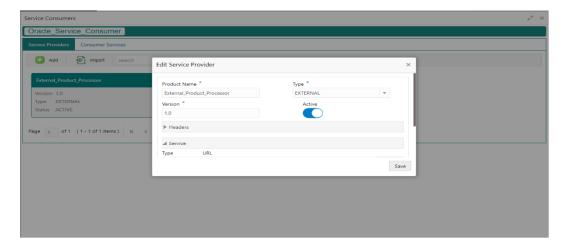
User can view provider details and can also switch to edit form by clicking on edit icon. Navigation: Service Providers -> Operation Menu (3 dot icon) -> View



6.4 Edit

User can modify the provider details.

Navigation: Service Providers -> Operation Menu (3 dot icon) -> Edit

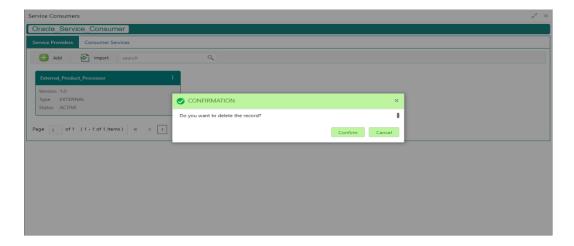




6.5 Delete

User can delete the provider.

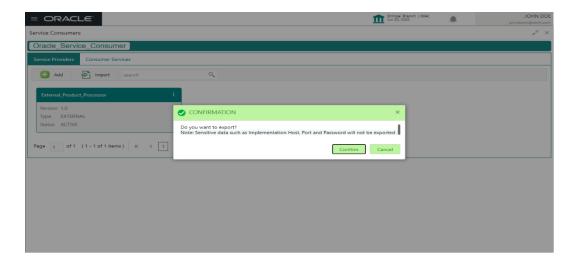
Navigation: Service Providers -> Operation Menu (3 dot icon) -> Delete



6.6 Export

User can export the provider configuration as JSON file.

Navigation: Service Providers -> Operation Menu (3 dot icon) -> Export



NOTE: Below data will not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file.

Same has been mentioned in Import section

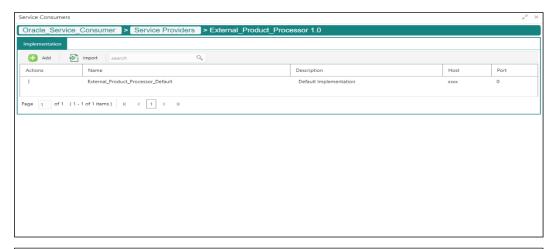


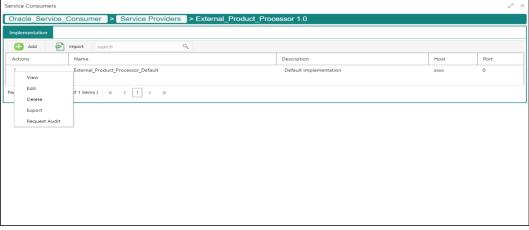
7 Implementation

Implementation comprises of Host, Port, authentication and implementation specific service details. Oracle Banking Routing Hub supports webservice and Rest API.

NOTE: Default implementation is created whenever a new service provider is added.

Navigation: Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer> -> Service Providers -> <Specific Service Provider> -> Implementation





Component briefing						
Component Name	Component Type	Comments				
<service consumer=""></service>	Button		Navigates back to Service Consumers			

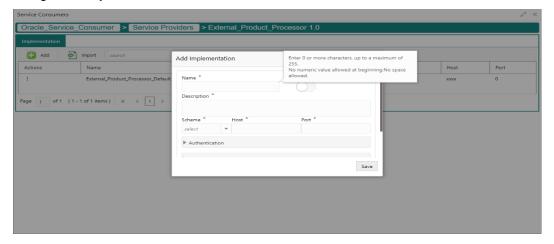


<service Provider></service 	Button		Navigates back to Service Providers			
Add	Button		Pops up add dialog			
Import	Button		Pops up import dialog			
Search	Combo Box One		Provides search functionality with case insensitive (Implementation Name)			
Navigation: In	Navigation: Implementation -> 3 dot icon (operation menu)					
View	menu option	Non- editable	Pops up view dialog			
Edit	menu option		Pops up edit dialog			
Delete	menu option					
Export	menu option		Exports in JSON			
Request Audit	menu option		Pops up request audit log			

7.1 Add

User can create Implementation manually.

Navigation: Implementation-> Add





Component b	Component briefing					
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments	
Name	Text Box	Yes	Alphanum eric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique implementation name	
Description	Text Area	Yes	Alphanum eric with special characters	 Description cannot be blank Enter 0 or more characters, up to a maximum of 1000. No space allowed at beginning or ending of the value. 		
Default	Switch					
Scheme	Combo Box One	Yes			Predefined Values: HTTPS / HTTP	
Host	Text Box	Yes	Alphanum eric with special characters	 Host cannot be blank Enter 0 or more characters, up to a maximum of 255. No space allowed. 		
Port	Text Box	Yes	Number	 Port cannot be blank Enter 0 or more characters, up to a maximum of 6. Only numeric value allowed. 		



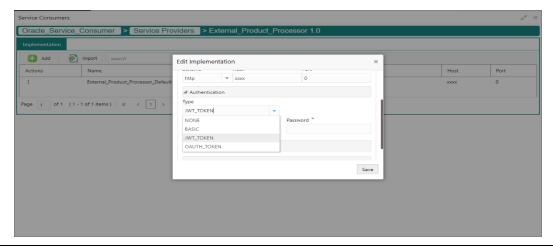
Authenticati on	Collapsible Header & Content		Authentication Details
Headers	Collapsible Header & Content		Implementation specific headers
Service	Collapsible Header & Content		Implementation specific service details
Save	Button		Saves the Implementation

7.1.1 Authentication

If External Product processor require authentication to connect to it, Oracle Banking Routing Hub provides standard authentication mechanism schemes like BASIC, JWT, OAUTH_TOKEN.

NOTE: In case of no authentication, NONE needs to be set as Authentication Type.

Process of configuration of these is described below.



Component briefing							
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments		
Туре	Combo Box One	Yes			Predefined Values: NONE / BASIC / JWT_TOKEN / OAUTH_TOKEN		
Username	Text Box		Alphanum eric with special characters	 Username cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Username is mandatory if authentication type is BASIC / JWT_TOKEN / OAUTH_TOKEN		



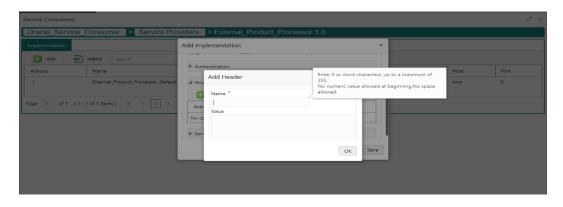
Password	Text Box	Alphanum	Password	Password is
		eric with	cannot be blank	mandatory if
		special		authentication type
		characters		is BASIC /
				JWT_TOKEN /
				OAUTH_TOKEN

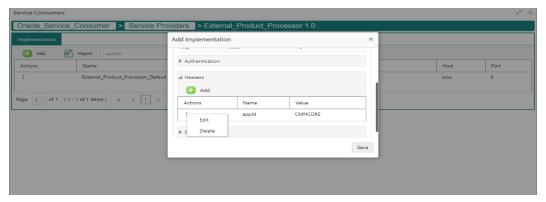
7.1.2 Headers

External product processor might require some standard headers to be passed along with the request.

User can specify the headers which are required by service endpoints for specific implementation but not present in swagger file.

These headers can be configured in Oracle Banking Routing Hub using the steps given below



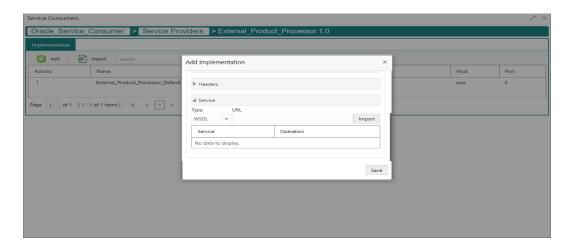




Component b	Component briefing						
Component Name	Component Type	Is Mandatory	Data type	Validation	Comments		
Add	Button				Pops up add dialog		
Navigation: In	nplementation	-> Headers ->	> 3 dot icon	(operation menu)			
Edit	menu option				Pops up edit dialog		
Delete	menu option				Deletes header		
Navigation: In	nplementation	-> Headers -:	> Add				
Name	Text Box	Yes	Alphanu meric with special characte rs	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 			
Value	Text Area	Yes	Alphanu meric with special characte rs	Enter 0 or more characters, up to a maximum of 255.	Value can either be hardcoded or can be Velocity mapping.		
ОК	Button				Saves the header details and displays it in the list		



7.1.3 Service



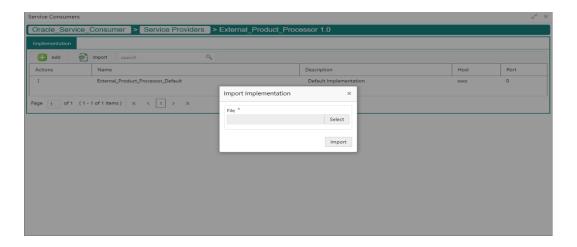
Component briefing						
Component Name	Component Type	Is Mandatory	Comments			
Туре	Combo Box One	Yes	Predefined Values: WSDL / SWAGGER			
URL	Text Box	Yes	Service URL of the file location			
Gateway Prefix	Text Box					
Import	Button		Extracts the service information from URL and displays it in the Service list			



7.2 Import

User can create a implementation by importing the JSON file.

Navigation: Implementation -> Import



Component briefing							
Component Name	Component Type	Is Mandatory	Data type	Validation	Conditio n	Comments	
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box	
Import	Button					Imports Implementation	

NOTE: Below data needs to be changed after importing implementation configuration file:

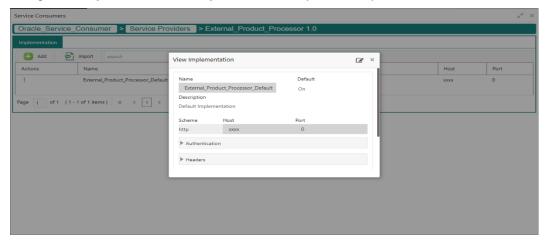
- Implementation Host and Port
- Implementation Authentication Password



7.3 View

User can view implementation details and can also switch to edit form by clicking on edit icon.

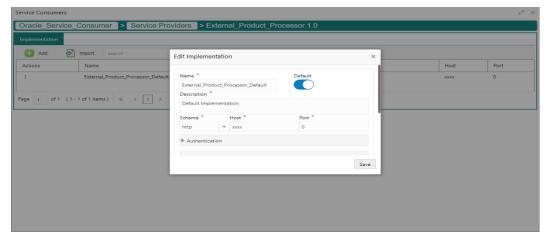
Navigation: Implementation -> Operation Menu (3 dot icon) -> View



7.4 Edit

User can modify the implementation details.

Navigation: Implementation -> Operation Menu (3 dot icon) -> Edit

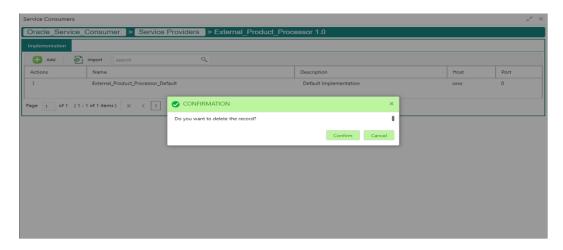




7.5 Delete

User can delete the implementation.

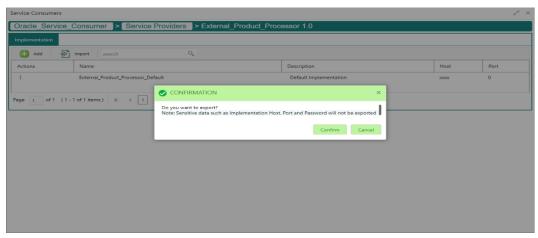
Navigation: Implementation -> Operation Menu (3 dot icon) -> Delete



7.6 Export

User can export the implementation configuration as JSON file.

Navigation: Implementation -> Operation Menu (3 dot icon) -> Export



NOTE: Below data will not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file.

Same has been mentioned in Import section

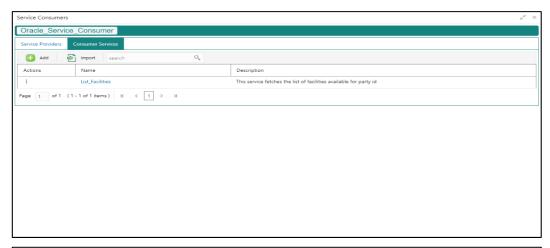


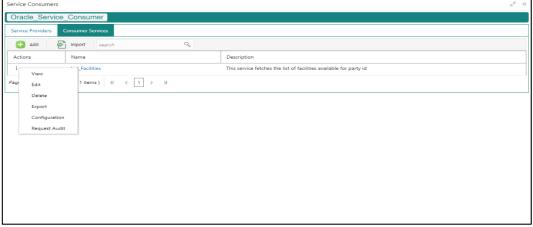
8 Consumer Services

Consumer Services defines the service ID which is going to be send from service consumer. This will also cater transformation and route definition as well.

Consumer Services comprises of source integration details.

Navigation: Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer> -> Consumer Services





Component briefing							
Component Name	Component Type	Condition	Comments				
<service consumer=""></service>	Button		Navigates back to Service Consumers				
Add	Button		Pops up add dialog				

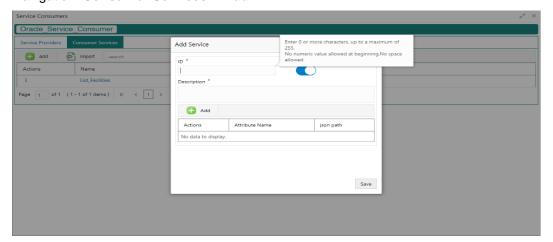


Import	Button		Pops up import dialog
Search	Combo Box One		Provides search functionality with case insensitive (Consumer Service Name)
Navigation: Consumer	Services -> 3 d	lot icon (operation me	enu)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	menu option		Exports in JSON
Configuration	menu option		Pops up configuration dialog
Request Audit	menu option		Pops up request audit log

8.1 Add

User can create Consumer Service manually.

Navigation: Consumer Services-> Add

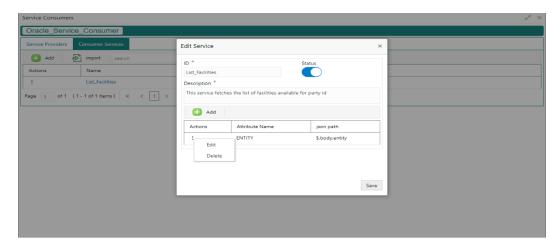


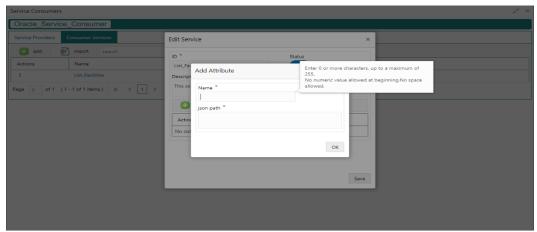


Component b	oriefing				
Component Name	Component Type	Is Manda tory	Data type	Validation	Comments
Id	Text Box	Yes	Alphanum eric with special characters	Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed.	Unique Service Id
Status	Switch	Yes			Predefined Values: ACTIVE / INACTIVE If consumer service is marked as inactive, then all related routes will be stopped.
Description	Text Area	Yes	Alphanum eric with special characters	Description cannot be blank Enter 0 or more characters, up to a maximum of 1000. No space allowed at beginning or ending of the value.	
Attributes	Table Content				
Save	Button				Saves the Consumer Service



8.1.1 Attributes





Component b	Component briefing							
Component Name	Component Type	Is Mandatory	Data type	Validation	Condit ion	Comments		
Add	Button					Pops up add dialog		
Navigation: C	onsumer Servi	ces -> Header	s -> 3 dot icon	(operation menu)				
Edit	menu option					Pops up edit dialog		
Delete	menu option					Deletes attribute		



Navigation: Consumer Services -> Headers -> Add						
Name	Text Box	Yes	Alphanumeri c with special characters	Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed.		
JSON Path	Text Area	Yes	Alphanumeri c with special characters	Value cannot be blank Enter 0 or more characters, up to a maximum of 255. No space allowed.		Value will be JSON path.
OK	Button					Saves the header details and displays it in the list

NOTE:

• Using \$.body, user can access request body.

Syntax: \$.body.fieldName
Example: \$.body.branchCode

• Using \$.headers, user can access request headers.

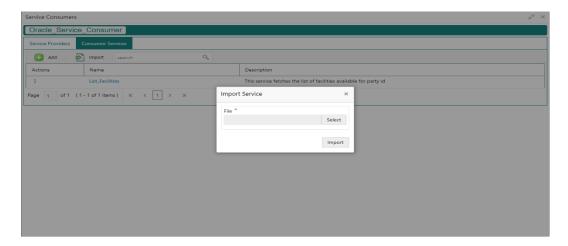
Syntax: \$.headers["fieldName"][0]
Example: \$.headers["branchCode"][0]



8.2 Import

User can create a consumer service by importing the JSON file.

Navigation: Consumer Services -> Import



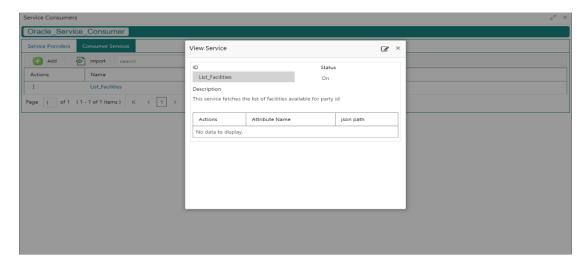
Component briefing						
Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box
Import	Button					Imports Consumer Service



8.3 View

User can view consumer service details and can also switch to edit form by clicking on edit icon.

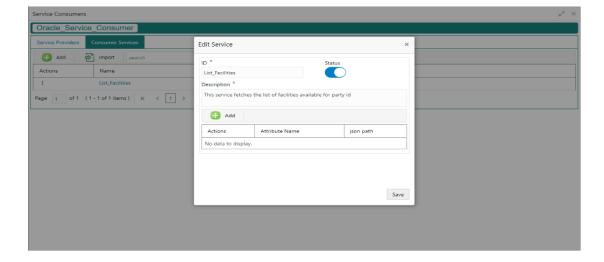
Navigation: Consumer Services -> Operation Menu (3 dot icon) -> View



8.4 Edit

User can modify the consumer service details.

Navigation: Consumer Services -> Operation Menu (3 dot icon) -> Edit

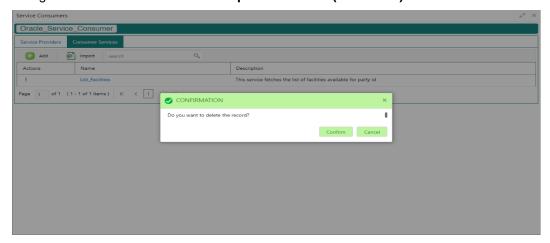




8.5 Delete

User can delete the consumer service.

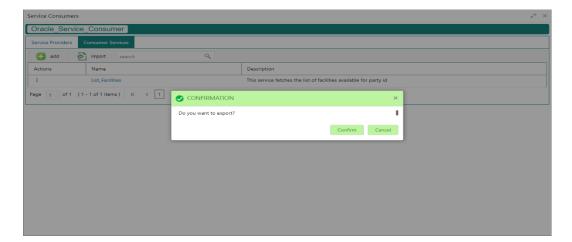
Navigation: Consumer Services -> Operation Menu (3 dot icon) -> Delete



8.6 Export

User can export the consumer service configuration as JSON file.

Navigation: Consumer Services -> Operation Menu (3 dot icon) -> Export

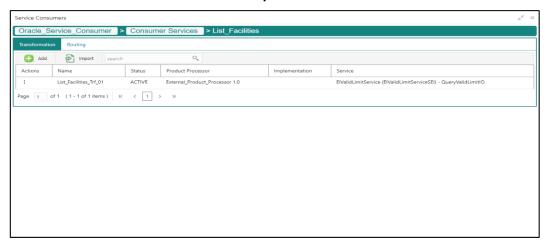


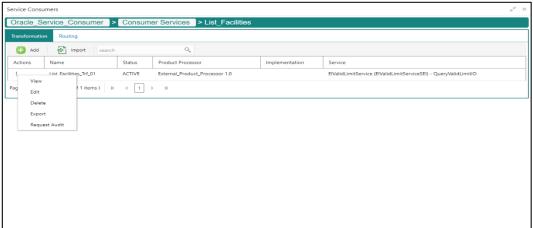


9 Transformation

Transformation acts as an assembling and transforming data from source to destination and viceversa. This will take place under consumer service. This converts data of service consumer into service provider

Navigation: Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer> -> Consumer Services -> <Specific Consumer Service> -> Transformation





Component briefing						
Component Name	Component Type	Condition	Comments			
<service Consumer></service 	Button		Navigates back to Service Consumers			



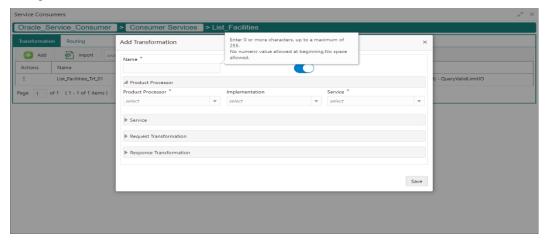
	,	1	
<consumer service=""></consumer>	Button		Navigates back to Consumer Services
Add	Button		Pops up add dialog
Import	Button		Pops up import dialog
Search	Combo Box One		Provides search functionality with case insensitive (Transformation Name)
Navigation: Ti	ransformation -> 3 d	ot icon (operation	n menu)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	menu option		Exports in JSON
Request Audit	menu option		Pops up request audit log



9.1 Add

User can create Transformation manually.

Navigation: Transformation-> Add



Component b	Component briefing							
Component Name	Component Type	Is Mand atory	Data type	Validation	Comments			
Name	Text Box	Yes	Alphanum eric with special characters	 Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique Transformation Name			
Active	Switch				Predefined Values: ACTIVE/INACTIVE If transformation is marked as inactive, then user will not be able to select transformation in routing.			



Product Processor	Collapsible Header			
Product Processor	Combo Box One	Yes		Displays provider list relevant to consumer
Implementati on	Combo Box One			Displays implementation list relevant to selected provider
Service	Combo Box One	Yes		Displays service list relevant to selected provider and implementation
Service	Collapsible Header & Content			Displays service details of selected service
Headers	Collapsible Header & Content			Displays header list relevant to selected provider, implementation and service User can change the header values. Value can either be hardcoded or can be Velocity mapping.
Path Params	Collapsible Header & Content			Displays path param list relevant to selected service User can change the param values. Value can either be hardcoded or can be Velocity mapping.
Query Params	Collapsible Header & Content			Displays query param list relevant to selected service User can change the param values. Value can either be hardcoded or can be Velocity mapping.

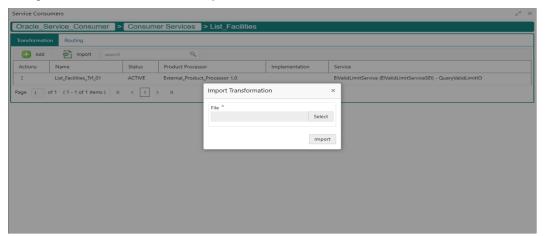


Request Transformati on	Collapsible Header		
Туре	Combo Box One		Predefined Values: VELOCITY / JSLT
Template	Text Area		User has to define the template in which provider accepts. Please refer Transformation Type for syntax
Response Transformati on	Collapsible Header		
Туре	Combo Box One		Predefined Values: VELOCITY / JSLT / XSLT
Template	Text Area		User has to define the template in which consumer accepts. Please refer Transformation Type for syntax
Save	Button		Saves transformation details

9.2 Import

User can create a transformation by importing the JSON file.

Navigation: Transformation -> Import



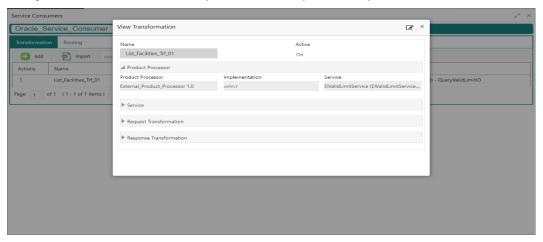


Component b	Component briefing					
Component Name	Component Type	Is Mand atory	Validation	Condition	Comments	
File	File picker	Yes	Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box	
Import	Button				Imports Transformation	

9.3 View

User can view transformation details and can also switch to edit form by clicking on edit icon.

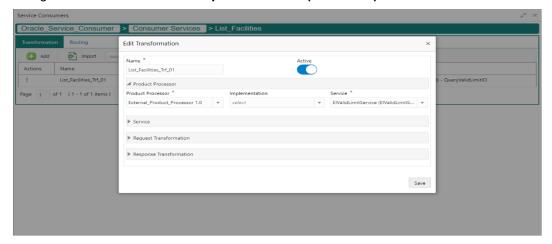
Navigation: Transformation -> Operation Menu (3 dot icon) -> View



9.4 Edit

User can modify the transformation details.

Navigation: Transformation -> Operation Menu (3 dot icon) -> Edit

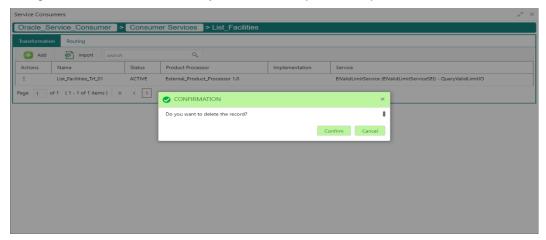




9.5 Delete

User can delete the transformation.

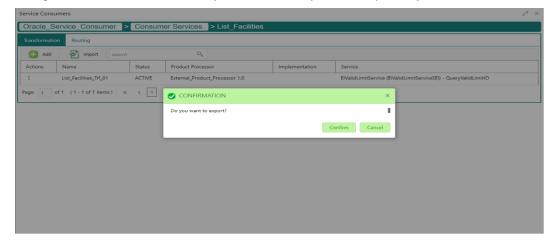
Navigation: Transformation -> Operation Menu (3 dot icon) -> Delete



9.6 Export

User can export the transformation configuration as JSON file.

Navigation: Transformation -> Operation Menu (3 dot icon) -> Export

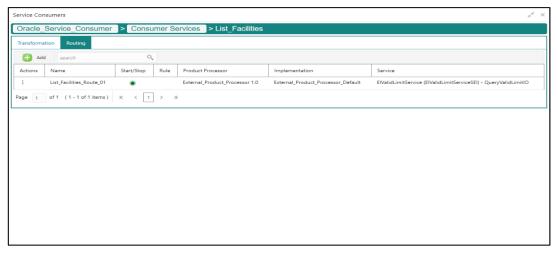


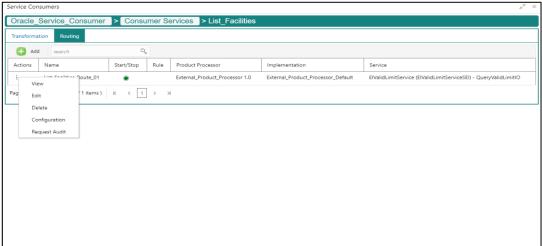


10 Routing

Routing defines no rule or rule-based route configuration. Route decide the actual request to be send to which service provider based on maintenance and evaluation.

Navigation: Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer > -> Consumer Services -> <Specific Consumer Service> -> Routing





Component be	riefing		
Component Name	Component Type	Condition	Comments
<service consumer=""></service>	Button		Navigates back to Service Consumers

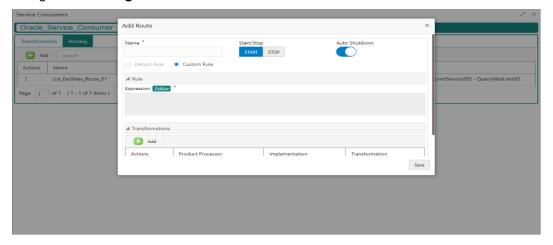


<consumer service=""></consumer>	Button		Navigates back to Consumer Services
Add	Button		Pops up add dialog
Search	Combo Box One		Provides search functionality with case insensitive (Routing Name)
Navigation: Re	outing -> 3 dot icon	(operation men	u)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Configuratio n	menu option		Pops up configuration dialog
Request Audit	menu option		Pops up request audit log

10.1 Add

User can create Routing manually.

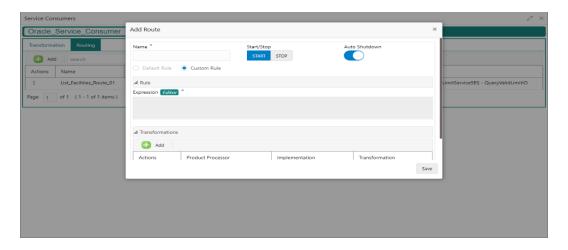
Navigation: Routing -> Add





Component b	Component briefing					
Component Name	Component Type	Is Mandatory	Comments			
Name	Text Box	Yes	Unique routing name			
Start / Stop	Switch	Yes	Predefined Values: START / STOP If routing is marked as STOP, then consumer request will fail at routing hub level only.			
Auto Shutdown	Switch	Yes	Predefined Values: ON / OFF If AutoShutdown flag is ON, then route state will be changed to STOP if route failure goes beyond the threshold failure limit based on the monitoring and alert configuration.			
Rule Type	Radio Button	Yes	Predefined Values: Default Rule / Custom Rule			
Transformati ons	Collapsible Header & Content					
Save	Button		Saves the routing details			

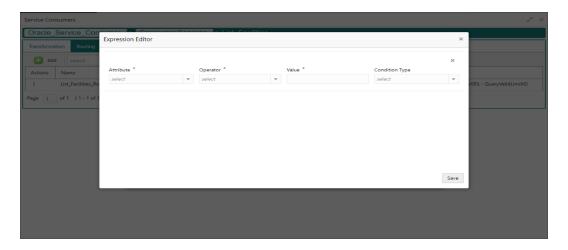
10.1.1 Add Routing with Custom Rule





Component briefing					
Component Name	Component Type	Is Mandatory	Data type	Comments	
Expression	Text Area	Yes		User can view expression that is formed through expression editor.	
Editor	Button			Pops up expression editor dialog	

10.1.2 Add Custom Rule using Expression Editor



Component briefing					
Component Name	Component Type	Is Mandatory	Comments		
Attribute	Combo Box One	Yes	Displays list of attributes relevant to consumer service		
Operator	Combo Box One	Yes	Logical operators to form an expression		
Value	Text Box	Yes			



Condition type	Combo Box One	Conditional Operators
Save	Button	Saves the expression

NOTE: String value should be quoted using single quotes (')

eg: 'abc'

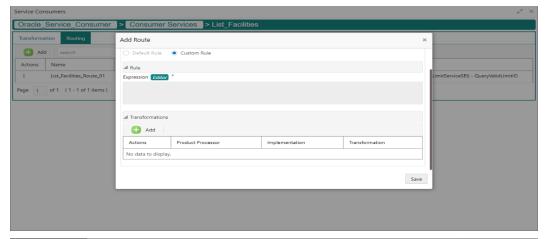
List value should be comma separated values and quoted using single quotes (')

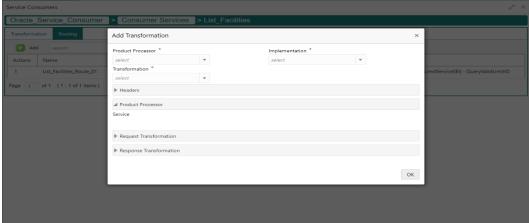
eg: 'abc,xyz,1.23,true'

10.1.3 Transformations

User can define the sequence of transformations for each routing in which request should be processed.

Sequence of transformations in list can be changed by using drag-n-drop feature.







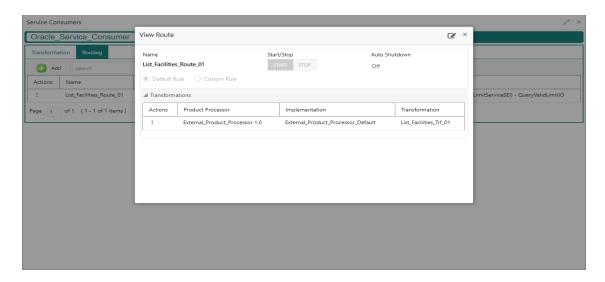
Component brid	efing		
Component Name	Component Type	Is Mandatory	Comments
Product Processor	Combo Box One	Yes	Displays provider list relevant to consumer
Implementation	Combo Box One	Yes	Displays implementation list relevant to selected provider
Transformation	Combo Box One	Yes	Displays transformation list relevant to select provider & implementation
Headers	Collapsible Header & Content		Displays header list relevant to selected implementation and transformation User can change the header values. Value can either be hardcoded or can be Velocity mapping.
Product Processor	Collapsible Header & Content		Displays service details relevant to selected transformation
Request Transformation	Collapsible Header & Content		Displays request transformation template
Response Transformation	Collapsible Header & Content		Displays response transformation template
ОК	Button		Saves the transformation details in list



10.2 View

User can view routing details and can also switch to edit form by clicking on edit icon.

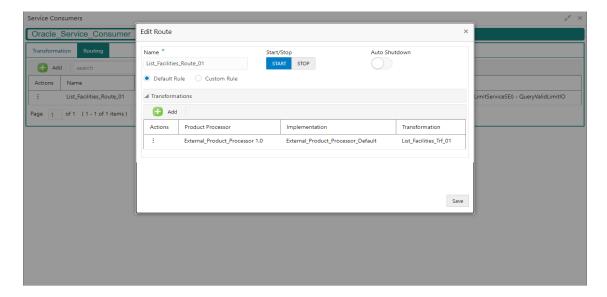
Navigation: Routing -> Operation Menu (3 dot icon) -> View



10.3 Edit

User can modify the routing details.

Navigation: Routing -> Operation Menu (3 dot icon) -> Edit

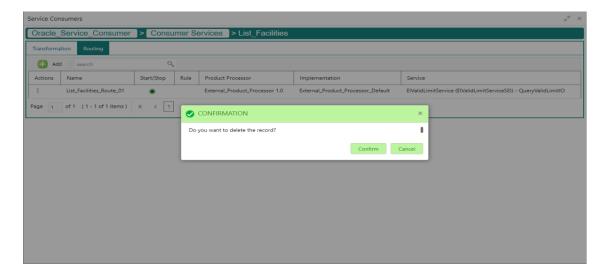




10.4 Delete

User can delete the routing.

Navigation: Routing -> Operation Menu (3 dot icon) -> Delete





11 Chaining

End-user will be able to define the sequence of transformations for each routing in which request should be processed.

Chaining can be achieved by using snapshot list.

Snapshot list stores the response body and response headers whenever the transformation is processed.

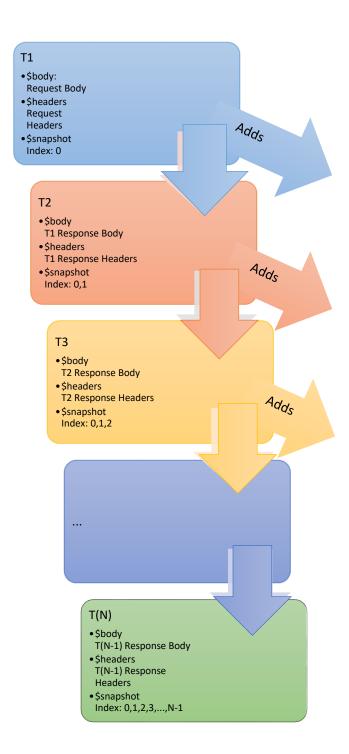
So, end-user can access response body or headers of all processed transformations at any given step.

Syntax:

\$snapshot.get(index).body or \$snapshot.get(index).headers

NOTE: \$body and \$headers will refer the response body and headers of previous step.





Snapshot List				
Index	body	headers		
0	Request Body	Request Headers		
1	T1 Response Body	T1 Response Headers		
2	T2 Response Body	T2 Response Headers		
3	T3 Response Body	T3 Response Headers		

12 Configuration

End-user can configure the properties w.r.t. monitoring and alerting.

End-user can configure the same at System level and granular levels such as Consumer, Consumer Service and Routing.

Navigation: Core Maintenance -> Routing Hub -> Configuration



Component b	riefing			
Component Name	Component Type	Is Mandatory	Validation	Comments
Monitoring	Collapsible Header & Content		Monitoring properties are mandatory if alert properties have been configured.	This section has properties that are required by Breaker for storing and aggregating the outcome of calls using WindowType and WindowSize.
Window Type	Radio Button	No		Predefined Values: COUNT / TIME The count-based sliding window aggregates the outcome of the last N calls (Window Size). The time-based sliding window aggregates the outcome of the calls



				of the last N seconds (Window Size).
Window Size	Number Box	No		This property is used to record the outcome of calls when the CircuitBreaker is closed. In case of count-based sliding window, window size will be N calls. In case of time-based sliding window, window size will be N seconds.
Alert	Collapsible Header & Content		Alert properties are mandatory if monitoring properti es have been configured.	This section has properties that are required for transitioning CircuitBreaker.
Minimum number of calls	Number Box	No		If minimumNumberOfCalls is 10, then at least 10 calls must be recorded, before the failure rate can be calculated. If only 9 calls have been recorded the CircuitBreaker will not transition to open even if all 9 calls have failed.
Failure rate threshold	Number Box	No		Configures the failure rate threshold in percentage. When the failure rate is equal or greater than the threshold the CircuitBreaker transitions to open and starts short-circuiting calls.
Email Alert	Collapsible Header & Content			This section has properties that are required for mail notification.



Email	Text Box	No	Once the failure rate crosses the
Addresses			failureRateThreshold, then end-user
			will be notified about the event via
			mail.
			This property will be semi- colon separated email addresses

Example

Let say

WindowType is Count

WindowSize is 20

Minimum number of calls is 10

Failure rate threshold is 50%

Configured properties will behave as below:

After 10 (min number of calls) calls, routing would get shutdown if 50% (failure rate) of atmost last 20 (window size) calls have failed.

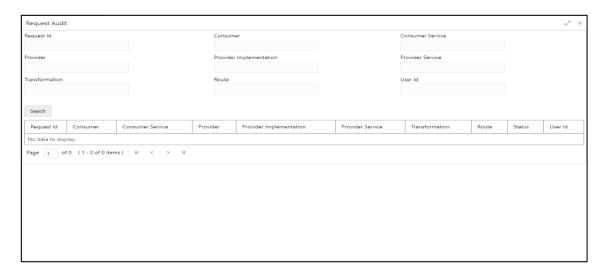
And if email address property is configured, then end-user will be notified as well.

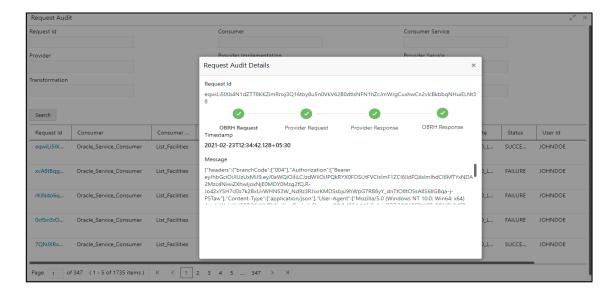


13 Audit Log

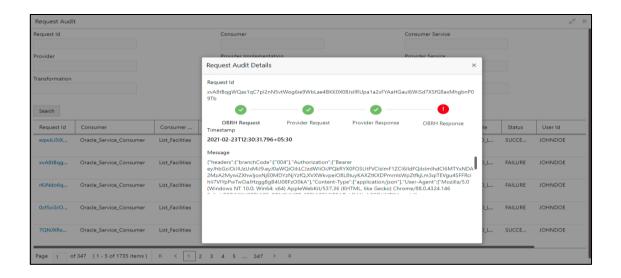
Check Audit log on the below navigation path for Oracle Banking Routing Hub

Navigation: Core Maintenance -> Routing Hub -> Request Audit









Component briefing				
Component Name	Component Type	Condition	Comments	
Consumer	Text Box		Consume Name	
Consumer Service	Text Box		Service Consumer Name	
Provider	Text Box		Provider Name	
Provider Implementation	Text Box		Provider Implementation Name	
Provider Service	Text Box		Provider Service Name	
Transformation	Text Box		Transformation Name	
Route	Text Box		Route Name	
Request Id	Text Box		Correlation Id	
User Id	Text Box		User Id	



Search	Button	Search is done based on below things:	Performs search operation with specified values
		Case insensitive	
Pattern matchi	Pattern matching	values	
Single / Multi Colu		Single / Multi Column search	

NOTE: Clicking on "RequestId" value will display step by step execution of request with data such as Routing Hub Request & Timestamp, Provider Request & Timestamp, Provider Response & Timestamp, Routing Hub Response & Timestamp.

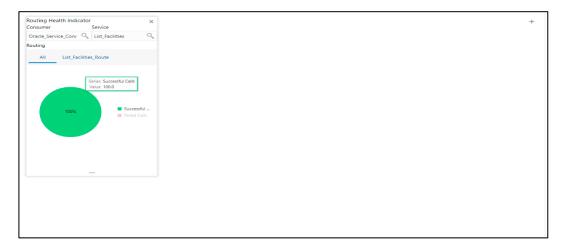


14 Dashboard

14.1 Routing Health Indicator Widget

User can view the metric information Successful calls vs Failed calls ratio of each routing.

NOTE: Failed calls here refer to the calls that are failed due to timeout issue.





15 Transformation Type

15.1 Velocity

Velocity is a Java-based template engine.

Velocity can be used to generate XML files, SQL, PostScript and most other text-based formats.

NOTE: In routing hub, Velocity will be used to generate JSON and XML.

• Using **\$body**, user can access request/response body.

Syntax: \$body.fieldName

Example: \$body.branchCode

Using \$headers, user can access request/response headers.

Syntax: \$headers["fieldName"][0]

Example: \$headers["branchCode"][0]

- Below are some available extension methods:
 - Date Conversion

Syntax: \$dateUtil.convert(inputDate, fromPattern, toPattern)

Parameters:

- inputDate String
- fromPattern String
- toPattern String

Returns: String

Please refer https://docs.oracle.com/javase/8/docs/api/java/text/SimpleDateFormat.html for different patterns

Default Value

Syntax: \$custom.defaultValue(inputValue, defaultValue)

Parameters:

- inputValue Object
- defaultValue String

Returns: Object



> Null Check

Syntax: \$custom.isNull(inputValue)

Parameters:

inputValue - Object

Returns: Boolean

> Random Number

Syntax: \$mathUtil.getRandom()

Returns: Object of Random class (java.util.Random)

> Xml Tool

Syntax: \$xml.methodName()

Please refer

 $\underline{\text{https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/XmlTool.}}$

<u>html</u>

Date Tool

Syntax: \$date.methodName()

Please refer

 $\underline{\text{https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/DateTool.}}$

<u>html</u>

Json Tool

Syntax: \$json.methodName()

Please refer

https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/JsonTool.

html

Math Tool

Syntax: \$math.methodName()

Please refer

https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/MathTool

<u>.html</u>

Number Tool

Syntax: \$number.methodName()

Please refer

https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/NumberTool.html



Escape Tool

Syntax: \$esc.methodName()

Please refer

https://velocity.apache.org/tools/3.0/apidocs/org/apache/velocity/tools/generic/EscapeTool.html

> Serialization of object into its equivalent Json representation

Syntax: \$custom.toJson(src)

Parameters:

src - Object

Returns: String

• If issue occurred with hyphen in velocity template of Request or Response Transformation, then use get method.

Example:

15.2 XSLT

XSLT is a language for transforming XML documents into other XML documents, or other formats such as HTML for web pages, plain text or XSL Formatting Objects, which may subsequently be converted to other formats, such as PDF, PostScript and PNG.

NOTE: In routing hub, XSLT will be used to transform arbitrary XML to JSON.

15.3 JSLT

JSLT is a complete query and transformation language for JSON.



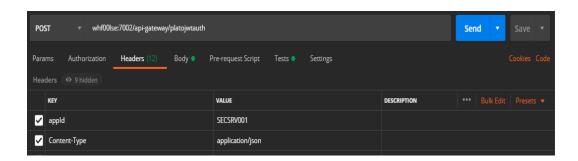
16 Oracle Banking Routing Hub Integration Specification 16.1 Token Generation

PlatoJWTAuth endpoint Signature -

- Path : /platojwtauth
- Headers:
 - appld : SECSRV001
 - Content-Type : application/json
 - Request Body:
 {
 "username": "",
 "password": ""
 }
 - ➤ Username and password will be base64 encoding of plaintext.
- Response Body:
 {
 "token": "",
 "userAlreadyLoggedIn": "Y",
 "expires_in": 3180,
 "home_entity_id": "DEFAULTENTITY",
 "multi_entity_admin": "N",
 "multi_entity_admin_locale": ""

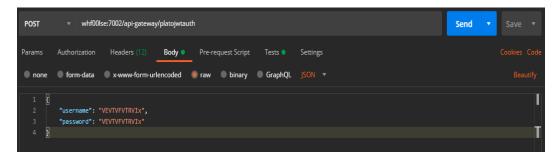
Example - Below are the screenshots

Headers





Request Payload



Response Payload



16.2 Synchronous Dispatch API Specification

Dispatch endpoint is the **single** entry-point for invoking the routes configured in Oracle Banking Routing Hub for services of a Service Consumer.

Dispatch endpoint Signature -

- Path:/route/dispatch
- Headers:
 - appld : CMNCORE
 - entityId : DEFAULTENTITY
 - userId : <user id>
 - branchCode : <branch code>
 - > Authorization : Bearer <Token>
 - > SERVICE-CONSUMER: < name of service consumer>
 - SERVICE-CONSUMER-SERVICE : <name of service consumer service>
- · Request Body:
 - Any valid JSON payload which shall act as input to the transformation template in request transformer.

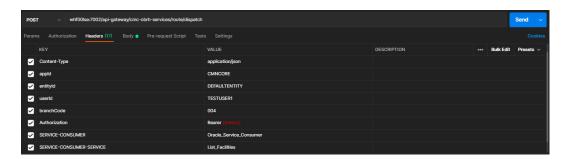


```
Response Body:
{
    "data": {}
    "messages": {}
}
```

- ➤ If the route invocation succeeds, data JSON member would contain the transformed (optional) response of the provided service. If it's a provided web service and no response transformation template is supplied, XML Soap Body of response would be converted into JSON object and sent in data JSON member.
- ➤ If the route invocation fails due to misconfigured route or connection time out to ServiceProviderImpl or some other reason, relevant error messages would be sent in messages JSON member. In that case, data JSON member would be null or empty.

Example - Below are the screenshots of route dispatch for ServiceConsumer Oracle_Service_Consumer and ServiceConsumerService List_Facilities

Headers

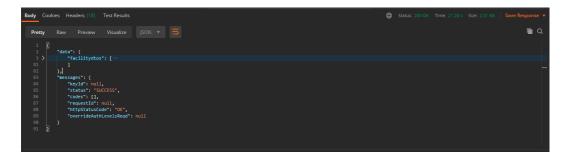


Request Payload





Response Payload on Successful Dispatch



Response Payload on Failed Dispatch



16.3 Asynchronous Dispatch API Specification

Dispatch endpoint is the **single** entry-point for invoking the routes configured in Oracle Banking Routing Hub for services of a Service Consumer.

Dispatch endpoint Signature -

- Path : /route/dispatch
- Query Params:
 - > isAsync : true
- Headers:
 - > appld: CMNCORE
 - > entityId : DEFAULTENTITY
 - > userId : <user id>
 - branchCode : <branch code>
 - > Authorization : Bearer <Token>
 - SERVICE-CONSUMER : <name of service consumer>

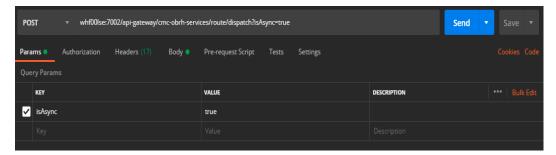


- SERVICE-CONSUMER-SERVICE : <name of service consumer service>
- · Request Body:
 - Any valid JSON payload which shall act as input to the transformation template in request transformer.
- Response Body:
 {
 "data": { "correlationId" : "" },
 "messages": {}
 }

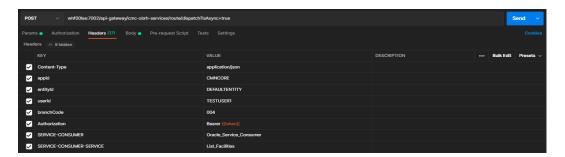
Example - Below are the screenshots of route dispatch for

ServiceConsumer Oracle_Service_Consumer and ServiceConsumerService List_Facilities

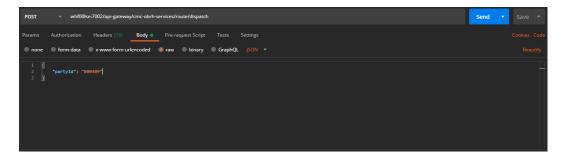
Query Params



Headers



Request Payload





Response Payload

```
| Pretty | Raw | Preview | Visualize | SON | Son
```

16.4 Asynchronous Dispatch Response API Specification

Response endpoint Signature -

- Path: /route/dispatchResponse/{Correlation-Id}
 - Correlation-Id will be coming from the response of dispatch endpoint.
- Headers:

```
> appld : CMNCORE
```

> entityId : DEFAULTENTITY

> userId: <user id>

branchCode : <branch code>

Authorization : Bearer <Token>

Response Body:

```
{
    "data": {}
    "messages": {}
}
```

➢ If the route invocation succeeds, data JSON member would contain the transformed (optional) response of the provided service. If it's a provided web service and no response transformation template is supplied, XML Soap Body of response would be converted into JSON object and sent in data JSON member.



➤ If the route invocation fails due to misconfigured route or connection time out to ServiceProviderImpl or some other reason, relevant error messages would be sent in messages JSON member. In that case, data JSON member would be null or empty.

Example - Below are the screenshots of route dispatch for

ServiceConsumer Oracle_Service_Consumer and ServiceConsumerService List_Facilities

Headers



Response Payload when request is still processing

Response Payload when request is processed (on Successful Dispatch)



Response Payload when request is processed (on Failed Dispatch)

```
Body Cookes Headers (NO Test Results

# Status: 400 Bad Request Time 91 ms Size 110 40 Save Response >

Fretty Raw Preview Visualize ason > 

# data": mull,

* "messages": (

* "recodes": (
```



17 Oracle Banking Routing Hub VM Arguments

Common Core Managed Server

- -Dcmc-obrh-services.server.port=<SERVER_PORT>
- -Dobrh.db.jndi=<CMNCORE_JNDI>
- -Dcmc-obrh-services.kafka.server.path=<KAFKA_SERVER_PATH>
- -Dcmc-obrh-services.zookeeper.server.path=<ZOOKEEPER_SERVER_PATH>

In order to receive routing failure mail notification via plato-alerts-management-service, then set the below property to true,

Otherwise set it to false

-Dcmc-obrh-services.kafka.enabled=<KAFKA_ENABLED>

In order to disable the modification of imported data (i.e. Factory Shipped data), then set the below argument to true (otherwise false).

-Dobrh.factory-shipped-data.readonly=true

In order to use Custom Truststore for HTTPS scheme,

- -Dobrh.truststore.path=<TRUSTSTORE_PATH>
- -Dobrh.truststore.password=<TRUSTSTORE_PASSWORD>

In order to do tomcat deployment,

- -Dobrh.server.isJavaEE=false (mandatory)
- -Dobrh.taskexecutor.corepoolsize=<CORE POOLSIZE> (default is 50) (optional)
- -Dobrh.taskexecutor.maxpoolsize=<MAX_POOLSIZE> (default is 50) (optional)
- -Dobrh.taskexecutor.queuecapacity=<QUEUE_CAPACITY> (default is 100) (optional)

In order to set Proxy settings for HTTPS,

- -Dhttps.proxyHost=<PROXY_HOST_NAME>
- -Dhttps.proxyPort=<PROXY_PORT>
- -Dhttps.nonProxyHosts=<NON_PROXY_HOST_LIST>
- -Dhttp.nonProxyHosts=<NON_PROXY_HOST_LIST>



NOTE: As per the Java Networking documentation, HTTPS protocol handler will use the same as the http handler (i.e. http.nonProxyHosts).

But in case of Weblogic, http.nonProxyHosts will not work for some reason.

So, use https non proxy host argument (i.e. https.nonProxyHosts).

In order to configure for SSL/Authentication enabled Kafka broker,

-Dspring.cloud.stream.kafka.binder.jaas.options.username=<Zookeeper user created for clients>

-Dspring.cloud.stream.kafka.binder.jaas.options.password=<Zookeeper user encrypted password for clients>

-Dspring.cloud.stream.kafka.binder.configuration.ssl.truststore.location=<location of client trust store certificate>

-Dspring.cloud.stream.kafka.binder.configuration.ssl.truststore.password=<Pass code of client truststore certificate>

NOTE: Please refer Plato Infrastructure Services Installation Guide.

Plato Core Managed Server

Oracle Banking Routing Hub is using Multipart for Import feature.

By default, spring supports max 1MB file size and 10MB request size for Multipart.

In order to import bigger files,

plato-api-gateway.multipart.max-file-size=<MAX_FILE_SIZE> (default is 1MB)

plato-api-gateway.multipart.max-request-size=<MAX_REQUEST_SIZE> (default is 10MB)

NOTE: -1 for no size constraint

Example:

plato-api-gateway.multipart.max-file-size=-1

plato-api-gateway.multipart.max-request-size=-1

