# Oracle® Banking Microservices Architecture Events Delivery Configuration User Guide



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Oracle Banking Microservices Architecture Events Delivery Configuration User Guide, Release 14.8.0.0.0

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### Purpose

This guide provides an overview to the events delivery module and takes you through the various steps involved in setting up and using the features offered by this module.

### Audience

This document is primarily intended for IT department or partners deploying Oracle Banking Microservices Architecture products. Some information may be relevant to IT decision makers and users of the application are also included. Readers are assumed to possess basic awareness and knowledge of Oracle Banking Microservices Architecture products.

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## **Related Resources**

For more information on any related features, refer to the following documents

- Oracle Banking Common Core User Guide
- Oracle Banking Getting Started User Guide
- Routing Hub Configuration User Guide

### Conventions

The following text conventions are used in this document:

Convention	Meaning	
boldface	Idface         Boldface type indicates graphical user interface elements associated vaction, or terms defined in text or the glossary.	
italic	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.	

### **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.

### Acronyms and Abbreviations

The list of the acronyms and abbreviations that you are likely to find in the guide are as follows:

Table Acronyms and Abbreviations

Abbreviation	Description	
OBRH	Oracle Banking Routing Hub	
EDP	vents Delivery Platform	
OBMA	Dracle Banking Microservice Architecture	
API	Application Programming Interface	



## **Basic Actions**

Table List of Basic Actions	
-----------------------------	--

Action	Description			
Approve	Used to approve the initiated report. This button is displayed, once the user click <b>Authorize</b> .			
Audit	Used to view the maker details, checker details, and report status.			
Authorize	Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker.			
Close	Used to close a record. This action is available only when a record is created.			
Confirm	Used to confirm the performed action.			
Cancel	Used to cancel the performed action.			
Compare	Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click <b>Authorize</b> .			
Collapse All	Used to hide the details in the sections. This button is displayed, once the user click <b>Compare</b> .			
Expand All	Used to expand and view all the details in the sections. This button is displayed, once the user click <b>Compare</b> .			
New	Used to add a new record. When the user click <b>New</b> , the system displays a new record enabling to specify the required data. Note: The fields which are marked with asterisk are mandatory.			
ок	Used to confirm the details in the screen.			
Save	Used to save the details entered or selected in the screen.			
View	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click <b>Authorize</b> .			
View Difference only	Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click <b>Compare</b> .			
Unlock	Used to update the details of an existing record. System displays an existing record in editable mode.			

## Symbols and Icons

The following symbols and icons are used in the screens.

Symbol/Icon	Function		
ль	Minimize		
7 6			
	Maximize		
	Close		
X			
~ `			
	Delete		
$\otimes$			
B	Edit		
0			
	Perform Search		
Q			
	Open a list		
<b>—</b>			
	Add a new record		
-			
	Navigate to the first record		
K			
	Navigate to the last record		
Ы			
~			

Table Symbols and Icons - Common



Symbol/Icon	Function
	Navigate to the previous record
•	
	Navigate to the next record
	Grid view
00	
88	
	List view
	Refresh
C†	
	Click this icon to add a new row.
+	
	Click this icon to delete an existing row.
	Click to view the created record.
E	
	Click to modify the fields.
£	

Table	(Cont.) Symbols and Icons - Common



Table (Cont.)	S	ymbols and	Icons -	Common
---------------	---	------------	---------	--------

Symbol/Icon	Function
•	Click to unlock, delete, authorize or view the created record.

## 1 Overview

Events Delivery Platform or EDP is an events subscription and routing platform. Any product which publishes events on the configured kafka topics used by Oracle Banking products can onboard itself to the EDP platform and publish the list of events it wants other products to consume.

Any product interested in consuming the events from any published topic can subscribe to that event. Once the subscription is done, a consumer is registered dynamically and starts listening to that topic.

The Publisher products are Oracle Banking products and are called Internal Products while the products which subscribe to the published events are called External Products. A topic can be subscribed to by multiple external products.

An event when produced by a publisher is consumed by the EDP service and passed on to the OBRH (Oracle Banking Routing Hub) via dispatch API for further routing to all the consumers who have subscribed to that event. To enable routing through OBRH a 'Service Consumers' named EDP is provided out of the box in OBRH. The external product which needs to subscribe to the events published by internal products should configure its 'Consumer Service' has the host API details under the EDP 'Service Consumer'. The list of all the services configured under EDP will come as dropdown values while subscribing for an event. After the successful subscription, the external products start listening to the events published on that topic.

There is also the Audits screen where we can see the events consumed by the external products. There is a whole range of filters to narrow down the search to messages of interest.



#### Figure 1-1 Architectural Diagram

## 2 Maintenance

This topic describes the systematic instructions to configure the events.

The products can be Internal or External. The internal products can publish the events. The external products can subscribe to the events published by the internal products.

The Maintenance screen displays the list of internal products added as a part of the Day 0 master script.

External Product can be added from the maintenance screen through the user interface provided. In additional, external products can also be imported. The option to export the external products is also provided to help moving the configurations from one environment to other.

Specify User ID and Password, and login to Home screen.

1. From Home screen, click Event Delivery. Under Event Delivery, click Maintenance.

The **Maintenance** screen displays the products related to events publishing and subscriptions.

Maintenance					:::
Displaying products related to events publis	shing and subscriptions				
Q Search					
+ New Product Import Produ	uct				All Internal Products External Products
5 Results					<u> </u>
External 0 events subscribed	External 0 events subscribed	External 3 events subscribed	Internal 21 events published	External 0 events subscribed	
DUMMY1	DUMMY2	EXTERNAL_PRODUCT	INTERNAL_PRODUCT	test	
DUMMY1	DUMMY2	Demonstration external product that	A demostration product that publishes events	test fn	
View subscribed events 🥒 …	View subscribed events 🥒 🚥	View subscribed events 🥒 🚥	View published events 🖉 🗄	View subscribed events 🥒 🚥	

#### Figure 2-1 Maintenance

 Table 2-1
 Maintenance - Field Description

Field	Description
Product Type	Displays the type of the product. The available options are: Internal External



n

Field	Description
Event Subscribed in Number	Displays the number of events subscribed for an external product.
Event Published in Number	Displays the number of events published for an internal product.
Product Name	Displays the name of the product.
Product Description	Displays the description about the product.

2. Click + New Product to add a new external product.

The New Product overlays screen displays.

=	ORACLE					(DEFAULTENTITY)	∰ <sup>C8</sup>	New Product	×
N	faintenance							Product Name	
	Displaying products related to events publishing	and subscriptions					20000	loos 100 50 CleanCore.	
	Q Search						_	Description	
	+ New Product Import Product						Ľ		
	External 0 events subscribed	External 0 events subscribed DUMMY2	External 3 events subscribed	Internal 21 events published	txternal 0 events subscribed			Type	Required
	DUMMYI	DUMMY2	Demonstration external product that	A demostration product that publishes events	test fn			Internal External	
	View subscribed events 🥒 …	View subscribed events	View subscribed events 🥒 …	View published events 🖉 🛍	View subscribed events 🥒 🚥				Add Product
	Page 1 of 1 (1-5 of 5 items)   (	K d I >							

 Table 2-2
 New Product - Field Description

Field	Description
Product Name	Specify the name of the new product.
Description	Specify the description of the new product
Product Type	Select the type of the product. The available options are: • External • Internal (Disabled

- 3. Click Import Product button to import a new product
- Click on the View Subscribed events button to view the subscribed events for an external product.
- click on the View Published events button to view the subscribed events for an internal product.

## 3 Published Events screen

This topic describes the systematic instructions to publish the events.

The user can view all the events published by an internal product by clicking on it (The events here refer to the Topics in terms of Kafka). These events are added as a part of Day 0 master script.



1. From Home screen, click Event Delivery. Under Event Delivery, click Maintenance.

The **Maintenance** screen displays the products related to events publishing and subscriptions.

Aaintenance					;
Displaying products related to events publish	hing and subscriptions				
Q, Search					
+ New Product Import Produc	et				All Internal Products External Produ
Results					
External 0 events subscribed	External 0 events subscribed	External 3 events subscribed	Internal 21 events published	External 0 events subscribed	
UMMY1	DUMMY2	EXTERNAL_PRODUCT	INTERNAL_PRODUCT	test	
	DUMMY2 DUMMY2	Demonstration external product that	A demostration product that publishes events	test fn	
View subscribed events	View subscribed events	View subscribed events	View published events	View subscribed events	
view subscribed events	View subscribed events	view subscribed events	View published events	View subscribed events	

#### Figure 3-1 Maintenance



Table 3-1 Maintenance - Field Description	Table 3-1	Maintenance - Field Description
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Field	Description
Product Type	Displays the type of the product. The available options are: Internal External
Event Subscribed in Number	Displays the number of events subscribed for an external product.
Event Published in Number	Displays the number of events published for an internal product.
Product Name	Displays the name of the product.
Product Description	Displays the description about the product.

2. Select the Internal Products tab located in the upper right corner of the screen to filter internal products. You can click on the desired internal product directly by paginating through the list of the products displayed.



 click on the View Published Events to view the subscribed events for an internal product. The View Published Events screen displays.

Figure 3-2	View Published Events	

. .-

\_ ....

. \_

Maintenance					11
↑ Back to list of products					
INTERNAL_PRODUCT A demostration product that publishes events					
List of published events					
Q Search					
+ New Event					
Event Name	Event Description	Topic Name	No. of subscriptions	Actions	
avro-topic	Demonstration topic of type Avro	, avro-topic	1	1	ð C.
simple-string-topic	Demonstration topic of type String	simple-string-topic	1	1	ð
topic1	topic1	, topic1	1	1	ð
avro-topic-test	avro-topic-test desc	avro-topic-test	0	1	ð C.
topic12	topic12	topic12	0	Ø 1	ð
topic13	topic13	ç topic13	0	1	ð
topic14	topic14	topic14	0	Ø 1	ð
topic15	topic15	ç topic15	0	1	ð
topic1ó	topic16	topic16	0	Ø 1	Ì
topic17	topic17	ç topic17	0	1	ð
Showing 10 of 21 items.					
		Load more			

Table 3-2 View Published Events - Field Description

Field Description	
Product Name Displays the name of the product.	
Description	Displays the description of the product.



Field	Description
Event Name	Displays name of the event published under the selected internal product.
Event Description	Displays description of the event published under the selected internal product.
Topic Name	Displays name of the topic for the event published under the selected internal product.
No. of subscriptions	Displays the number of subscriptions already done for the selected published event.

Table 3-2 (Cont.) View Published Events - Field Description

4. Perform the following actions for the events published.



- c. Click  $\mathsf{Q}$  icon to search the existing events under the internal product.
- d. Click **No of Subscription** link to external products who have subscribed to the selected event.

## 4 Subscribed Events Screen

This topic describes the systematic instructions to subscribe the events.

The user can view all the events subscribed by an external product by clicking on it. The user can also subscribe new event from this option.

While subscribing to a new Event, you need to map the Endpoints configured in OBRH. For that a Service Consumer named **EDP** is provided out of the box in 'OBRH' Day 0 script. You can go to the **OBRH** maintenance screen and your corresponding Service providers and Consumer Service. Once that is done, you can see the added Consumer Service as dropdown value in **Map Endpoints** screen of new subscription.

Once you subscribed, the **External Product** will start consuming all the messages published by the Publisher product on that event which you can check in the **Audit** screen.

Specify User ID and Password, and login to Home screen.

1. From Home screen, click Event Delivery. Under Event Delivery, click Maintenance.

The **Maintenance** screen displays the products related to events publishing and subscriptions.

playing products related to events publis	hing and subscriptions				
Q. Search					
					(
+ New Product Import Produ	ct				All Internal Products External Pro
lesults					
aternal 0 events subscribed	External 0 events subscribed	External 3 events subscribed	Internal 21 events published	External 0 events subscribed	
JMMY1	DUMMY2	EXTERNAL_PRODUCT	INTERNAL_PRODUCT	test	
MMY1	DUMMY2	Demonstration external product that	A demostration product that publishes events	test fn	
View subscribed events 🥒 …	View subscribed events	View subscribed events 🥒 …	View published events 🥒 🗒	View subscribed events	
ge 1 of1 (1-5 of5 items)	K ≪ 1 > >I				
e 1 of 1 (1-5 of 5 items)	K 4 1 > X				
e 1 of 1 (1-5 of 5 items)	K ( <b>i</b> → 3)				
ge 1 of 1 (1-5 of 5 items)	к • <u>т</u> • я				
ge 1 of 1 (1-5 of 5 items)	к • <u>т</u> • х				

#### Figure 4-1 Maintenance



Table 4-1 Maintenance - Field Description

Field	Description
Product Type	Displays the type of the product. The available options are: Internal External
Event Subscribed in Number	Displays the number of events subscribed for an external product.
Event Published in Number	Displays the number of events published for an internal product.
Product Name	Displays the name of the product.
Product Description	Displays the description about the product.

2. Select the External Products tab located in the upper right corner of the screen.

The list of all the external product cards appears.

 click on the View Subscribed Events to view the subscribed events for an external product.

The View Subscribed Events screen displays.

#### Figure 4-2 View Subscribed Events

Back to lis	st of products					
UIFAX						
dit Rating I	Bureau					
<b>L</b> Search	n					
– New Su	ubscription					
roduct ame	Event Name	Event Description	Service Consumer	Consumer Service	Actions	
BBRN	AlertEvent	For e-mail approval and Customer notification	EDP	OBO-EQUIFAX	1	$\otimes$
BCM	CashWithdrawalTmEvent	Update to create cash withdrawal data from master table to obcm report sche	EDP	Temenos	Ø	$\otimes$
BCM	Test_Event_2	Test Event Description 2	EDP	Temenos	1	$\otimes$

Table 4-2 View Subscribed Events - Field Description

Field	Description
Product Name	Displays the name of the product.
Description	Displays the description of the product.
Event Name	Displays name of the event published under the selected internal product.
Event Description	Displays description of the event published under the selected internal product.



Table 4-2	(Cont.) View Subscribed Events - Field Description
-----------	--

Field	Description
Service Consumer	Displays name of the service consumer for the selected subscribed event.
Consumer Service	Displays the consumer service details for the selected subscribed event.

4. Perform the following actions for the events published.

a.	Click	icon to edit the event.
b.	Click Click	icon to delete the event.
c.	<sub>Click</sub> Q	icon to search the existing subscribed events under the external product.

• Adding a new Subscription This topic describes the systematic instructions to add a new subscription.

### 4.1 Adding a new Subscription

This topic describes the systematic instructions to add a new subscription.

Specify User ID and Password, and login to Home screen.

- 1. From Home screen, click Event Delivery. Under Event Delivery, click Maintenance.
- 2. Click + New Subscription to add a new subscription. The Maintenance screen with added subscription appears.

The **Maintenance** screen displays the products related to events publishing and subscriptions.

Back to list of subscriptions				
Subscribe for DUMMY2				
Q. Search by Event				
Product Name	Event Name	Event Description	Topic Name	Actions
INTERNAL_PRODUCT	avro-topic	Demonstration topic of type Avro	- avro-topic	0
INTERNAL_PRODUCT	avro-topic-test	avro-topic-test desc	avro-topic-test	0 B
INTERNAL_PRODUCT	simple-string-topic	Demonstration topic of type String	- simple-string-topic	0
INTERNAL_PRODUCT	topic1	topic1	topic1	0
INTERNAL_PRODUCT	topic12	topic12	topic12	0
INTERNAL_PRODUCT	topic13	topic13	topic13	0
INTERNAL_PRODUCT	topic14	topic14	+ topic14	0
INTERNAL_PRODUCT	topic15	topic15	topic15	0
INTERNAL_PRODUCT	topictó	topic16	+ topic1ó	0
INTERNAL_PRODUCT	topic17	topic17	topic17	0
Showing 10 of 21 items.				
		Load more		

Figure 4-3 Maintenance



Field	Description
Product Name	Displays the name of the product.
Event Name	Displays name of the event published under the selected internal product.
Event Description	Displays description of the event published under the selected internal product.
Topic Name	Displays name of the topic of the event subscribed under the selected external product.

Table 4-3 Maintenance - Field Description

3. Perform the following actions for the events published.



icon to search the existing subscribed events under the external product.

4. To map the Endpoints in OBRH, navigate to the OBRH maintenance screen, and add your corresponding Service providers and Consumer Service. The added Consumer Service is available in the 'Consumer Service' dropdown while setting up Map Endpoints screen of new subscription.

#### Note:

Refer to the **Routing Hub Configuration User Guide** to know more about the **Service Providers** and **Consumer Service**.

5. In the **New Subscription** screen, click on the icon to map the Endpoints in OBRH by subscribing to a new Event. The Map Endpoint overlay screen appears with the EDP is added as a Service Consumer.

The Map Endpoints overlay screen appears.



aintenance				Subscriber Product
Back to list of subscriptions	DUMMY2			
ubscribe for DUMMY2	Publisher Product			
Q Search by Event				INTERNAL_PRODUCT
Product Name	Event Name	Event Description	Topic Name	Event Name
INTERNAL_PRODUCT	avro-topic	Demonstration topic of type Avro	avro-topic	avro-topic
INTERNAL_PRODUCT	avro-topic-test	avro-topic-test desc	avro-topic-test	Service Consumer
INTERNAL_PRODUCT	simple-string-topic	Demonstration topic of type String	simple-string-topic	EDP
INTERNAL_PRODUCT	topic1	topic1	topic1	Consumer Service
INTERNAL_PRODUCT	topic12	topic12	topic12	Select Consumer Service
INTERNAL_PRODUCT	topic13	topic13	topic13	
INTERNAL_PRODUCT	topic14	topic14	topic14	
INTERNAL_PRODUCT	topic15	topic15	topic15	
INTERNAL_PRODUCT	topic16	topic16	topic10	
INTERNAL_PRODUCT	topic17	topic17	topic17	
Showing 10 of 21 items.				
		Load more		
				and the second se

#### Figure 4-4 Map Endpoints for Event Subscription

 Table 4-4
 Map Endpoints for Event Subscription - Field Description

Field	Description
Subscriber Product Name	Displays the name of the subscribed external product.
Publisher Product Name	Displays name of the publisher internal product.
Event Name	Displays name of the event under the product.
Event Description	Displays description of the event subscribed under the selected external product.
Service Consumer	Displays name of the service consumer.
Consumer Service	Select the consumer service as setup in the OBRH from the drop-down list.

6. Click **Subscribe** to subscribe the event for external product.

The success message of event subscribed appears.



## 5 Audit screen

This topic describes the systematic instructions to audit events.

Specify User ID and Password, and login to Home screen.

1. From Home screen, click Event Delivery. Under Event Delivery, click Audit.

#### To view the messages of the external products:

- 2. Select the search criteria to filter out the messages.
  - a. From the Select Publisher drop-down list, select the publisher product.
  - **b.** From the **Select Published Event** drop-down list, select the published event for the product.
  - c. From the Select Subscriber drop-down list, select the subscriber.

### Note:

Since there can be multiple subscribers to a single event, user can select All or any Subscriber.

- d. From the Select Status drop-down list, select the status of the event.
- e. From the From Date and Time date calendar, specify the start date and time.
- f. From the To Date and Time date calendar, specify the end date and time.
- g. From the Select JSON Search Key drop-down list. select the json key.

### Note:

This field appears, when the **Select Status** is selected as **Failure** or **Unsubscribed**.

- h. From the Enter JSON Search Value, specify the json search value.
- 3. Click **Search**, based on search criteria the search result appears.

The Audit Search with Filters screen appears.



ludit					-
NTERNAL_PRODUCT	avro-topic	•	All	•	FAILURE 👻
10/2024, 12:00 AM	1/11/2024, 12:00 AM	Ē	Select JSON Search Key	•	Enter JSON Search Value
			Select JSON Search Key		
Search			branchCode		
			userld		
			applicationNumber		
			nartvld		

### Figure 5-1 Audit

## A Functional Activity Codes

Screen Name	Functional Activity Code	Action	Description
AUDIT	PLATO_FA_EDP_AUDIT	VIEW	Search audit logs API for the audit screen
MAINTAINANCE	PLATO_FA_EDP_EVENT_UP DATE_ACTIONS	UPDATE	Create/Update/Delete the Events details (Internal products)
MAINTAINANCE	PLATO_FA_EDP_EVENT_VI EW_GETALL	GET	View the Events published with subscriber count
MAINTAINANCE	PLATO_FA_EDP_EVENT_G ETALL	GET	View Events published by Internal product
MAINTAINANCE	PLATO_FA_EDP_PRODUCT	VIEW	View Products (Internal/ External)
MAINTAINANCE	PLATO_FA_EDP_PRODUCT _EXPORT	EXPORT	Export Product in JSON format file
MAINTAINANCE	PLATO_FA_EDP_PRODUCT _GETALL	GET	View Products(Internal/ External)
MAINTAINANCE	PLATO_FA_EDP_PRODUCT _IMPORT	IMPORT	Import Product from JSON format file
MAINTAINANCE	PLATO_FA_EDP_PRODUCT _UPDATE_ACTIONS	UPDATE	Create/Update/Delete Product details such as description
MAINTAINANCE	PLATO_FA_EDP_SUBSCRIP TION_GETALL	GET	Get/Filter subscriptions for External Product
MAINTAINANCE	PLATO_FA_EDP_SUBSCRIP TION_SEARCH	SEARCH	Search subscriptions for External Product
MAINTAINANCE	PLATO_FA_EDP_SUBSCRIP TION_UPDATE_ACTIONS	UPDATE	Create/Update/Delete subscription for External Product

### Table A-1 List of Functional Activity Codes

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