# Oracle® Retail Integration Cloud Service Universal Service Mapper User Guide



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ORACLE

Oracle Retail Integration Cloud Service Universal Service Mapper User Guide, Release 23.1.201.0

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# Preface

This document describes the Universal Service Mapper user interface. It provides step-bystep instructions to complete most tasks that can be performed through the user interface.

### Audience

This document is for users and administrators of Oracle Retail Universal Service Mapper. This includes merchandisers, buyers, business analysts, and administrative personnel.

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- Exact error message received
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(Data Model documents can be obtained through My Oracle Support.)

### Conventions

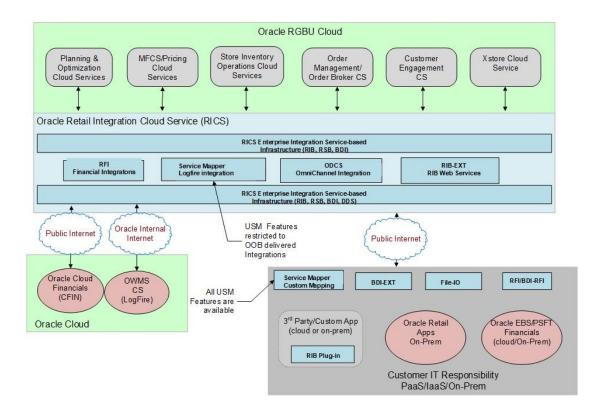
The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
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.



# 1 Documentation Note

Universal Service Mapper is one of the RTG Tools that is packaged with the RICS SaaS Cloud Service and the Retail Integration Suite for the 22.1.201.0 Release.



## **RICS USM**

The RICS version of USM is deployed with a supported Out-Of-Box Integration, such as the Oracle Warehouse Management Service (LogFire) integration. The features available to customers are restricted to READ-ONLY and to pre-configured integration flows.

### **Retail Integration Suite's USM**

The USM installation into any Customer Responsible Environment (On-Prem/IaaS/PaaS) will be full featured as documented in this Guide.

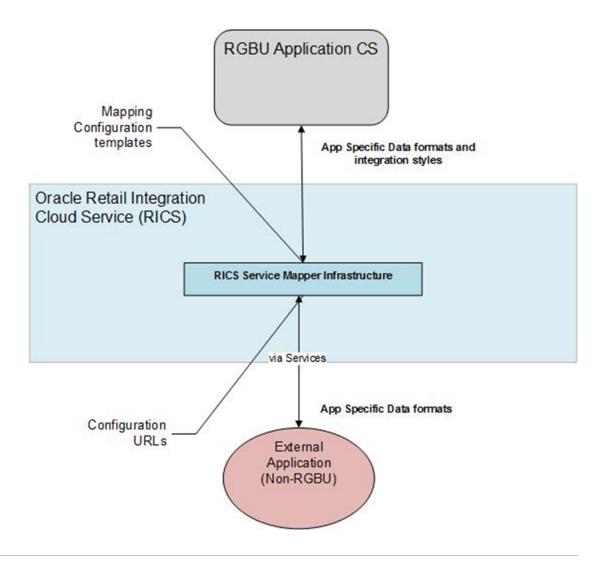


# 2 Introduction

The Universal Service Mapper (USM) is an application component of Retail Integration Cloud Service (RICS) that allows the definition, mapping, and configurations needed to support the integration between two heterogeneous applications. Typically, this is an Oracle Retail application found in the Merchandise Foundation Cloud Service and an application external to Oracle Retail, such as Oracle Warehouse Management.

RICS USM supports two of styles of input for an integration: message-based and servicebased. Within the RGBU, message-based flows are performed across the Retail Integration Bus. External applications are predominately service-based, so the output of USM is a call is to an external service. Service calls from an external service are transformed to the correct style and format for the internal application.

The functional requirement for the USM is to act as the place to transform the Oracle Retail application data style and the data format into the data format expected by the external application, and then to perform the transformations of the external application's response.





# Support Features

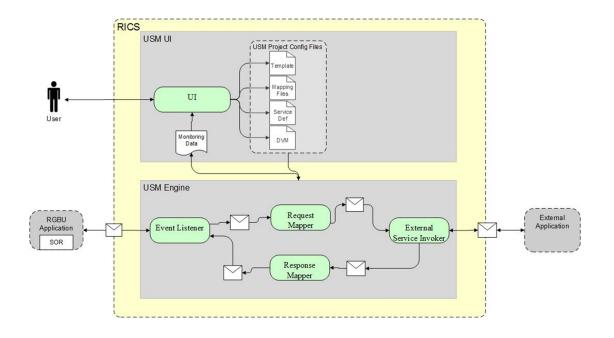
Feature Set	Product Offering			
	On-premises (RIB)	SaaS (RICS)	Hybrid Cloud (USM on PaaS/laaS integrated with RICS on SaaS)	
Create New/Custom Projects	Self-managed	Oracle Development managed (design- time)	Self-managed	
Manage Existing Projects	Self-managed	AMS managed	Self-managed	
Manage Configuration	Self-managed	AMS managed	Self-managed	
Create new Service Mappers	Self-managed	Oracle Development managed (design- time)	Self-managed	
Manage Existing Service Mappers	Self-managed	AMS managed	Self-managed	
Create new DVMs	Self-managed	Oracle Development managed (design- time)	Self-managed	
Manage Existing DVM's	Self-managed	AMS managed	Self-managed	
Import/Export	Self-managed	AMS managed	Self-managed	
Monitoring/Traceability	Self-managed	AMS managed	Self-managed	
View Logs	Self-managed	AMS managed	Self-managed	

The following table lists the USM features supported in various product offerings.

# 3 USM Functional Architecture

Universal Service Mapper (USM) is a platform that allows you to define, map, configure and deploy projects that are required to maintain a seamless integration between two heterogeneous applications.

The application has two components, the User interface and the Engine.



### **USM User Interface**

The user interface gives you the ability to do the following:

- Create and Manage:
  - Projects in USM
  - Service Mapper Files
  - Drivers
  - Configuration Files
- View:
  - App statistics
  - Metrics about the message flow
  - System Logs



### **USM Engine**

The USM engine is the logic part of the system. It is where the data is received from the source application, mapped to other data, and the mapped data is sent to the target applications. Data is communicated through service calls.

USM hosts all the necessary web services required by the participating sender and receiver applications. USM has a configuration file that needs up-to-date service URLs for the participating applications.

USM also has the templates that contain the mapping information, the code that does the mapping, and also the configuration files that need to be configured to make the application work.

### **USM Project**

A USM Project has the templates that contain the mapping information, the code that does the mapping, and the configuration files that need to be configured to make the application work.

There is one Project per integration. For example, there would be one Project integrating RMS with Oracle Warehouse Management Cloud Service.

There can be multiple Projects (integrations) hosted by one USM instance. For example, a single USM instance can host the integration between Oracle Warehouse Management and RMS, and an integration between Oracle Customer Management and Oracle ATG Web Commerce.

Oracle Retail creates the initial USM Projects for supported integrations and packages and ships them with the base product.

### **Modules**

Each project in USM has a property named "Modules". The artifacts of this project are identified by the modules associated with the project. Each artifact having a prefix with a project module is associated with the project. Each project can have a minimum of one module and a maximum of 4 modules.

### **Templates**

Template files are the main files holding the actual mapping information used during a mapping. Templates associate different fields in different payloads with one another, mapping fields from one application format to another using the XML format.

There are three different types of templates being used to map data. These files are of the XML data descriptors. The three types are:

- Request Templates
- Response Templates
- Failure Templates

The templates are used to perform data mapping when the participating applications need to communicate with each other.



The Request templates are used when the participating source application sends a message with data that has to be mapped to destination application data format.

The Response templates are the result of the mapping that has been performed on the source application data format.

The Failure templates are also the result of the mapping but, instead of actual mapped data, they contain error codes and specified error messages because of errors caused by missing data or unexpected server events that might have occurred during application runtime.

For greater detail refer to the USM Implementation Guide for the template content and use of the templates.

### Service Definition Files

The service definition JSON files store the data required for the communication between the participating applications. They contain the host URLs of the source and destination applications along with usernames and passwords, if any, for such applications.

These are of the format JSON, meaning the data is stored in a key-value fashion. The USM application uses the RIB-LGF and LogFire URL set here to communicate with the respective applications.

The USM Implementation will give a greater insight about the fields that can be configured and the usage of the file.

### **Orchestration Files**

These files which contain the actual mapping logic. These are in smo format. These files contain scripts that map data coming from a source application to a data format the destination application can work with. The mapping happens with all the fields mapped using a one-to-one mapping. Fields not required, if any, by any of the applications are simply dropped, and non-present fields present in any of the applications is mapped with a predetermined default value.

Note:

These scripts are strictly read-only and should not be modified.

### **Domain Value Maps**

A Domain Value Map (DVM) is a table containing mappings between related information in participating applications. They enable you to equate lookup codes and other static values across applications. These DVM tables are used in transforming the messages from one system into the expected format of the other system.

Administrators can extend the list of mapped values by adding more maps. The DVM data should be synchronized with what the participating applications use. This synchronization should occur before any initial loads are run or any incremental transactional flows are initiated.



Data that needs to be stored as foundation/seed data and data that does not have many/any modifications, is stored in Static DVMs. These DVMs are created beforehand. Data can be added or removed at any time but, the data is mostly unchanging data.

Data that is to be stored during runtime of the application is stored in Dynamic DVMs. The data is stored and fetched in these DVMs as per request and the data present here can change, as per request, anytime during the runtime of the application.

# 4 USM Technical Architecture

#### **Universal Service Mapper** Service Mapper Orchestrator **Request Service Mapper Template** Transform Incoming Outgoing Request Request Object Object Request Abstract Service Object MMM→ Event Service Service Listener Mapper Consumer (Delegate) Invoke External Service + MMM Service Provider Response Service **Response Service Mapper Template** Object Service Def Outgoing Response Object json Transform ncoming Respons Object USM Database Domain Value Map Service Metrics

#### Universal Service Mapper Architecture

Universal Service Mapper has 3 major components:

- Event Listener [Abstract Service Mapper, Service Def JSON]
- Service Mapper Orchestration [Orchestrator, Template and DVM]
- External Service Invocation and Service Provider

### **Event Listener**

The event listener is a service hosted by the USM application which is open to receiving data from any application that is connected to it. The application here is either RIB-LGF or WMS Cloud. The applications have the following URL pattern set in their target for USM.

http://<host>:<port>

When application sends data, the event listener internally calls the abstract service mapper which determines family, message type and the operation(s) from the message received by referring to the Service Def JSON file.



### Service Mapper Orchestration

The abstract service mapper now calls the service mapper orchestrator, which decides what data populates the mapper templates. The orchestrator does the field-by-field mapping from the source application to the destination application. Certain key-value pairs in the DVM maintain context between the applications.

### Service Provider and External Services

The Service Mapper Orchestrator calls the services hosted by the service providers after the mapping operations are completed. The service providers here are either RIB-LGF or WMS Cloud, which consume these services through USM. The calls are REST calls. USM holds the information necessary for it to call these services in a JSON file with the prefix <code>external\_env\_info</code> for the respective application. These are stored as key-value pairs in a JSON file.



# 5 USM User Interface

The USM web application allows you to manage and create project and project artifacts for service mapping to enable communication between two different applications.

There are 3 different type of users in USM who will have access to certain tabs based on their role. The Admin Role user is the administrator of the application and has access to all the tabs; the Operator Role user has restricted access to certain functions; and the Monitor Role user can only view the information. The following list shows the tabs with decreasing order of access from top to bottom.

- Admin Role user
  - Admin tab
  - Configurations tab
- Operator Roles user
  - Mapper Designer tab
  - Test Drivers tab
  - Import/Export tab
- Monitor Role user
  - Home tab
  - Monitoring tab
  - System Logs tab

### Admin

The Admin tab allows Administrators to manage projects and project access. In the projects sub-tab, administrators can create, update, rename, and delete projects.



ORACLE Universal Service Mapper			Welcome, rics.admin Tue Mar 15 11:03 UTC 2022 ()
Select Project: LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configuration	s System Logs	
Manage Projects Manage Access			
Manage Projects			
	● Create ○ Manage ○ Rename		
Project Name*:			
Module1 Name*:			
Module2 Name:			
Module3 Name:			
Module4 Name:			
	Create		
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In the Access sub-tab, Administrators can create and manage access. Using the **Create** option, you can add users to projects by providing usernames and username aliases.

		elcome, rics.admin 11:03 UTC 2022i
Select Project: LogFireIntegration ~		
Home Mapping Designer Test Driver	Monitoring Admin Import/Export Configurations System Logs	
Manage Projects Manage Access		
Manage Access		
	Oreate O Manage	
Select Project*:	LogFireIntegration ~	
Username Alias*:	usmAdminUiUserAlias v or	
Username*:		
	Save	
Convrict © 2021 Oracle and/or its affiliates All richts rese		

Using the Manage option, you can remove user access.

ORACLE Universal Service Mapper	Welcome, rics.admin Tue Mar 15 11:03 UTC 2022)
Select Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Import/E Manage Projects Manage Access	xport Configurations System Logs
Manage Access	
⊖ Crea	te 🖲 Manage
Select Project*:	LogFireIntegration ~
Select Username Alias*:	usmAdminUiUserAlias ~
Dele	te Access
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# **Configuration Tab**

Configuration tab allows you to edit configuration files and manage DVM for the selected project. In the **Edit USM Configuration** tab, you can edit the configuration file.

RACLE Universal Service Mapper	Welcome, rics.admin Tue Mar 15 11:04 UTC 2022
ielect Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM Manage Credentials	
Edit USM Configuration	
Select File	2
{ "ExternalEnvInfo": [	
"name": "#https.proxyHost", "value": "www-proxy.us.oracle.com"	
), (	
"name": "https.proxyHost",	
"value": "outbound-proxy.cne-outbound-proxy.svc.occloud"	
),	
{	
"name": "https.proxyPort", "value": "3128"	
},	
"name": "http.nonProxyHosts",	
"value": "*.oracle.com/localhostl.occloud"	li.

In the **Manage DVM** tab, you can edit DVM data. It also allows you to create, delete and rename DVM.

DRACLE Universal Service Mapper		Welcome, rics.admin Tue Mar 15 11:05 UTC 2022
Select Project: LogFireIntegration ~		
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM Ma	anage Credentials	
Manage DVM		
	● Edit ◯ Create ◯ Rename	
	onCode_dvm.LogFireIntegration ~	
		<b>o</b>
Name	Value	Save/Edit
РОТуре	1000	1
Copyright © 2021 Oracle and/or its affiliates. All rights reserved.		

In the Manage Credentials tab, you can update credentials.



RACLE Universal Service Mapper	Welcome, rics.admir Tue Mar 15 11:08 UTC 2022
elect Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs
Edit USM Configuration Manage DVM Manage Dynamic DVM	anage Credentials
View Or Edit Credentials	
view or Eait Gredentials	
Update Credenti	ials
Username Alias	rsysOauth2ApplicationClientAlias
Username	Enter Username
Password	Enter Password
	save Cancel
Update Credenti	ials
Username Alias	IgfOauth2ApplicationClientAlias
Username	Enter Username
Password	Enter Password
	save Cancel
(	
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# **Mapping Designer**

This tab allows you to manage and view Service Mappers for the selected project. In the **Edit Service Mappers** sub-tab you can browse existing service mappers, edit service mapper files, rename mappers, and delete mappers.

ACLE Universal Ser	vice Mapper We Tue Mar 15	elcome, rics. 11:12 UTC 2
t Project: LogFireIntegration ~		
me Mapping Designer T	est Drivers Monitoring Admin Import/Export Configurations System Logs	
it Service Mappers Add Servi	ice Mappers	
Mapper File Browser	Mapper File Editor	
LogFireToRibASNOutFror ~ Select Mapper File	LogFireToRibASNOutFromObLoad_ServiceMappingOrchestration.smo 🥢	2
LogFireToRibASNOutFromObL/ LogFireToRibASNOutFromObL/ LogFireToRibASNOutFromObL	class LogFirdToRibASNOutFromObLoadMapperService extends AbstractServiceMapper{     def invokeExternalRestService(){         String url = operationMapping destinationServiceEndpoint         log.debug "url="+ url url         externalServiceResponse = sendPostRequest(url, headers, externalServiceCallRequestData)         log.debug "externalServiceResponse="+ externalServiceResponse"     }	
	<pre>def prepareRestToRestRequestPipelineMappingModel(def currentOperation){     def extEnvInfoMap = { Source_System_Identifier_Code_Key : Util.instance.getExtEnvInfoValue("Source_System_Identifier_Code_Key")</pre>	1

In the Add Service Mapper sub-tab, you can create new service mappers.



ORACLE Universal Service Mapper	Welcome, rics.admin Tue Mar 15 11:13 UTC 2022(j)
Select Project LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers	
Add new Service mapper	
	Prev Next
Select Mapper Module*: LogFireToRib	
Add Cancel	
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### **Test Data Drivers**

Test Data Drivers is a testing tool that enables you to test the service call by reading data from the file system and calling the service.

Test Drivers Tab allows you to manage and view data drivers. In the **Execute Drivers** sub-tab you can start or stop data drivers. It also allows you to edit the data driver files.

me Mapping Designer Test Drive	rs Monitoring Admin Import/Export Configurations System Logs	
ecute Drivers Manage Drivers		
xecute Drivers		
Select Driver:	LogFireToRibInvHistory ~	
Adapter Status:	\$	
Action:		
File Import/Export:	Browse No file selected. Save Export	
Log:	Click here to view log file.	
Priver File Editor		
elect File: LogFireToRibInvHistoryDataDrive	PoquestDataMapping template	C

In the **Manage Drivers** sub-tab, you can create new data drivers. It also allows you to rename or delete an existing data driver.



ORACLE: Universal Service Mapper	Welcome, rics.admin Tue Mar 15 11:14 UTC 2022)
Select Project, LogFireIntegration ~ Home Mapping Designer Test Drivers Monitoring Admin Import/	Export Configurations System Logs
Execute Drivers Manage Drivers	
Manage Drivers	
© Cre	ate 🔿 Update
Select Driver Module*:	LogFireToRib v
Driver Family*:	
	Add
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# Import/Export Tab

The Import/Export tab allows you to import and export project files in .zip format.

DRACLE Universal Service Mappe	Welcome, ries.admir Tue Mar 15 11:14 UTC 2022
Select Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers	nitoring Admin Import/Export Configurations System Logs
Export Project	
Select Project:	InjectorService ~
	Export
Import Project	
Select Project*:	InjectorService ~
Project File*:	Browse No file selected.
Import Option*:	Overwrite ○ Merge
	Import
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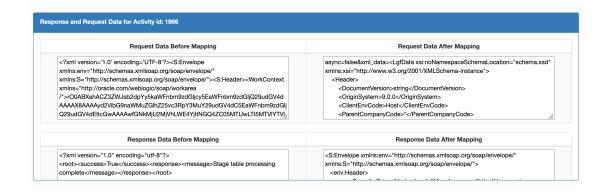
### Home

The **Home** tab displays the summary of the service mapper application. The System summary panel displays the available mappings, service activity count, and system health, successful and failed activity.



	OgFireIntegration ~	Mapper			Welcom Tue Mar 15 11:15	ne, rics.adr 5 UTC 2022
ome Ma	apping Designer Test Driv	rers Monitoring Admin	Import/Export Configurations	System Logs		
vstem Summa	ary					
Avail	lable Mappings 20	Service Activity Count 1761	System Health	Successful Activity 1695	Failed Activ	rity
SM Metrics fo	or last 24hr					
SM Metrics fo	or last 24hr		Status Filter No Filter	<ul> <li>Search activities by ser</li> <li>Showing 1 to 10 of 96 record</li> </ul>		
SM Metrics fo Activity Id	or last 24hr Start Time	End Time	Status Filter No Filter Mapper Serv	Showing 1 to 10 of 96 reco		
		End Time Mar 15 10:42 UTC 2022		Showing 1 to 10 of 96 reco	rds first prev next las	t Page 1 /
Activity Id	Start Time		Mapper Serv	Showing 1 to 10 of 96 reco ice Name eMappingOrchestration.smo	rds first prev next las	t Page 1 / Status
Activity Id 1986	Start Time Mar 15 10:42 UTC 2022	Mar 15 10:42 UTC 2022	Mapper Serv RibToLogFireStockOrder_Servic	Showing 1 to 10 of 96 reco ice Name eMappingOrchestration.smo eMappingOrchestration.smo	rds first prev next las Source Operation POCre	Status
Activity Id 1986 1985	Start Time Mar 15 10:42 UTC 2022 Mar 15 10:42 UTC 2022	Mar 15 10:42 UTC 2022 Mar 15 10:42 UTC 2022	Mapper Serv RibToLogFireStockOrder_Servic RibToLogFireStockOrder_Servic	Showing 1 to 10 of 96 recording to 10 of 96	rds first prev next las Source Operation POCre SOCre	status

USM metrics for the Today panel show the mappings since midnight. You can search, filter, and select a mapping from the table to view the request and response mapping before and after the mapping.



### Monitoring

Monitoring tab displays USM metrics in a tabular format. The data on the monitoring tab has filters service mapper name and Date. User can view all the service mappings with the selected filters using the provided pagination buttons. User can also view the request and response data before and after the mapping by clicking the service mapping activity in the table. By default the monitoring tab displays the service mappings for all the mappers from last 24 hours.



_	Universal Service N	lapper		Welcom Tue Mar 15 11:17	e, rics.a UTC 20
	ogFireIntegration ~				
·	pping Designer Test Drive	ers Monitoring Admin	Import/Export   Configurations   System Logs		
JSM Metrics					
	Service Mapper Name All	v	Status Filter No Filter - Select Date from 14 / 03 / 2022 , 11 : 17 🕲 to 15 / 03 / 2022 , 11 :		_
			Showing 1 to 10 of 193 reco	ords first prev next las	t Page 1
Activity Id	Start Time	End Time	Mapper Service Name	Source Operation	Status
1986	Mar 15 10:42 UTC 2022	Mar 15 10:42 UTC 2022	RibToLogFireStockOrder_ServiceMappingOrchestration.smo	POCre	0
1985	Mar 15 10:42 UTC 2022	Mar 15 10:42 UTC 2022	RibToLogFireStockOrder_ServiceMappingOrchestration.smo	SOCre	0
1984	Mar 15 10:37 UTC 2022	Mar 15 10:37 UTC 2022	RibToLogFireStockOrder_ServiceMappingOrchestration.smo	POCre	0
1983	Mar 15 10:37 UTC 2022	Mar 15 10:37 UTC 2022	RibToLogFireStockOrder_ServiceMappingOrchestration.smo	SOCre	
1983 1977	Mar 15 10:37 UTC 2022 Mar 15 09:19 UTC 2022	Mar 15 10:37 UTC 2022 Mar 15 09:19 UTC 2022	RibToLogFireStockOrder_ServiceMappingOrchestration.smo	SOCre HttpPost	©
					-

# System Logs Tab

In the System Logs Tab user can browse through universal service mapper logs.

RACLE <sup>®</sup> Universal Service Mapper		Welcome, rics.ad Tue Mar 15 11:17 UTC 202
lect Project: LogFireIntegration ~	ort/Export Configurations	System Loas
Home   Mapping Designer   lest Drivers   Monitoring   Admin   impo	rr/Export Configurations	System Logs
Select Log Loc:	ation: Default v	
File Name	Size (in KB)	Last Modified
usm-default.log	3537.59	Tue Mar 15 11:17:49 UTC 2022
RibToLogFireItem-system.log	4907.37	Tue Mar 15 11:17:44 UTC 2022
RibToLogFireStockOrder-system.log	5722.61	Tue Mar 15 10:42:53 UTC 2022
LogFireToRibReceipt-system.log	473.79	Tue Mar 15 09:19:58 UTC 2022
LogFireToRibInvAdjust-system.log	738.37	Tue Mar 15 09:19:57 UTC 2022
RibToLogFireOrder-system.log	1149.94	Tue Mar 15 08:57:05 UTC 2022
RibToLogFireASNIn-system.log	727.34	Tue Mar 15 08:10:37 UTC 2022
LogFireToRibASNOutFromObLoad-system.log	350.37	Tue Mar 15 08:10:19 UTC 2022
LogFireToRibSOStatus-system.log	1088.07	Tue Mar 15 07:59:48 UTC 2022

## **Create Project**

- 1. Go to the Admin tab.
- 2. Click on the Manage Projects sub-tab.
- 3. Select the **Create** radio button to create a new project.
- 4. Enter a new project name and a new module name.
- 5. Click on the **Create** button when done.

Now the Project is created.



ORACLE Universal Service Mapper	Welcome, rics.admin Tue Mar 15 11:18 UTC 2022 ()
Select Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs
Manage Projects Manage Access	
Manage Projects	
	O Create ○ Manage ○ Rename
Project Name*:	
Module1 Name*:	
Module2 Name:	
Module3 Name:	
Module4 Name:	
	Create
Convrict @ 2021 Oracle and/or its officiates All richts reserved	

# **Update Project Modules**

- **1.** Go to the **Admin** Tab.
- 2. In the Admin Tab, click on the Manage Projects sub-tab.
- 3. Click the Manage radio button to update the project's modules.
- 4. Select **Project Name** from the drop down.

ORACLE Universal Service Mapper			Welcome, rics.admin Tue Mar 15 11:18 UTC 2022
Select Project: LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admir	Import/Export Configuration	ns System Logs	
Manage Projects Manage Access			
Manage Projects			
	○ Create ⓒ Manage ○ Rename		
Project Name*:		✓ InjectorService LogFireIntegration	
Module1 Name*:		ResponsysIntegration	
Module2 Name:			
Module3 Name:			
Module4 Name:			
	Update Delete		
Copyright © 2021 Oracle and/or its affiliates. All rights reserved.			

5. Now in the text fields, update the project module names, add or remove project modules as necessary.



ORACLE Universal Service Mapper		Welcome, Tue Mar 15 11:18 U	
Select Project: LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admir	Import/Export Configurations	s System Logs	
Manage Projects Manage Access			
Manage Projects			
	○ Create		
Project Name*:		InjectorService ~	
Module1 Name*:		DummyService	
Module2 Name:		ServiceDummy	
Module3 Name:			
Module4 Name:			
	Update Delete		
Copyright © 2021 Oracle and/or its affiliates. All rights reserved.			

6. Click the **Update** button once done.

Now the Project has been updated with new Modules.

# **Delete Project**

- **1.** In the **Admin** Tab, go to the **Project** sub-tab.
- 2. Click on the Manage radio button.
- 3. Select the **Project Name** from drop down.

DRACLE Universal Service Mapper			Welcome, rics.adm Tue Mar 15 11:18 UTC 2022
Select Project: LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export	Configurations System Logs	
Manage Projects Manage Access			
Manage Projects			
	⊖ Create	Rename	
Project Name*:		✓ InjectorService LogFireIntegration	
Module1 Name*:		ResponsysIntegration	
Module2 Name:			
Module3 Name: Module4 Name:			
Modules Name.	Undets Dela		
	Update Dele	e	
·			
Copyright © 2021 Oracle and/or its affiliates. All rights reserved.			

- 4. Click the **Delete** button.
- 5. A confirmation dialog appears, click on the Okay button.



ORACLE: Universal Service Mapper	Are you sure you want to delete?	Welcome, usmadn Wed Jun 19 03:14 EDT 2019 👔
Select Project: LogFireIntegration •	OK Can	al
Home Mapping Designer Test Drivers Monitoring Admin Impo	ort/Export Configurations System Logs	
Manage Projects Manage Access		
Manage Projects		
	© Create ® Manage ○ Rename	*
Project Name*:		LogFireProj
Module1 Name*:		SampleModuleAA
Module2 Name:		SampleModuleB
Module3 Name:		SampleModuleC
Module4 Name:		
	Update Delete	

Now the selected project is deleted.

# **Rename Project**

- 1. In the Admin tab, go to the Project sub-tab.
- 2. Click on the **Rename** radio button.
- 3. Select **Project Name** from the drop down list box.

	Welcome, rics.ad Tue Mar 15 11:18 UTC 202
elect Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Ir	mport/Export Configurations System Logs
Manage Projects Manage Access	
Manage Projects	
⊖ Cre	eate 🔿 Manage 💿 Rename
Project Name*:	✓ InjectorService LogFireIntegration
New Project Name*:	Responsysintegration
Module1 Name*:	InjectorService
Module2 Name:	
Module3 Name:	
Module4 Name:	
	Rename

4. Enter the new project name in the **New Project Name** textbox.



	Tue Mar 15 11:18 UTC
ect Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin In	nport/Export Configurations System Logs
Manage Projects Manage Access	
Manage Projects	
	ate ⊜ Manage
Project Name*:	
New Project Name*:	DummylnjectorService
Module1 Name*:	InjectorService
Module2 Name:	
Module3 Name:	
Module4 Name:	
	Rename

5. Click on Rename button to rename the project.

# Provide User Access to a Project

- 1. In the Admin tab, go to the Access sub-tab.
- 2. Select the **Project Name** from the drop down list box for which access has to be given.

DRACLE Universal Service Mapper			Welcome, rics.admin Tue Mar 15 11:18 UTC 2022
Select Project: LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configuration	ns System Logs	
Manage Projects Manage Access			
Manage Projects			
	◯ Create		
Project Name*:		✓ InjectorService LogFireIntegration	
Module1 Name*:		ResponsysIntegration	
Module2 Name:			
Module3 Name:			
Module4 Name:			
	Update Delete		
Copyright © 2021 Oracle and/or its affiliates. All rights reserved.			

3. Enter the Username Alias and Username to which access has to be granted.

RACLE: Universal Serv	ice Mapper Vetcome, usmad Wed Jun 19 03:17 EDT 2019 (
Project: LogFireIntegration •	
me Mapping Designer Test I	vivers Monitoring Admin ImportExport Configurations System Logs
nage Projects Manage Access	
lanage Access	
	€ Creata © Manage
Select Project":	LogFireProj
Username Alias*:	usmadmin • or
Username*:	usmadmini
	Save



4. Click the **Save** button.

The user now has access to the project.

### **Create New Service Mapper**

- **1.** Go the **Mapping Designer** tab.
- 2. Open the Add Service Mappers sub-tab.
- 3. Select the module name from the drop down list box and click on next.

ORACLE Universal Service Mapper	Welcome, usmadmin Wed Jun 19 03:26 EDT 2019 🚯
Select Project: LogFireProj	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers	
Add new Service mapper	
	Prev Next
Select Mapper Module*:	SampleModuleAA •
	SampleModuleAA
Add C	Cancel
	SampleModulaAA • SampleModulaAA SampleModulaAA

- 4. Enter the Service Mapper name of your choice and click Next.
- 5. Enter the **Message Types** that are to be supported by the service mapper, in a comma separated format.
- 6. Click on the Add button.

Now the new Service Mapper is created with all the necessary files.

### **Update Service Mapper Files**

- 1. Go the Edit Service Mapper sub-tab in the Mapping Designer tab.
- 2. Select the service mapper prefix from the drop down list box on the left side of the screen.

ACLE' Universal Service Ma	apper	Welcome, usmadr Wed Jun 19 03:22 EDT 2019 (
Project: LogFireProj		
ne Mapping Designer Test Drivers	Monitoring Admin Import/Export Configurations System Logs	
Service Mappers Add Service Mappers		
lapper File Browser	Mapper File Editor	
SampleModuleAASample •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	1
LogFireProj		
SampleModuleAASampleServiceMapper	*Comment: Write your file: SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template content here	
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_messa		

3. Select the mapper file name from the list that appears below it.



ORACLE' Universal Service Mapp	er	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Mo	nitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli    Select Mapper File	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	2 0
I samped Mode AAA and SAA was do rever of Lagoer (new Barriped Acade AAA and SAA AND AND AND AND AND AND AND AND AND A	fKomment: Write your file: SampleHodulaAASampleGerviceHopper_messagetypek_RequestNataHopping.template content here	

- Once the file loads, click on the Edit icon on the right side of the screen. The text field should be enabled for editing.
- 5. Edit the content as desired.

ORACLE <sup>®</sup> Universal Service Mapp	er	Welcome, usmadmin Wed Jun 19 03:24 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Mo	Snitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SamperkoolusAAsampa • Heter Mogen Fiel SampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo sampekoolusAAsampakenooldague jewo	SampleModuleAASampleServiceMepper_messagetypeA_RequestDataMapping.template	

6. Once the editing is done, click the Save icon (it replaced the Edit button).

The updates to the service mapper are saved.

### **Rename Service Mapper File**

- 1. Go to the Edit Service Mapper sub-tab in the Mapping Designer tab.
- 2. Select the service mapper prefix from the drop down list box.

RACLE <sup>®</sup> Universal Service Mapp	Wed Jun 19 03:22 EDT 2019 👔	
Project: LogFireProj		
ne Mapping Designer Test Drivers Mo	nitoring Admin Import/Export Configurations System Logs	
It Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	<b>(2</b> )
LogFireProj		
SampleModuleAASampleServiceMapper	<pre>#Comment: Write your file: SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template content here</pre>	
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_messa		

3. Select the mapper file whose name has to be changed.



ACLE Universal Service Mappe		Wed Jun 19 03:22 EDT 201
Project: LogFireProj		
ne Mapping Designer Test Drivers Mo	ntoring Admin Import/Export Configurations System Logs	
Service Mappers Add Service Mappers		
tapper File Browser	Mapper File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	8
elect Mapper File SampleModuleAASampleServiceMapper_messa *		
Sampleholdus AASampleServicitAtapper_Tenso Sampleholdus AASampleServicitAtapper_Tenso Sampleholdus AASampleServicitAtapper_Tenso Sampleholdus AASampleServicitAtapper_Tenso Sampleholdus AASampleServicitAtapper_Servic Sampleholdus AASampleServicitAtapper_Tenso		

4. Once the file is loaded, click the pencil icon next to the name of the service mapper on the right pane.

An Edit box opens.

5. Change the name of the mapper file as required.

ACLE Universal Service Ma	per	Welcome, usmadr Wed Jun 19 03:27 EDT 2019 (
Project: LogFireProj		
me Mapping Designer Test Drivers	Monitoring Admin Import/Export Contigurations System Logs	
Service Mappers Add Service Mappers		
Aapper File Browser	Mapper File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_Requ	2
SampleModuleAASampleServiceMapper_messa ^ SampleModuleAASampleServiceMapper_Service	<pre>#Comment: Write your file: SampleModuleAdSampleServiceHopper_messagetypeA_RequestDataMapping.template content here New Content that has been added once edit option is clicked</pre>	

6. Click the Save button (it replaced the Edit button).

The mapper file has been renamed.

### **Delete Service Mapper File**

- 1. Go to the Edit Service mapper sub-tab in the Mapping Designer tab.
- 2. Select the mapper prefix from the drop down on the left side of the screen.

Project: LogFireProj		Wed Jun 19 03:22 EDT 2019
	Monitoring Admin Import/Export Configurations System Logs	
it Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	Ø 1
SampleModuleAASampleServiceMapper SampleModuleAASampleServiceMapper messa SampleModuleAASampleServiceMapper messa SampleModuleAASampleServiceMapper messa SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_Service SampleModuleAASampleServiceMapper_Service Mapper_ServiceMa	#Comment: Write your file: SampleModuleAMSampleServiceNapper_messagetypeA_RequestDataMapping.template content here	



3. Select the mapper file to be deleted once the list below loads.

ORACLE' Universal Service Mapper	r	Welcome, usmadmin
		Wed Jun 19 03:22 EDT 2019 🕕
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Monit	toring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli   Select Mapper File	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	2 1
	KComment: Write your file: SampleModulabkEampleServiceMapper_messagetyped_MequestUntaHapping.template content here	

4. Once the selected mapper file loads, click the Delete icon on the far right end of the screen on the right pane.

A confirmation dialog appears.

5. Click Okay to continue.

The mapper file is deleted.

### **Create New Driver**

- **1.** Go to the **Test Driver** tab.
- 2. Click the Manage Driver sub-tab.
- 3. Click the **Create** radio button.
- 4. Select the module name from the drop down.

DRACLE: Universal Service Mapper		Wed Jur	Welcome, usmadm 19 03:29 EDT 2019 (i)
lect Project: Log#ireProj			
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configuratio	ns System Logs		
Execute Drivers Manage Drivers			
Manage Drivers			
	Create Update		
Select Driver Module*:		SampleModuleAA •	
Select Driver Module*: Driver Family*:		SampleModule.AA  SampleModule.AA	

5. Enter the Driver Family name.

		Welcome, usmadmin Wed Jun 19 03:29 EDT 2019 (3)
em Logs		
❀ Create <sup>©</sup> Update		
	SampleModuleAA •	
	SampleDriverFamily	
Add		
		* Cireate © Update SampetulocaleAA • SampetulocaleAA •



6. Click the **Add** button.

# Update Driver Files

- 1. Go to the **Execute Driver** sub-tab in the **Test Driver** tab.
- 2. Select the driver name from the drop down list box.

RACLE <sup>®</sup> Universal Service Mapper	Wed Jur	Welcome, usn n 19 03:30 EDT 2015
Project: LogFireProj		
me Mapping Designer Test Drivers Monitoring	Admin ImportExport Configurations System Logs	
cute Drivers Manage Drivers		
xecute Drivers		
Decute Differs		
Accure Univers		;
Select Driver:	SampleModuleAASampleDriveFamily •	;
	Samplektodaak-A-SamperDreeFandy • Samplektodaak-A-SampleChreeFandy •	:
Select Driver:		
Select Driver: Adapter Status:	SampleModuleAASampleDriverFamily	

3. Select a Data Driver File or Driver Request Data Mapping Template from the drop down list box.

Driver File E	ditor		
Select File:	SampleModuleAASampleDriverFamilyDataDriver_RequestDataMapping.tem •	0	
	SampleModuleAASampleDriverFamilyDataDriver_RequestDataMapping.template		
#Comment:	SampleModuleAASampleDriverFamilyDataDriver.dd	pleDriverFamily	

- 4. In the editing panel below, click on the Edit icon on the right side of the screen.
- 5. Edit the contents of the file as desired.
- 6. Once done, click the Save icon to save the changes to the file.

ACLE Universal Service Mapper		Welcome, usmac Wed Jun 19 03:32 EDT 2019 (
Project: LogFireProj		
	Admin Import/Export Configurations System Logs	
	Admin Importexport Configurations System Logs	
cute Drivers Manage Drivers		
recute Drivers		
		2
Select Driver:	SampleModuleAASampleDriverFamily •	
Adapter Status:	\$	
Action:		
File Import/Export:	Choose File No file chosen Save Export	
Log:	Click here to view log file.	
river File Editor		
Nect File: SampleModuleAASampleDriverFamilyDataDriver_Requi	stDataMapping tem •	H ×
Comment: Write your template content here for driver	· CamelaModula48CamelaDafiumEamiliu	
ew Driver Data that has been added once the data dri	ver is being edited	

The file has been updated.

### **Rename Data Driver**

1. Go to the Manage Driver sub-tab in the Test Driver tab.



- 2. Click the **Update** radio button.
- 3. Select the Driver Name from the drop down list box.

DRACLE: Universal Service Mapper			Welcome, usmadm Wed Jun 19 03:34 EDT 2019 ()
lect Project: LogFireProj			
Home Mapping Designer Test Drivers Monitoring Admin Import/	Export Configurations System Logs		
Execute Drivers Manage Drivers			
Manage Drivers			
	Create ® Update		
		SampleModuleAASampleDriverFamily •	
Select Driver Name":			
Select Driver Name": New Driver Name":		SampleModuleAASampleDriverFamily	

4. Enter a new name for the driver as required.

ORACLE Universal Service Mapper			Welcome, usmadmin Wed Jun 19 03:34 EDT 2019 (2)			
Select Project: LogFireProj			•			
Home Mapping Designer Test Drivers Monitoring Admin Import/Export	Configurations System Logs					
Execute Drivers Manage Drivers						
Manage Drivers						
© Create # Update						
Select Driver Name':		SampleModuleAASampleDriverFamily •				
New Driver Name*:		SampleModuleAASampleD				
	Rename Delete					

5. Click the **Rename** button.

The driver is renamed.

### **Delete Data Driver**

- 1. Go to the Manage Driver sub-tab in the Test Driver tab.
- 2. Click the **Update** radio button.
- 3. Select the driver name from the drop down list box.

RACLE' Universal Service Mapper		Welcome, usm Wed Jun 19 03:30 EDT 2019
t Project: LogFireProj		
me Mapping Designer Test Drivers Monitoring	Admin Import/Export Configurations System Logs	
ecute Drivers Manage Drivers		
Execute Drivers		
Execute Drivers		
Execute Drivers Select Driver:	SampleModule AASampleDriverFamily 1	( a
	Sampetobalak/Sampetohen/Family 1 Sampetobalak/Sampetohen/Family	
Select Driver:		1
Select Driver: Adapter Status:	SampleModuleAASampleDriverFamily	1

4. Click the **Delete** button.

Wed Jun 19 0034 EDT 2019 🜘					
© Create * Update					
SampleModuleAASampleDriverFamily					



A confirmation dialog box opens.

5. Click Okay.

The driver file is deleted.

### **Edit Configuration File**

- 1. Go to the Edit USM Configuration sub-tab in the Configurations tab.
- 2. Click the **Edit** button icon on the right side of the screen.
- 3. Edit the contents of the file as desired.

ORACLE: Universal Service Mapper	Welcome, usmadmin Wed Jun 19 03:39 EDT 2019 (j)
Select Project [LogFireProj •	
Home Mapping Designer Test Drivers Monitoring Admin ImportExport Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM	
Edit USM Configuration	
Select File: enternal_env_info •	× 🖬 1
<pre>{     * "ExternalInvirfs": [</pre>	<u></u>

Once done, click the Save button.
 The Configuration file is now updated.

### **Create DVM**

- 1. Go to the Manage DVMs sub-tab in the Configurations tab.
- 2. Click on the **Create** radio button.
- 3. Enter the **DVM Name** and key in the text boxes.
- 4. Click on the Add icon to add more keys or remove unneeded keys from the list by click on the Remove icon next to a key.

DRACLE Universal Service Map	per		Welcome, usmadi Wed Jun 19 03:43 EDT 2019 (
ect Project: LogFireProj			
Home Mapping Designer Test Drivers I	tonitoring Admin Import/Export Configurations Syste	em Logs	
Edit USM Configuration Manage DVM Manage	ge Dynamic DVM		
Manage DVM			
	(	□ Edit ❀ Create ☉ Rename	
DVM Name*:		NewSampleDV/M LogFireProj	• • • • • • • • • • • • • • • • • • •
DVM Name*: Key1*:		NewSampleDVM.LogFireProj	• • • • • • • • • • • • • • • • • • •
			× O ×

5. Once done, click on Save to create the DVM.



Now the new DVM is created.

# Update DVM

- **1.** Go to the **Manage DVM** sub-tab in the **Configurations** tab.
- 2. Click the Edit radio button.
- 3. Select the **DVM Name** to be edited from the drop down list box.

ORACLE <sup>®</sup> Universal Service Mapper			Welcome, usmadmin Wed Jun 19 03:44 EDT 2019 (3)
Select Project: LogFireProj			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs		
Edit USM Configuration Manage DVM Manage Dynamic DVM			
Manage DVM			
	* Edit 🔍 Create 🔍 Renam		
	NewSampleDVM.LogFireProj	•	
	NewSampleDVM LogFireProj		•
KeyA	KeyB	Save/Edit	
			*

- 4. Changes are made to the DVM as rows are added, edited, or deleted:
  - Click the Edit icon to edit the DVM row.
  - Click the Delete icon to delete the row.
  - Click the Insert icon on the top right corner of the table view to add more DVM rows.

RACLE: Universal Service Mapper		Welcome, usmadi Wed Jun 19 03:45 EDT 2019 (		
et Project LogificeProj				
Nome Maggerg Designer   Test Drivers   Monitoring   Admin   ImportExport   Configurations   System Logs				
Edit USM Contiguration Manage DVM Manage Dynamic DVM				
anage DVM				
	@ Edit @ Create @ Rename			
	NewSampleDVM LogFireProl •			
	NewSampleDVM LogFireProj •			
КеуА	NewSampleDVM.Log*reProj • KeyB	SaverEdit		
KeyA Key		*		

# **Delete DVM**

- 1. Go to Manage DVM sub-tab in the Configurations tab.
- 2. Click the Edit radio button.
- 3. Select the **DVM Name** from the drop down list box.

ORACLE: Universal Service Mapper			Welcome, usmadmi Wed Jun 19 03:44 EDT 2019 ()
elect Project: LogFireProj *			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs		
Edit USM Configuration Manage DVM Manage Dynamic DVM			
Manage DVM			
	* Edit 🔍 Create 🔍 Renam	*	
	NewSampleDVM.LogFireProj	•	
	NewSampleDVM LogFireProj		O 🔟
КеуА	KeyB	Save/Edit	
			*



- 4. Click the Delete button on the top right corner of the table view.
- 5. A delete confirmation dialog appears, click **OK** to confirm the operation.

	Are you sure you want to delete DVM? OK Cancel	Welcome, usmad Wed Jun 19 04:50 EDT 2019
tot Project LogFireProj	Configurations System Logs	
Gitt USM Configuration Manage DVM Manage Dynamic DVM		
	* Edit © Create © Rename NewSampleDVALLopFirePioj •	• 0
Name	Value	Save/Edit
	CO_ES	1

The DVM table is deleted.

# Rename DVM

- 1. Go to the Manage DVM sub-tab in the Configurations tab.
- 2. Click the Rename radio button.
- 3. Select the DVM from the drop down list box.

DRACLE Universal Service Mapper			Welcome, usmac Wed Jun 19 03:44 EDT 2019 (
et Project: LogFireProj			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configurations System Logs		
Edit USM Configuration Manage DVM Manage Dynamic DVM			
Manage DVM			
	* Edit © Create © Rename		
	NewSampleDVM.LogFireProj •		
	NewSampleDVM.LogFireProj		iii
		Save/Edit	A

- 4. Enter the new name for the DVM in the DVM Name text box.
- 5. Once done, click the **Rename** button to rename the DVM.

DRACLE: Universal Service Mapper	Welcome, usmadm Wed Jun 19 04:50 EDT 2019 ()				
ect Project: LogFireProj					
Kome Magping Designer Test Drivers Monitoring Admin ImportExport Configurations System Logs					
Edit USM Configuration Manage DVM Manage Dynamic DVM	dit USM Configuration Manage DVM Aaaage Dynamic DVM				
Manage DVM					
	◎ Edit <sup>©</sup> Create <sup>®</sup> Rename				
Select DVM*:	Edit © Create * Rename      NewSampleOVAL LogFireProj •				
Salect DVM": New DVM Name":					
	NewSampleDVM.LogFirePtoj •				

Now the DVM table has been renamed.



# Mandatory Post-Deployment Setup

After deployment, perform the following procedures.

### Set the WMS Cloud and RIB-LGF Application Links

Once the USM UI is up, do the following:

- **1.** Log into the application and proceed to the **Configurations** tab.
- 2. Click the Edit USM Configurations sub-tab in the Configurations tab.
- 3. Select the external\_env\_info.json file from the drop down list box.
- 4. Change the following field:

```
{"name":"usm_url_key", "value": "[http://
<hostname>:<port number> /]"}
```

- 5. Save the file.
- 6. Next select the external\_env\_info.LogFireIntegration.json file from the drop down list.
- 7. Change the following fields:

```
{"name": "LogFire_Host_Url_Key", "value": "https://
<hostname>:<port_number>/rgbu_test"}
{"name": "RibLgf_Host_Url_Key", "value": "http://
<hostname>:<port_number>/rib-lgf-services-web/resources/publisher/
publish"}
{"name": "rib lgf host UrlSecurityPolicyKey", "value": "PolicyC"}
```

### **Configure Initial Project**

To configure the initial project, perform the following steps:

- 1. Login to USM UI as an admin.
- 2. Go to the Admin -> Manage Access tab and enter the information:
  - Select Project Select LogFireIntegration
  - Username Alias Select or enter usmAdminUiUserAlias
  - UserName Enter the admin username (for example, rics.admin)
- 3. Click Save.



ect Project:User doesn't have access to any project. Contact your System Admin to get Access to a Project		
ome Mapping Designer Test Drivers	Monitoring Admin Import/Export Configurations System Logs	
anage Projects Manage Access		
Manage Access		
	Create O Manage	
Select Project*:	LogFireIntegration	
Username Alias*:	Select V or usmAdminUiUserAlias	
Username*:	rics.admin	
	Save	

### Update External JSON

- 1. Go to Configurations -> Edit Usm Configuration
- 2. Select external\_env\_info.LogFireIntegration from the dropdown menu, click the Edit button, and enter the values:
  - name: Enter LogFire\_Host\_Url\_Key
  - value: Enter the logFire Host URL. For example:

```
https://<Host-Url>:443/lgf_int_qa
```

Select File	exte	ernal_env_info.LogFireIntegration ~
-	{	
		"name": "LogFire_Host_Url_Key",
		"value": "https:// <host-url>:443/lgf_int_qa"</host-url>
	},	
1.1.1	{	
		"name": "RibLgf_Host_Url_Key",
		"value": "https:// <host-url>/<subname-space publish="" publisher="" resources="" rib-igf-services-web="">",</subname-space></host-url>
		"value_NOT_USED" : "https:// <host-url>/<subname-space publish="" publisher="" resources="" rib-igf-services-web="">"</subname-space></host-url>
	},	

3. Click the Save button.

### Update DVM

- 1. Go to the **Configurations -> Manage DVM** tab.
  - Select CompanyCode\_dvm.LogFireIntegration from the dropdown menu.
  - Click the **Edit** button of the row to edit.
  - Update the value of **CompanyName** for the LogFire application For example: RGBU6
  - Click the **Save** button.



Manage DVM	
	Edit C Create C Rename de_dvm.LogFireIntegration Updated Successfully. panyCode_dvm.LogFireIntegration
Name	Value
CompanyName	RGBU6

- 2. Select FacilityCode\_dvm.LogFireIntegration from the dropdown menu.
  - Click the (+) button to add a new row and enter the **FacilityId**, **FacilityType**, and **FacilityTimeZone** for the LogFire application.

For example:

- FacilityId 55
- FacilityType WAREHOUSE
- FacilityTimeZone US/Eastern

# Test the Deployment

After you deploy the server successfully, USM Web Application can be accessed using the following URL:

```
http://<host-server>/<Sub-name-space>/usm/
```

# Information on Roles and Groups in USM Application

USM Application has some basic roles and groups which are used to determine the type of user:

#### Roles

- AdminRole Users with this role have access to all the functions of the USM app. They can also setup the security permissions for other users.
- OperatorRole Users with this role have the ability to read, write and modify content in the service mapper files. However they will not have access to the admin functions and cannot see the admin tab at all.
- MonitorRole Users with this role can only view the data in the service mapping files.

#### Groups

- UsmAdminGroup Users that belong to this group can perform all operations
- **UsmOperatorGroup** Users that belong to this group can perform all operations except access the admin tab. The admin tab is not visible unless the user is logged in as an admin user.
- **UsmMonitorGroup** Users that belong to this group can only view the data.



### Functions by Role and Group

The following table lists all the functions which can be performed by the roles and groups mentioned above:

Role Name	Admin Role	Operator Role	Monitor Role
Group Name	UsmAdminGroup	UsmOperatorGroup	UsmMonitorGroup
Admin Tab Functions	Yes	No	No
Project Files Editing and Management	Yes	Yes	No
Service Mapper Files Editing and Management	Yes	Yes	No
Driver Editing and Management	Yes	Yes	No
Configuration File Editing	Yes	Yes	No

In the above table Editing and Management refers to all functions like create, delete, update, and rename operations.



# 6 OAuth 2.0

OAuth 2.0 is the industry-standard protocol for authorization. The OAuth 2.0 authorization framework enables a third-party application to obtain limited access to an HTTP service, either on behalf of a resource owner by orchestrating an approval interaction between the resource owner and the HTTP service, or by allowing the third-party application to obtain access on its own behalf.

ORACLE CLOUD INFRASTRUCTURE CONSOLE AND THE IDENTITY AND ACCESS MANAGEMENT (OCI IAM) provides out-of-the-box OAuth Services, which allows a Client Application to access protected resources that belong to an end-user (that is, the Resource Owner).

# OAuth 2.0 Architecture Diagram

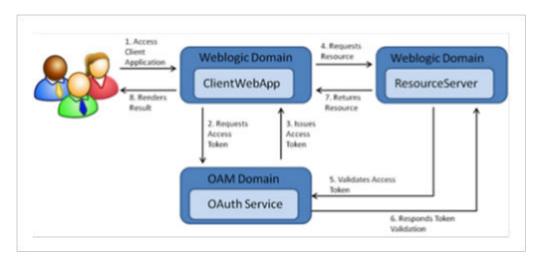


Figure 6-1 OAuth 2.0 Architecture Diagram

# OAuth 2.0 Concepts

Business to Business (2-legged flow):

- It usually represents an application that calls another application or service without enduser intervention.
- A client (Business Client application) will make a call to a service, business service (in OAuth spec, a resource server), and request some business information while passing the access token.
- Because there is no end-user intervention, the client is pre-authorized to have access to the resource.



# OAuth 2.0 Use Case Flow

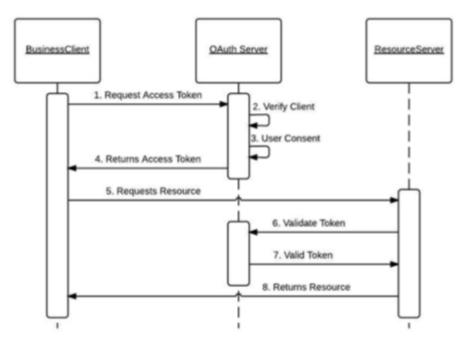


Figure 6-2 OAuth 2.0 Use Case Flow

# OAuth 2.0 Terms

- **Resource Server** The server hosting the protected resource.
- **Resource Owner** An entity capable of granting access to a protected resource.
- **Client** An application making protected resource requests on behalf of the resource owner. It can be a server-based, mobile, or a desktop application.
- Authorization Server The server issuing access tokens to the clients after successfully authenticating the resource owner and obtaining authorization.

# OAuth2 Service Consumer

A step-by-step guide to retrieve a clientId and secret for grant\_type=Password (Resource Owner Password Credentials) when configuring Logfile/WMS.

- 1. Create a screen using module api/oauth2/applications.
- Log in to the Oracle WMS cloud using credentials https://<wms-domain>/<envname>/.

For example: https://\*\*\*.wms.ocs.oraclecloud.com/lgf int qa/

- Username: <username>
- Password: <password>



3. Append api/oauth2/applications to the above URI.

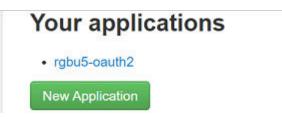
For example:

https://<wms-domain>/<env-name>/api/oauth2/applications

#### Note:

If you access the URL without first signing you, you will receive a "Forbidden error".

4. Open the URL created in step 3 in a web browser. The Your applications screen opens:



5. Click the **New Application** button.

The **Register a new application** screen opens.

Name	wms-oauth2
Client id	4G1 / 2000 / 2000 Rnc
Client secret	oLDbC::::::::::::::::::::::::::::::::::::
Client type	Public •
Authorization grant type	Resource owner password-be *
Redirect uris	https:// cvicsapis/agent/gauth/callba ck

- 6. Register a new application using this screen.
  - Enter the **Provide Name**, **Client Type**, **Authorization grant type**, and **Redirect uris**.



- Client type can be public/confidential.
- Client id and Secret are generated.
- 7. Click the Save button.
- 8. Provide steps for grant type Resource Owner Password Credentials.
- 9. Redirect uri is optional for grant type Resource Owner Password Credentials, but without a URI, it is not able to register.

So provide the Redirect uri as:

```
<wms-domain>/<env-name>/icsapis/agent/oauth/callback - https://<wms-domain>/
<env-name>/icsapis/agent/oauth/callback
```

10. Request an access token for grant type **Resource Owner Password Credentials**. **Scope** is optional.

Enter the following values:

- Client id <Value generated in the 'Register a new application' screen (step 5-6)>
- Client secret <Value generated in the 'Register a new application' screen> (step 5-6)>
- **11.** Retrieve the token using the **clientId** and **secret** through a curl statement.

```
curl -v -X POST -u "<ClientId>:<Secret>" -d
"grant_type=password&username=<username>&password=<pwd>" <wms-domain>/<env-
name>/api/oauth2/token/
```

#### For example:

```
curl -v -X POST -u "<ClientId>:<Secret>" -d
"grant_type=password&username=rgbu5_adm&password=welcome1#" https://
***.wms.ocs.oraclecloud.com/lgf int qa/api/oauth2/token/
```

#### A successful response will be in the following format:

```
{"access_token": "<access-token>", "token_type": "Bearer", "expires_in":
36000, "refresh token": "<refresh-token>", "scope": "read write"
```

 Test the token by accessing the Logfile URL using the access\_token with a curl statement:

```
curl -X POST -i -H 'Authorization: Bearer <access-token>' \
'https://***.wms.ocs.oraclecloud.com/lgf_int_qa/wms/api/
init stage interface/' --data "@./ItemLgfDataNoNewLine.xml"
```

A successful response has the following format:

```
<?xml version="1.0" encoding="utf-8"?>
<root><success>True</success><response><message>Stage table processing com-
plete</message></response></root>
```

#### Access Logfire Services Using OAuth2 Consumer

The Logfire services are consumed by using the following security policies:

• Basic Authentication 2.OAuth2.

By configuring this property in the configuration file, you can switch between "basic" and "oauth2" authentication.



• OAuth2 Consumer Configuration:

Configuration Property	Description
"name": "Lgf_Oauth2_Authentication","value": "true"	1. To enable OAuth for logfire, change the value of flag Lgf_Oauth2_Authentication to true.
	<ol> <li>To enable basic authorization for logfire, change the value of Lgf_Oauth2_Authentication to false.</li> </ol>
"name": "lgf_oauth2_alias_key", "value": "lgfOauth2ApplicationClientAlias"	Save the <b>ClientId</b> and <b>Secret</b> in the credential store using the alias lgfOauth2ApplicationClientAlias.
"name": "LogFire_Host_Url_Key","value": " <logfire login="" url=""></logfire>	Logfire URL used for the OAuth token.

 Table 6-1
 external\_env\_info.LogFireIntegration.json

After receiving a Logfire **clientId** and **secret** from the above steps:

**1.** Store these credentials in the credential store for further reference in the USM application to create an OAuth token.

Once the OAuth token is issued, further API calls are made.

2. Save the **clientId** and **secret** in the credential store with the alias name lgfOauth2ApplicationClientAlias, as defined in the JSON.

The USM application uses this alias to make a call to Logfire and retrieve the OAuth token. Once obtained, the OAuth2 token services calls are made.

**3.** Pass the JSON request to the service. This saves the credentials (**clientId/secret** combination).

JSON request format:

```
{
"userAlias": "<Alias>",
"userName": "<Id>",
"userPassword": "<password>"
}
```

For example:

```
{
    "userAlias": "lgfOauth2ApplicationClientAlias",
    "userName": "6l2hibDJkDU4JWXHNurJ0Ds9QPJvhDoe",
    "userPassword": "XxzgFGTeAnaaY1krY5AZBZu3GzqE"
}
```

USM consumer simplifies access of services protected by OAuth 2.0. The USM consumer executes the following steps:

**1**. Gets the token from the Logfire server using client ID, client secret, and scope.



- 2. Adds the "Authorization Bearer <token>" HTTP header.
- **3.** Calls the service.

