

Oracle® Retail Integration Bus

Universal Service Mapper User Guide

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Oracle® Universal Service Mapper User Guide, Release 19.0

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Primary Author:

Contributing Author:

Contributor:

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Preface

This document describes the Universal Service Mapper user interface. It provides step-by-step 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.

Documentation Accessibility

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Related Documentation

For more information, see the following documents in the Oracle Retail Integration Cloud Service 16.0.040 documentation set:

- *Oracle Retail Integration Cloud Release Notes*
- *Oracle Retail Integration Cloud Enterprise Integration Overview*
- *Oracle Retail RMS-WMS Cloud Integration Implementation Guide*

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When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.1) or a later patch release (for example, 13.1.2). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

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To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail Universal Service Mapper documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. You can obtain these documents through My Oracle Support.)

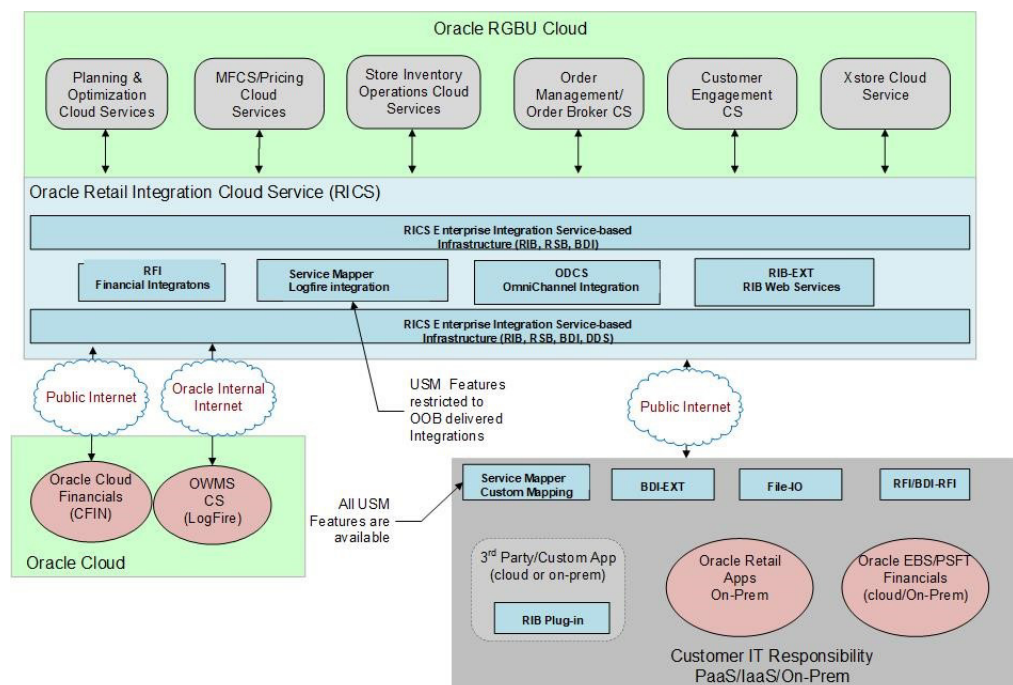
Conventions

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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 19.0.0 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

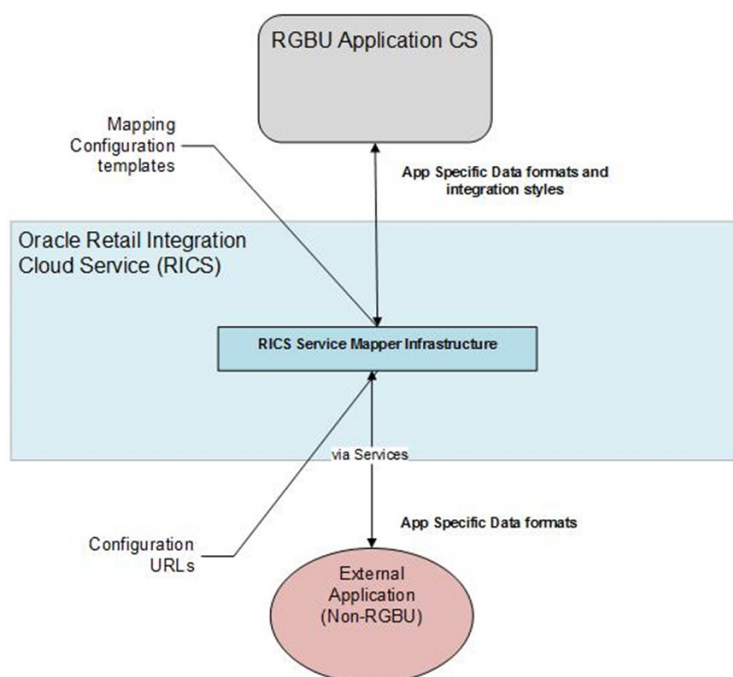
The USM installation into any Customer Responsible Environment (On-Prem/IaaS/PaaS) will be full featured as documented in this Guide.

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 service-based. Within the RGPU, 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

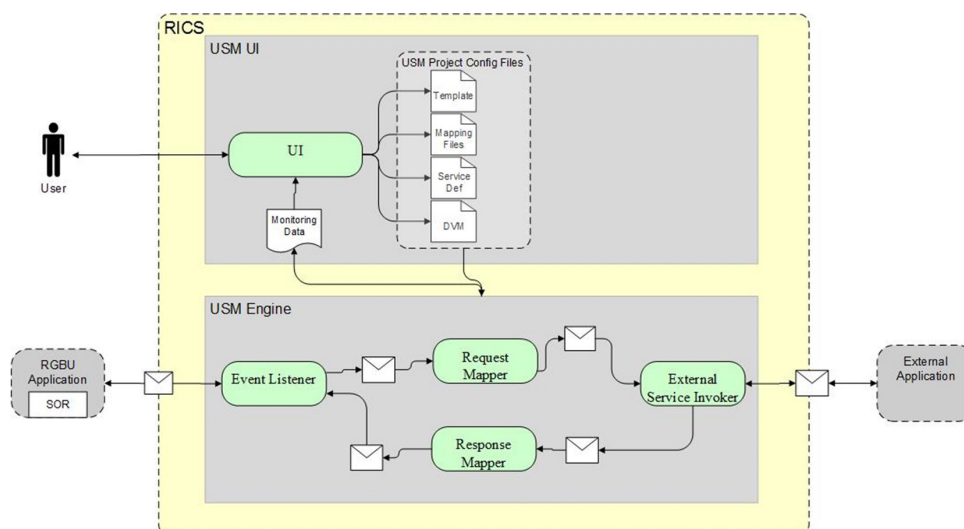
The following table lists the USM features supported in various product offerings.

Feature Set	Product Offering		
	On-premises (RIB)	SaaS (RICS)	Hybrid Cloud (USM on PaaS/IaaS 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

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 one application, mapped to other data, and the mapped data is sent to other 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

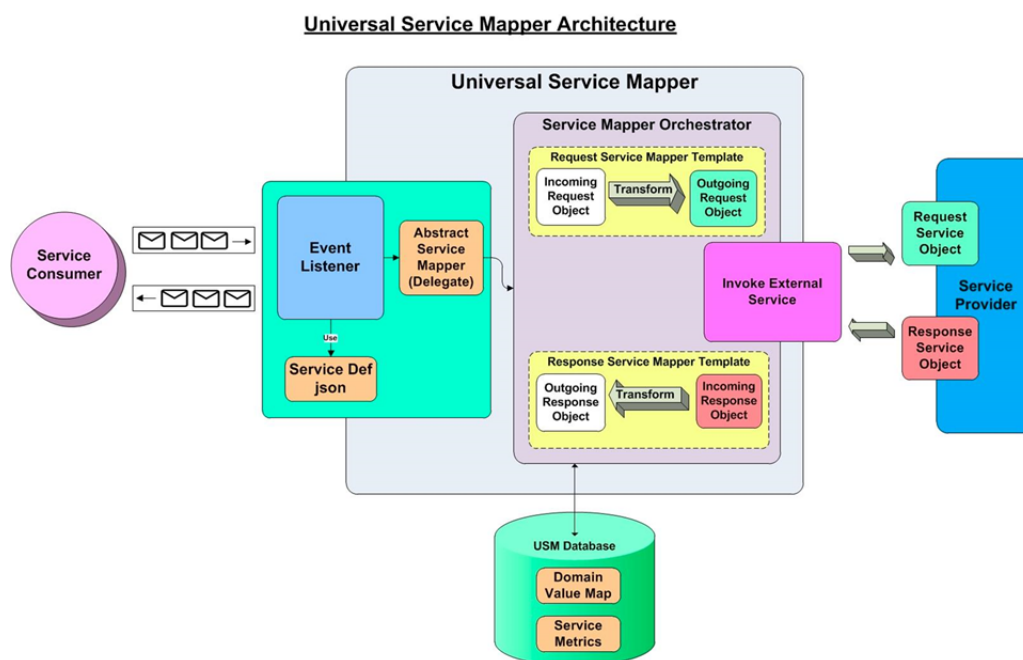
A Domain Value Map (DVM) is a table containing mappings between related information in participating applications. They enable you to equate lookup codes and other static values across applications. These DVM tables are used in transforming the messages from one system into the expected format of the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

USM Technical 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 file with the prefix `external_env_json` for the respective application. These are stored as key-value pairs in a JSON file.

USM User Interface

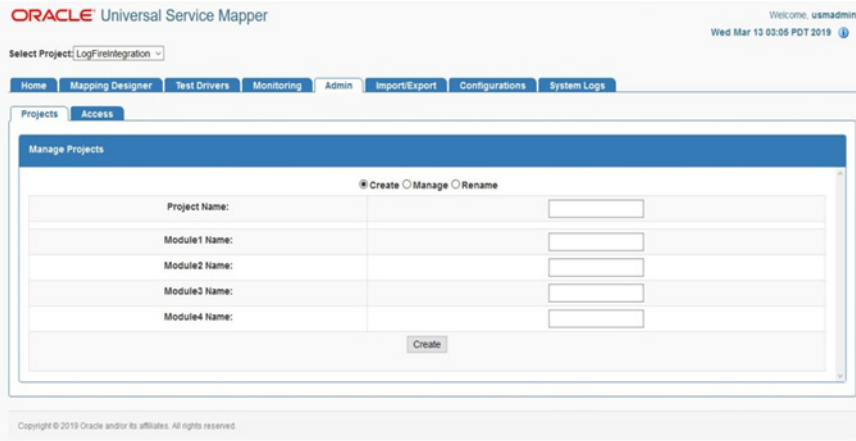
The USM web application allows you to manage and create project and project artifacts for service mapping to enable communication between two different applications.

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.

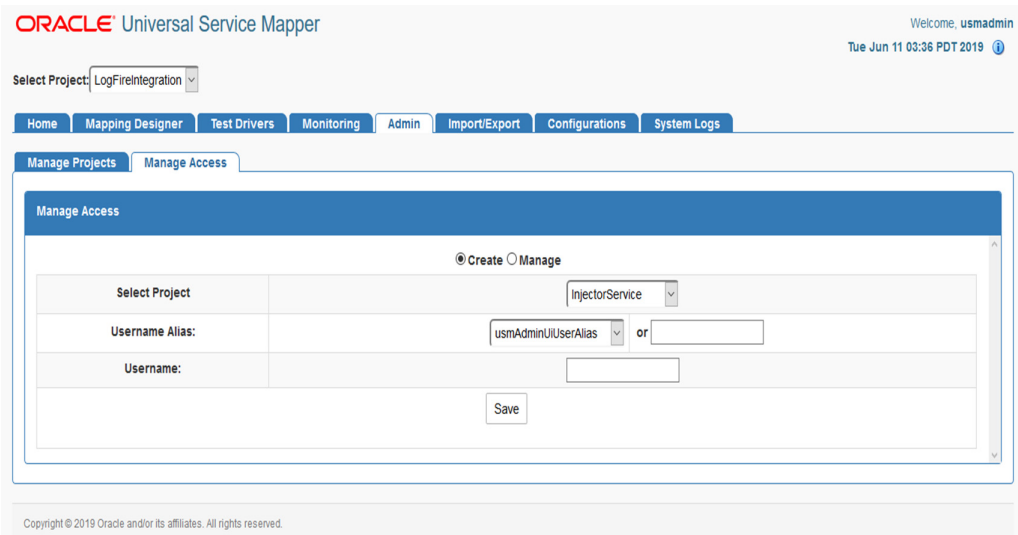
- Admin Role user
 - Admin tab
 - Configurations tab
- Operator Roles user
 - Mapper Designer tab
 - Test Drivers tab
 - Import/Export tab
- Monitor Role user
 - Home tab
 - Monitoring tab
 - System Logs tab

Admin

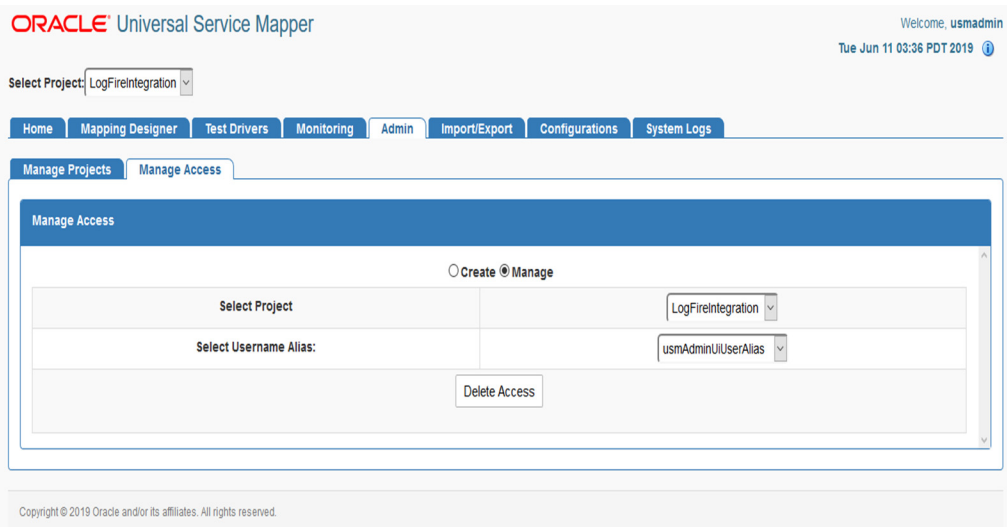
The Admin tab allows Administrators to manage projects and project access. In the projects sub-tab, administrators can create, update, rename, and delete projects.



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.

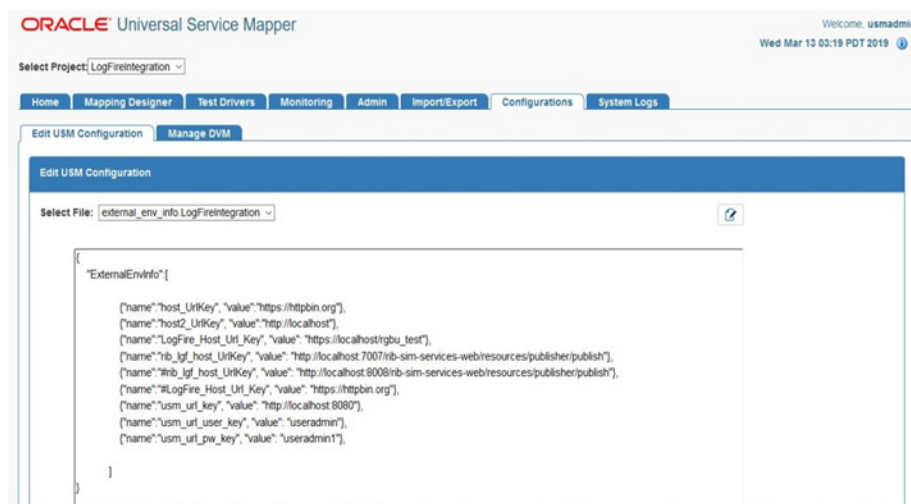


Using the **Manage** option, you can remove user access.

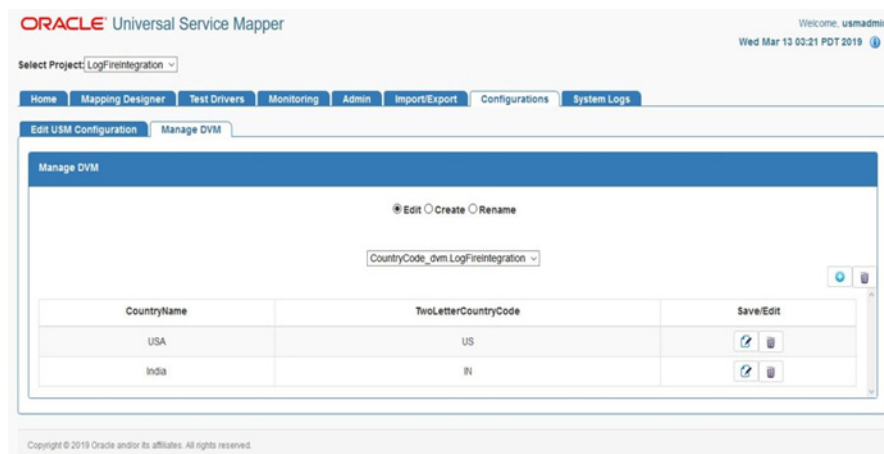


Configuration Tab

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.

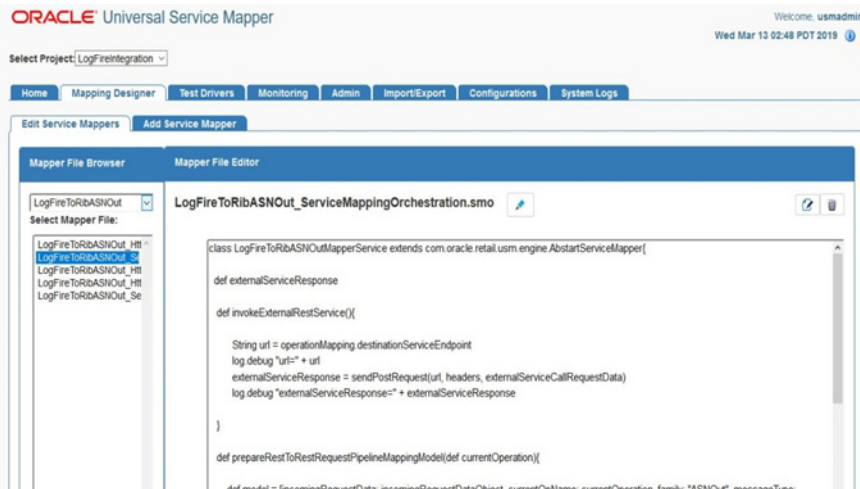


In the **Manage DVM** tab, you can edit DVM data. It also allows you to create, delete and rename DVM.

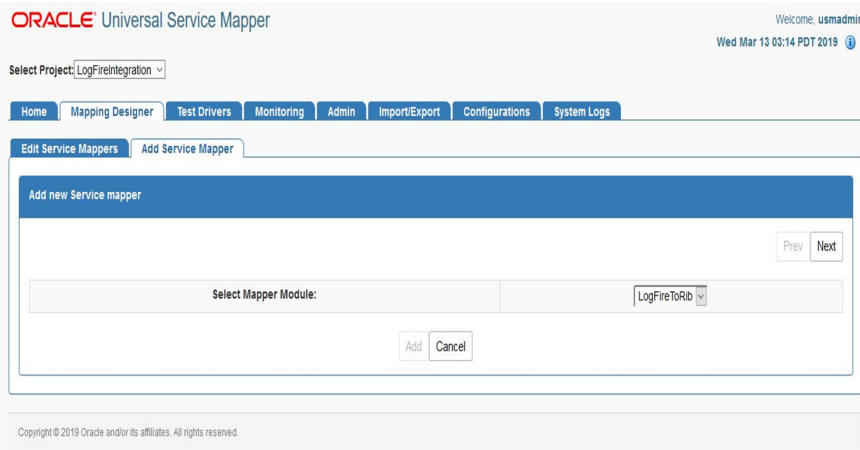


Mapping Designer

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.



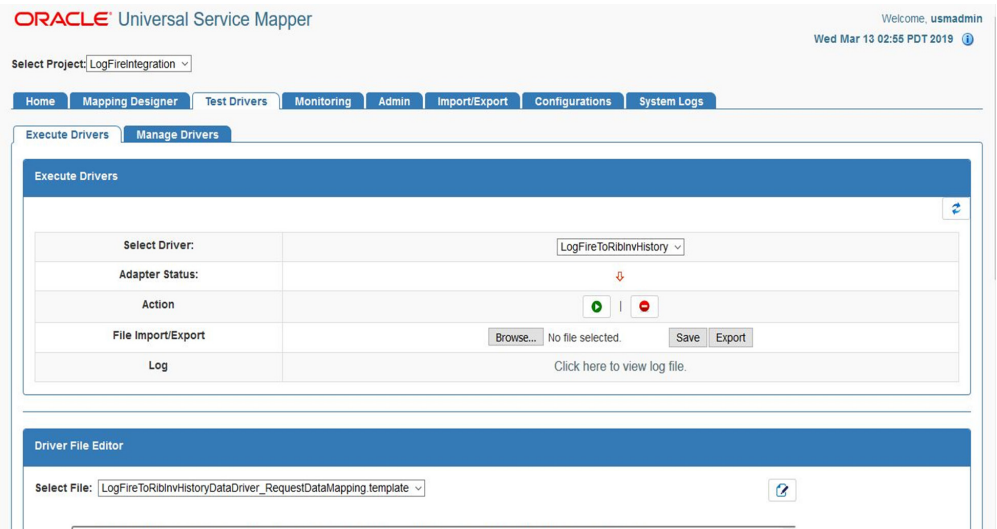
In the **Add Service Mapper** sub-tab, you can create new service mappers.



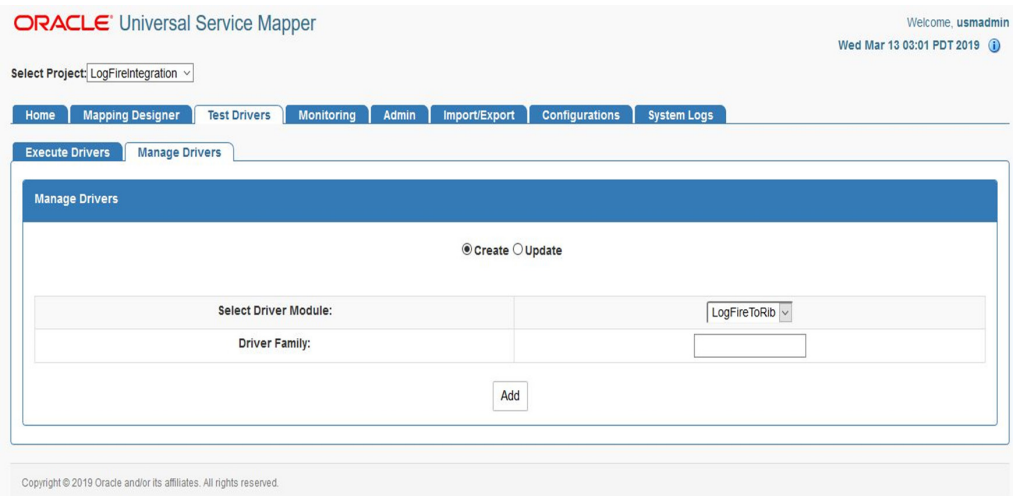
Test Data Drivers

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.



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



Import/Export Tab

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

The screenshot shows the Oracle Universal Service Mapper interface. At the top, it says "ORACLE Universal Service Mapper" and "Welcome, usmadmin". The date and time are "Tue Jun 11 03:42 PDT 2019". Below this is a "Select Project" dropdown menu set to "LogFireIntegration". A navigation bar includes "Home", "Mapping Designer", "Test Drivers", "Monitoring", "Admin", "Import/Export", "Configurations", and "System Logs".

The "Export Project" section has a "Select Project:" dropdown set to "LogFireIntegration" and an "Export" button.

The "Import Project" section has a "Select Project:" dropdown set to "LogFireIntegration", a "Project File:" field with a "Browse..." button and "No file selected." text, and an "Import Option:" section with radio buttons for "Overwrite" (selected) and "Merge". An "Import" button is at the bottom.

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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.

The screenshot shows the Oracle Universal Service Mapper interface. At the top, it says "ORACLE Universal Service Mapper" and "Welcome, usmadmin". The date and time are "Tue Jun 11 03:47 PDT 2019". Below this is a "Select Project" dropdown menu set to "LogFireIntegration". A navigation bar includes "Home", "Mapping Designer", "Test Drivers", "Monitoring", "Admin", "Import/Export", "Configurations", and "System Logs".

The "System Summary" section displays five metrics:

- Available Mappings: 19
- Service Activity Count: 247
- System Health: !
- Successful Activity: 123
- Failed Activity: 124

The "USM Metrics for today" section has a search bar "Search activities by service mapper name" and a table of activities:

Activity Id	Start Time	End Time	Mapper Service Name	Source Operation	Status
323	Jun 11 03:47 PDT 2019	Jun 11 03:47 PDT 2019	RibToLogFirePartner_ServiceMappingOrchestration.smo	PartnerCre	✓
322	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireOrder_ServiceMappingOrchestration.smo	POCre	✓
321	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	✓

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

Response and Request Data for Activity id: 323

Request Data Before Mapping	Request Data After Mapping
<pre><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:v1="http://www.oracle.com/retail/rib/integration/services/InjectorService/v1"> <soapenv:Header><wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"><wsu:Timestamp wsu:Id="TS-349F14DC3B9AE29EAC15602500315206"></pre>	<pre>async=false&xml_data=<LgtData xsi:noNamespaceSchemaLocation="schema.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><Header> <DocumentVersion>8.0.0</DocumentVersion> <OriginSystem>Host</OriginSystem> <ClientEnvCode>wmsdev</ClientEnvCode><ParentCompanyCode>* <ParentCompanyCode><Entity>site</Entity> <TimeStamp>2018-08-01T12:03:53.68</TimeStamp></pre>
Response Data Before Mapping	Response Data After Mapping
<pre><?xml version="1.0" encoding="utf-8"?> <root><success>True</success><response><message>Processing completed successfully for file name: 12345_20190611064714536z/messages</response></pre>	<pre><S:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"></pre>

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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.

ORACLE Universal Service Mapper Welcome, usmadmin
Tue Jun 11 03:53 PDT 2019

Select Project: LogFireIntegration

Home Mapping Designer Test Drivers **Monitoring** Admin Import/Export Configurations System Logs

USM Metrics

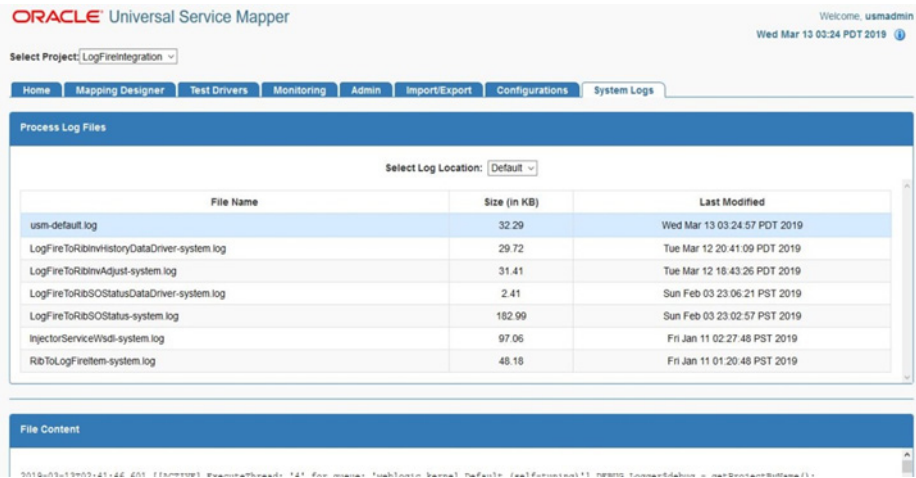
Search Criteria: Service Mapper Name All Select Date from 06/10/2018 03:53 AM to 06/11/2019 03:53 AM

Showing 1 to 10 of 247 records [first](#) [prev](#) [next](#) [last](#) Page 1 / 25

Activity Id	Start Time	End Time	Mapper Service Name	Source Operation	Status
323	Jun 11 03:47 PDT 2019	Jun 11 03:47 PDT 2019	RibToLogFirePartner_ServiceMappingOrchestration.smo	PartnerCre	✓
322	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireOrder_ServiceMappingOrchestration.smo	POCre	✓
321	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	✓
304	May 30 00:56 PDT 2019	May 30 00:56 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	✗
303	May 30 00:24 PDT 2019	May 30 00:24 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	✗
302	May 30 00:17 PDT 2019	May 30 00:17 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	✗

System Logs Tab

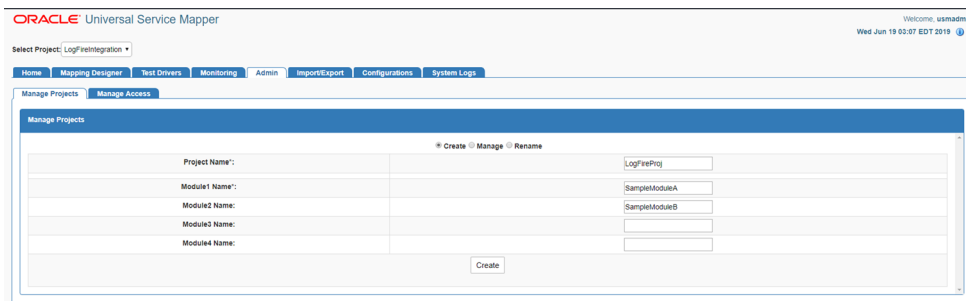
In the System Logs Tab user can browse through universal service mapper logs.



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.



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, usmadmin
Wed Jun 19 03:08 EDT 2019

Select Project: LogFireIntegration

Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs

Manage Projects Manage Access

Manage Projects

Create Manage Rename

Project Name: LogFireProj

Module1 Name:

Module2 Name:

Module3 Name:

Module4 Name:

Update Delete

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

ORACLE Universal Service Mapper

Welcome, usmadmin
Wed Jun 19 03:08 EDT 2019

Select Project: LogFireIntegration

Home Mapping Designer Test Drivers Monitoring Admin Import/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: SampleModuleD

Update Delete

- Click the **Update** button once done.
Now the Project has been updated with new Modules.

Delete Project

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

ORACLE Universal Service Mapper

Welcome, usmadmin
Wed Jun 19 03:08 EDT 2019

Select Project: LogFireIntegration

Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs

Manage Projects Manage Access

Manage Projects

Create Manage Rename

Project Name: LogFireProj

Module1 Name:

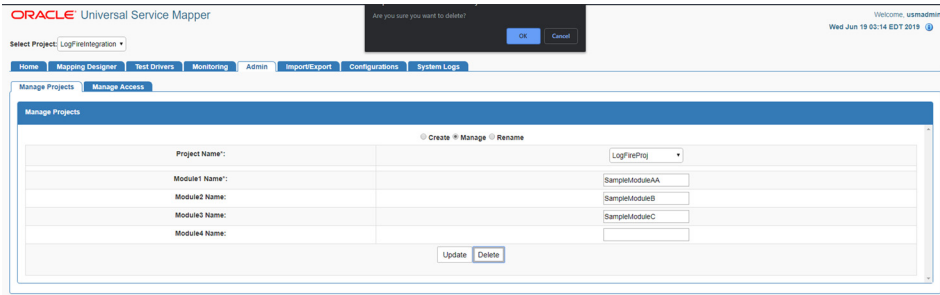
Module2 Name:

Module3 Name:

Module4 Name:

Update Delete

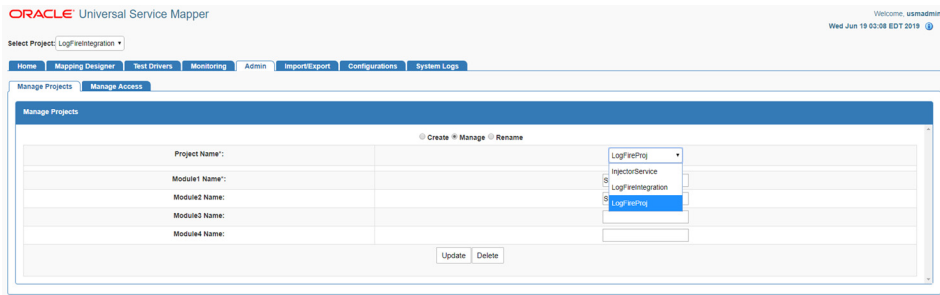
- Click the **Delete** button.
- A confirmation dialog appears, click on the **Okay** button.



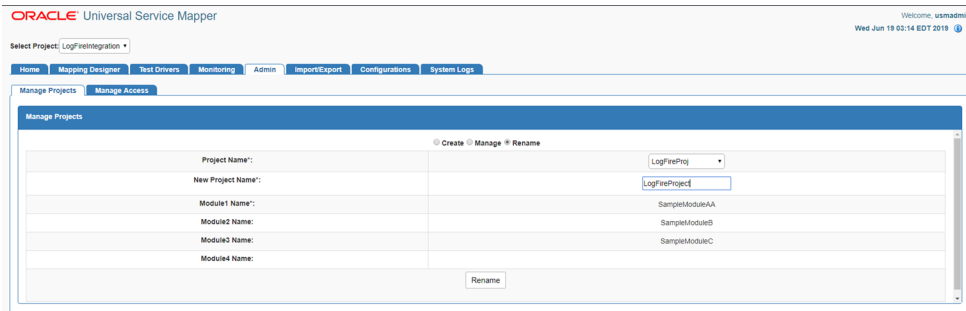
Now the selected project is deleted.

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.



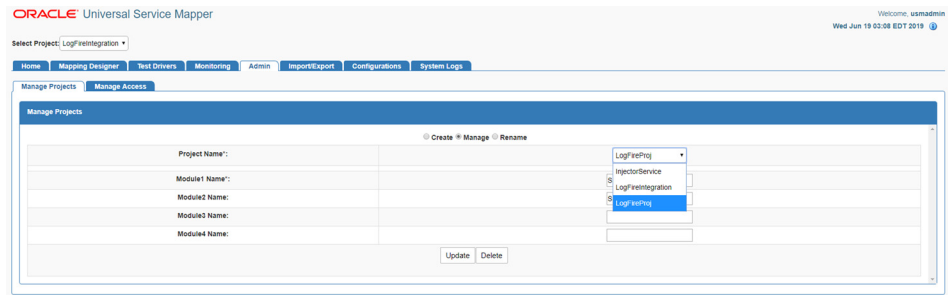
4. Enter the new project name in the **New Project Name** textbox.



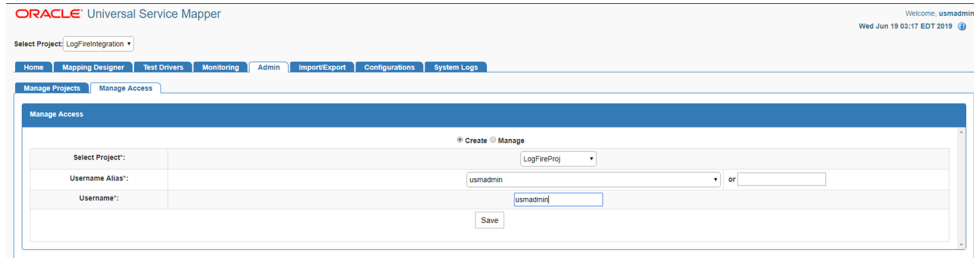
5. Click on **Rename** button to rename the project.

Provide User Access to a Project

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



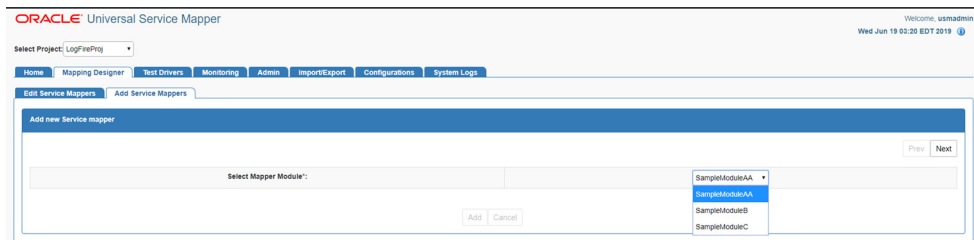
3. Enter the **Username Alias** and **Username** to which access has to be granted.



4. Click the **Save** button.
The user now has access to the project.

Create New Service Mapper

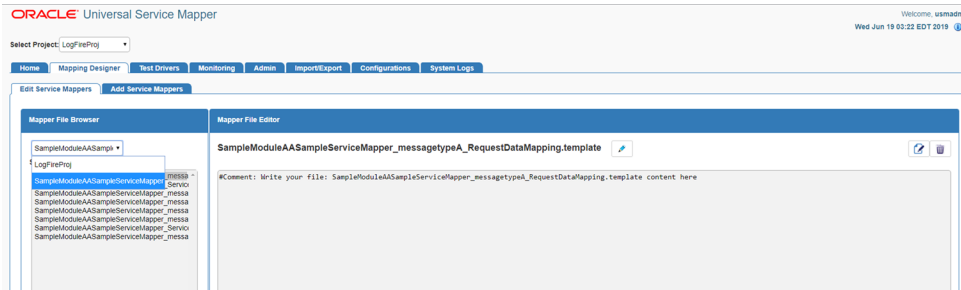
1. Go the **Mapping Designer** tab.
2. Open the **Add Service Mappers** sub-tab.
3. Select the module name from the drop down list box and click on next.



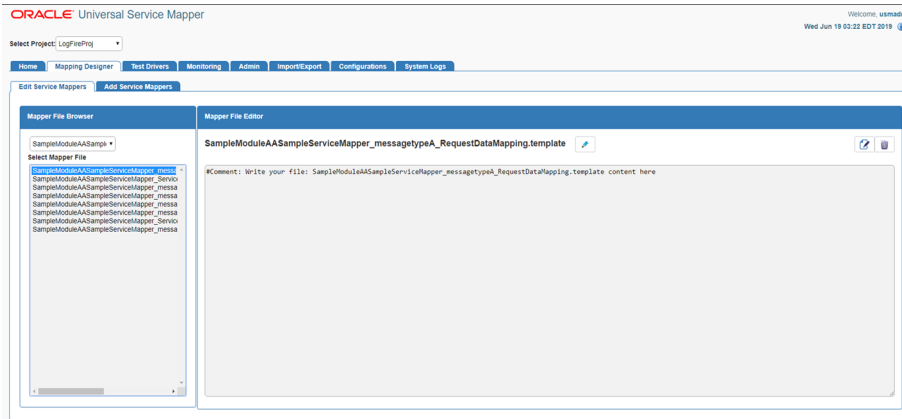
4. Enter the **Service Mapper** name of your choice and click **Next**.
5. Enter the **Message Types** that are to be supported by the service mapper, in a comma separated format.
6. Click on the **Add** button.
Now the new Service Mapper is created with all the necessary files.

Update Service Mapper Files

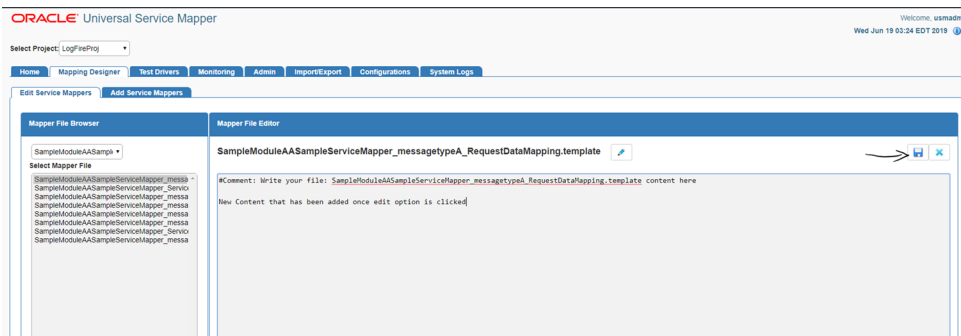
1. Go the **Edit Service Mapper** sub-tab in the **Mapping Designer** tab.
2. Select the service mapper prefix from the drop down list box on the left side of the screen.



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



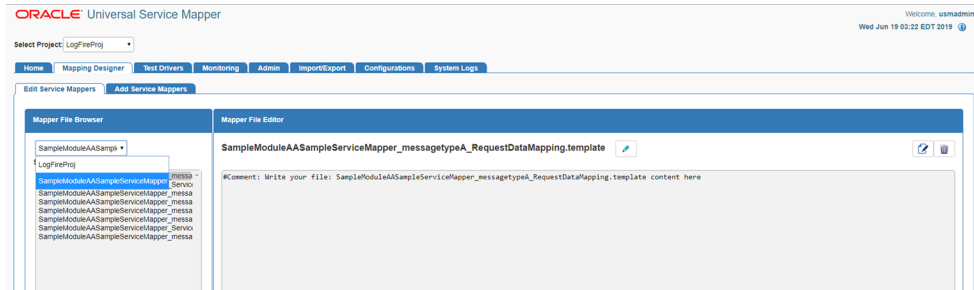
4. Once the file loads, click on the Edit icon on the right side of the screen. The text field should be enabled for editing.
5. Edit the content as desired.



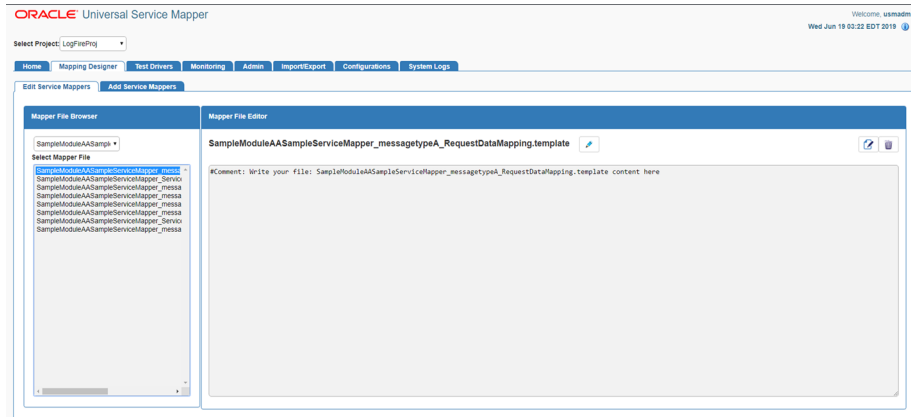
6. Once the editing is done, click the Save icon (it replaced the Edit button). The updates to the service mapper are saved.

Rename Service Mapper File

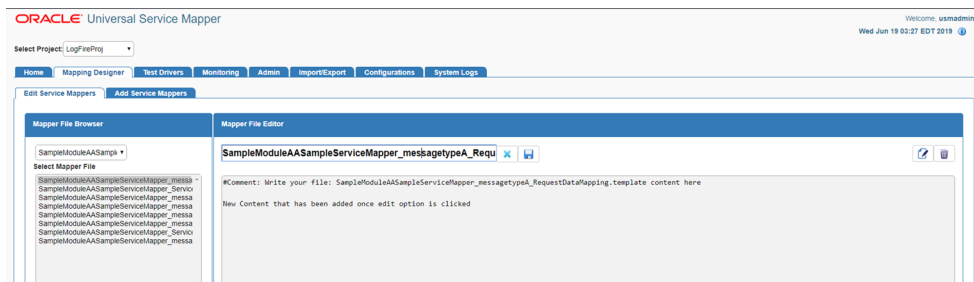
1. Go to the **Edit Service Mapper** sub-tab in the **Mapping Designer** tab.
2. Select the service mapper prefix from the drop down list box.



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



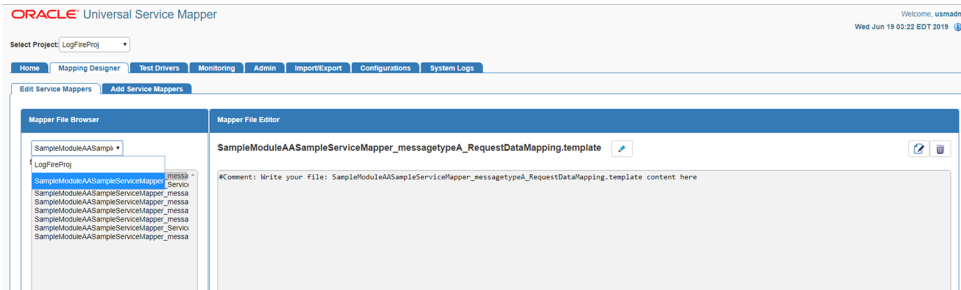
4. Once the file is loaded, click the pencil icon next to the name of the service mapper on the right pane.
An Edit box opens.
5. Change the name of the mapper file as required.



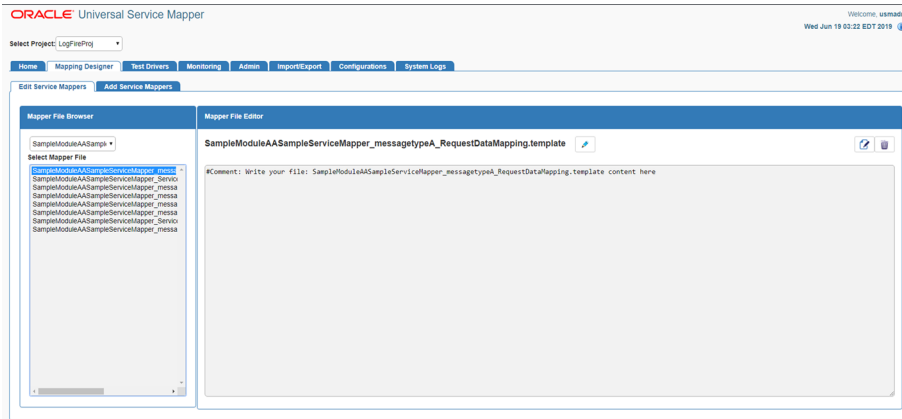
6. Click the Save button (it replaced the Edit button).
The mapper file has been renamed.

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.



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



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

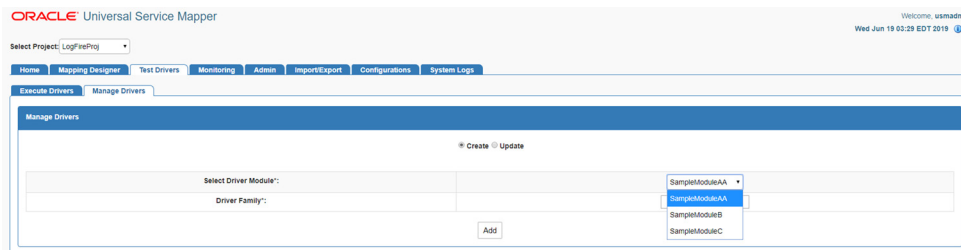
A confirmation dialog appears.

5. Click **Okay** to continue.

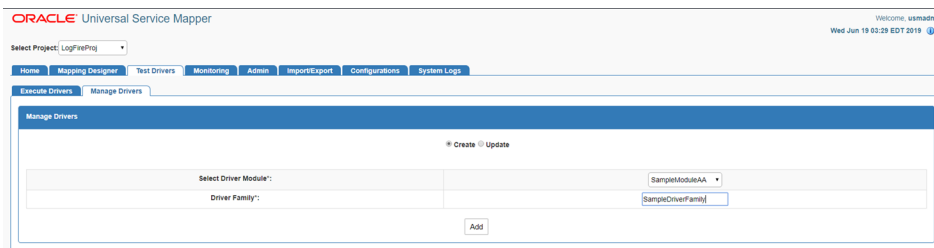
The mapper file is deleted.

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.



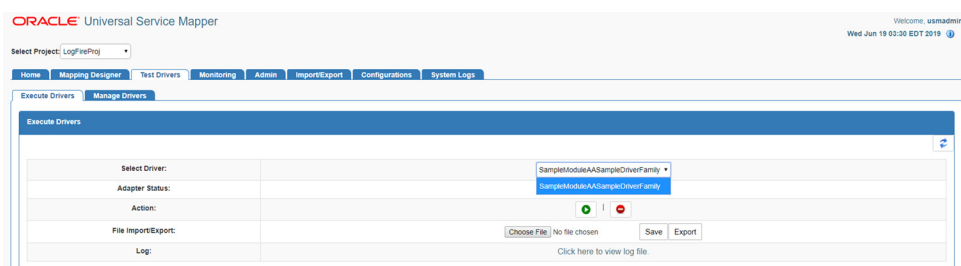
5. Enter the Driver Family name.



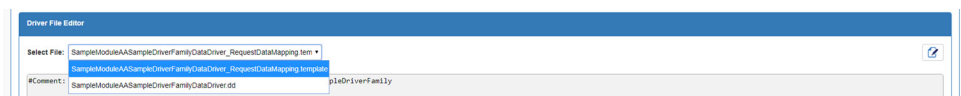
6. Click the **Add** button.

Update Driver Files

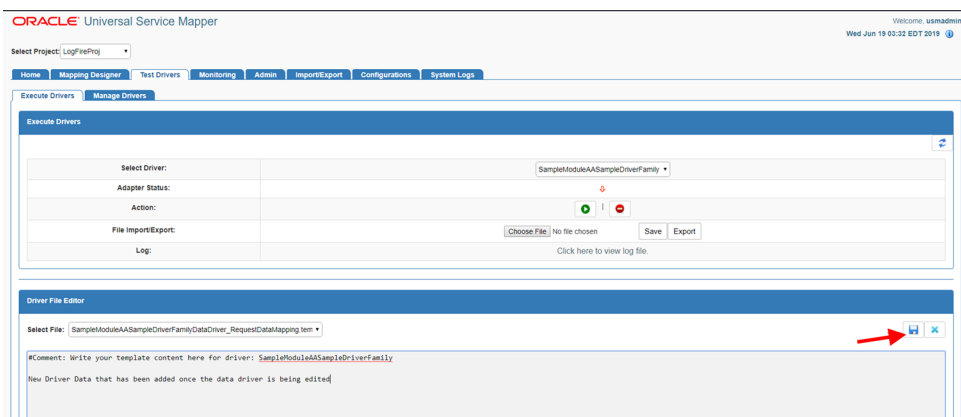
1. Go to the **Execute Driver** sub-tab in the **Test Driver** tab.
2. Select the driver name from the drop down list box.



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



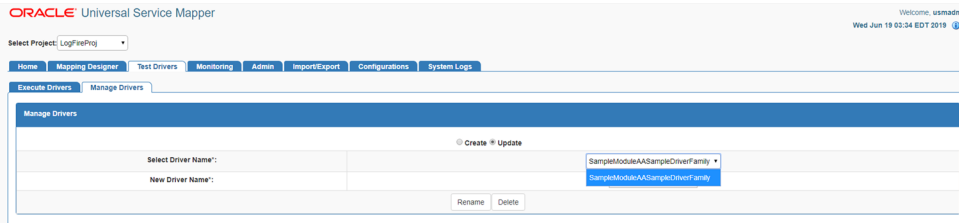
4. In the editing panel below, click on the **Edit** icon on the right side of the screen.
5. Edit the contents of the file as desired.
6. Once done, click the **Save** icon to save the changes to the file.



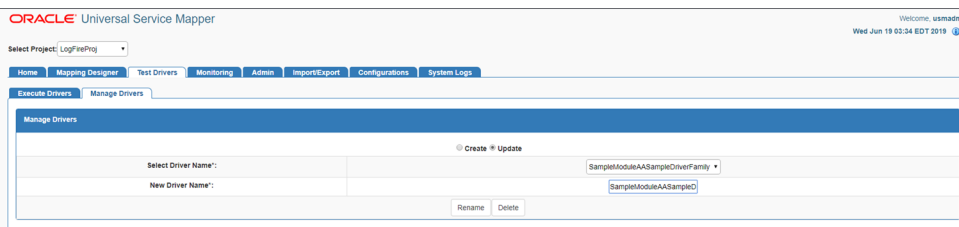
The file has been updated.

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.



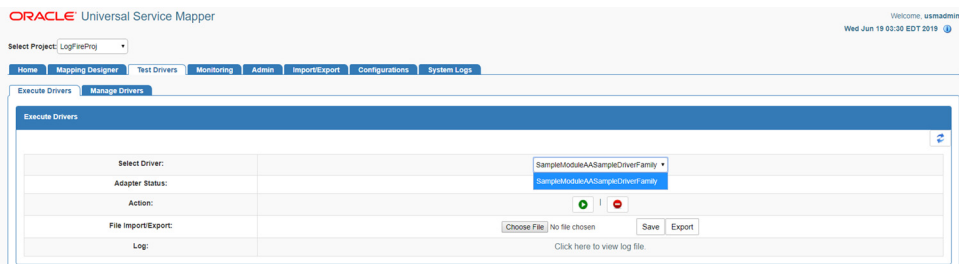
4. Enter a new name for the driver as required.



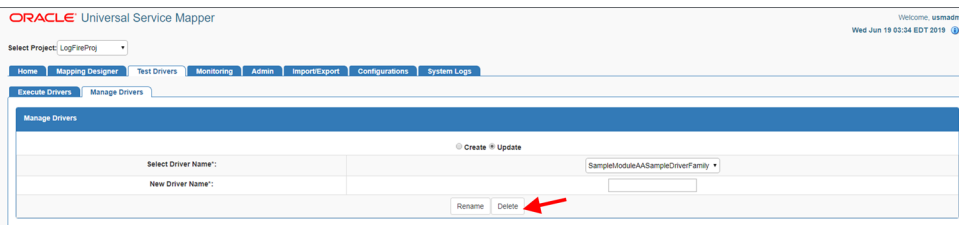
5. Click the **Rename** button.
The driver is renamed.

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.



4. Click the **Delete** button.

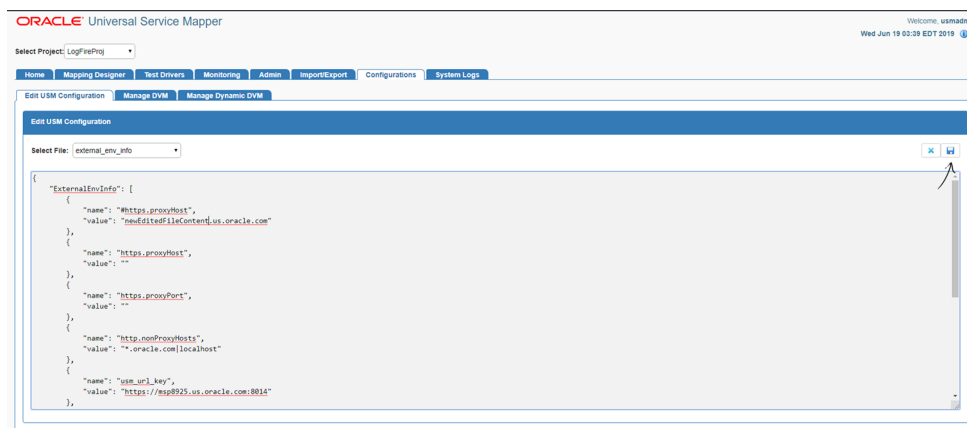


A confirmation dialog box opens.

5. Click **Okay**.
The driver file is deleted.

Edit Configuration File

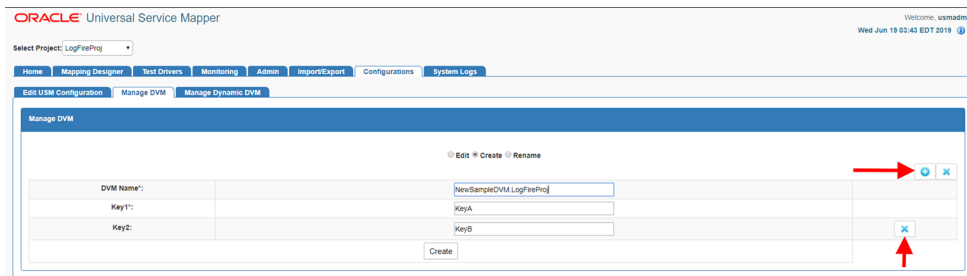
1. Go to the **Edit USM Configuration** sub-tab in the **Configurations** tab.
2. Click the **Edit** button icon on the right side of the screen.
3. Edit the contents of the file as desired.



4. 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.

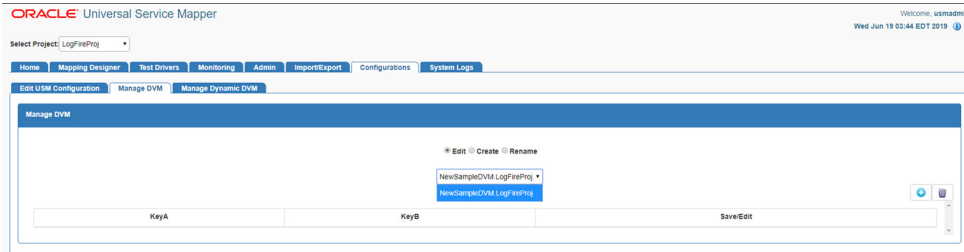


5. Once done, click on **Save** to create the DVM.
Now the new DVM is created.

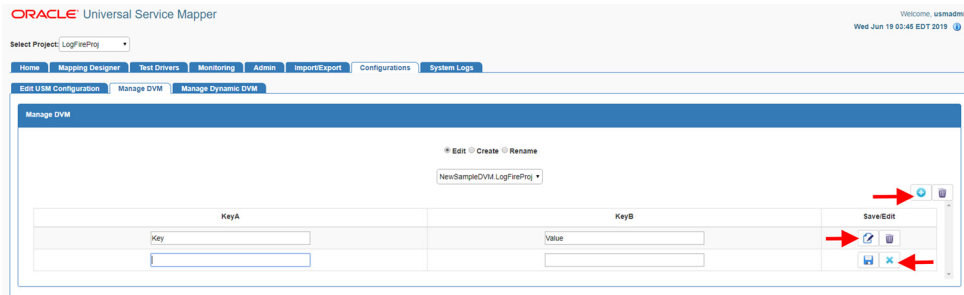
Update DVM

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.

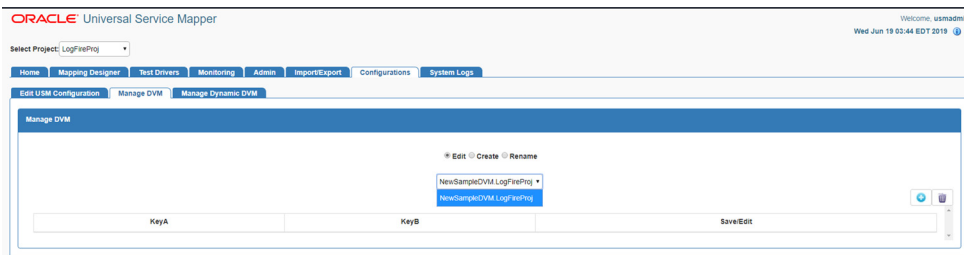


4. Changes are made to the DVM as rows are added, edited, or deleted:
 - Click the Edit icon to edit the DVM row.
 - Click the Delete icon to delete the row.
 - Click the Insert icon on the top right corner of the table view to add more DVM rows.

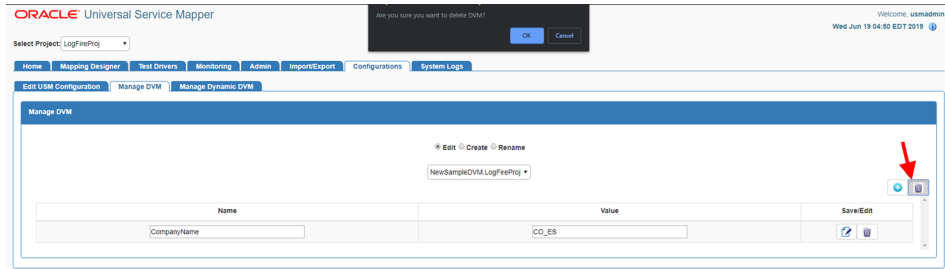


Delete DVM

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.



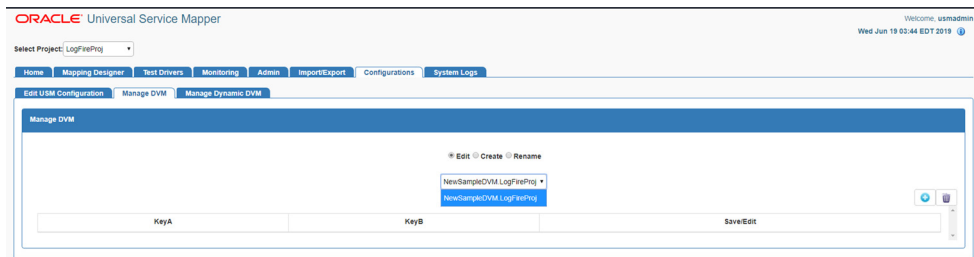
4. Click the Delete button on the top right corner of the table view.
5. A delete confirmation dialog appears, click **OK** to confirm the operation.



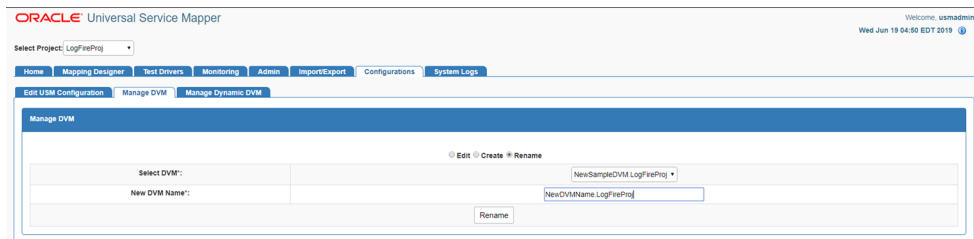
The DVM table is deleted.

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.



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.



Now the DVM table has been renamed.

Understanding the Installation Prerequisites

This chapter describes the procedure you must use to install the WebLogic 12c runtime and deploy the tool's EAR file. For more information about domain creation and other server related information, see the WebLogic application server documents.

Installation and Setup Instructions

This section describes the installation and setup instructions including the installation prerequisites, preparing the WebLogic server, creating a WebLogic domain, verifying installation of JRF runtime libraries and deploying the EAR file. It also describes guidelines to set up security.

Note: The windows included in the following procedures are for example purposes only. Because these procedures must be followed for each application, valid values vary. Therefore, consider the illustrations as guides only; the values shown may not always apply.

Prerequisites

USM Web Application requires Oracle WebLogic Server 12c (12.2.1.3.0), built with Java 8 (JDK 1.8 64 bit with the latest security updates).

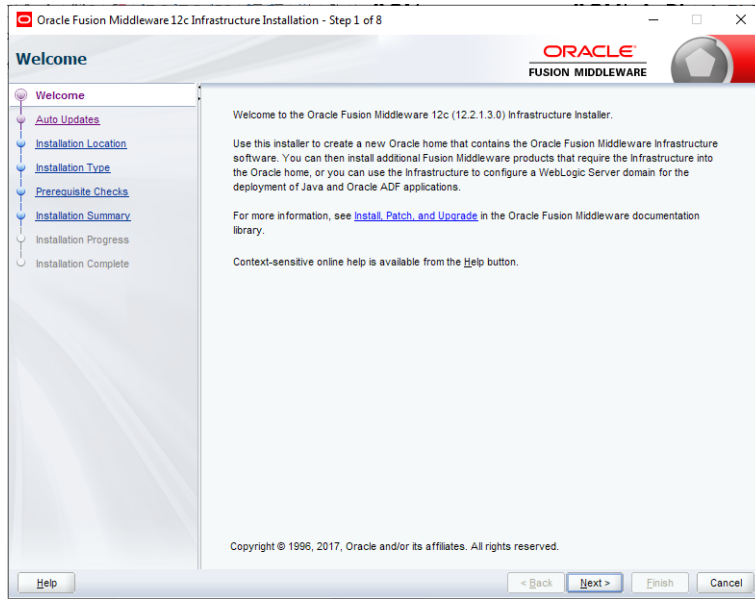
Installing WebLogic

To get the JRF runtime option while creating the domain, install the Application Development Runtime. To obtain Application Development Runtime, go to the Oracle Technology Network and take the following steps:

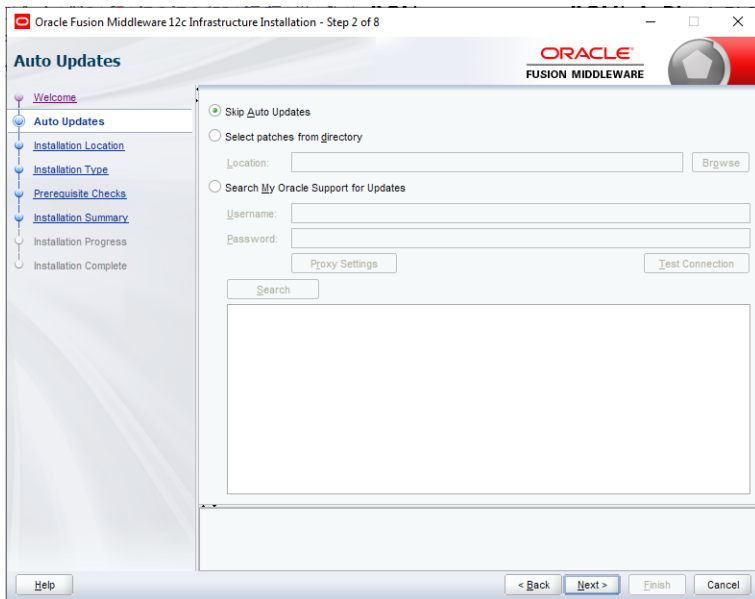
1. Find `fmw_12.2.1.3.0_infrastructure_Disk1_1of1.zip` and download this file to your system.
2. Extract the contents of this zip file to your system. You will use the `fmw_12.2.1.3.0_infrastructure.jar` file to run the installer.
3. Run the installer by executing the jar file:

```
java -jar fmw_12.2.1.3.0_infrastructure.jar
```

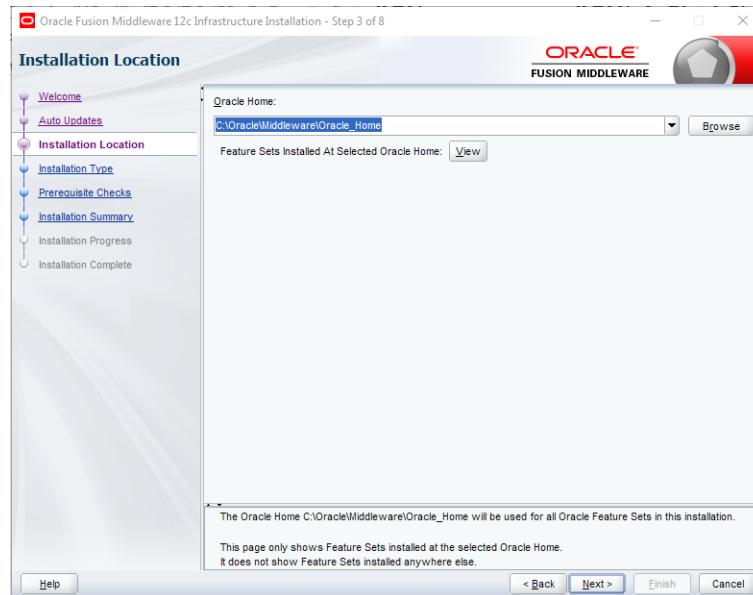
The Welcome window displays.



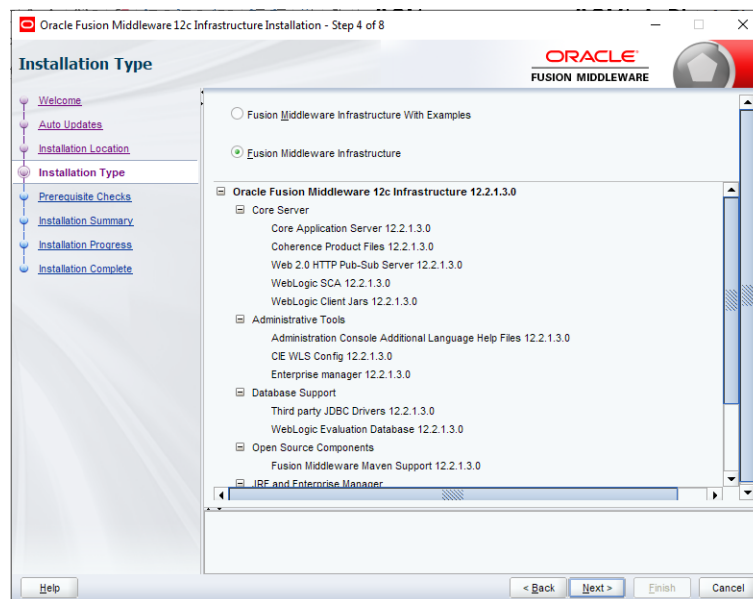
4. Click **Next**. The Auto Updates window displays. Select the appropriate option.



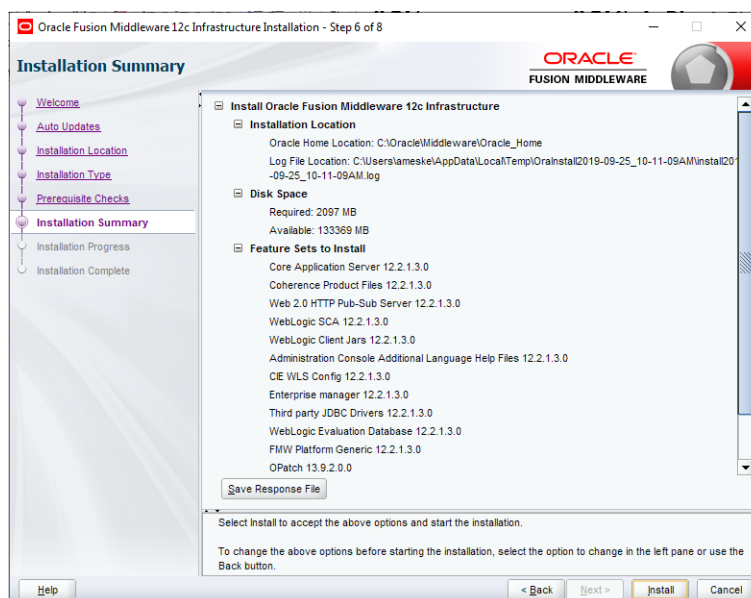
5. Click **Next**. The Installation Location window displays. Click **Browse** to select the Oracle Home location where the WebLogic Server is to be installed.



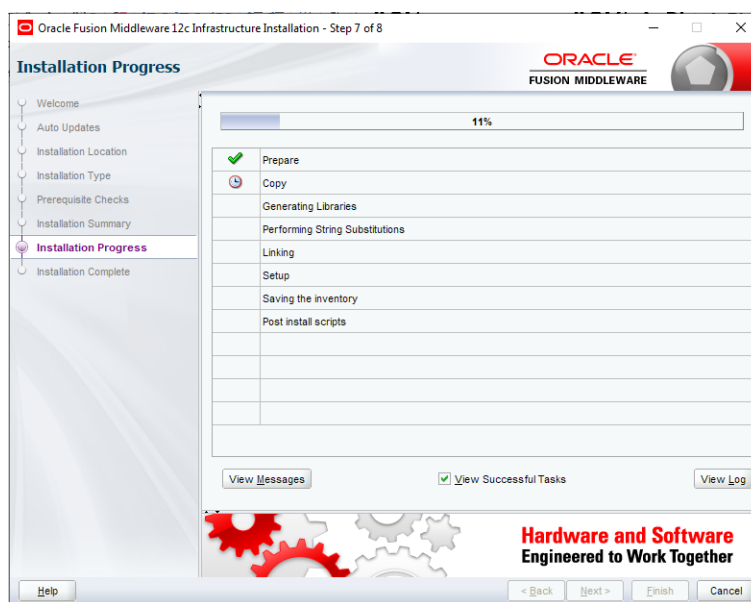
6. Click **Next**. The **Installation Type** window displays. Select the type of installation.



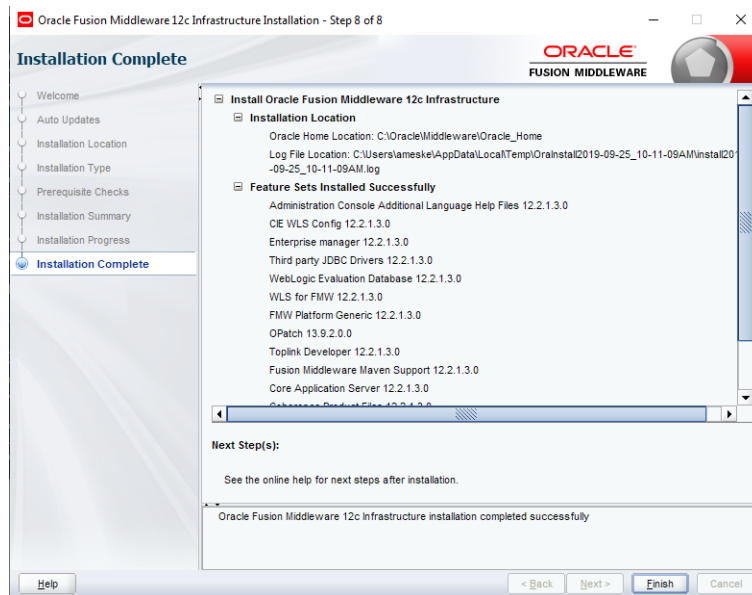
7. Click **Next**. The installer performs the pre-requisite checks and ensures all required conditions are satisfied.



10. Click **Install**. The Installation Progress window displays.



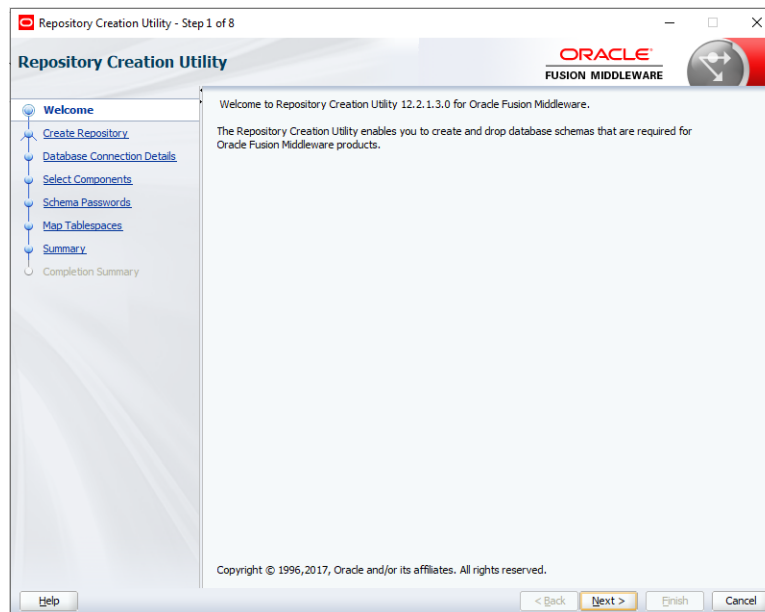
11. Click **Next** when the installation completes. The Installation Complete window displays.



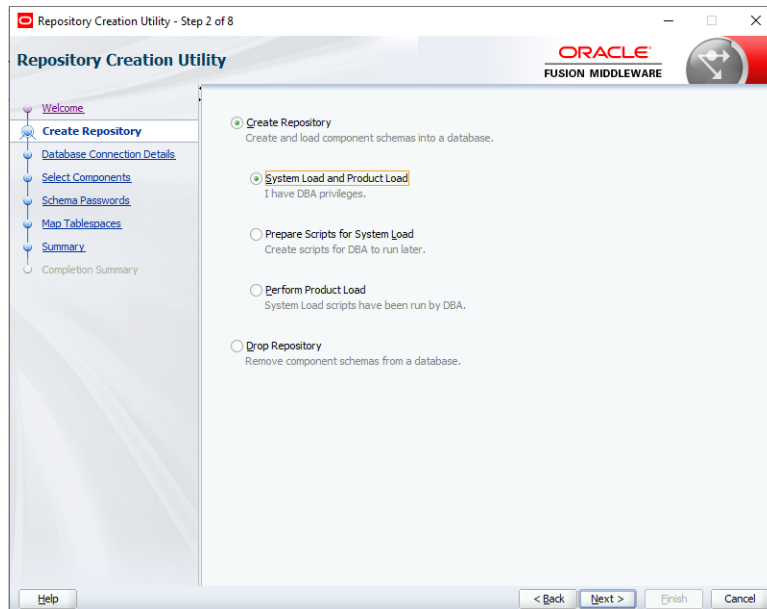
Creating the Required Schema Using Repository Creation Utility

To create a schema user for the dynamic_data_service domain, take the following steps:

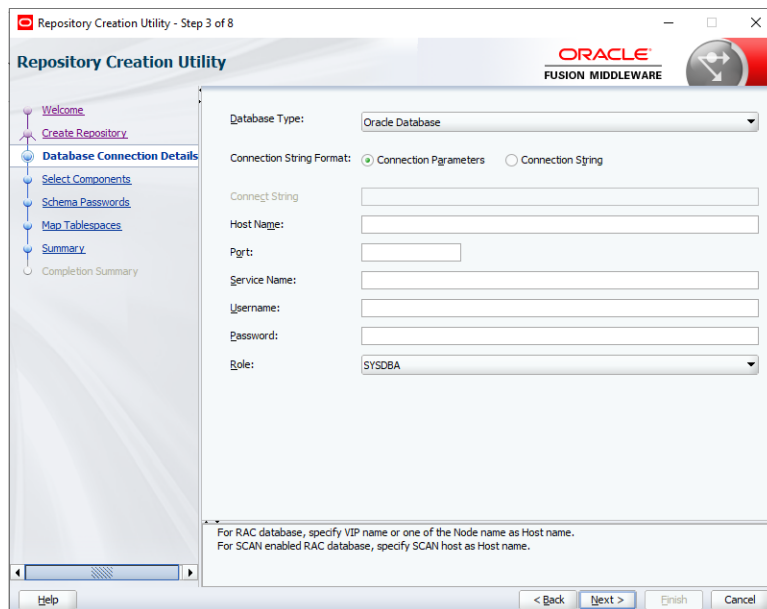
1. Run the RCU from the <MW_HOME>/oracle_common/bin folder. The Welcome window displays.



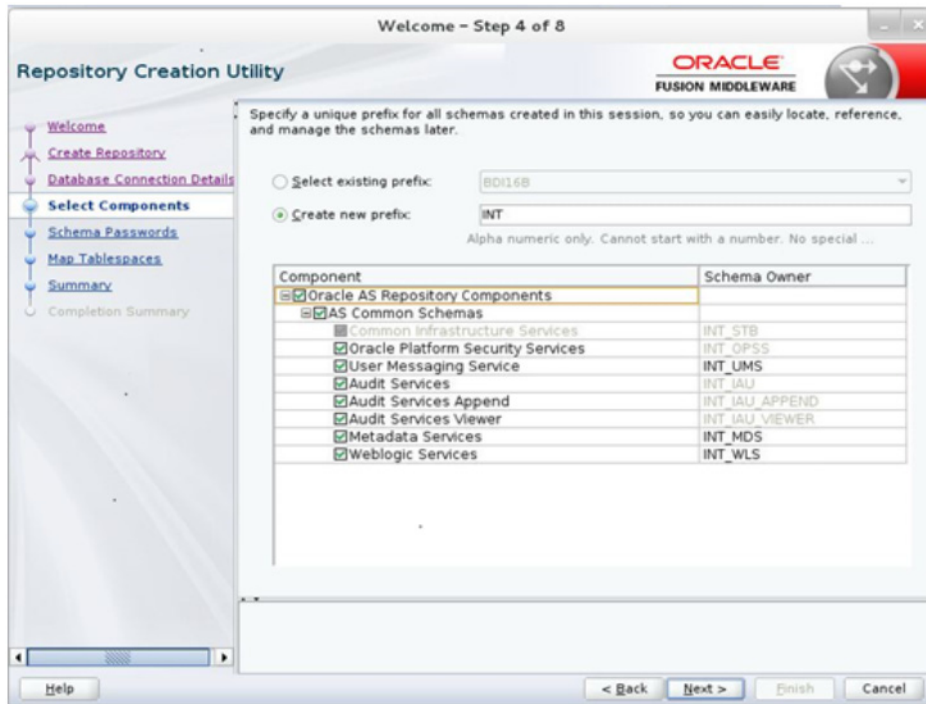
2. Click **Next** and select the **Create Repository** option.



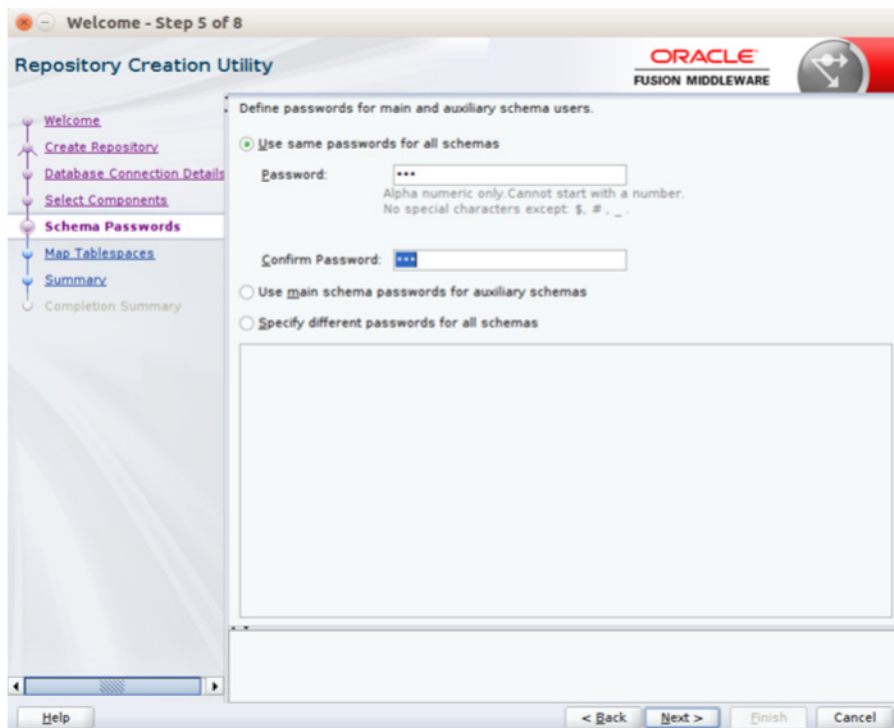
3. Click **Next**. Enter the database credentials where the schema user has to be created.



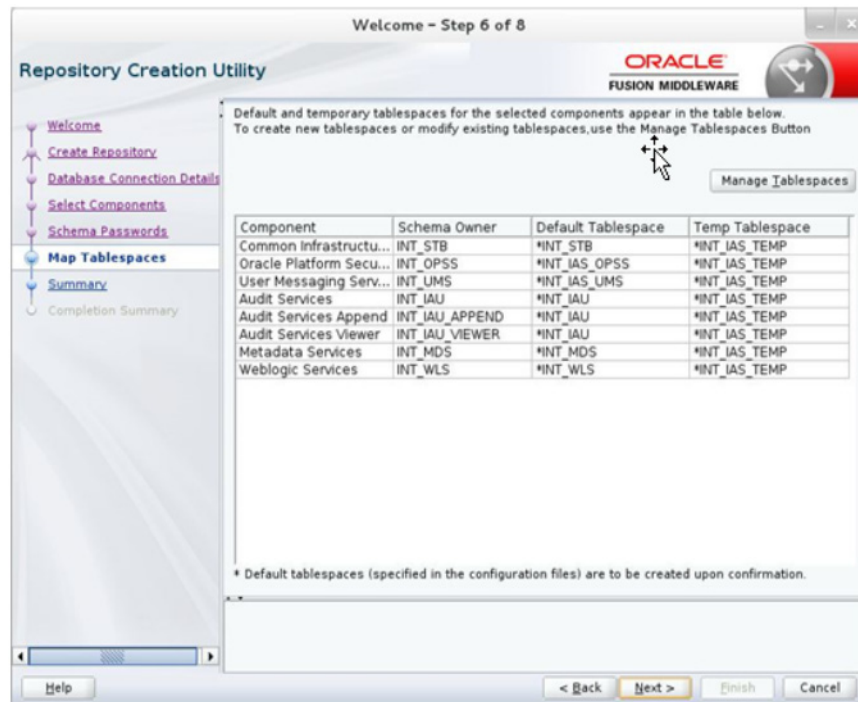
4. Click **Next**. Specify the prefix to be used for the schema user creation. For example, INT. Select Metadata Services, Weblogic Services, and Oracle Platform Security Services.



5. Click Next. Specify the password.



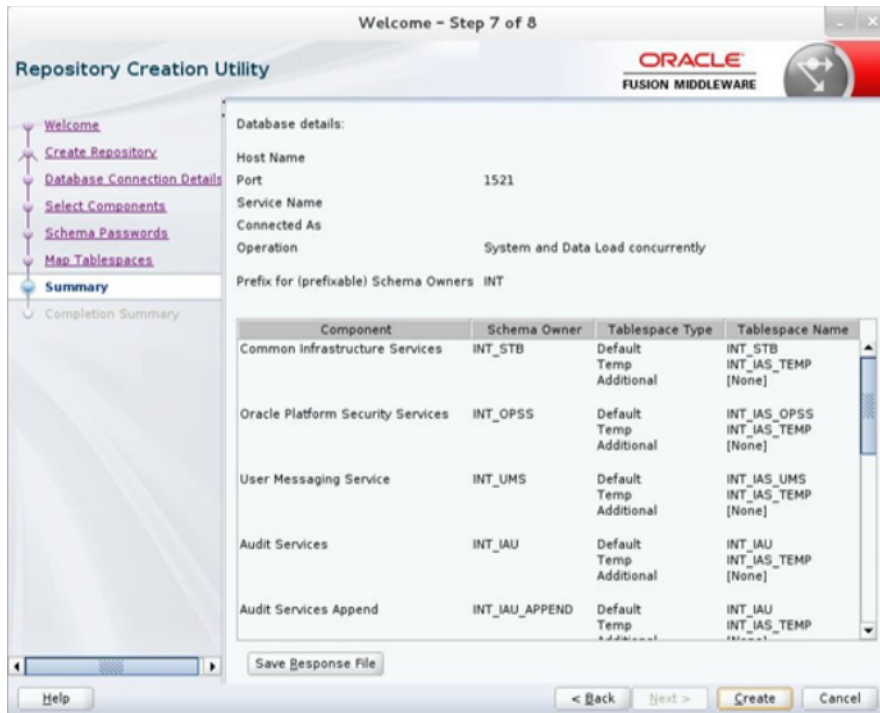
6. Click Next. The window provides the details of tablespaces created as part of schema creation.



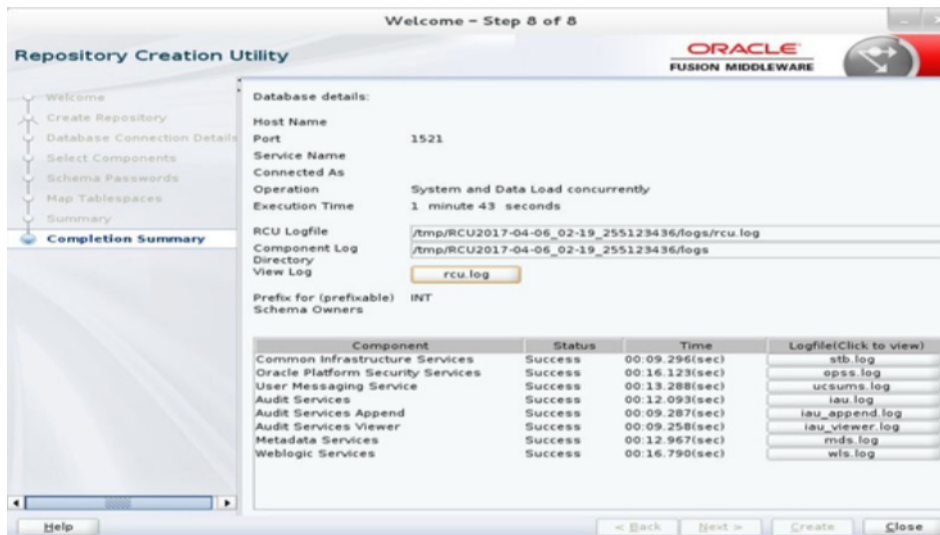
7. Click **Next**. The Confirmation window displays.



8. Click **OK**. The Summary window displays.



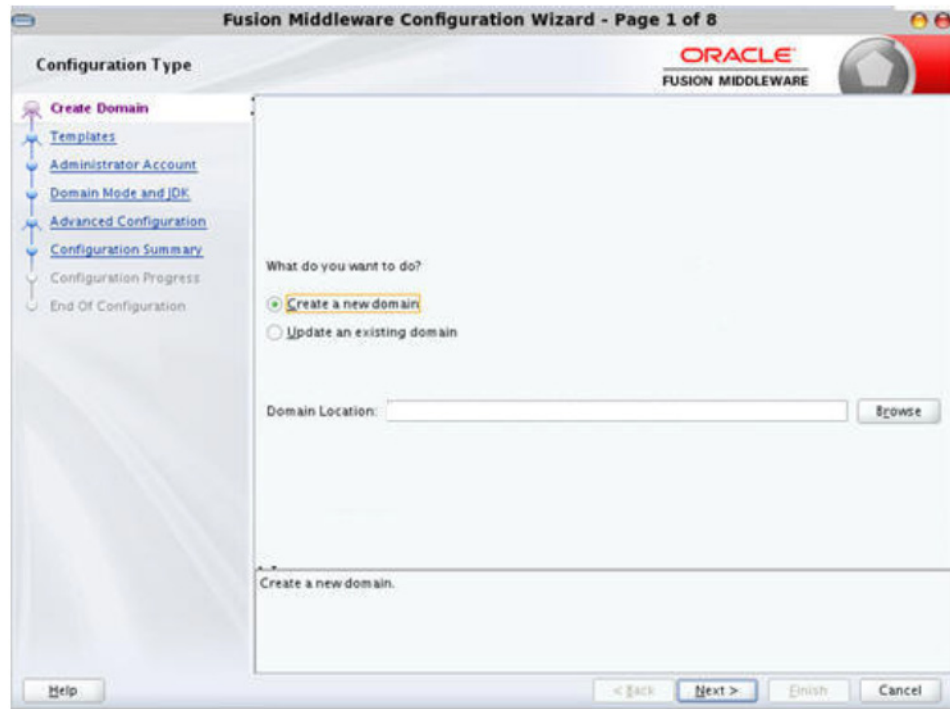
9. Click **Create** and proceed to create the schema. This could take a while to complete. The Summary window displays.



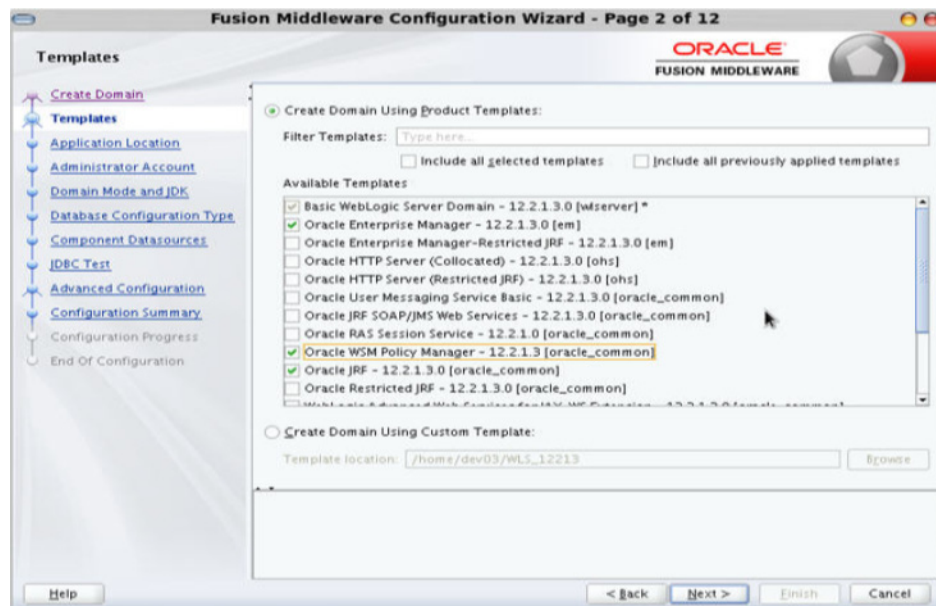
Creating a WebLogic Domain with JRF

To create a new WebLogic domain with ADF runtime libraries, take the following steps:

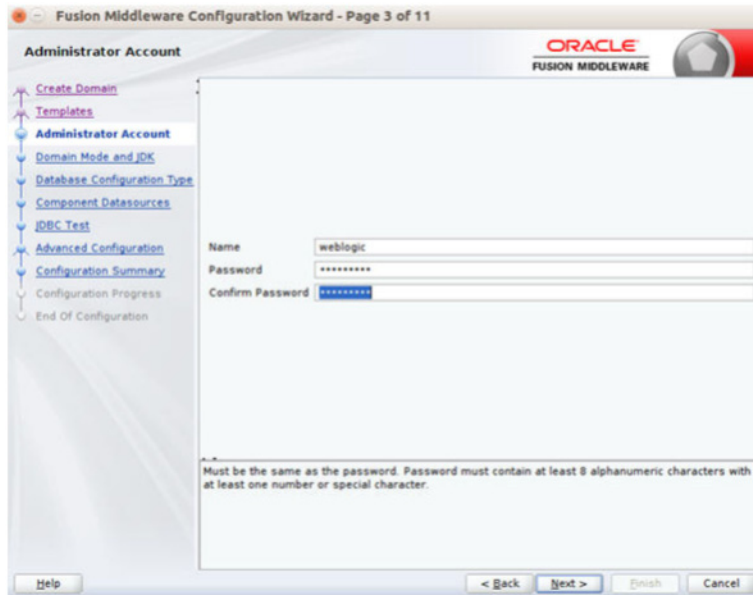
1. Run the config.sh from the <ORACLE_HOME>/oracle_common/common/bin folder. The Configuration Type window displays.



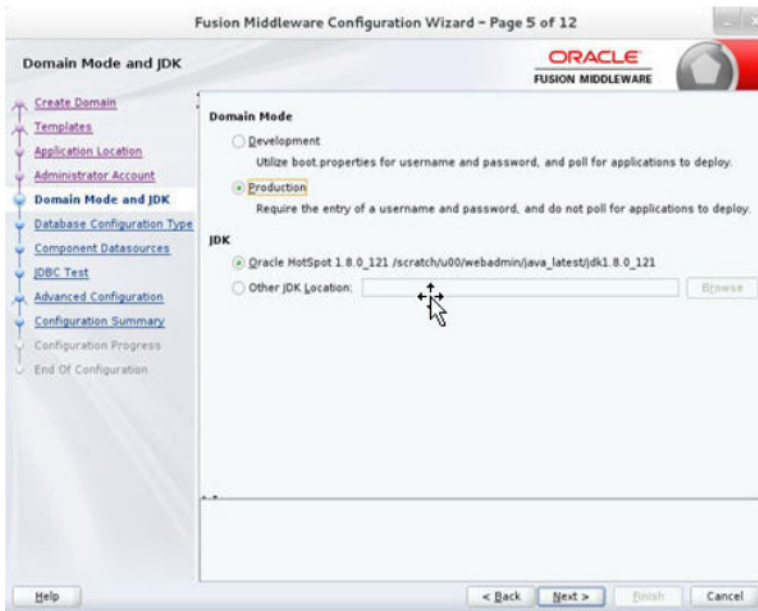
2. Select **Create a new domain**, enter the domain location, and click **Next**. The **Templates** window displays. By default, the **Basic WebLogic Server Domain - 12.2.1.0 [wlserver]** check box is selected.



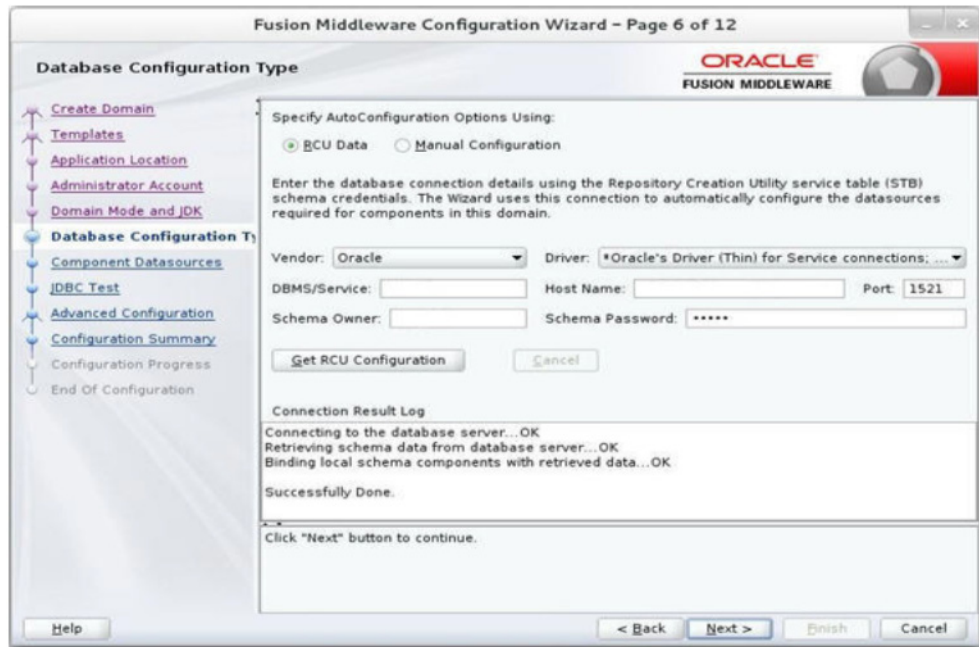
3. Select the **Oracle JRF - 12.2.1.3.0 [oracle_common]**, **Oracle Enterprise Manager - 12.2.1.3.0 [em]**, **Oracle WSM Policy Manager - 12.2.1.3.0 [oracle_common]**, and **WebLogic Coherence Cluster Extension - 12.2.1.3.0[wlserver]** check boxes.
4. Click **Next**. The **Administrator Account** window displays. Enter the user credentials you want to use to log in to the WebLogic Administration Console.



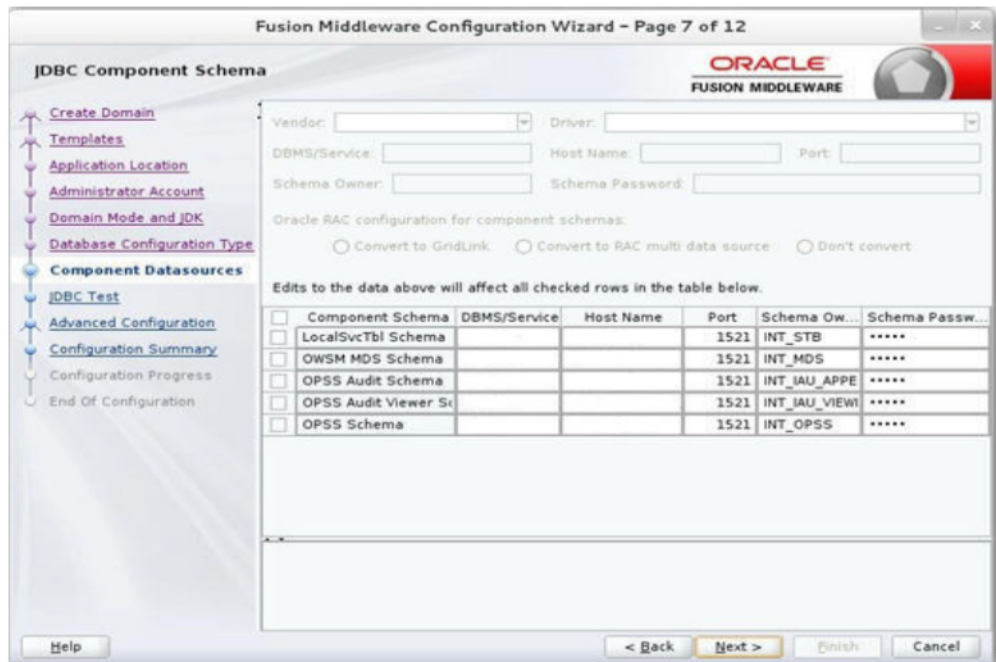
5. Click **Next**. The Domain Mode and JDK window displays. Set the **Domain Mode** as **Production** and select the **JDK** version (JDK 1.8 with the latest security updates) you want to use.



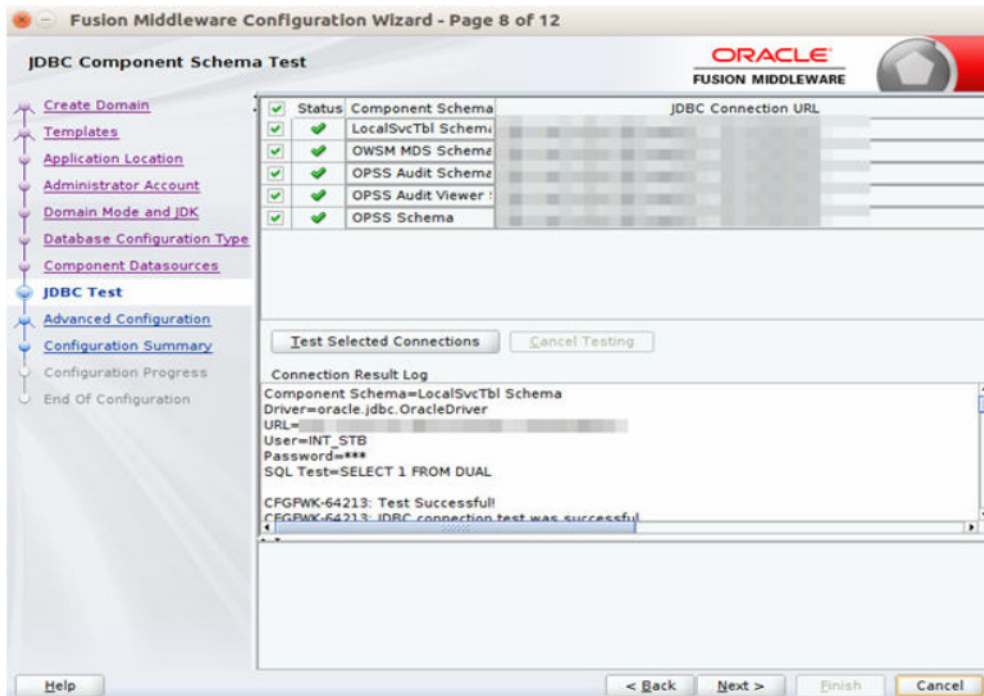
6. Click **Next**. The Database Configuration Type window displays.
 1. Select the **RCU Data** radio button.
 2. Select **Oracle** as the **Vendor**.
 3. Select **Oracle's Driver (Thin)** for **Service connections**; **Version 9.0.1 and later** as the **Driver**.
 4. Enter the **Service, Host Name, Port, Schema Owner, and Schema Password** for the *_STB schema created using the RCU.
 5. Click **Get RCU Configuration**.
The Connection Result Log displays the connection status.



7. Click Next. The JDBC Component Schema window displays.



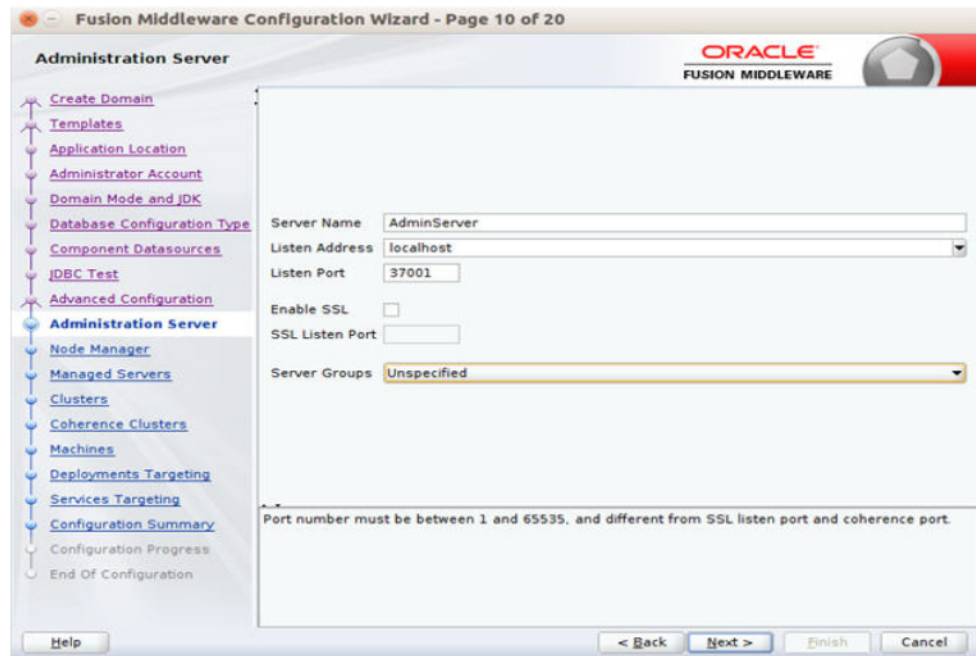
8. Click Next. The JDBC Component Schema Test window displays status on whether the JDBC tests on the schemas were successful.



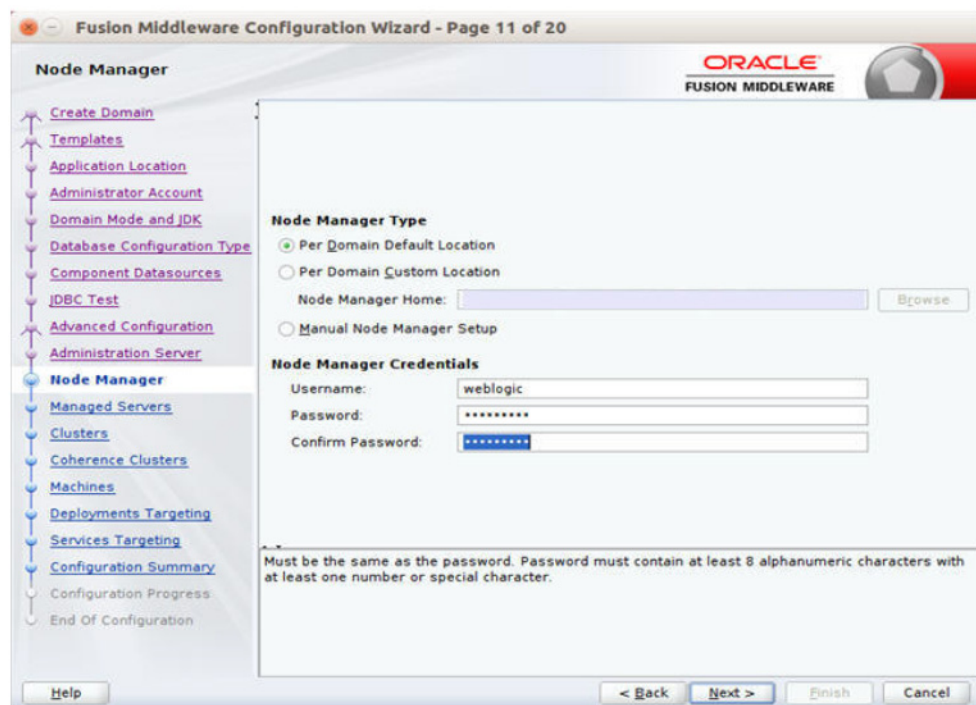
- Click **Next**. The Advanced Configuration window displays. Select all the checkboxes, except Domain Frontend Host Capture and JMS File Store options, in this window.



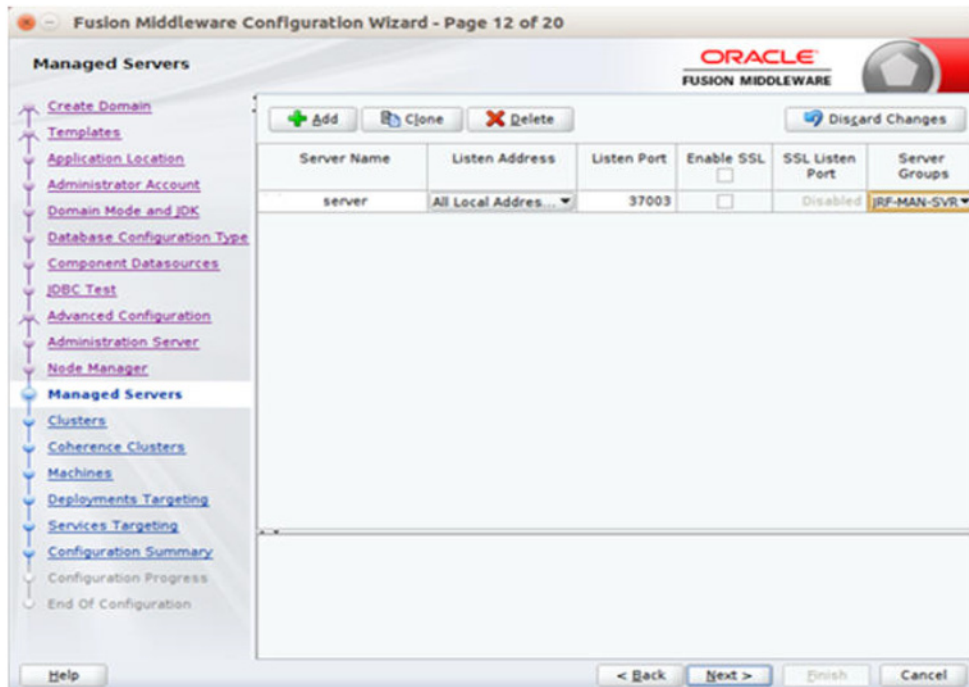
- Click **Next**. The Administration Server window displays. Enter the **Listen Address** and the **Listen Port** details.



11. Click **Next**. The Node Manager window displays. Select the **Node Manager Type** and enter the **Node Manager Credentials**.

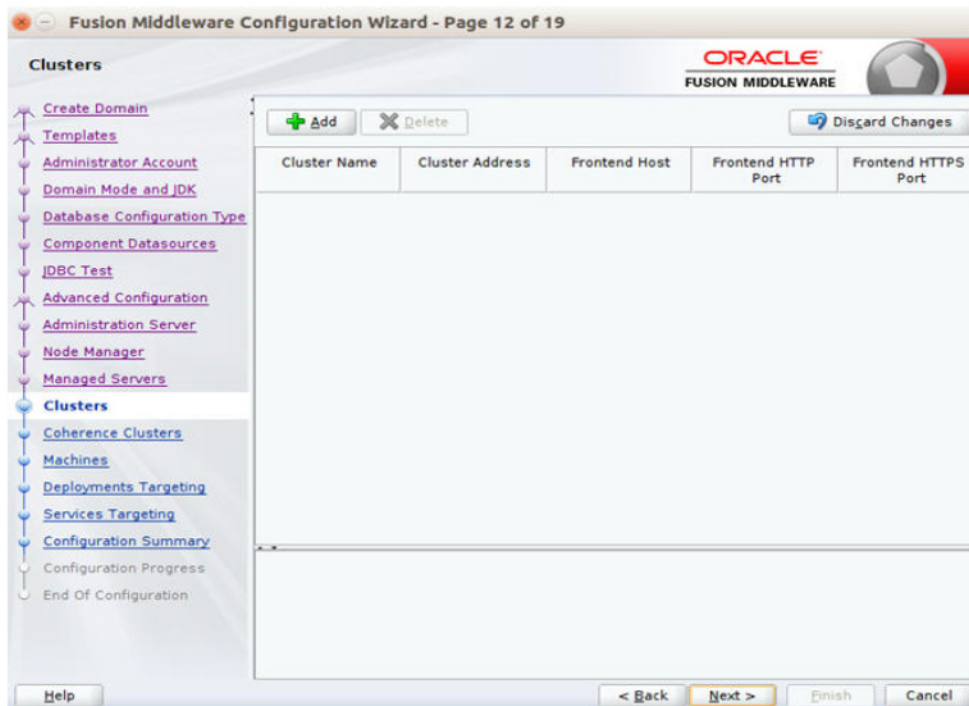


12. Click **Next**. The Managed Servers window displays.
1. Click **Add** to add a managed server on which you will deploy USM Web Application.
 2. Enter the **Server Name**, **Listen Address**, and **Listen Port** for the managed server.
 3. Set the **Server Groups** to JRF_MAN_SRV.



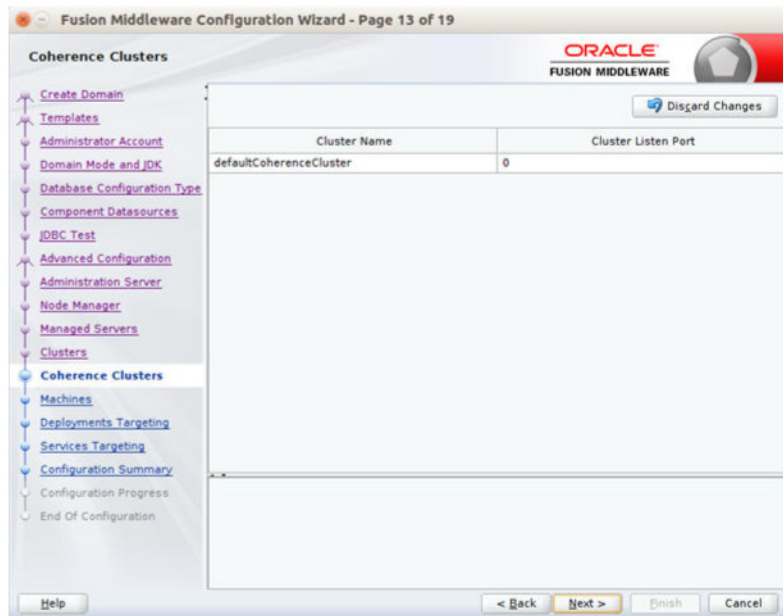
13. Click **Next**. The Clusters window displays.

1. Click **Add** to add a cluster. This is an optional step in the procedure.



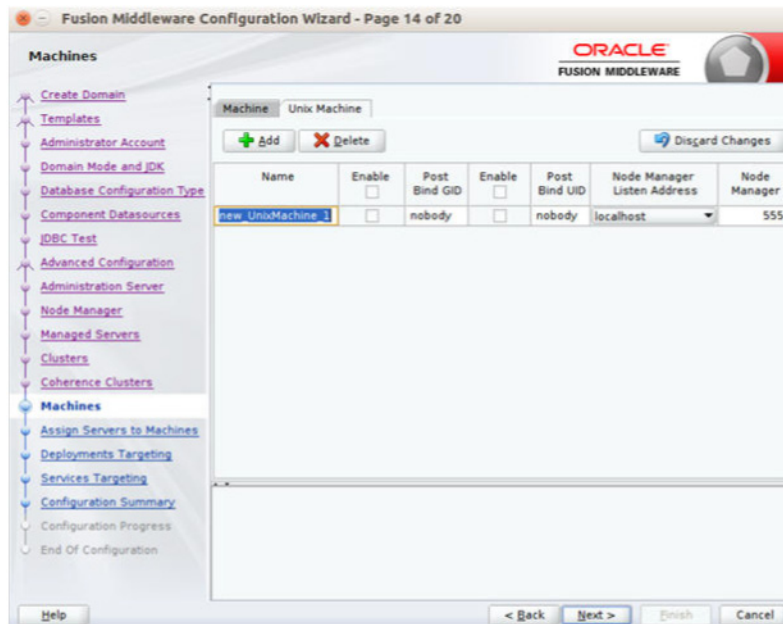
14. Click **Next**. The Coherence Clusters window displays.

1. **Add** a coherence cluster. This is an optional step in the procedure.

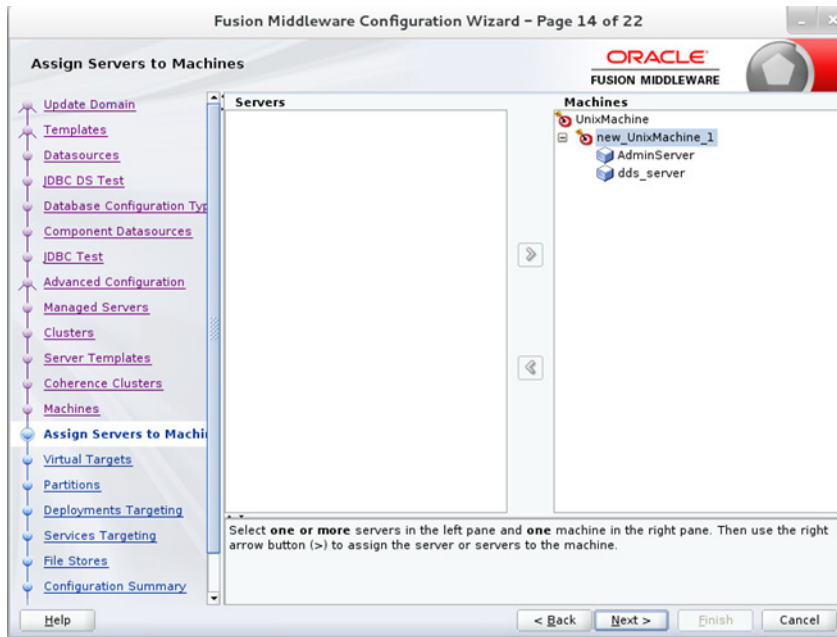


15. Click **Next**. The Machines window displays.

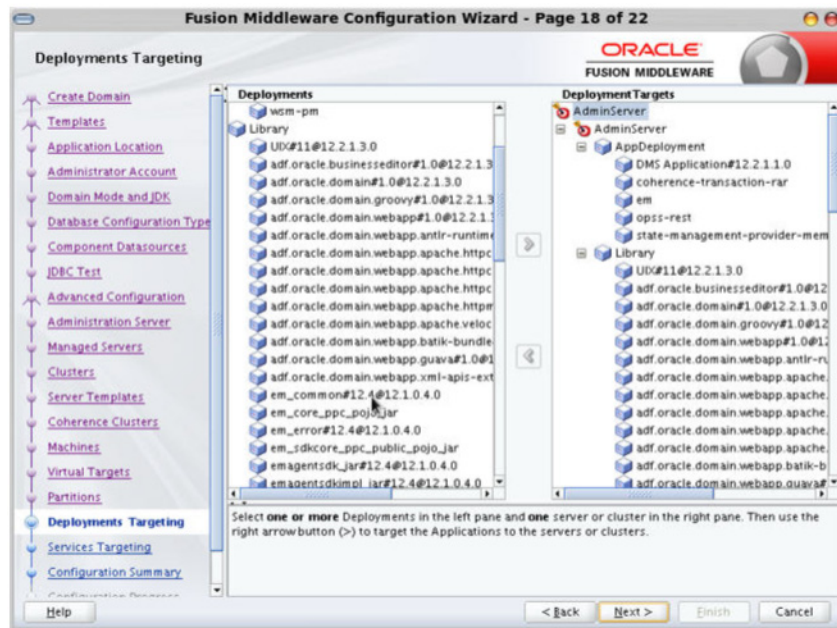
1. Click **Add**.
2. Enter the **Name** and the **Node Manager Listen Address** for the managed server.



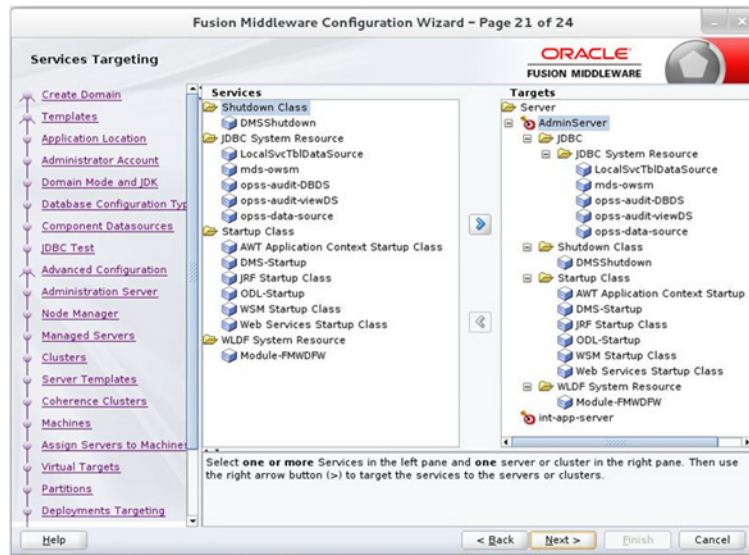
16. Click **Next**. The Assign Servers to Machines window displays. Add the Admin Server and the managed server to the computer.



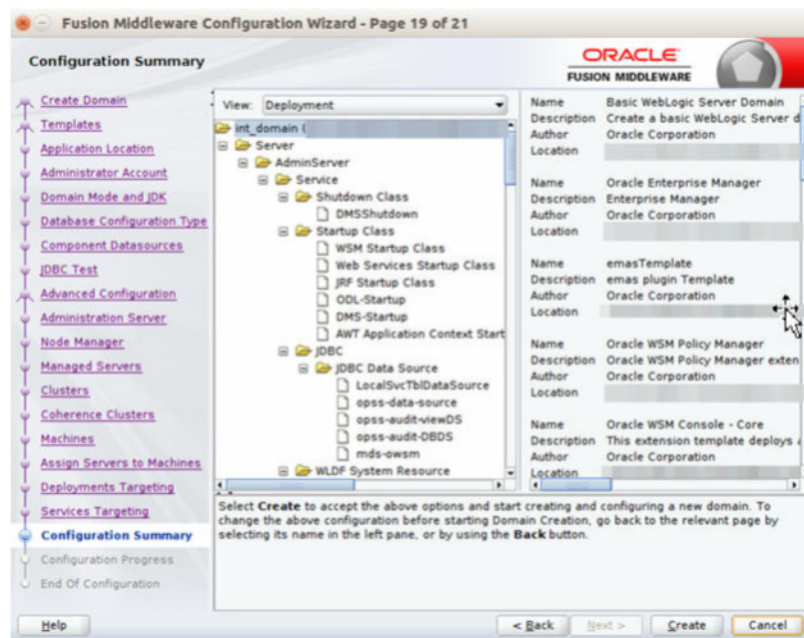
17. Click **Next**. The Deployments Targeting window displays. Select **wsm-pm** from Deployments and add it to **AdminServer** in Targets.



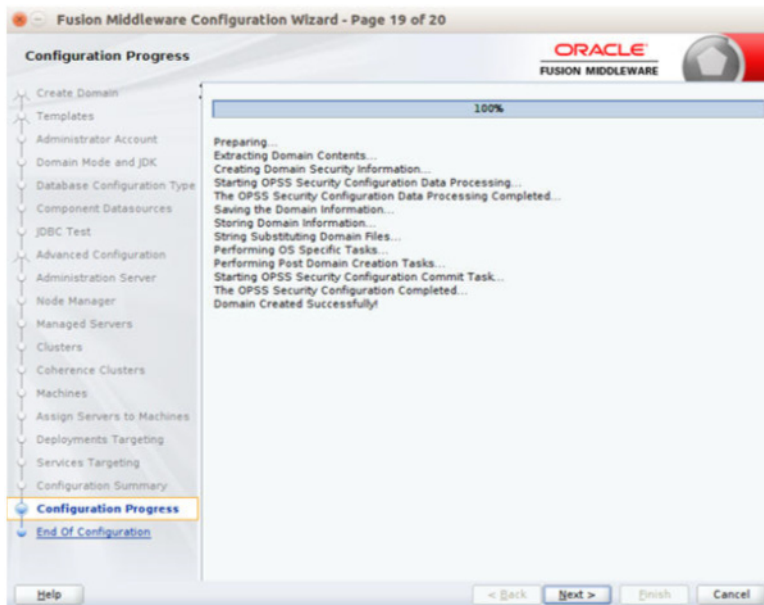
18. Click **Next**. The Services Targeting window displays. Target JDBC services to Admin and Manage server.



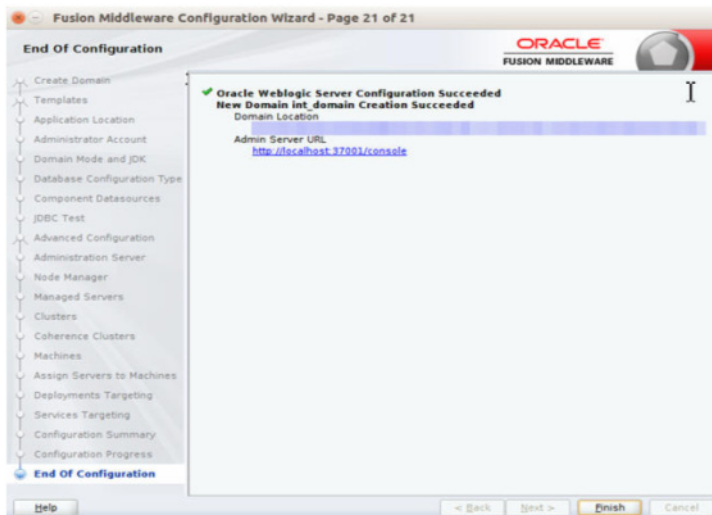
19. Click **Next**. The Configuration Summary window displays. Verify that all information described in this window is accurate.



20. Click **Create**. The Configuration Progress window displays a message when the domain is created successfully.



21. Click **Next**. The Configuration Success window describes the Domain Location and Admin Server URL once the configuration is complete.



22. Click **Finish** to complete creating the WebLogic domain and managed servers with ADF runtime.

23. Add the following security policy to the \$ORACLE_HOME/wlserver/server/lib/weblogic.policy file:

```
grant codeBase "file:<DOMAIN_HOME>/-" {
  permission java.security.AllPermission;
  permission oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore", "read,write,update,delete";
  permission oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore.*", "read,write,update,delete";
};
```

24. Start the Weblogic Admin and Manage Server.

Deploying USM Web Application

This chapter describes the steps you should take to deploy the Universal Service Mapper web application.

Preparing the Database for Universal Service Mapper

Before you begin installing Universal Service Mapper web application, make sure you have the database schema created for Universal Service Mapper.

Preparing the WebLogic Domain for Universal Service Mapper

1. Follow the instructions in "[Understanding the Installation Prerequisites](#)" to install WebLogic 12.2.1.3 and create a domain.
2. Start the Admin and Managed servers.

Deploying USM Web Application on the WebLogic Servers

To deploy the USM Web Application .ear file, do the following:

1. Download `UniversalServiceMapper19.0.0ForAll19.x.xApps_eng_ga.zip`.
2. Unzip the downloaded archive. The `usm_home` directory will be created under the current directory:

```
unzip UniversalServiceMapper19.0.0ForAll19.x.xApps_eng_ga.zip
```

This command extracts the archive. The relevant directories for the installation are shown below (There are more directories than what is shown):

```
usm-home
├── bin
│   └── usm-deployer.sh
├── conf
│   ├── usm-deployment-env-info.json
│   └── security
├── setup-data
│   ├── service-mappers
│   └── polling-drivers
```

3. Open the `usm-deployment-env-info.json` file for editing:

```
cd usm-home/conf/
```

```
vi usm-deployment-env-info.json
```

4. Modify the `DataSourceDef` and `MiddlewareServerDef` with information that is specific to your environment.

By default, the JSON files should have placeholders for the `USMDataSource`. This connection is mandatory and needs to be available during deployment.

The following table summarizes the values that needs to be changed specific to environment:

<code>USMDataSource -> jdbcUrl</code>	Database details of the server where USM default data source schema is hosted.
<code>USMAppServer -> weblogicDomainName</code>	Name of the domain where the USM application is going to be deployed.
<code>USMAppServer -> weblogicDomainHome</code>	Absolute path to the domain. (starts from the root directory)
<code>USMAppServer -> weblogicDomainAdminServerUrl</code>	Admin server URL link of the domain.
<code>USMAppServer -> weblogicDomainAdminServerProtocol</code>	Web Protocol to be used in the domain. (Can be t3, unsecure or t3s, secure)
<code>USMAppServer -> weblogicDomainAdminServerHost</code>	Admin server host name. (domain.example.name.com)
<code>USMAppServer -> weblogicDomainAdminServerPort</code>	Admin server host port number
<code>USMAppServer -> weblogicDomainTargetManagedServerName</code>	Name of the managed server where USM will be deployed.
<code>USMAppServer -> USMAdminUiUrl</code>	Complete URL link that would be used to access the USM application. (http://<host_name>:<managed_sever_port>/)
<code>RibLgfAdminAppServer -> appAdminUiUrl</code>	Complete URL link to the deployed RIB-LGF application (http://<host_name>:<managed_sever_port>/)
<code>loadUsmData</code>	Flag to determine whether a new copy of the <code>usm-data</code> folder needs to be created when redeploying. [Note: This flag to be set to true when new template changes or USM engine changes are to be brought into effect during a redeployment.]

Note: The alias names in the configuration files should not be changed.

The following is an example configuration:

```
"DataSourceDef": {
  "UsmDataSource": {
    "dataSourceName": "UsmDataSource",
    "dataSourceClass": "oracle.jdbc.pool.OracleDataSource",
    "dataSourceJndiName": "jdbc/UsmDataSource",
    "jdbcUrl": "jdbc:oracle:thin:@//dbhost.example.com:1521/pdborcl",
    "jdbcUserAlias": "UsmDataSourceUserAlias",
    "jdbcUser": "GET_FROM_WALLET",
```



```

        "jdbcPassword": "GET_FROM_WALLET",
    }
}
"MiddlewareServerDef": {
"UsmAppServer": {
    "weblogicDomainName": "usm_domain",
    "weblogicDomainHome":
"/u00/webadmin/oracle/middleware_1221/user_projects/domains/usm_domain",
    "weblogicDomainAdminServerUrl": "t3://localhost:7001",
    "weblogicDomainAdminServerProtocol": "t3",
    "weblogicDomainAdminServerHost": "localhost",
    "weblogicDomainAdminServerPort": "7001",
    "weblogicDomainAdminServerUserAlias":
"usmServerAdminServerUserAlias",
    "weblogicDomainTargetManagedServerName": "AdminServer",

    "usmAdminUiUrl": "http://localhost:7001/usm/",
    "usmAdminUiUserGroup": "UsmAdminGroup",
    "usmAdminUiUserAlias": "usmAdminUiUserAlias",
    "usmAdminUiUser": "GET_FROM_WALLET",
    "usmAdminUiPassword": "GET_FROM_WALLET",

    "usmOperatorUiUserGroup": "UsmOperatorGroup",
    "usmOperatorUiUserAlias": "usmOperatorUiUserAlias",
    "usmOperatorUiUser": "GET_FROM_WALLET",
    "usmOperatorUiPassword": "GET_FROM_WALLET",

    "usmMonitorUiUserGroup": "UsmMonitorGroup",
    "usmMonitorUiUserAlias": "usmMonitorUiUserAlias",
    "usmMonitorUiUser": "GET_FROM_WALLET",
    "usmMonitorUiPassword": "GET_FROM_WALLET",
    }
}, "RibLgfAdminAppServer": {
    "appAdminUiUrl":
"http://rtg:8022/rib-lgf-services-web/resources/publisher/publish",
    "appAdminUiUserAlias": "ribLgfAdminUrlUserAlias",
    "appAdminUiUser": "GET_FROM_WALLET",
    "appAdminUiPassword": "GET_FROM_WALLET",
    }
},
"USMApplication": {
    "appName": "universal-service-mapper",
    "loadUsmData": "false",
    "USMAppUses": [
        "UsmDataSource",
        "UsmAppServer",
        {
            "RemoteAppServers": [
                "RibLgfAdminAppServer"
            ]
        }
    ]
}
}
}

```

Note: Do not delete anything from the USMAppServer section of the JSON file.

5. Run the deployer script to create the datasource and deploy USM Web Application.

```
$cd usm-home/bin/  
$sh usm-deployer.sh -setup-credentials -deploy-usm-app
```

6. Enter the parameter value that is prompted by the script.
7. Bounce the WebLogic Server hosting the USM Web Application.
8. Restrict Access to the USM home folder:

```
$cd ..  
$chmod -R 700 usm-home
```

Redeploy the USM Web Application

If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the `-use-existing-credentials` option as follows, and you will not be prompted for the credentials again for the deployment.

```
sh usm-deployer.sh -use-existing-credentials -deploy-usm-app
```

Test the Deployment

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

```
http://<host-server>:<managed-server-port>/usm/
```

Mandatory Post Deployment Setup

After deployment, perform the following procedures.

Give Project Access to Users

There are a few changes that have to be made in the USM UI once the application is deployed to access the Projects and templates available.

To do that, follow the ["Provide User Access to a Project"](#) procedure in ["USM User Interface"](#) to give access to a specific user alias named `usmAdminUiUserAlias`.

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"}
```

Revert Older Configurations

Steps:

- Navigate to the usm_data folder, where the older files are backed up in a folder with the latest Date and Time stamp.

Example folder: /usm_data/backups/usm_data_31-05-19/service_mappers

- Update required fields in the following files present in the folder /usm_data/service_mappers by referring to the files present in the folder example folder.
 - external_env_info.json
 - external_env_info.LogFireIntegration.json
- Replace the following files present in the folder /usm_data/service_mappers/dvm by referring to the files present in the folder example folder.
 - CompanyCode_dvm.LogFireIntegration.json
 - FacilityCode_dvm.LogFireIntegration.json

