Oracle® Retail Integration Cloud Service

Universal Service Mapper User Guide Release 19.0.000 **F25773-01**

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Primary Author:

Contributing Author:

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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.

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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

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

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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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

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

Conventions

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.

The following text conventions are used in this document:

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 19.0.000 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 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.

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 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.

ORACLE Universal Service Mapper			Welcome, usmadmin Wed Mar 13 03:05 PDT 2019
Select Project LogFireIntegration ~			
Home Mapping Designer Test Drivers Monitoring Admin	Import/Export Configuratio	ns System Logs	
Projects Access			
Manage Projects			
	Create O Manage O Rename		~
Project Name:			
Module1 Name:			
Module2 Name:			
Module3 Name:			
Module4 Name:			
	Create		
			e.
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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.

ORACLE [®] Universal Service N	Napper Veicome, usmadmi Tue Jun 11 03:36 PDT 2019 👔				
Select Project: LogFireIntegration ~					
Home Mapping Designer Test Driver	s Monitoring Admin Import/Export Configurations System Logs				
Manage Projects Manage Access					
Manage Access					
	Create Manage				
Select Project	InjectorService 🗸				
Username Alias:	usmAdminUlUserAlias v or				
Username:					
Save					

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

ORACLE' Universal Service Mapper	Welcome, usmadmin Tue Jun 11 03:36 PDT 2019 👔			
Select Project LogFireIntegration ~				
Home Mapping Designer Test Drivers Monitoring Admin Import/E	xport Configurations System Logs			
Manage Projects Manage Access				
Manage Access				
OCrea	te 🖲 Manage			
Select Project	LogFireIntegration v			
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.



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

ORACLE [®] Universal Service Mapper		Welcome, usmadmin Wed Mar 13 03:21 PDT 2019
Select Project LogFireIntegration ~		
Home Mapping Designer Test Drivers Mon	nitoring Admin Import/Export Configurations System Logs	
Edit USM Configuration Manage DVM		
Manage DVM		
	● Edit ○ Create ○ Rename	
	CountryCode_dvm.LogFireIntegration ~	0 0
CountryName	TwoLetterCountryCode	Save/Edit
USA	US	0 U
India	N	0
		14 N

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.

RACLE Universa	al Service Mapper Wekome, us Wed Mar 13 02:48 PDT 201	madm 19 (
ct Project LogFireIntegration	3	
Mapping Designer	Test Drivers Monitoring Admin Import/Export Configurations System Logs	
it Service Mappers Add	J Service Mapper	
Mapper File Browser	Mapper File Editor	
LogFireToRibASNOut Select Mapper File:	LogFireToRibASNOut_ServiceMappingOrchestration.smo	8
LogFireToRibASNOut_Htt LogFireToRibASNOut_S LogFireToRibASNOut_Htt LogFireToRibASNOut_Htt LogFireToRibASNOut_Se	class LogFireToRbASNOutMapperService extends com oracle retail usm engine AbstanServiceMapper[def externalServiceResponse	^
	def invokeExternaRestService(){ Strine unt = constrained AustriautionScanic aEndocriet	l
	log debug "tuf="expensioningprogrammanises weetshapona" log debug "tuf="expensionse="exercipessRequest(unl, headers, externalServiceCallRequestData) log debug "externalServiceResponse="+ externalServiceResponse	l
	1	
	def prepareRestToRestRequestPipelineMappingModel(def currentOperation)(
	def model = IncomingRequestData incomingRequestDataObject_currentOpName_currentOperation_family_"ASNOut"_messaneType	

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

ORACLE Universal Service Mapper	Welcome, usmadmin Wed Mar 13 03:14 PDT 2019 (j)
Select Project [LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mapper	
Add new Service mapper	
	Prev Next
Select Mapper Module: LogFireToRb	2
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.

ORACLE' Universal Service Ma	pper	Welcome, usmadmin Wed Mar 13 02:55 PDT 2019 ()
Select Project: LogFireIntegration ~		
Home Mapping Designer Test Drivers	Monitoring Admin Import/Export Configurations Syste	em Logs
Execute Drivers Manage Drivers		
Execute Drivers		
		\$
Select Driver:	LogFireToRiblnvHistor	y ~
Adapter Status:	\$	
Action	010	
File Import/Export	Browse No file selected.	Save Export
Log	Click here to view log	file.
Driver File Editor		
Select File: LogFireToRibInvHistoryDataDriver_Re	questDataMapping.template ~	2

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, usmadmin Wed Mar 13 03:01 PDT 2019 🚯
Select Project: LogFireIntegration ~	
Home Mapping Designer Test Drivers Monitoring Admin Import/Expo	rt Configurations System Logs
Execute Drivers Manage Drivers	
Manage Drivers	
● Creat	s ⊖ Update
Select Driver Module:	LogFireToRib 🗸
Driver Family:	
	dd
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Import/Export Tab

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

ORACLE [®] Universal Service Mapper	Welcome, usmadmin Tue Jun 11 03:42 PDT 2019 👔		
Select Project: LogFireIntegration V			
Home Mapping Designer Test Drivers Monitori	Admin Import/Export Configurations System Logs		
Export Project			
Select Project:	LogFireIntegration V		
	Export		
Import Project			
Select Project:	LogFireIntegration V		
Project File:	Browse No file selected.		
Import Option:			
	Import		
Convrinti @ 2019 Oracle and/or its affiliates ≜ll rintite reserved			

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.

ORACLE	ORACLE Universal Service Mapper				Welco Tue Jun 11 03:47	ome, usma PDT 2019	dmin i)
Select Project:	pgFireIntegration ~						
Home Ma	oping Designer 🔰 Test D	rivers Monitoring Admin	Import/Export Configurations	System Logs			
System Summa	ry						
Avail	able Mappings 19	Service Activity Count 247	System Health	Successful Activity 123	Failed Ac	tivity]
USM Metrics fo	r today						
				Search activities b	y service mapper name		×
Activity Id	Start Time	End Time	Mapper Serv	ice Name	Source Operation	Status	
323	Jun 11 03:47 PDT 2019	Jun 11 03:47 PDT 2019	RibToLogFirePartner_ServiceN	lappingOrchestration.smo	PartnerCre	0	
322	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireOrder_ServiceM	appingOrchestration.smo	POCre	0	
321	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireItem_ServiceMa	ppingOrchestration.smo	ItemCre	0	

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.



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.

C	ORACLE	Universal Service N	lapper		Welco Tue Jun 11 03:53 P	me, usmadmin DT 2019 👔
Se	elect Project: Lo	gFireIntegration •				
	Home Map	pping Designer Test Drivers	Monitoring Admin	Import/Export Configurations System Logs		
	USM Metrics					
ſ	Search C	Criteria: Service Mapper Name	1	Select Date from 06/10/2018 03:53 AM to 06/1	1/2019 03:53 AM	
				Showing 1 to 10 of 247 records	s 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	${\it RibToLogFirePartner}_ServiceMappingOrchestration.smo$	PartnerCre	0
	322	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireOrder_ServiceMappingOrchestration.smo	POCre	0
	321	Jun 11 03:46 PDT 2019	Jun 11 03:46 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	0
	304	May 30 00:56 PDT 2019	May 30 00:56 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	8
	303	May 30 00:24 PDT 2019	May 30 00:24 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	8
	302	May 30 00:17 PDT 2019	May 30 00:17 PDT 2019	RibToLogFireItem_ServiceMappingOrchestration.smo	ItemCre	8

System Logs Tab

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

and mapping congress restorers monitoring round	importexport Configurations	ystem Logs
ocess Log Files		
	Select Log Location: Default ~	
File Name	Size (in KB)	Last Modified
usm-default.log	32.29	Wed Mar 13 03:24:57 PDT 2019
.ogFireToRibinvHistoryDataDriver-system.log	29.72	Tue Mar 12 20:41:09 PDT 2019
.ogFireToRiblinvAdjust-system.log	31.41	Tue Mar 12 18:43:26 PDT 2019
ogFireToRibSOStatusDataDriver-system.log	2.41	Sun Feb 03 23:06:21 PST 2019
ogFireToRibSOStatus-system.log	182.99	Sun Feb 03 23:02:57 PST 2019
njectorServiceWsdi-system.log	97.06	Fri Jan 11 02:27:48 PST 2019
RbToLogFireitem-system.log	48.18	Fri Jan 11 01:20:48 PST 2019

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.

DRACLE Universal Service Mapper Wetcome usedation Wetcome usedation Wetcome usedation Wetcome usedation and aun 19 oct 2012 ()				
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*:		SampleModuleA		
Module2 Name:		SampleModuleB		
Module3 Name:				
Module4 Name:				
Create				

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 0208 EDT 2019 (i)		
Select Project LogFireIntegration •				
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Config	irations System Logs			
Manage Projects Manage Access				
Manage Projects				
© Create # Manage © Rename *				
Project Name":		LogFireProj •		
Module1 Name":		InjectorService S LooPireIntegration		
Module2 Name:		S LogFireProj		
Module3 Name:				
Nodule name				
Upwalie Deepe				

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

DRACLE' Universal Service Mapper Welcome, usmadmin				
Wed Jun 19 03:08 EDT 2019 👔				
Select Project: LogFireIntegration •				
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Config	urations System Logs			
Hannes Dreisede				
manage Projects manage Access				
Manage Projects				
	Create * Manage © Rename			
Project Name**	Lastin Dation			
	Lograterioj			
Module1 Name*:	SamoleModuleAA			
Haddel & Manua				
Module2 Name:	SampleModuleB			
Module3 Name:	SampleModuleC			
Module4 Name:				
	Update Delete			
× 1				

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.

ORACLE Universal Service Mapper		Welcome, usn Wed Jun 19 03:08 EDT 2019	
Select Project LogFireIntegration *			
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configu	rations System Logs		
Manage Projects Manage Access			
Manage Projects			
Ocreate ™ Manage © Rename			
Project Name':		LogPireProj	
Module1 Name*:		InjectorService	
Module2 Name:		LogFireIntegration	
Module3 Name:			
Module4 Name:			
Update Delete			

- 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, usmadmin Wert Jun 19 05:14 EDT 2019 (0)			
Select Project: LogFireIntegration •	OK				
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configu	irations System Logs				
Manage Projects Manage Access					
Manage Projects					
	Create * Manage CRename				
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.

CRACLE Universal Service Mapper Wexture Instantian Wexture Instantian Service Mapper Wexture Instantian Service Mapper Wexture Instantian Service Mapper Ser					
Het Project: CopPrentegation •					
Home Mapping Designer Test Drivers Monitoring Admin Importilization System Logs					
Manage Projects Manage Access	Manage Projects Manage Access				
Manage Projects					
© Create * Manage © Rename					
Project Name':		LogFireProj			
Module1 Name*:		InjectorService			
Module2 Name:		S Loof reproj			
Module3 Name:					
Module4 Name:					
Update Delete					

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

ORACLE Universal Service Mapper	Wekcome, usmadmin Wed Jun 19 03:14 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 •
New Project Name':	LogFireProject
Module1 Name":	SampleModuleAA
Module2 Name:	SampleModuleB
Module3 Name: SampleModuleC	
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 Access sub-tab.
- **2.** Select the **Project Name** from the drop down list box for which access has to be given.

ORACLE Universal Service Mapper		Vielcome, usmadi Wed Jun 19 03:08 EDT 2019 (ij
Select Project LogFireIntegration •		
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configu	rations System Logs	
Manage Projects Manage Access		
Manage Projects		
	◎ Create ® Manage ◎ Rename	
Project Name*:		LogFireProj
Module1 Name':		InjectorService
Module2 Name:		S LogFireProj
Module3 Name:		
Module4 Name:		
	Update Delete	

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

ORACLE [®] Universal Serv	ice Mapper	Welcome, usmadmin Wed Jun 19 03:17 EDT 2019 ()
Select Project: LogFireIntegration •		
Home Mapping Designer Test C	rivers Monitoring Admin Import/Export Configurations System Logs	
Manage Projects Manage Access		
Manage Access		
	® Create () Manage	*
Select Project*:	LogFireProj	
Username Alias*:	usmadmin v or	
Username*:	usmadmin	
	Save	
		v

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		
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	
	sampleModuleB	
	SampleModuleC	

- 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.

ORACLE: Universal Service Mappe	1	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()		
Select Project: LogFireProj				
Home Mapping Designer Test Drivers Mor	Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs Edit Service Mappens			
Mapper File Browser	Mapper File Editor			
Sampletidouts/AUSampi • • Copyrening Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidouts/AUSampletidouts/California Sampletidout	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataNapping.template 🕢	0.0		

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

ORACLE: Universal Service Mapp	ver	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project LogFireProj Home Mapping Designer Test Drivers M	ontioning Admin ImportExport Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
Engraditudududududange • Det Elitaria filmange filma Serie filmange filmange filmange filmange Serie filmange filmange filmange Serie filmange filmange filmange Serie filmange filmange Serie filmange filmange Serie filmange filmange Serie film	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template Comment: Write your file: SampleModuleAKSampleServiceMapper_messagetyped_MequestDataMapping.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: Universal Service Mappe	er	Welcome, usmadmin Wed Jun 19 03:24 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	
SampleModuleAASample Select Mapper File SampleModuleAASampleServiceMapper_messe	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	
Sampeli-Adda Addampelian on Laborg, "Bendo Sampeli-Adda Addampelian on Laborg," Instaa Sampeli-Adda Addampelian on Laborg, "Instaa Sampeli-Adda Addampelian on Laborg, "Instaa Sampeli-Adda Addampelian on Laborg, "Instaa Sampeli-AddamAddampelian on Laborg, "Instaa Sampeli-Addampelian on Laborg, "Instaa Sampelian on Laborg, "I	New Content that has been added once edit option is clicked	

 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.

ORACLE: Universal Service Mapper		Welcome, usmadmin
		Wed Jun 19 03:22 EDT 2019 (1)
Select Project: LogFireProj		
Home Mapping Designer Test Drivers	Monitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
Samriateritie&&Samria +	SamnieModule&&SamnieServiceManner messagetyne& RequestDataManning template	2 m
LogEireProi	emplomoralise complete monapped provided how to deconcaramely all complete how to be a set of the s	
SampleModuleAASampleServiceMapper	#Comment: Write your file: SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template content here	
SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_messa SampleModuleAASampleServiceMapper_Service		
SampleModuleAASampleServiceMapper_messa		
SampleModuleAASampleServiceMapper_mesa SampleModuleAASampleServiceMapper_mesa SampleModuleAASampleServiceMapper_mesa SampleModuleAASampleServiceMapper_mesa SampleModuleAASampleServiceMapper_mesa		

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

ORACLE: Universal Service Mapp	er	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Mc	onitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASampk Select Mapper File	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	20
	#Komment: Write your file: SamplahoudiabASamplaterricoHupper_messagetypak_BequentDeraHupping.template content here	

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.

ORACLE' Universal Service Mapp	ver	Welcome, usmadmin Wed Jun 19 03:27 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers M Edit Service Mappers Add Service Mappers	entioring Admin importiExport Coefigurations System Logs	
Mapper File Browser	Mapper File Editor	
SampelAodueAASampis • Beace Mapper File SampelAodueAASampelAnnotAsamper _messa • SampelAodueAASampelAnnotAsamper _messa SampelAodueAASampelAnnotAsamper _messa SampelAodueAASampelAnnotAsamper _messa SampelAodueAASampelAnnotAsamper _messa	SampleModuleAASampleServiceMapper_meskagetypeA_Requ 🗶 😭 KComment: Mrite your file: SampleModuleAASampleServiceMapper_messagetypeA_KequestDataMapping.template content here New Content that has been added once edit option is clicked	2

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.

C	DRACLE: Universal Service Mappe	a.	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Se	lect Project: LogFireProj		
	Home Mapping Designer Test Drivers Mo	intoring Admin I Import/Export Configurations System Logs	
Ĺ			
	Mapper File Browser	Mapper File Editor	
	SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	1
	Logrennig Processing Constraints (Constraints) (Constraint	WComment: Write your file: SampleboulabASampleServiceWapper_messagetypeA_PequestUntaWapping.templete content here	

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

ORACLE: Universal Service Mapp	ner (Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project LogFireProj		
Home Mapping Designer Test Drivers M	onitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers]
Mapper File Browser	Mapper File Editor	
SampleModuleAASample Select Mapper File	SampleMcduleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	0
The production Advance of the constrainty of the co	MComment: Write your file: SapidebolabASapider-iceNapper_messagetypad_RequestButaNapping.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.

9 EDT 2019 🕕

5. Enter the Driver Family name.

ORACLE: Universal Service Mapper	
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 Module*:	SampleModuleAA •
Driver Family':	[SampleDriverFamily]
	Add

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.

ORACLE' Universal Service Mapper	Wetcome, usmadmin Wed Jun 19 03:30 EDT 2019 👔
Select Project: LogFireProj	
Home Mapping Designer Test Drivers Monitoring A	dmin Import/Export Configurations System Logs
Execute Drivers Manage Drivers	
Execute Drivers	
	2
Select Driver:	SampleModuleAASampleDriverFamily *
Adapter Status:	SampleModuleAASampleDriverFamily
Action:	
File Import/Export:	Choose File No file chosen Save Export
Log:	Click here to view log file.

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.

ORACLE [®] Universal Service Mapper		Welcome, usmadmin Wed Jun 19 03:32 EDT 2019 ()			
Select Project LogFireProj					
Home Mapping Designer Test Drivers Monitoring A	dmin Import/Export Configurations System Logs				
Execute Drivers Manage Drivers					
Execute Drivers					
		2			
Select Driver:	SampleModuleAASampleDriverFamily •				
Adapter Status:	•				
Action:	0 1 0				
File Import/Export:	Choose File No file chosen Save Export				
Log:	Click here to view log file.				
Driver File Editor					
Select File: SampleModuleAASampleDriverFamilyDataDriver_RequestC	visitatilapping tem •				
#Comment: Write your template content here for driver:	#Comment: Write your template content here for driver: SampleMcouldASampleDriveFamily				
New Driver Data that has been added once the data driver	r 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.

ORACLE Universal Service Mapper		Welcome, usmadmin Wed Jun 19 03:34 EDT 2019 👔	
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":	Sam	pleModuleAASampleDriverFamily *	
New Driver Name*:	Sam	pleModuleAASampleDriverFamily	
	Rename Delete		

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

ORACLE: Universal Service Mapper	Welcome, usmadmir Wed Jun 19 03:34 EDT 2019 👔		
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.

ORACLE' Universal Service Mapper	Welcome, usmadmin Wed Jun 19 03:00 EDT 2019 🕧
Select Project LogFireProj	
Home Mapping Designer Test Drivers Monitoring A	dmin Import/Export Configurations System Logs
Execute Drivers Manage Drivers	
Execute Drivers	
	2
Select Driver:	SampleModuleAASampleOriverFamily •
Adapter Status:	SampleModuleAASampleOniverFamily
Action:	
File Import/Export:	Choose File No file chosen Save Export
Log:	Click here to view log file.

4. Click the **Delete** button.

ORACLE Universal Service Mapper	Welcome, usmadmir Wed Jun 19 03:34 EDT 2019 👔			
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*:	Sample/ModuleAASampleDriverFamily •			
New Driver Name*:				
	Rename Dekte			

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 ()
Select Project' LogFireProj	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM	
Edic USM Configuration	
Select File: enternal_env_into •	×
<pre>{ "starmaifoulnd": { " starmaifoulnd": {</pre>	

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.

ORACLE' Universal Service Mappe	er		Welcome, usmadmi
Select Project: LogFireProj			
Home Mapping Designer Test Drivers Mor	litoring Admin Import/Export Configurations Syste	em Logs	
Edit USM Configuration Manage DVM Manage I	Dynamic DVM		
Manage DVM			
		© Edit ® Create © Rename	
DVM Name*:		NewSampleDVM LogFirePro/	
Key1":		KeyA	
Key2:		KeyB	×
	Create	e	▲

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.

		Welcome, usmadmin Wed Jun 19 03:45 EDT 2019 ()		
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 © Rename				
NewSampleOVML.cgFreProj •				
KeyA	КеуВ	Save/Edit		
Key	Value			
		🖬 × 🚽		
		× .		

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, usmadmin ed Jun 19 03:44 EDT 2019 (j)
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		0 0
КеуА	KeyB	Save/Edit	î
			×.

- 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.

RACLE Universal Service Mapper	Are you sure you want to delete DVM?	Welcome, usmadm Wed Jun 18 04:50 EDT 2018
ect Project LogFireProj	OK Cancel	•
iome Mapping Designer Test Drivers Monitoring Admin Import/Expo	At Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM		
Manage DVM		
	Bate O Create O Renation (Nex-Stranged/OrALLogPartie) +	
Name	Value	Save/Edit
CompanyName	CO_ES	0

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.

ORACLE: Universal Service Mapper			Welcome, usmadmin Wed Jun 19 03:44 EDT 2019 ()
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	e	
	NewSampleDVM.LogFireProj NewSampleDVM.LogFireProj	•	o u
KeyA	KeyB	Save/Edit	<u> </u>
			×

- 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.

ORACLE Universal Service Mapper	Welcome, usmadmin Wed Jun 19 04:00 EDT 2019 🜘
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	
	0 Edit 0 Create [®] Rename
Select DVM*:	NewSampleOVALLogFireProj •
New DVM Name*:	NewDVI/MName.LogFireProj
	Rename

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.

Oracle Fusion Middleware 12c I	nfrastructure Installation - Step 2 of 8	×
Auto Updates		
Ψ <u>Welcome</u>		
Auto Updates	Skip Auto Updates	
Installation Location	Select patches from directory	
Installation Type	Location:	Browse
Prerequisite Checks	○ Search My Oracle Support for Updates	
Installation Summary	Username:	
Installation Progress	Password:	
Installation Complete	P <u>r</u> oxy Settings	Test Connection
	gearch	
Help	16	<back next=""> Einish Cancel</back>

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

stallation Location			
Welcome	<u>O</u> racle Home:		
Auto Updates	C:\Oracle\Middleware\Oracle_Home		Browse
Installation Location	Feature Sets Installed At Selected Oracle Home: View		
Installation Type			
Prerequisite Checks			
Installation Summary			
Installation Progress			
Installation Complete			
	The Oracle Home C10racleWilddleware\0racle_Home will be u	used for all Oracle Feature Setu	a in this installation.

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.

erequisite Checks		FUSION	MIDDLEWARE		
<u>Welcome</u> Auto Updates		100%			
Installation Location					
Installation Type	Checking operating	Checking operating system certification			
Prerequisite Checks	Checking Java versi	ion used to launch the installer			
Installation Summary					
nstallation Progress					
Installation Complete					
	Stop Berun Skip - Checking operating syste - Achecking Java version us	View Successful Tasks m certification ed to launch the installer	. View Log		

8. When the pre-requisite check completes successfully, click **Next**. The Security Updates window will display. Enter the information as required.



9. Click Next. The Installation Summary window displays.

stallation Summar	у		
Welcome	□ Install Oracle Fusion Middleware 12c Infrastructu	ıre	
Auto Updates	Installation Location		
	Oracle Home Location: C:\Oracle\Middleware\C	Dracle_Home	
Installation Location	Log File Location: C:\Users\ameske\AppData\Lo	ocal\Temp\Orainstall2019-09-25_10-	11-09AM\install201
Installation Type	-09-25_10-11-09AM.log		
Prerequisite Checks	 Disk Space 		
Installation Summany	Required: 2097 MB		
Installation Summary	Available: 133369 MB		
Installation Progress	Feature Sets to Install		
Installation Complete	Core Application Server 12.2.1.3.0		
	Coherence Product Files 12.2.1.3.0		
	Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0		
	WebLogic SCA 12.2.1.3.0		
	WebLogic Client Jars 12.2.1.3.0		
	Administration Console Additional Language He	elp Files 12.2.1.3.0	
	CIE WLS Config 12.2.1.3.0		
	Enterprise manager 12.2.1.3.0		
	Third party JDBC Drivers 12.2.1.3.0		
	WebLogic Evaluation Database 12.2.1.3.0		
	FMW Platform Generic 12.2.1.3.0		
	OPatch 13.9.2.0.0		
	Save Response File		
	Select Install to accept the above options and start the ins	tallation.	
	To change the above options before starting the installation Back button,	on, select the option to change in the	left pane or use th

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

Oracle Fusion Middleware 12c Infr	structure Installation - Step 7 of 8 -	• 🗆 X
Installation Progress		
Y Welcome		
Auto Updates	11%	
Installation Location	9 Prenare	
Installation Type	Conv	
Prerequisite Checks	Generating Libraries	
Installation Summary	Performing String Substitutions	
Installation Progress	Linking	
O Installation Complete	Setup	
	Saving the inventory	
	Post install scripts	
	View Messages	View <u>L</u> og
	Hardware and S Engineered to Wor	<mark>Software</mark> k Together
Help	< Back Next>	nish Cancel

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:

 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.

Repository Creation Utility - Step 3	of 8		-	- 🗆 X
Repository Creation Utili	ty			
Welcome	Database Type:	Oracle Database		•
Database Connection Details	Connection String Format:	Connection Parameters	O Connection String	
Schema Passwords	Connect String			
Map Tablespaces	Host Na <u>m</u> e:			
Summary	Port:			
Completion Summary	Service Name:			
	Username:			
	Password:			
	<u>R</u> ole:	SYSDBA		•
-	For RAC database, specify VII For SCAN enabled RAC database	P name or one of the Node name or one of the Node name	me as Host name. st name.	
		ser speer, sent host da hos		
Help			< Back Next >	inish Cancel

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.

	Welcome	e - Step 4 of 8		-
epository Creation U	Itility			3
Welcome	Specify a unique prefix for all s and manage the schemas later	chemas created in this s r.	ession, so you can easily loca	te, reference,
Database Connection Details	Select existing prefix BDI168			
Select Components	O Select expend brent.			
select components	<u>Create new prefix</u> INT			
Schema Passwords		Alpha numeric only. Ca	nnot start with a number. No	special
Map Tablespaces	[-			
Summary	Component	Company and the	Schema Owner	
	Common Scho	y components		
	Common Infrastructure Services		INT STR	
	Oracle Platform	n Security Services	INT OPSS	
	User Messagin	a Service	INT UMS	
	Audit Services		INT LAU	
	Audit Services	Append	INT IAU APPENI	
	Audit Services	Viewer	INT_IAU_VIEWER	
	Metadata Serv	rices	INT_MDS	
	Weblogic Servi	ces	INT_WLS	
				10-5

5. Click **Next**. Specify the password.

😸 🕘 Welcome - Step 5 of	8			
Repository Creation U	tility			
Welcome Create Repository Database Connection Details Select Components Schema Passwords	Define passwords for	or main and auxiliary schema users. rords for all schemas Alpha numeric only Cannot start with No special characters except: \$, # ,	h a number. - '	
Map Tablespaces Summary Completion Summary	<u>C</u> onfirm Passwo ○ Use <u>m</u> ain schem. ○ <u>Specify</u> different	rd: •••		
Help		< <u>B</u> a	ck <u>N</u> ext >	Einish Cancel

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

				FUSION MIC	ODLEWARE
	elcome reate Repository atabase Connection Details elect Components	Default and temporary tab To create new tablespace	lespaces for the sele s or modify existing t	ected components appear i ablespaces, use the Manag	n the table below. e Tablespaces Button Manage <u>T</u> ablespace
1 5	chema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
	A A A A A A A A A A A A A A A A A A A	Common Infrastructu	INT_STB	*INT_STB	*INT_IAS_TEMP
M	lap Tablespaces	Oracle Platform Secu	INT_OPSS	*INT_IAS_OPSS	*INT_IAS_TEMP
S	ummary	User Messaging Serv	INT_UMS	*INT_IAS_UMS	*INT_IAS_TEMP
		Audit Services	INT_IAU	*INT_IAU	*INT IAS TEMP
0	ompletion Summary	Audit Services Append	INT IAU APPEND	*INT IAU	*INT IAS TEMP
		Audit Services Viewer	INT_IAU_VIEWER	*INT_IAU	*INT IAS TEMP
		Metadata Services	INT MDS	*INT MDS	*INT IAS TEMP
		Weblogic Services	INT WLS	*INT WLS	*INT IAS TEMP

7. Click Next. The Confirmation window displays.



8. Click OK. The Summary window displays.

		Welcome - S	tep 7 of 8		-	
Re	pository Creation U	tility)
	Welcome Create Repository Patabase Connection Details Select Components Schema Passwords Map Tablespaces Summary	Database details: Host Name Port Service Name Connected As Operation Prefix for (prefixable) Schema Owne	1521 System and Data rs INT	s Load concurrently		
	Completion Summary	Component Common Infrastructure Services Oracle Platform Security Services	Schema Owner INT_STB INT_OPSS	Tablespace Type Default Temp Additional Default	Tablespace Name INT_STB INT_IAS_TEMP [None] INT_IAS_OPSS	
		User Messaging Service	INT_UMS	Temp Additional Default Temp Additional	INT_IAS_TEMP [None] INT_IAS_UMS INT_IAS_TEMP [None]	
		Audit Services	INT_IAU	Default Temp Additional	INT_IAU INT_IAS_TEMP [None]	
		Audit Services Append	INT_IAU_APPEND	Default Temp	INT_IAU INT_IAS_TEMP	
•		Save Besponse File				
	Help		<	Back Next >	<u>C</u> reate Can	cel

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

	w	elcome - St	ep 8 of 8		- ×
Repository Creation U	Itility				
Welcome Create Repository Database Connection Details Schema Passwords Map Tablespaces Summary Completion Summary	Database details: Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log Prefix for (prefixable) Schema Owners	1521 System and D 1 minute 43 /tmp/RCU201 /tmp/RCU201 rcu.log INT	ata Load concu seconds 1-04-06_02-19_2 1-04-06_02-19_2	rrently 255123436/logs/rcu.log 255123436/logs	
	Compor Common Infrastructur Oracle Platform Secur Judit Services Audit Services Append Audit Services Vlewer Metadata Services Weblogic Services	nent re Services ity Services ice	Status Success Success Success Success Success Success Success Success	Time 00.09.296(sec) 00.16.22(sec) 00.13.200(sec) 00.09.207(sec) 00.09.207(sec) 00.09.250(sec) 00.12.967(sec) 00.16.790(sec)	Logfile(Click to view) stb.log opss.log ucsums.log iau.log iau.append.log iau.viewer.log mds.log wis.log

Creating a WebLogic Domain with JRF

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

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

9 F	usion Middleware Configuration Wi	zard - Page 1 of 8	0
Configuration Type			
Reate Domain	1		
Templates			
Administrator Account			
Domain Mode and JDK			
Advanced Configuration			
Configuration Summary			
Configuration Progress	What do you want to do?		
End Of Configuration	⊙ <u>C</u> reate a new domain		
	◯ <u>U</u> pdate an existing domain		
	Domain Location:		Browse
	Create a new domain.		
Help		< jack Next > Britsh	Cancel

 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.

Templates	FUSIO		
		all previously ap	plied templates

- 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.

Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	weblogic 			
Must be the sar at least one nu	me as trie password. Password n mber or special character.	nust contain at lea	ist e alphanumer	no onaracters wi

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.

	Fusion Middleware Confi	iguration Wizard - F	Page 5 of 12	- ×
Domain Mode and JDK				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources DoBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Qevelopment Utilize boot propert Production Require the entry of JDK © Qracle MotSpot 1.8.0 Other JDK Location:	es for username and pa f a username and passw _121 /scratch/u00/weba	vsrword, and poll for applicat	ions to deploy. ications to deploy.
Help		<	Back Next > Bini	th Cancel

- 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.

	Fusion Middleware Configuration Wizard -	Page 6 of 12
Database Configuration	туре	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Summary	Specify AutoConfiguration Options Using: BCU Data Manual Configuration Enter the database connection details using the R schema credentials. The Wizard uses this connect required for components in this domain. Vendor: Oracle Driver: *C DBMS/Service: Host Name Schema Owner: Schema Pi Get RCU Configuration Cancel	epository Creation Utility service table (STB) tion to automatically configure the datasources Dracle's Driver (Thin) for Service connections; e: Port: 1521 assword: [*****
End Of Configuration	Connection Result Log	
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved da Successfully Done. Click "Next" button to continue.	ataOK
Help		< Back Next > Bnish Cancel

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

JDBC Component Schem	a				FUSION I	MIDDLEWARE	
<u>Create Domain</u> <u>Templates</u> <u>Application Location</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u> <u>Database Configuration Type</u> Component Datasources	Ve DB Sc Or	ndor: [Tor companent s	ost Name:	£i data sour	Port [convert
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration		Component Schema LocalSvcTbl Schema OWSM MDS Schema OPSS Audit Schema OPSS Audit Viewer Sc OPSS Schema	DBMS/Service	Host Name	Port 1521 1521 1521 1521 1521	Schema Ow INT_STB INT_MDS INT_IAU_APPE INT_IAU_VIEWI INT_OPSS	Schema Pass
	-						

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

DBC Component Schem	na Te	st					i		DLEWARE	()
Create Domain	1	Status	Component Schema				JDB	C Connectio	n URL	
Templates			LocalSvcTbl Scheme	-	-	-				1
Application Location		1	OWSM MDS Schema	-			-			
		1	OPSS Audit Schema		-		-			
Administrator Account			OPSS Audit Viewer :	-	-					9
Domain Mode and JDK		*	OPSS Schema		-		-			
Database Configuration Type										
Component Datasources	1									
IDBC Test										
Advanced Configuration				_						
Configuration Summary		Test Se	elected Connections		Cancel Te	sting				
Configuration Progress	Co	nnectio	n Result Log							
End Of Configuration	Com	ponent er=ora	Schema=LocalSvcTbl cle.jdbc.OracleDriver	Sch	ema					
	URL	-	TO							
	Pas	sword=								
	SQL	Test=	SELECT 1 FROM DUAL							
	CFG	FWK-64	213: Test Successful							
	CEG	PWK-64	213: IDBC connection t	test		eseful				
				_		-				

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

Create Domain Templates Administration Server Modify Settings Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Configure Node Manager Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Configuration Progress End Of Configuration	Advanced Configuration		
	Create Domain Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Coherence Clusters Coherenc	Administration Server Modify Settings Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters JMS File Store Modify Settings	

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

Administration Server					
Create Domain Create Domain Create Domain Create Domain Create Domain Create Domain Create C	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer localhost 37001 Unspecified	35, and different fro	IT SSL listen port and	coherence port

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

Node Manager				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration	Node Manager Type Per Domain Default L Per Domain Custom Node Manager Home Manual Node Manage Node Manager Creden Username: Password: Confirm Password: Must be the same as the at least one number or sp	ocation Location ir Setup tials weblogic 	ist contain at least & alph	Brow
And a lateral second se				10.00

- **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.

Managed Servers					DLEWARE	\bigcirc
Create Domain	💠 Add 🔹 🕲 G	jone X Delete			🧐 Disga	rd Changes
Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and IDK	server	All Local Addres •	37003		Disabled	JRF-MAN-SVF
Administration Server Node Manager Managed Servers						
Administration Server Node Manager Managed Servers Clusters Cobservers Cobser						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary	-					
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress						

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

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

Clusters					
Create Domain .	🛉 Add 💥	Delete		9	Dis <u>c</u> ard Changes
Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Configuration Clusters Machines Deployments Targeting Services Targeting Configuration Progress End Of Configuration	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTP: Port
Hala			Rack	Next >	ch Cancel

- 14. Click Next. The Coherence Clusters window displays.
 - 1. Add a coherence cluster. This is an optional step in the procedure.

Coherence Clusters		
Create Domain		🗐 Disgard Changes
Administrator Account	Cluster Name	Cluster Listen Port
Domain Mode and JDK	defaultCoherenceCluster	0
Database Configuration Type		
Component Datasources		
JDBC Test		
Advanced Configuration		
Administration Server		
Node Manager		
Managed Servers		
Clusters		
Coherence Clusters		
Pacinines Deployments Targeting		
Services Targeting		
Configuration Summary		
Configuration Progress		
End Of Configuration		
Help		< Back Next > Bnish Cance

- 15. Click Next. The Machines window displays.
 - 1. Click Add.
 - 2. Enter the Name and the Node Manager Listen Address for the managed server.

Fusion Middleware Control Machines	onfiguration Wizar	d - Page	14 of 20		FUSIC		(
Create Domain Templates Administrator Account	Machine Unix Mach	hine				ii) Di	sgard	Changes
Domain Mode and JDK Database Configuration Type	Name	Enable	Post Bind GID	Enable	Post Bind UID	Node Manage Listen Addres	r	Node Manager
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters								
Machines Assign Servers to Machines Declargements Togeting								
Configuration Progress End Of Configuration								
Help				< 8	ack N	ext > Enis		Cancel

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

		Fusion Middleware Configuration Wizard	d – Pa	age 14 of 22	- ×
,	Assign Servers to Machi	ines			
	Update Domain	Servers		Machines	
1	Templates			O UnixMachine	
T	Datasources			new_UnixMachine_1 AdminServer	
I	IDBC DS Test			dds_server	
Ť	JUDE US Test				
Ť	Database Configuration Typ				
Ť	Component Datasources				
Ŷ	JDBC Test		2		
*	Advanced Configuration				
ψ	Managed Servers				
ų	Clusters				
ų	Server Templates				
ų	Coherence Clusters		0		
ų,	Machines				
	Assign Servers to Machi				
	Virtual Targets				
U	Partitions				
J	Deployments Targeting				
I	Services Targeting	Select one or more servers in the left pane an	d one	machine in the right pane. The	en use the right
I	File Stores	arrow button (>) to assign the server or server	s to th	ie machine.	
I	Configuration Summany				
T	configuration Summary	il			
	Help		< §	Back Next > Finish	Cancel

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

Deployments Targeting	on Middleware Configuration Wizard	- Page 18 of 22
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JOBC Test Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Deployments Targeting Services Targeting Services Targeting Services Targeting Services Targeting Services Targeting	Deployments wam-pm Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary Ubrary aff. oracle domain.geory#1.0#12.2.1.3 aff. oracle domain.webapp.aphc.10#12.2.1.3 aff. oracle domain.webapp.aphche.httpc aff. oracle domain.webapp.aphche.veloc aff. oracle domain.veloc emec.pep.polo.jar emeatrosimel lar#12.4#121.04.0 emeatrosimel lar#12.4#121.04.0 e	Deployment Targets AdminServer AdminServer Appleptionment OMS Application#12.2.1.1.0 Concernet Concernet Targets OMS Application#12.2.1.1.0 Concernet Concernet
Help	•	< Back Next > Einish Cancel

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.

Configuration Summary		FUSIO	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Managed Servers Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress	View: Deployment Int. domain (Image: Server Image: Server Image: Server Image: Server	Name Description Author Location Name Description Author Location Name Description Author Location Name Description Author Location Name Description Author Location Name Description Author Location	Basic WebLogic Server Domain Create a basic WebLogic Server Oracle Corporation Oracle Enterprise Manager Enterprise Manager Oracle Corporation emas Template emas plugin Template Oracle Corporation Oracle Corporation Oracle WSM Policy Manager ext Oracle WSM Policy Manager ext Oracle Corporation Oracle Corporation Oracle Corporation Oracle Corporation Oracle Corporation

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

Configuration Progress	
Create Domain	
Y Templates	100%
Administrator Account	Preparing
Domain Mode and JDK	Extracting Domain Contents Creating Domain Security Information
Database Configuration Type	Starting OPSS Security Configuration Data Processing
Component Datasources	Saving the Domain Information
JDBC Test	Storing Domain Information String Substituting Domain Files
Advanced Configuration	Performing OS Specific Tasks Performing Post Domain Creation Tasks
Administration Server	Starting OPSS Security Configuration Commit Task
Node Manager	The OPSS Security Configuration Completed Domain Created Successfully
Managed Servers	
Clusters	
Coherence Clusters	
Machines	
Assign Servers to Machines	
Deployments Targeting	
Services Targeting	
Configuration Summary	
Configuration Progress	
End Of Configuration	
Help	< Back Next > Finish Cancel

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

😸 😑 Fusion Middleware Co	onfiguration Wizard - Page 21 of 21		
End Of Configuration	R		
H Create Domain			r
Templates	 Oracle Weblogic Server Configuration Succeeded New Domain int_domain Creation Succeeded 		T
Application Location	Domain Location		
Administrator Account	Admin Server URL		
Domain Mode and JDK	http://localhost.37001/console		
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
Clusters			
Coherence Clusters			
Machines			
Assign Servers to Machines			
Deployments Targeting			
Services Targeting			
Configuration Summary			
Configuration Progress			
End Of Configuration			
Help	< gatk	Next > Enish	Cencel

- **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.

7

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:

- Download UniversalServiceMapper19.0.000ForAll19.x.xApps_eng_ ga.zip.
- 2. Unzip the downloaded archive. The usm_home directory will be created under the current directory:

unzip UniversalServiceMapper19.0.000ForAll19.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 changed specific to environment:

USMDataSource -> jdbcUrl	Database details of the server where USM default data source schema is hosted.
USMAppServer -> weblogicDomainName	Name of the domain where the USM application is going to be deployed.
USMAppServer -> weblogicDomainHome	Absolute path to the domain. (starts from the root directory)
USMAppServer -> weblogicDomainAdminServerUrl	Admin server URL link of the domain.
USMAppServer -> weblogicDomainAdminServerProtocol	Web Protocol to be used in the domain. (Can be t3, unsecure or t3s, secure)
USMAppServer -> weblogicDomainAdminServerHost	Admin server host name. (domain.example.name.com)
USMAppServer -> weblogicDomainAdminServerPort	Admin server host port number
USMAppServer -> weblogicDomainTargetManagedServerName	Name of the managed server where USM will be deployed.
USMAppServer -> USMAdminUiUrl	Complete URL link that would be used to access the USM application. (http:// <host_name>:<managed_ sever_port>/)</managed_ </host_name>
RibLgfAdminAppServer -> appAdminUiUrl	Complete URL link to the deployed RIB-LGF application (http:// <host_ name>:<managed_sever_port>/)</managed_sever_port></host_
loadUsmData	Flag to determine whether a new copy of the usm-data 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":{
        "dataSourceClass":"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"
                 1
              }
       ]
   }
```

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