Oracle® Retail Integration Bus

Universal Service Mapper User Guide Release 16.0.3 **F29160-01**

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Oracle® Universal Service Mapper User Guide, Release 16.0.3

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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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- 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, 16.0) or a later patch release (for example, 16.0.3). 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.)

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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.

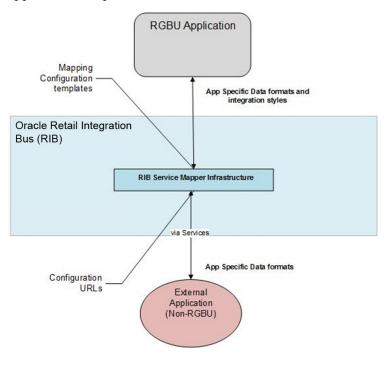
Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

The Universal Service Mapper (USM) is an application component of Retail Integration Bus (RIB) 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 Merchandising and an application external to Oracle Retail, such as Oracle Warehouse Management.

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.

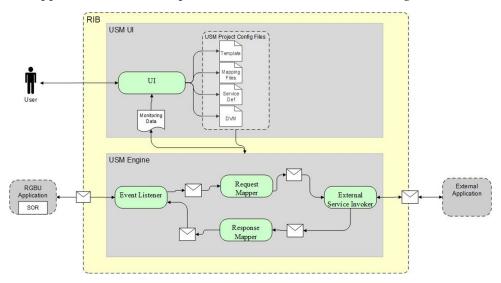
The functional requirement for the USM is to act as the place to transform the Oracle Retail application data style and the data format into the data format expected by the external application, and then to perform the transformations of the external application's response.



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 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

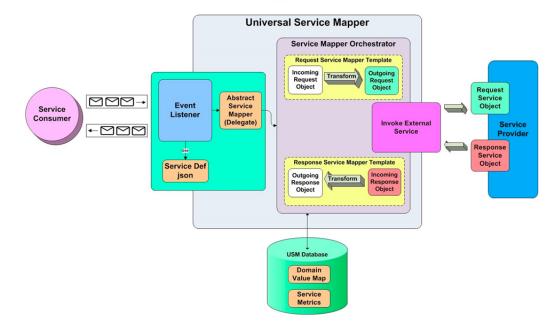
A Domain Value Map (DVM) is a table containing mappings between related information in participating applications. They enable you to equate lookup codes and other static values across applications. These DVM tables are used in transforming the messages from one system into the expected format of the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

e Mapping Designe	r Test Drivers Monitorin	a Admin Impor	t/Export Configuratio	ons System Logs		
	r lest privers Monitorin	a i somma i impor	expert Consignation	ans system Logs		
ects Access						
inage Projects						
			⊖ Manage ⊖ Rename			
	Project Name:	@ Create	O Manage O Rename		_	
	Project Name.					
	Module1 Name:					
	Module2 Name:					
	Module3 Name:				-	
	Module4 Name:					
			Create			
			Create			

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.

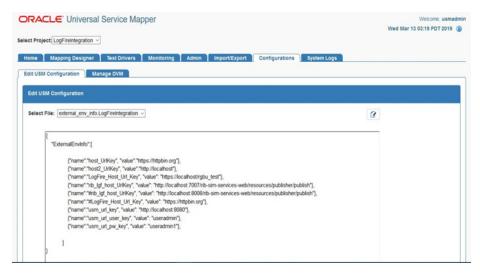
DRACLE' Universal Service Mapper Wekcome, usmadmi Tue Jun 11 03:36 PDT 2019 (1)					
Select Project LogFireIntegration 🛩					
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs					
Manage Projects Manage Access					
Manage Access					
● Create ⊖ Manage					
Select Project	InjectorService ~				
Username Alias:	usmAdminUlUserAlias v or				
Username:					
Save					
Penyidek ® 1940 Onde nedlezik v#Eideke III dekke zenand					

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

ORACLE' Universal Service Mapper Tue Jun 11 03					
Select Project LogFireIntegration v					
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs					
Manage Projects Manage Access					
Manage Access					
⊖ Create ® Manage					
Select Project	LogFireIntegration v				
Select Username Alias:	usmAdminUiUserAlias 🖌				
Delete 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.

ACLE Universal Service Mapper		Wed Mar 13 03:21 PDT 20
Project LogFireIntegration ~		
e Mapping Designer Test Drivers Mon	itoring Admin Import/Export Configurations System Logs	
USM Configuration Manage DVM		
anage DVM		
anage DVM		
anage DVM	❀Edit ○ Create ○ Rename	
nage DVM		
nnage DVM	€Edit ○ Create ○ Rename CountryCode_6vm LogFireIntegration ~	٥
	CountryCode_dvmLogFireIntegration ~	() Star Str
CountryName	CountryCode_dumLogFireIntegration ~ TwoLetterCountryCode	Save/Edit
	CountryCode_dvmLogFireIntegration ~	

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	Il Service Mapper Wekome, usma Wekome, usma Wekome, usma Wekome, usma
ct Project LogFireIntegration	3
Mapping Designer	Test Drivers Monitoring Admin Import/Export Configurations System Logs
it Service Mappers Ad	Service Mapper
Mapper File Browser	Mapper File Editor
LogFireToRibASNOut	LogFireToRibASNOut_ServiceMappingOrchestration.smo
LogFireToRibASNOut_Htt LogFireToRibASNOut_S LogFireToRibASNOut_Htt LogFireToRibASNOut_Htt LogFireToRibASNOut_Se	class LogFireToRbASNOutMapperService extends com oracle retail usm engine AbstartServiceMapper[^
	def invokeExternaRestService()(String unt = operationMarpoing destinationServiceEndpoint
	log debug "uti-" euf log debug "uti-" euf externalServiceResponse = sendPostRequest(url, headers, externalServiceCallRequestData) log debug "externalServiceResponse-" + externalServiceResponse
	3
	def prepareRestToRestRequestPipelineMappingModel(def currentOperation)(
	del model = lincominoRequestData: incominoRequestDataObject: currentOnName: currentOneration family "ASNO.#" 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 v	
Home Mapping Designer Test Drivers Monitoring Admin ImportExport Configurations System Logs	
Edit Service Mappers Add Service Mapper	
Add new Service mapper	
	Prev Next
Select Mapper Module: LogFireToRb	~
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	m Logs
Execute Drivers Manage Drivers		
Execute Drivers		
		2
Select Driver:	LogFireToRiblnvHistory	
Adapter Status:	Ŷ	
Action	0 0	
File Import/Export	Browse No file selected.	Save Export
Log	Click here to view log	file.
Driver File Editor		
Select File: LogFireToRibInvHistoryDataDriver_Re	equestDataMapping.template ~	8

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	t Configurations System Logs
Execute Drivers Manage Drivers	
Manage Drivers	
Create	○ Update
Select Driver Module:	LogFireToRib 🗸
Driver Family:	
A	d
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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 ~	
Home Mapping Designer Test Drivers Monito	ing Admin Import/Export Configurations System Logs
Export Project	
Select Project:	LogFireIntegration 🗸
	Export
Import Project	
Select Project:	LogFireIntegration V
Project File:	Browse No file selected.
Import Option:	
	Import
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Home

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

	Universal Service	маррег			Wek Tue Jun 11 03:47	
ct Project: Lo	pgFireIntegration ~					
ome Mag	oping Designer 📘 Test Drive	ers Monitoring Admin	Import/Export Configurations	System Logs		
stem Summa	ny					
Availa	able Mappings	Service Activity Count	System Health	Successful Activity	Failed Ad	
	19	247		123	124	
	19	247		123	124	,
SM Metrics fo		247		123		,
SM Metrics fo		247			is by service mapper nam	
SM Metrics fo Activity Id		247 End Time	Mapper Servi	Search activitie		
	r today			Search activitie	is by service mapper nam	e
Activity Id	r today Start Time	End Time	Mapper Servi	Search activitie ce Name appingOrchestration.smo	is by service mapper nam	e Q Status

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.

RACLE	Universal Service	<i>l</i> apper		Wek Tue Jun 11 03:53	come, usmad PDT 2019
ct Project: Log	FireIntegration •				
ome Map	ping Designer Test Drivers	Monitoring Admin I	Import/Export Configurations System Logs		
SM Metrics					
Search Cr	riteria: Service Mapper Name A	11	Select Date from 06/10/2018 03:53 AM to 06/	11/2019 03:53 AM	
			Showing 1 to 10 of 247 record	s first prev next las	st Page 1 /
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	${\it Rib To Log Fire Partner_Service Mapping Orchestration.smo}$	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	0
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.

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	
.ogFireToRibinvAdjust-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	
RibToLogFireitem-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.

ORACLE Universal Service Mapper		Welcome, usn Wed Jun 19 03:07 EDT 2019
Select Project: LogFireInlegration •		
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Confi	urations System Logs	
Manage Projects Manage Access		
Manage Projects		
	* Create \odot Manage \odot 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.

DRACLE: Universal Service Mapper			Welcome, usmadmi Wed Jun 19 03:08 EDT 2019 ()
ect Project: LogFireIntegration •			
Home Mapping Designer Test Drivers Monitoring Admin Import/Ex	port Configurations System Logs		
Manage Projects Manage Access			
Manage Projects			
	◎ Create ® Manage ◎ Rename		î
Project Name*:		LogFireProj	
Module1 Name*:		InjectorService S LogFireIntegration	
Module2 Name:		S LogFireProj	
Module3 Name:			
Module4 Name:			
	Update Delete		

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

DRACLE Universal Service Mapper			Welcome, usmadm Wed Jun 19 03:08 EDT 2019 ()
ct Project: LogFireIntegration •			
Nome Mapping Designer Test Drivers Monitoring Admin Import/Export	Configurations System Logs		
anage Projects Manage Access			
Manage Projects			
	◎ Create ® Manage ◎ Rename		•
Project Name*:		LogFireProj	
Module1 Name*:		SampleModuleAA	
Module2 Name:		SampleModuleB	
Module3 Name:		SampleModule C	
Module4 Name:			
	Update Delete		

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, usmai 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':		InjectorService S LogFineIntegration
Module2 Name:		S LogFireProj
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, usmadmi Wed Jun 19 03:14 EDT 2019 (1)
elect Project LogFireIntegration •	OK	Wed Jun 19 03:14 EDT 2019 ()
Home Mapping Designer Test Drivers Monitoring Admin Impor	Export Configurations System Logs	
Manage Projects Manage Access		
Manage Projects		
	© Create ♥ Manage ◎ Rename	*
Project Name*:	LogFireProj •	
Module1 Name*:	SampleModuleAA	
Module2 Name:	SampleModuleB	
Module3 Name:	SampleModuleC	
Module4 Name:		
	Update Delete	

Now the selected project is deleted.

Rename Project

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

DRACLE' Universal Service Mapper					
Select Project LogFireIntegration *					
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configu	irations System Logs				
Manage Projects Manage Access					
Managa Projects					
	Create # Manage © Rename				
Project Name':		LogPireProj			
Module1 Name':		S LogFireIntegration			
Module2 Name:		S LogFireProj			
Module3 Name:					
Module4 Name:					
	Update Delete				

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

ORACLE: Universal Service Mapper	Welcome, 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.

RACLE [®] Universal Service Map	per			Welcome, usma Wed Jun 19 03:08 EDT 2019
ect Project: LogFireIntegration •				
Iome Mapping Designer Test Drivers	fonitoring Admin Import/Export	Configurations System Logs		
Manage Projects Manage Access				
Manage Projects				
		◎ Create Manage Rename		
Proje	it Name':		LogFireProj	
Madul	el Name':		InjectorService	
	e2 Name:		S LogFireIntegration	
			S LogFireProj	
	e3 Name:			
Modul	e4 Name:			
		Update Delete		

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

DRACLE: Universal Servi	ce Mapper Wetcome, usmadmin Wed Jun 16 03:17 EDT 2019
lect Project: LogFireIntegration •	
Home Mapping Designer Test D	vers Montoring Admin ImportExport Configurations System Logs
Manage Projects Manage Access	
Manage Access	
	* Create () Manage
Select Project*:	LogFileProj •
Username Alias*:	usmadmin • or
Username*:	usmadmini
	Save

4. Click the **Save** button.

The user now has access to the project.

Create New Service Mapper

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

ORACLE: Universal Service Mapper	w	Welcome, usmadmin ed Jun 19 03:20 EDT 2019 ()
Select Project LogFireProj		
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs		
Edit Service Mappers Add Service Mappers		
Add new Service mapper		
		Prev Next
Select Mapper Module*:	SampleModuleAA •	
	SampleModuleAA	
	ancel 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	er	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Mo	nitoring Admin Import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers]
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	ũ S
Sampe Mode Adda Sproken et al. (1998) Sampe Mode Adda Sproken et al. (1998) Sampe Mode Adda Sproken et al. (1999) Sampe Sproken et al. (1999) S	KComment: Write your file: SampleNoduladASampleServiceNapper_messagetypek_RequestDataNapping_template content here	

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 Me Edit Service Mappers Add Service Mappers	ontionog Admin ImportEpport Configurations Bystim Logs	
Mapper File Browser	Mapper File Editor	
Samptinodu AAstroph • Description of the sample of the sa	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	

- 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.

	per	Welcome, usmadm Wed Jun 19 03:24 EDT 2019 ()
me Mapping Designer Test Drivers	Kontoring Admin ImportExport Configurations System Logs	
Add Service Mappers Add Service Mappers	Magner File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	
Sancahoutakaka septementakaput, masa Sangahoutakaka septementakaput, masa Sangahoutakaka septementakaput, mesa Sangahoutakaka septementakaput, mesa Sangahoutakaka septementakaput, mesa Sangahoutakaka septementakaput, mesa Sangahoutakaka septementakaput, mesa	#Comment: Write your file: <u>SampleHodulabdiampleGarviceHogger messagetypeb RequestDiraHogping template</u> content here 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.

ACLE [®] Universal Service Map	per	Welcome, usmac Wed Jun 19 03:22 EDT 2019 (
roject: LogFireProj		
e Mapping Designer Test Drivers	Monitoring Admin Import/Export Configurations System Logs	
Service Mappers Add Service Mappers		
apper File Browser	Mapper File Editor	
ampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	8 0
ogFireProj messa ~	#Comment: Write your file: SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template content here	
ampleModuleAASampleServiceMapper Service Service ampleModuleAASampleServiceMapper_messa	acoment, mile your rize, Jampierouuzeuusmpieservileropper_messagetypen_neuverouarapping.tempiate content nere	
ampleModuleAASampleServiceMapper_messa ampleModuleAASampleServiceMapper_messa		
ampleModuleAASampleServiceMapper_messa ampleModuleAASampleServiceMapper_Service		
SampleModuleAASampleServiceMapper_messa		

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 Mo	onitoring Admin import/Export Configurations System Logs	
Edit Service Mappers Add Service Mappers		
Mapper File Browser	Mapper File Editor	
SampleModuleAASample Select Mapper File	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	2 1
	KCamment: Write your file: SampleHobolaAkSampleServiceHopper_messagetypeA_BequentBrisHopping.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 Mappe	er	Welcome, usmadmin Wed Jun 19 03:27 EDT 2019 ()
Select Project LogFireProj		
Home Mapping Designer Test Drivers Mo Edit Service Mappers Add Service Mappers	nforng Admin ImportExport Configurations System Logs	
Mapper File Browser	Mapper File Editor	
SampleAcouldeASamp8 • Stelect Mapper File SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess) SampleAcouldeASamp8ServiceMapper (mess)	SampleModuleAASampleServiceMapper_mesbagetypeA_Requ 🔀 🙀 #Comment: Write your file: SampleModuleAASampleServiceWapper_messagetypeA_RequestDataWapping.template content here New Content that has been added once edit option is clicked	20

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.

	ər	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project: LogFireProj		
Home Mapping Designer Test Drivers Mo Edit Service Mappers Add Service Mappers	nitoring Admin Importilizport Configurations System Logs	
Mapper File Browser	Mapper File Editor	
SampleModuleAASampli •	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	20
Sampel-ModalAASampel-GenocitAapper Sampel-ModalAASampel-ForderMapper Sampel-ModalAASampel-ForderMapper Sampel-ModalAASampel-ForderMapper Sampel-ModalAASampel-ForderMapper_messa Sampel-ModalAASampel-ForderMapper_messa	#Comment: Write your file: SampleModuleAASampleServiceMapper_messagetypok_RequestDataMapping_template content here	

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

ORACLE: Universal Service Mapp	ber	Welcome, usmadmin Wed Jun 19 03:22 EDT 2019 ()
Select Project LogFireProj • Home Mapping Designer Test Drivers M Edit Service Mappers Add Service Mappers	konnorg Admin ImportEquert Configurations System Logs	
Mapper File Browser	Mapper File Editor	
Angelekodak/Adampi • Estel Kapper File	SampleModuleAASampleServiceMapper_messagetypeA_RequestDataMapping.template	

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.

ORACLE: Universal Service Mapper	Welcome, usmadmin un 19 03:29 EDT 2019 ()
Select Project LogFixeProj	
Home Mapping Designer Test Drivers Monitoring Admin ImportExport Configurations System Logs	
Execute Drivers Manage Drivers	
Manage Drivers	
# Create © Update	
Select Driver Module*: SampleModuleAA •	
Driver Family*:	
SampleModuleB	
Add SampleModuleC	

5. Enter the Driver Family name.

ODACL C'Universit Occurs Marray	Welcome, usmadmin
ORACLE Universal Service Mapper	
Select Project LogFireProj	Wed Jun 19 02:29 EDT 2019 🕕
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System	n Logs
Execute Drivers Manage Drivers	
Manage Drivers	
	* Create Update
Select Driver Module":	SampleModuleAA •
Driver Family*:	SampleDriverFamily
	Add

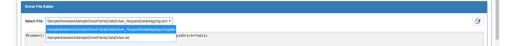
6. Click the Add button.

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.

DRACLE Universal Service Mapper Wedue to Service Mapper Wedue to Service Mapper Wedue to Service Mapper Service	
Project: LogFireProj	
ne Mapping Designer Test Drivers Monitoring	dmin Import/Export Configurations System Logs
cute Drivers Manage Drivers	
xecute Drivers	
	4
Select Driver:	Samplakodak-ASampkDinerFamy •
Select Driver: Adapter Status:	
	SampleModuleAASampleDriverFamily •
Adapter Status:	Sampleholder AASampleCiner? anny Sampleholder AASampleCiner? anny

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.

		Wed Jun 19 03:32 EDT 2
ject LogFireProj •		
	7Export Configurations System Logs	
e Drivers Manage Drivers		
ute Drivers		
Select Driver:	SampleModuleAASampleDriverFamily •	
Adapter Status:	\$	
Action:		
File Import/Export:	Choose File No file chosen Save Export	
Log:	Click here to view log file.	
r File Editor		
t File: SampleModuleAASampleDriverFamilyDataDriver_RequestDataMapping.tem		
ment: Write your template content here for driver: SampleModuleAA	SampleDriverFamily	
Driver Data that has been added once the data driver is being edi	ted	
purvei, para cuar uas peeu appen ouce cue para durivei. Is peruß ent		

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 Montoring Admin ImportEcoport Configurations System Logs		
Escola Drives Manage Drivers		
Manage Drivers		
© Create # Update		
Select Driver Name*:	SampleModuleAASampleDriverFamily •	
New Driver Name*:	SampleModuleAASampleDriverFamily	
Rename Delete		

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.

ACLE Universal Service Mapper	Wed Jun 19 03:30 EDT 20
Project: LogFireProj •	
e Mapping Designer Test Drivers Monitoring	Admin Import/Export Configurations System Logs
sute Drivers Manage Drivers	
ecute Drivers	
Select Driver:	SampleModuleAASampleOnverFamily •
Select Driver: Adapter Status:	SampediodaeAAsampedinerFamy • SampediodaeAAsampedinerFamy
Adapter Status:	SampletModule/A/Slample/DriverFamily

4. Click the **Delete** button.

Welcome, usmadmin Wed Jun 19 03:34 EDT 2019 👔		
Home Mapping Designer Tst Drivers Monitoring Admin ImportExport Configurations System Logs		
© Create # Update		
SampleModuleAASampleDriverFamily •		
Rename Delete		
rt]		

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 LogFileProj •	
Home Mapping Designer Test Drivers Monitoring Admin Import/Export Configurations System Logs	
Edit USM Configuration Manage DVM Manage Dynamic DVM	
Edit USM Configuration	
Select File: external_env_into •	×
<pre>{ TeteralEnded;: [(</pre>	۲.

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.

RACLE [®] Universal Service Mapp	ber		Welcome, usmadm Wed Jun 19 03:43 EDT 2019 ()
t Project: LogFireProj			
me Mapping Designer Test Drivers M	fonitoring Admin Import/Export Configurations Syste	m Logs	
dit USM Configuration Manage DVM Manag	ge Dynamic DVM		
Manage DVM			
		□ Edit ❀ Create [©] Rename	
DVM Name*:	·	Edit ® Create ◎ Rename NewSampteDVM LogFireProj	• • • ×
DVM Name*: Key1*:			•••••••••
		NewSampleDVIA LogFirePro	× •

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 NewSampleOVALLogFireProt •	
КеуА	KeyB	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 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		
	NewSampleDVM.LogFireProj NewSampleDVM.LogFireProj		O U
KeyA	KeyB	Save/Edit	
			*

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

	Wed Jun 19 04:50 EDT 2019 👔
OK Carcel	•
ions System Logs	
* EGE © Grade © Rename (NevedampteOvALopPrefing •	
Value	Save/Edit
CO_ES	2 0
c	Byseen Logs Bot © Create © Rename rendianysCOAL.og/Techng = Value

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 (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		•
КеуА	КеуВ	Save/Edit	Ĵ

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

DRACLE: Universal Service Mapper	Welcome, usma Wed Jun 19 04:50 EDT 2019
lect Project: LogFireProj	
Home Mapping Designer Test Drivers Monitoring Adm	nin Import/Export Configurations System Logs
Edit USM Configuration Manage DVM Manage Dynamic DVM	
Manage DVM	
	Edit Create Rename
Select DVM*:	© Edit © Create # Rename NewSampletOWLLogFiceProj ▼
Select DVM*: New DVM Name*:	

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 (12.2.1.4.0), 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_12.2.1.4.0_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_12.2.1.4.0_infrastructure.jar file to run the installer.
- 3. Run the installer by executing the jar file:

java -jar fmw_12.2.1.4.0_infrastructure.jar

The Welcome window displays.



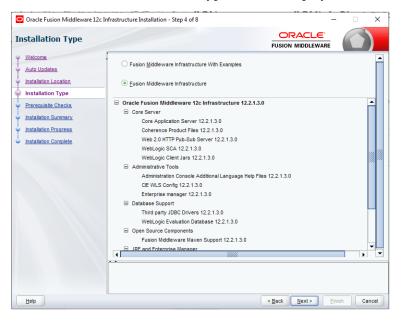
4. Click Next. The Auto Updates window displays. Select the appropriate option.

Oracle Fusion Middleware 12c I	nfrastructure Installation - Step 2 of 8	×
Auto Updates		
φ <u>Welcome</u>		
Auto Updates	Skip <u>A</u> uto Updates	
 Installation Location 	Select patches from <u>d</u> irectory	
Installation Type	Location:	Browse
Prerequisite Checks	○ Search My Oracle Support for Updates	
Installation Summary	Username:	
Installation Progress	Password:	
i Installation Complete	Proxy Settings	Test Connection
	<u>S</u> earch	
Help		<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	Oracle 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 C10racleMiddlewareI0racle_Home will be us	ed for all Oracle Feature Sets	s 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 MIDD	EWARE
<u>Welcome</u> Auto Updates		100%	
Installation Location			
Installation Type	×	Checking operating system certification	
Prerequisite Checks	_ 🔺	Checking Java version used to launch the installer	
nstallation Summary			
nstallation Progress			
Installation Complete			
	Stop	Rerun Skip View Successful Tasks	View Lo
		ecking operating system certification ecking Java version used to launch the installer	

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 Summa	γ		
Welcome	1	DSIGN MIDDLEWARE	
	Install Oracle Fusion Middleware 12c Infrastructure		
Auto Updates	Installation Location		
Installation Location	Oracle Home Location: C:\Oracle\Middleware\Oracle_Hom		4.00410-4-120
Installation Type	Log File Location: C:\Users\ameske\AppData\Local\Temp\0 -09-25 10-11-09AM.log	Jrainstali2019-09-25_10-1	T-09AM\Instali20
Prerequisite Checks	Disk Space		
	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 Help 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 installation.		
	To change the above options before starting the installation, select th Back button.	e option to change in the l	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	V Prepare	
Installation Type	Сору	
Prerequisite Checks	Generating Libraries	
Installation Summary	Performing String Substitutions	
Installation Progress	Linking	
Installation Complete	Setup	
	Saving the inventory	
	Post install scripts	
	View Messages	View <u>L</u> og
	Hardware and Engineered to Wor	
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	
<u>Select Components</u> Schema Passwords	Connect String			
Map Tablespaces	Host Name:			
Summary	Port:			
O Completion Summary	Service Name:			
	Username:			
	Password:			
	<u>R</u> ole:	SYSDBA		•
-	For RAC database, specify VI For SCAN enabled RAC databa			
		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.

(++)		
, reference		
ecial		

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		or main and auxiliary schema users. rords for all schemas Alpha numeric only Cannot start wit No special characters except: \$, #.		
	-	rd:		
Help		< 8	ack <u>N</u> ext >	Einish Cancel

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

v		Default and temporary tab					
	Welcome			acted components appear i ablespaces, use the Manag			
1	Create Repository			+**			
Г	Database Connection Details			12	Manage Tablespace		
Ť.		Construction of the second s					
Ŷ.	Select Components						
Ļ.	Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace		
F		Common Infrastructu	INT_STB	*INT_STB	*INT_IAS_TEMP		
Ψ.	Map Tablespaces	Oracle Platform Secu	INT_OPSS	*INT_IAS_OPSS	*INT_IAS_TEMP		
6	Summary	User Messaging Serv	INT_UMS	*INT_IAS_UMS	*INT_IAS_TEMP		
U		Audit Services	INT_IAU	*INT_IAU	*INT_IAS_TEMP		
9	Completion 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		
				ation files) are to be creat			

7. Click Next. The Confirmation window displays.



8. Click OK. The Summary window displays.

	Welcome - S	tep 7 of 8			
Repository Creation U	tility				
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary	Database details: Host Name Port Service Name Connected As Operation Prefix for (prefixable) Schema Owne		a Load concurrently		
Completion Summary	Component Common Infrastructure Services	Schema Owner INT_STB	Tablespace Type Default Temp Additional	Tablespace Name INT_STB INT_IAS_TEMP INone1	ľ
	Oracle Platform Security Services	INT_OPSS	Default Temp Additional	INT_IAS_OPSS INT_IAS_TEMP [None]	1000
	User Messaging Service	INT_UMS	Default Temp Additional	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 Response File				

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		1000
Repository Creation U	tility				
Welcome Create Repository Database Connection Details Select Components Scheme Passwords Hep 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	1 minute 43 /tmp/RCU201		55123436/logs/rcu.log	2
	Compo Common Infrastructu Oracle Platform Secu User Messaging Servi Audit Services Appen Audit Services Viewe Metadata Services Weblogic Services	re Services ity Services ice	Status Success Success Success Success Success Success Success	Time 00:09.296(sec) 00:16.123(sec) 00:13.288(sec) 00:09.293(sec) 00:09.258(sec) 00:09.258(sec) 00:12.097(sec) 00:16.790(sec)	Logfile(Click to view) stb.log ops.log ucsums.log iau_log iau_append.log iau_viewer.log mds.log wis.log
Help				< Back Next >	<u>Create</u> <u>Close</u>

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			\bigcirc
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	⊙ ⊆reate a new domain		
	O Update an existing domain		
	Domain Location:		8cowse
	Create a new domain.		
Help		< gark Next > Bnish	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		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDEC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Broduct Templates: Filter Templates: Type here. Include all gelected templates Available Templates Sasic WebLogic Server Domain - 12.2.1.3.0 [wiserver]* Oracle Enterprise Manager - 12.2.1.3.0 [em] Oracle Enterprise Manager - 12.2.1.3.0 [ons] Oracle Enterprise Manager - 12.2.1.3.0 [ons] Oracle HTTP Server (Collocated) + 12.2.1.3.0 [ons] Oracle IJRF SOAP/JMS Web Services - 12.2.1.3.0 [oracle Oracle JRF SOAP/JMS Web Services - 12.2.1.3.0 [oracle Oracle IJRF SOAP/JMS Web Services - 12.2.1.3.0 [oracle Common Oracle IRAS Session Service - 12.2.1.3.0 [oracle_common Oracle Restricted JRF - 12.2.1.3.0 [oracle_common] Oracle Restricted JRF - 12.2.1.3.0 [oracle_common]] Include all previously applied templates

- 3. Select the Oracle JRF 12.2.1.4.0 [oracle_common], Oracle Enterprise Manager 12.2.1.4.0 [em], Oracle WSM Policy Manager 12.2.1.4.0 [oracle_common], and WebLogic Coherence Cluster Extension 12.2.1.4.0[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	Name Password Confirm Password	weblogic				
		is the password. Passwor r or special character.	d must contain	at least 8 alphar	numeric cl	haracters wit

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 IDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Production Require the entry of JDK	f a username and passw	vsrword, and poll for applicat	ications to deploy.
Help		<	Back Next > Bini	th Cancel

- 6. Click Next. The Database Configuration Type window displays.
 - **a.** Select the **RCU Data** radio button.
 - **b.** Select **Oracle** as the **Vendor**.
 - **c.** Select **Oracle's Driver (Thin) for Service connections**; **Version 9.0.1 and later** as the **Driver**.
 - **d.** Enter the **Service**, **Host Name**, **Port**, **Schema Owner**, and **Schema Password** for the *_STB schema created using the RCU.
 - e. 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			datasources
Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	DBMS/Service: Host Name:		Port 1521
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dat Successfully Done.	taOK	
Help		Back Next > Boish	Cancel

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

JDBC Component Schem	a				-		\bigcirc
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources	Sche Oracl	or: [for companient s	vert to RAC multi	data sour		convert
Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration		Component Schema .ocalSvcTbl Schema DWSM MDS Schema DPSS Audit Schema DPSS Audit Viewer Sc DPSS Schema	DBMS/Service	Host Name	Port 1521 1521 1521 1521 1521	INT_MDS INT_IAU_APPE	Schema Passw

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

DBC Component Scher	ma Te	st					
Create Domain		Status	Component Schema		JD	BC Connection URL	
Templates			LocalSvcTbl Schemi	a state	-		
Application Location		1	OWSM MDS Schema	a state	-		
		1	OPSS Audit Schema	a aller	-		
Administrator Account		4	OPSS Audit Viewer !	-			- 0
Domain Mode and JDK		-	OPSS Schema				
Database Configuration Typ	<u>e</u>						
Component Datasources							
IDBC Test							
Advanced Configuration							
Configuration Summary		Test Se	elected Connections	Cancel Ter	sting		
Configuration Progress	Co	nnectio	n Result Log				
End Of Configuration	Com	er=ora	t Schema=LocalSvcTbl t cle.jdbc.OracleDriver	Schema			
	URL	= r=INT 1	TR				
		sword-					
			SELECT 1 FROM DUAL				
	SQL	FWK-64	213: Test Successful!				
	SQL	FWK-64		et was surre	eeful		
	SQL	FWK-64	213: Test Successful!	est was surre	ceful		
	CFG CFG	FWK-64	213: Test Successful!	t was surra	eefy		
	CFG CFG	FWK-64	213: Test Successful!	et was surce	eefy		
	CFG CFG	FWK-64	213: Test Successful!	NET WAR SUFFA	esty.		
	CFG CFG	FWK-64	213: Test Successful!	net was succe	eeful		
	CFG CFG	FWK-64	213: Test Successful!	net was surra	eeful		

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.

Advanced Configuration			
Create Domain Cremplates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Progress End Of Configuration	 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 		
Help	< 84	ck Next > Enish	Cancel

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

Administration Server				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Advanced Configuration Advanced Configuration Advanced Configuration Custers Custers Custers Coherence Clusters Aachines Deployments Targeting Configuration Summary Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer localhost 37001 Unspecified		coherence port

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

Node Manager			FUSION MIDD		()
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 I 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	Location ir Setup tials weblogic	st contain at least 8 alpi	hanumeric char	Browse racters w
Help			< Back Next >	Finish	Cance

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

Managed Servers						
Create Domain Templates	4 6dd 🚯 0	jone X Delete			🧐 Disga	ard Changes
Application Location Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK	server	All Local Addres •	37003		Disabled	RF-MAN-SVR
Advanced Configuration						
Advanced Configuration Administration Server Node Manager						
Administration Server Node Manager Managed Servers						
Administration Server						
Administration Server Node Manager Managed Servers Clusters						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services 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						

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

a. 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	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Administration Server Node Manager Managed Servers					
Clusters					
Clusters <u>Coherence Clusters</u> <u>Machines</u> <u>Deployments Targeting</u> <u>Services Targeting</u> Configuration Summary					

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

Coherence Clusters		
Create Domain Templates	1	🧐 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		
Coherence Clusters Machines		
Deployments Targeting		
Services Targeting		
Configuration Summary Configuration Progress	**	
Configuration Summary		
Configuration Summary Configuration Progress		

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

Machines							\bigcirc
Create Domain	Machine Unix Mac	hine					
Administrator Account	🛉 Add 🗙 🕻	elete				🗐 Disga	rd Changes
Domain Mode and JDK Database Configuration Type	Name	Enable	Post Bind GID	Enable	Post Bind UID	Node Manager Listen Address	Node Manager
Component Datasources	new_UnixMachine_1		nobody		nobody	localhost	- 555
IDBC Test							
Advanced Configuration							
Administration Server							
Node Manager							
Managed Servers							
Managed Servers Clusters							
Clusters							
Clusters Coherence Clusters							
Clusters Coherence Clusters Machines							
<u>Clusters</u> <u>Coherence Clusters</u> Machines Assign Servers to Machines							
<u>Clusters</u> <u>Coherence Clusters</u> Machines <u>Assign Servers to Machines</u> <u>Deployments Targeting</u>							
Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting							
Clusters Ceherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress							
Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary							

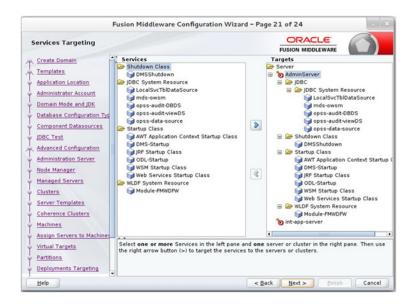
16. Click **Next**. The Assign Servers to Machines window displays. Add the Admin Server and the managed server to the computer.

		Fusion Middleware Configuration Wizar	d – Pa	ge 14 of 22		- ×
As	sign Servers to Machi	nes				
	Ipdate Domain	Servers		Machines		
T	emplates			O UnixMachine		
111-	atasources			to new_UnixMa AdminSe		
1 -				dds_ser		
	DBC DS Test			-		
	atabase Configuration Typ					
ψg	Component Datasources					
ý J	DBC Test		>			
A A	dvanced Configuration					
ý M	lanaged Servers					
4 9	lusters					
ų <u>s</u>	erver Templates		8			
4 9	Coherence Clusters					
Ý M	<u>fachines</u>					
. A	ssign Servers to Machi					
ψv	firtual Targets					
Ý P	artitions					
ý g	eployments Targeting					
ų <u>s</u>	Services Targeting	Select one or more servers in the left pane an arrow button (>) to assign the server or server			ht pane. The	n use the right
ý E	ile Stores					
ų <u>c</u>	configuration Summary					
E	ielp		< §	ack <u>N</u> ext >	Einish	Cancel

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

Deployments Targeting	ion Middleware Configuration Wizard	FUSION MIDDLEWARE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDEC Test Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Deployments Targeting Services Targeting	ad.oracle dom ain.webapp.apachre.http: adf.oracle.dom ain.webapp.apachre.http: adf.oracle.dom ain.webapp.apache.http: adf.oracle.dom ain.webapp.apache.http: adf.oracle.dom ain.webapp.bathe.http: adf.oracle.dom ain.webapp.bathe.veloc adf.oracle.dom ain.webapp.bathe.veloc adf.oracle.dom ain.webapp.bathe.veloc adf.oracle.dom ain.webapp.bathe.ext adf.oracle.dom ain.webapp.bathe.pache.ext em_common#12.4012.10.4.0 em_core_ppc_public em_sdkcore_ppc_public_p0jo_jar emagentsdk_jur#12.4012.10.4.0 emagentsdk_jur#12.4012.10.4.0	Deployment Targets AdminServer AdminServer AdminServer AdminServer AdminServer AdminServer Coherence-transaction=12.2.1.0 Coherence-transaction=12.2.1.0 Coherence-transaction=12.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence-transaction=1.2.2.1.0 Coherence

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			
Create Domain Templates Application Location Administrator Account Component Datasources IDBC Test Advanced Configuration Administration Server Node Manager Advanced Configuration Administration Servers Coherence Clusters Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary	View: Deployment Int. domain (Server Server Server Service Shutdown Class DMSShutdown Startup Class WSM Startup Class WSM Startup Class WSM Startup Class DMS-Startup DMS-Startup DMS-Startup DMS-Startup AWT Application Context Start Select Create to accept the above options and a Select Create to accept the above options and source Select the above options and source Select the source the source the abo	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 WSM Policy Manager Oracle WSM Policy Manager extr 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	
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 The OPSS Security Configuration Data Processing Completed
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	

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

寒 😑 Fusion Middleware Configuration Wizard - Page 21 of 21			
End Of Configuration	Ē		
A 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 http://docalhost.37093/console		
Domain Mode and JDK			
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	Cancel

- **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 12.2.1.4 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 UniversalServiceMapper16.0.3ForAll16.x.xApps_eng_ ga.zip.
- 2. Unzip the downloaded archive. The usm_home directory will be created under the current directory:

unzip UniversalServiceMapper16.0.3ForAll16.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":{
        "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"
                 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"}
```