# Oracle® Communications Session Report Manager Upgrade Guide for Oracle Fusion Middleware 19c



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ORACLE

Oracle Communications Session Report Manager Upgrade Guide for Oracle Fusion Middleware 19c, Release 9.0

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# About This Guide

This document and other product-related documents are described in the Related Documentation table.

### **Related Documentation**

Tahla 1	Oracle Communications Product Plug-in Documentation Library	,
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Document Name	Description
Session Element Manager User Guide	Provides information for managing and optimizing network infrastructure elements and their functions with comprehensive tools and applications used to provision fault, configuration, accounting, performance, and security (FCAPS) support for managed network functions and their associated devices in Oracle Communications Session Delivery Manager (SDM).
Report Manager User Guide	Provides information about configuring Report Manager to interoperate with Oracle BI Publisher as well as creating reports on Session Delivery product network devices.
Report Manager Installation Guide	Provides information for installing Oracle Communications Report Manager product as an addition to SDM including the Oracle database and BI Publisher components. The Oracle session delivery product plugin must be added to Oracle Communications Session Delivery Manager before performing the Report Manager installation.
Route Manager User Guide	Provides information for updating local route table (LRT) data on a single device or multiple devices.



Document Name	Document Description
Administration Guide	<ul> <li>Provides the following administration information:</li> <li>Implement SDM on your network as a standalone server or high availability (HA) server.</li> <li>Login to the SDM application, access GUI menus including help, customize the SDM application, and change your password.</li> <li>Access the product plugin service through the GUI to manage product plugin tasks, including how product plugins are uploaded and installed.</li> </ul>
	<ul> <li>Manage security, faults, and transport layer security certificates for east-west peer SDM server communication, and southbound communication with network function (NF) devices.</li> <li>Configure northbound interface (destination) fault trap receivers and</li> </ul>
	<ul> <li>configure the heartbeat trap for northbound systems.</li> <li>Monitor SDM server health to detect heartbeat messages and display the server status to prevent health problems, or view server disk utilization information and server directory statistics.</li> </ul>
	<ul> <li>Maintain SDM server operations, which includes database backup and database restoration and performing server cluster operations.</li> <li>Use available SDM server scripts, the contents of fault trap notifications, and a list of northbound notification traps generated by the SDM server.</li> </ul>
Installation Guide	<ul> <li>Provides the following installation information:</li> <li>Do pre-installation tasks, which include reviewing system requirements, adjusting linux and firewall settings, completing SDM server settings and configuring your NNCentral account for security reasons.</li> <li>Do the typical installation to perform the minimal configuration required to run the SDM server.</li> <li>Do the custom installation to perform more advanced configurations including the mail server, cluster management, Route Manager, transport layer security (TLS), and Oracle database configuration</li> </ul>
Release Notes	Contains information about the administration and software configuration of the SDM feature support new to this release.

# Table 2Oracle Communications Session Delivery Manager DocumentationLibrary



Document Name	Document Description
Security Guide	<ul> <li>Provides the following security guidelines:</li> <li>Use guidelines to perform a secure installation of SDM on your server, which includes methods for securing the server, firewall settings, system support for encryption and random number generators (RNG), using HTTPS, and password guidelines.</li> <li>Review Security Manager features that are used to configure groups, users, operations, privileges, and manage access to the system.</li> <li>Follow a checklist to securely deploy SDM on your network and maintain security updates.</li> </ul>
REST API Guide	Provides information for the supported REST APIs and how to use the REST API interface. The REST API interface allows a northbound client application, such as a network service orchestrator (NSO), to interact with SDM and its supported product plugins.
SOAP API Guide	The SOAP API guide provides information for the SOAP and XML provisioning Application Programming Interface (API) client and server programing model that enables users to write client applications that automate the provisioning of devices. The web service consists of operations that can be performed on devices managed by the SDM server and data structures that are used as input and output parameters for these operations.

Table 2	(Cont.) Oracle Communications Session Delivery Manager
Docume	ntation Library

### My Oracle Support

My Oracle Support (https://support.oracle.com) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with My Oracle Support registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/ index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

- **1.** Select 2 for New Service Request.
- 2. Select 3 for Hardware, Networking, and Solaris Operating System Support.
- 3. Select one of the following options:
  - For technical issues such as creating a new Service Request (SR), select 1.
  - For non-technical issues such as registration or assistance with My Oracle Support, select 2.



You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

#### **Emergency Response**

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http:// www.oracle.com/us/support/contact/index.html. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

### Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, http://docs.oracle.com. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at http://www.adobe.com.

- 1. Access the Oracle Help Center site at http://docs.oracle.com.
- 2. Click Industries.
- 3. Under the Oracle Communications sub-header, click the Oracle Communications documentation link.

The Communications Documentation page appears. Most products covered by these documentation sets appear under the headings "Network Session Delivery and Control Infrastructure" or "Platforms."

- Click on your Product and then Release Number. A list of the entire documentation set for the selected product and release appears.
- 5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.



### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.



# **Revision History**

This section provides a revision history for this document.

Date	Revision
April 2024	Session Delivery Manager 9.0.3 Release



# 1 Pre-upgrade Tasks

Perform the following tasks before upgrading.

Before upgrading FMW 12.2.1.2 to 12.2.1.4, ensure that you:

- 1. Create a new directory oracle1 1-1
- 2. Shutting down the servers 1-2

## Create a New Directory for the Oracle User

A new directory oracle1 is created to store the FMW files in this directory, that are used to install BI Publisher.

Create the oracle1 directory under /home/oracle to place the files needed for Fusion MiddleWare installation.

• As the Oracle user, run this command to create the directory oracle1 under /home/oracle:

[oracle@vm ~] # mkdir oracle1

### Shutdown the FMW Servers and Oracle BI instance

To stop the Fusion Middleware servers and Oracle BI instance and servers.

1. As the Oracle user, go to the path:

[oracle@vm]\$cd /home/oracle/Oracle/Middleware/Oracle\_Home/user\_projects/ domains/bi/bitools/bin

2. Run the command to shutdown the FMW Servers and Oracle BI instance:

[oracle@bin]\$ ./stop.sh



# 2 Install Oracle BI Publisher

Follow the instructions given in this section to install:

- BI Publisher
- Weblogic Server
- Oracle Fusion Middleware Infrastructure
- Oracle Business Intelligence 12c

## Install Fusion Middleware Infrastructure

With the introduction of Business Intelligence (BI) Publisher Release 12c, the Repository Creation Utility is part of the Oracle Fusion Middleware.

Follow the instructions given in this section to install the Oracle Fusion Middleware infrastructure in preparation for installing the BI Publisher.

- 1. Download Oracle Fusion Middleware 12c from the Oracle Business Intelligence Downloads page. Look for the .Zip file fmw\_12.2.1.3.0\_infrastructure\_Disk1\_1of1.zip.
- Copy the file to your server in the oracle1 directory created under the path /home/oracle/ oracle1.
- 3. Login to your server as the oracle user with the -Y flag
- 4. Go to the oracle1 directory at the path /home/oracle/oracle1.

```
ssh -Y oracle@vm
cd oracle1
```

5. Ensure that the file was not corrupted during transfer. Match the checksum of the file to checksum published by Oracle for the file. The checksum is displayed next to the download link. Use this command to calculate the checksum.

```
- md5sum <filename>
```

The checksum output has the following format: <checksum> <byte count> <filename>

6. Extract the contents of the file fmw\_12.2.1.3.0\_infrastructure\_Disk1\_1of1.zip.

unzip fmw\_12.2.1.3.0\_infrastructure\_Disk1\_lof1.zip

7. Run this command on the resulting JAR file to run the Oracle Fusion Middleware installer:

java -d64 -jar fmw 12.2.1.3.0 infrastructure.jar

- 8. In the Welcome window, click Next.
- 9. In the Auto Updates window,



- a. Select the default choice (Skip Auto Updates) if you do not plan on receiving any updates for Oracle Fusion Middleware from Oracle Support and click Next.
- b. However, if you want automatic updates later, or the ability to search for updates through Oracle Support, you can choose the other options and click Next. For example:

Figure 2-1 Auto Updates

uto Updates		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip Auto Updates     Select patches from girectory     Location     Search By Oracle Support for Updates     Username.     Dasserd	
	Provy Settings	<u>Iest Connect</u>

10. Create a new directory Oracle\_Home1 at the path /home/oracle/Oracle/ Middleware

[oracle@vm ~]\$ cd /home/oracle/Oracle/Middleware
[oracle@vm Middleware]\$ mkdir Oracle\_Home1

**11**. In the Installation Location window, enter the path of the New Oracle Home:

/home/oracle/Oracle/Middleware/Oracle Home1

12. click Next.



#### Figure 2-2 Installation Location



- **13.** In the **Installation Type** window, keep the default choice (Fusion Middleware Infrastructure) and click **Next**.
- 14. In the Prerequisite Checks window, checks are performed and click Next.
- **15.** In the **Installation Summary** window, click **Install** to begin the Oracle Fusion Middleware installation.

The Installation Progress window appears to display the progress of the installation.

- **16.** When the installation completes, click **Next**.
- **17.** In the **Installation Complete** window, click **Finish**.

# Setting the NEW\_ORACLE\_HOME Path

Set the variable NEW\_ORACLE\_HOME to refer to it quickly at multiple places.

- 1. Open the file: /home/oracle/.bashrc file
- Append the following line to permanently set the NEW\_ORACLE\_HOME variable in the / home/oracle/.bashrc file:

export NEW ORACLE HOME=/home/oracle/Oracle/Middleware/Oracle Home1

3. Start a new bash shell as the "oracle" Linux user. For example:

ssh -Y oracle@<my\_oracle\_server>



# 3 Installing Oracle Business Intelligence 12c

Installing the Oracle Business Intelligence 12c software is an important part of the Oracle BI Publisher installation.

1. Download the Oracle Business Intelligence 12c Installation files from the Oracle Business Intelligence Downloads page. The installation files are:

```
fmw_12.2.1.4.0_bi_linux64_Disk1_lof2.zip
fmw_12.2.1.4.0_bi_linux64_Disk1_2of2.zip
```

- Copy the Oracle Business Intelligence 12c Installation files to the path: /home/oracle/ oracle1.
- 3. Extract the contents of the .Zip files to get:
  - bi\_platform-12.2.1.4.0\_linux64-2.bin
  - bi\_platform-12.2.1.4.0\_linux64.bin

```
[oracle@vm ]$ cd oracle1
[oracle@vm oracle1]$ unzip fmw_12.2.1.4.0_bi_linux64_Disk1_1of2.zip
[oracle@vm oracle1]$ unzip fmw 12.2.1.4.0 bi_linux64_Disk1_2of2.zip
```

4. Execute the Oracle Business Intelligence 12c installer as the oracle user:

```
./bi platform-12.2.1.4.0 linux64.bin
```

- 5. In the Welcome window click Next.
- 6. In the Auto Updates window:
  - a. You can use the default choice (Skip Auto Updates) if you do not plan on receiving any updates for the Oracle Business Intelligence 12c software from Oracle Support, and click **Next**.
  - **b.** However, if you want automatic updates later or the ability to search updates through Oracle Support, you can choose the other options, and click **Next**.



uto Updates		
Welcome Auto Updates	<ul> <li>Skip Auto Updates</li> <li>Select outches from directory</li> </ul>	
Installation Location	Location:	Brgw
Prerequisite Checks Installation Summary Installation Progress Installation Complete	Search My Oracle Support for Updates Username: Bassword:	
	<u>S</u> earch	

### Figure 3-1 Installing Auto Updates

7. In the Installation Location window, select the directory from the Oracle Home dropdown list or browse to the directory where you want to install the software. This graphic shows the /home/oracle/Oracle/Middleware/Oracle\_Home1 directory:

### Figure 3-2 Configure installation location

n	stallation Location	
ł.	Welcome	Qracle Home:
ł	Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home1
2	Installation Location	Feature Sets Installed At Selected Oracle Home: View
1	Installation Type	
	Prerequisite Checks	
	Installation Summary	
	Installation Progress	

- 8. In the **Installation Type** window, select the **BI Platform Distribution** option that you want. The default is **BI Platform Distribution** with Samples.
- 9. In the Prerequisite Checks window, click Next.
- 10. In the Installation Summary window, click Install.
- 11. In the Installation Progress window, click Next.





Figure 3-3 Oracle Business Intelligence 12c software Installation Progress

**12.** In the **Installation Complete** window, click **Finish**.



# 4

# Running a Pre-upgrade Readiness Check

To identify potential issues with the upgrade, Oracle recommends that you run a readiness check before you start the upgrade process. Note that the readiness check may not be able to discover all potential issues with your upgrade.

1. Go to the path oracle\_common/upgrade/bin directory of new oracle home:

```
[oracle@vm]$ cd $NEW_ORACLE_HOME/oracle_common/upgrade/bin
[oracle@vm bin]$ ./ua -readiness
```

- 2. On the Welcome screen, review information about the readiness check. Click Next.
- 3. On the **Readiness Check Type** screen, select the **Domain Based** option, and then select:
  - Include checks for all schemas
  - Include checks for all configurations
- Select the readiness check as following. Give the **Domain Directory** of old Oracle\_Home as given below and click **Next**:

/home/oracle/Oracle/Middleware/Oracle Home/user projects/domains/bi

### Figure 4-1 Schemas and Configuration



5. In the Components list dialog box,





Figure 4-2 Components List

# Component- WLS Schema (STEP\_WLS\_RUNTIME)

For the Component- WLS Schema (STEP\_WLS\_RUNTIME), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the Component- WLS Schema (STEP\_WLS\_RUNTIME):

### Table 4-1 Component- WLS Schema (STEP\_WLS\_RUNTIME)

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Default) STEP_WLS_RUNTIME
Schema password	(Default) Password for Schema is filled



w	Oracle Fusio LS Schema [STEP_W	on Middleware Upgra	nde Assistant - Step 4 (	of 12 (on sdm83)	
Ĭ	Welcome Schemas and Configurations	Specify the database adm [STEP_WLS_RUNTIME] sch	ninistrator account for the data ema.	abase containing the WLS	
ų,	Component List	Database <u>T</u> ype:	Oracle Database		-
	WLS Schema [STEP_WLS_	Database Connect String:	// <hostname> :1521/ACMEBI</hostname>	PUBLISHER	
ψ	MDS Schema [STEP_MDS]	DDA User Norma	n chosmanies instantion	operorren	
ų	OPSS Schema [STEP_OPSS]	DBA User Name:	Inncentral User with "DBA" privileges.		
ļ	IAU Schema [STEP_IAU]	DBA Password			
ļ	BIPLATFORM Schema [STEP_				
ļ	STB Schema [STEP_STB]	<u>S</u> chema User Name:	STEP_WLS_RUNTIME		
ļ	Readiness Summary	Schema Password:	•••••		
Ļ	Readiness Check				
6	End of Readiness				
•					
	Help	⊻iew Log	< <u>B</u> ack	<u>N</u> ext > <u>C</u> ontinue	Cancel

Figure 4-3 Component- WLS Schema (STEP\_WLS\_RUNTIME)

# Component - MDS Schema (STEP\_MDS)

For the Component- MDS Schema (STEP\_MDS), keep the fields identified with the default values.

- **1.** Change any of the fields as required below:
- 2. See the table to view the descriptions of the fields on the MDS Schema (STEP\_MDS):

Table 4-2 MDS Schema (STEP\_MDS)

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_MDS
Schema password	(Default) Password for Schema is filled



S Schema [STEP_M	IDS]			
Welcome Schemas and Configurations	Specify the database adm schema.	inistrator account for the data	base containing the MDS [ST	EP_MDS]
Component List	Database <u>T</u> ype:	Oracle Database		
WLS Schema [STEP_WLS_RU	Database Connect String:	// chostnamo>1521/ACMEBIPI		
MDS Schema [STEP_MDS]	DDA Haar Namer	menosinames instruction	oblightk	
OPSS Schema [STEP_OPSS]	<u>D</u> BA User Name:	User with "DBA" privileges.		
IAU Schema [STEP_IAU]	DBA Password:			
BIPLATFORM Schema [STEP_				
STB Schema [STEP_STB]		Connect		
Readiness Summary	<u>S</u> chema User Name:	STEP_MDS		
Readiness Check	Schema Password:			
End of Readiness				
	Connection to database	successfully completed		

Figure 4-4 MDS Schema (STEP\_MDS)

# Component- OPSS Schema (STEP\_OPSS)

For the Component- OPSS Schema (STEP\_OPSS), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the MDS Schema (STEP\_MDS):

Table 4-3 Component- OPSS Schema (STEP_)	OPSS)
--	-------

Field	Description
Database Type	(Default) Oracle Database
DBA user name	nncentral
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_OPSS
Schema password	(Default) Password for Schema is filled

3. Click Next.



# Component- IAU Schema (STEP\_IAU)

For the Component- IAU Schema (STEP\_IAU), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the Component- IAU Schema (STEP\_IAU):

#### Table 4-4 Component- IAU Schema (STEP\_IAU)

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_IAU
Schema password	(Default) Password for Schema is filled

3. Click Next.

### Component- BIPLATFORM Schema (STEP\_BIPLATFORM)

For the Component- BIPLATFORM Schema (STEP\_BIPLATFORM), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the Component- BIPLATFORM Schema (STEP\_BIPLATFORM):

Table 4-5	Component- BIPLATE	-ORM Schema (STEF	P_BIPLATFORM)
-----------	--------------------	-------------------	---------------

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_BIPLATFORM
Schema password	(Default) Password for Schema is filled

3. Click Next.

# Component- STB Schema (STEP\_STB)

For the Component- STB Schema (STEP\_STB), keep the fields identified with the default values.



- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the Component- STB Schema (STEP\_STB):

Table 4-6	Component-	STB	Schema	(STEP_	STB)
-----------	------------	-----	--------	--------	------

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_STB
Schema password	(Default) Password for Schema is filled

3. Click Next.

### **Reviewing Readiness Summary**

On the **Readiness Summary** screen, review the summary of the readiness checks that will be performed based on your selections.

1. On the **Readiness Check** screen, review the status of the readiness check. The process can take several minutes.

If you are checking multiple components, the progress of each component displays in its own progress bar in parallel.

2. When the readiness check is complete, click Continue.

Oracle Fusio	n Middleware Upgrade Assistant - Step	11 of 12 (on sd	m83) _ 🗆
eadiness Check			
Welcome	Readiness Progress		Elapsed time: 00:00:1
100%			
Component List	Readiness finished.		
WLS Schema [STEP_WLS_RU	Component Name	Туре	Status
MDS Schema [STEP_MDS]	Oracle WebLogicServer [STEP_WLS_RUNTIME]	schema	upgrade not necess
OPSS Schema ISTEP_OPSS1	<ul> <li>Oracle Metadata Services [STEP_MDS]</li> </ul>	schema	ready for upgrade
IAU Schema [STEP_IAU]	<ul> <li>Oracle Platform Security Services (STEP_OPSS)</li> </ul>	schema	upgrade not necess.
BIPLATFORM Schema (STEP	<ul> <li>Oracle Audit Services [STEP_IAU]</li> </ul>	schema	upgrade not necess
STB Schema (STEP_STB)	✓ Oracle Business Intelligence Schema [STEP_BIR	schema	ready for upgrade
Readiness Summary	<ul> <li>Common Infrastructure Services (STEP_STB)</li> </ul>	schema	ready for upgrade
Readiness Check	<ul> <li>Oracle BI Shared Files</li> </ul>	configuration	ready for upgrade
Readiness Check	✓ Oracle JRF	configuration	ready for upgrade
	<ul> <li>Oracle BI Services Files</li> </ul>	configuration	upgrade not necess.
	<ul> <li>Oracle BI Rebase Service</li> </ul>	configuration	upgrade not necess
	✓ Oracle BIP Config Files	configuration	ready for upgrade
	System Components Infrastructure	configuration	upgrade not necess
	<ul> <li>Oracle Web Services Manager</li> </ul>	configuration	ready for upgrade
	<ul> <li>Oracle BI ODBC</li> </ul>	configuration	ready for upgrade
	<ul> <li>Common Infrastructure Services</li> </ul>	configuration	ready for upgrade
	View Paydonse Report		
	tion (Zonness tehnik		
Help	View Log < Back	Next >	Continue Cancel

Figure 4-5 Readiness Check Summary

- 3. At the end of Readiness screen, review the results of the readiness check (Readiness Success or Readiness Failure):
  - a. If the readiness check is successful, click **View Readiness Report** to review the complete report. Oracle recommends that you review the Readiness



Report before you perform the actual upgrade even when the readiness check is successful.

- **b.** Use the **Find** option to search for a particular word or phrase within the report. The report also indicates where the completed Readiness Check Report file is located.
- c. Click Close.
- 4. If the readiness check encounters an issue or error, click **View Log** to review the log file, identify and correct the issues, and then restart the readiness check. The log file is managed by the command-line options you set.



Figure 4-6 Readiness Success



# 5 Starting the Upgrading Assistant

Upgrade product schemas using the Upgrade Assistant.

**1.** Go to the oracle\_common/upgrade/bin directory of new oracle home:

```
[oracle@vm]$ cd $NEW ORACLE HOME/oracle common/upgrade/bin
```

2. To upgrade product schemas using the Upgrade Assistant, follow these steps:

[oracle@vm bin]\$ ./ua

- 3. On the **Welcome** screen, review an introduction to the Upgrade Assistant and information about important pre-upgrade tasks.
- 4. Click Next.
- 5. On the All Schemas screen, select All Schemas Used by a Domain.
  - a. Click All Schemas Used by a Domain to allow the Upgrade Assistant to discover and select all components that have a schema available to upgrade in the domain specified in the Domain Directory field. This is also known as a domain assisted schema upgrade. Additionally, the Upgrade Assistant pre-populates connection information on the schema input screens
  - b. Give the Domain Directory of old Oracle\_Home as:

/home/oracle/Oracle/Middleware/Oracle Home/user projects/domains/bi

### Note:

Oracle recommends that you select All Schemas Used by a Domain for most upgrades to ensure all of the required schemas are included in the upgrade

c. Click Next.





#### Figure 5-1 All Schemas Used by a Domain

- 6. On the **Component List** screen, click Next.
- 7. 4. On the **Prerequisites** screen, acknowledge that the prerequisites have been met by selecting all the check boxes. Click **Next**.

### Figure 5-2 Prerequisites



Note:

The Upgrade Assistant does not verify whether the prerequisites have been met.

# Component-WLS Schema (STEP\_WLS\_RUNTIME)

For the Component- WLS Schema (STEP\_WLS\_RUNTIME), keep the fields identified with default values and change any of the fields as required below, and click **Next**:



Table 5-1	WLS Schema	(STEP_		_RUNTIME)
-----------	------------	--------	--	-----------

Fields	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA username	nncentral
DBA password	Enter the password for Oracle Database
Schema username	(Default) STEP_WLS_RUNTIME
Schema password	(Default) Password for Schema is filled

### Figure 5-3 Component- WLS Schema (STEP\_WLS\_RUNTIME)

2	🛃 🛛 Oracle Fusion Middleware Upgrade Assistant - Step 4 of 12 (on sdm83) 🗆 🗙					
w	S Schema [STEP_W	LS_RUNTIME]				
Ĭ	<u>Welcome</u> Schemas and Configurations	Specify the database administrator account for the database containing the WLS [STEP_WLS_RUNTIME] schema.				
ų,	Component List	Database <u>T</u> ype:	Oracle Database			-
	WLS Schema [STEP_WLS_	Database <u>C</u> onnect String:	<pre></pre>	BIPUBLISHER		
ψ	MDS Schema [STEP_MDS]	DBA Licer Name:	an energy of			
Ý	OPSS Schema [STEP_OPSS]	DR oser Name.	User with "DBA" privileges.			
Ý	IAU Schema [STEP_IAU]	DBA Password:				
Ý	BIPLATFORM Schema [STEP_					
- ¢	STB Schema [STEP_STB]	<u>S</u> chema User Name:	STEP_WLS_RUNTIME			
Ý	Readiness Summary	Schema <u>P</u> assword:	•••••			
Ý	Readiness Check					
9	End of Readiness					
4						
	Help	⊻iew Log	< <u>B</u> ack	<u>N</u> ext >	Continue	Cancel

# Component- MDS Schema (STEP\_MDS)

For the Component- MDS Schema (STEP\_MDS), keep the fields identified with default values and change any of the fields as required below, and click **Next**.

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA username	nncentral
DBA password	Enter the password for Oracle Database
Schema username	(Non-editable) STEP_MDS
Schema password	(Default) Password for Schema is filled.

Table 5-2 Fields for Component- MDS Schema (STEP\_MDS)

### Figure 5-4 MDS Schema (STEP\_MDS)

DS Schema [STEP_M	IDS]			( <b>1</b> )
Welcome	Specify the database administrator account for the database containing the MDS [STEP_MDS]			EP_MDS]
Chemas and Configurations	schema.			
Component List	Database <u>T</u> ype:	Oracle Database		
WLS Schema [STEP_WLS_RU]	Database <u>C</u> onnect String:	// <hostname> 1/ACMEB</hostname>	PUBLISHER	
MDS Schema [STEP_MDS]	DBA User Name:	no control		
OPSS Schema (STEP_OPSS)	voor Hallie.	User with "DBA" privileges.		
IAU Schema [STEP_IAU]	DB <u>A</u> Password:			
BIPLATFORM Schema [STEP_				
STB Schema [STEP_STB]		Connect		
Readiness Summary	<u>S</u> chema User Name:	STEP_MDS		
Readiness Check	Schema <u>P</u> assword:	•••••		
End of Readiness				
	Connection to database	successfully completed		

# Component- OPSS Schema (STEP\_OPSS)

For the Component- OPSS Schema (STEP\_OPSS), keep the fields identified with default values and change any of the fields as required below

### Table 5-3 Component- OPSS Schema

Fields	Description
Database Type	(Default) Oracle Database



Fields	Description
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA username	nncentral
DBA password	Enter the password for Oracle Database
Schema username	(Non-editable) STEP_OPSS
Schema password	(Default) Password for Schema is filled

Click Next.

# Component- IAU Schema (STEP\_IAU)

For the Component- IAU Schema (STEP\_IAU), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- See the table to view the descriptions of the fields on the Component- IAU Schema (STEP\_IAU):

Table 5-4	Component- IAU Schema	(STEP_IAU)
-----------	-----------------------	------------

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_IAU
Schema password	(Default) Password for Schema is filled

3. Click Next.

# Component- BIPLATFORM Schema (STEP\_BIPLATFORM)

For the Component- BIPLATFORM Schema (STEP\_BIPLATFORM), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- 2. See the table to view the descriptions of the fields on the Component- BIPLATFORM Schema (STEP\_BIPLATFORM):

#### Table 5-5 Component- BIPLATFORM Schema (STEP\_BIPLATFORM)

Fields	Description
Database Type	(Default) Oracle Database



Fields	Description
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_BIPLATFORM
Schema password	(Default) Password for Schema is filled

#### Table 5-5 (Cont.) Component- BIPLATFORM Schema (STEP\_BIPLATFORM)

3. Click Next.

## Component- STB Schema (STEP\_STB)

For the Component- STB Schema (STEP\_STB), keep the fields identified with the default values.

- 1. Change any of the fields as required below:
- 2. See the table to view the descriptions of the fields on the Component- STB Schema (STEP\_STB):

#### Table 5-6 Component- STB Schema (STEP\_STB)

Field	Description
Database Type	(Default) Oracle Database
Database Connect String	(Non-editable) <hostname>:1521:ACMEPUBLISHER</hostname>
DBA user name	nncentral
DBA password	Enter the password for Oracle Database
Schema user name	(Non-editable) STEP_STB
Schema password	(Default) Password for Schema is filled

3. Click Next.

### Reviewing the Status in the Examine Screen

On the **Examine** screen, review the status of the Upgrade Assistant as it examines each schema, verifying that the schema is ready for upgrade

1. If the status in the Examine screen shows Examine finished, click Next.



xamine			
Welcome	This table shows the status of the examination	process.	Elapsed time: 00:00:0
All Schemes		100%	
Component List	Examine finished.		
Prerequisites	Component Name	Source Version	Status
WLS Schema (STEP_WLS_RU	Oracle WebLogicServer [STEP_WLS_RUNTIM	E] 12.2.1.0.0	upgrade not necess
MDS Schema (STEP_MDS)	<ul> <li>Oracle Metadata Services [STEP_MDS]</li> </ul>	12.2.1.1.0	ready for upgrade
OPSS Schema (STEP_OPSS)	✓ Oracle Platform Security Services [STEP_O	PSS 12.2.1.0.0	upgrade not necess.
IAU Schema (STEP_IAU)	<ul> <li>Oracle Audit Services [STEP_IAU]</li> </ul>	12 2 1 2 0	upgrade not necess.
BIPLATFORM Schema (STEP	✓ Oracle Business Intelligence Schema (STE)	P_BIF 12.2.1.2.0	ready for upgrade
STB Schema (STEP_STB)	Common Infrastructure Services [STEP_ST	8] 12.1.3.0.0	ready for upgrade
Examine			
Upgrade Summary			
Upgrade Progress			
End of Upgrade			

Figure 5-5 Review the Status in the Examine Screen

- 2. On the **Upgrade Summary** screen, review the summary of the schemas that are being upgraded and/or created.
- 3. Click Upgrade.
- 4. On the **Upgrade Progress** screen, monitor the status of the upgrade.
- 5. Click Next.

Figure 5-6 Upgrade Progress Screen



6. If the upgrade is successful, on the **Upgrade Success** screen, click **Close** to complete the upgrade and close the wizard.



Jpgrade Success	
Version Versi	♥ Upgrade Succeeded     Upgrade Locations     Log Pirk, Monetvact/Upracle/Holdeware/Oracle_Home1Joracle_common/Upgrade/dog4uat     Components Upgraded Successfully     Gracele Netadata Sarvices SITEP_MOS     Successfully     Gracele Deutoess Intellingence Schema (STEP_BIGUATORN)     Lochema STEP_MOS was upgraded from version 12.2.1.0 to 12.2.1.0     Gracele Deutoess Intellingence Schema (STEP_BIGUATORN)     Lochema STEP_BIFLATFORM was upgraded from version 12.2.1.2 to 12.2.1.4 0     Gracele Deutoess Intellingence     Component Upgrades Intellingence     Gracele NetWebugGterver (STEP_WS_PUNTNE)     Lochema STEP_VS_PUNTNE(     Locgenent Upgrade Intellingence)     Gracele Raiform Security Schema STEP_VS_SUNTNE(     Locgenent Upgrade Int Recessary     Lochema Enter_Schema STEP_VS_SUNTNE(     Locgenent Upgrade Inter_Schema STEP_VS_SUNTNE(     Locgenent Upgrade Intercessary     Lochema Enter_Schema STEP_VS_SUNTNE(     Locgenent Upgrade Intercessary     Locgenent     Locgenent Intercessary     Locgenent     Locgenent Intercessary

### Figure 5-7 Upgrade Success Screen

## Backing Up the mapViewerConfig.xml File

From Oracle User, go to the path where mapViewerConfig.xml file is present, and create a new file and copy the existing mapViewerConfig.xml file to the backup file.

```
[oracle@vm]$ cd /home/oracle/Oracle/Middleware/Oracle_Home/
oracle_common/modules/oracle.mapviewer/conf/
[oracle@vm conf]$ cp mapViewerConfig.xml mapViewerConfig bckp.xml
```

### Backing up the BI Domain

From Oracle User, go to the path where bi domain is present, and create a new folder and copy the existing bi domain to the backup folder.

```
[oracle@vm]$ cd /home/oracle/Oracle/Middleware/Oracle_Home/
user_projects/domains
[oracle@vm domains]$ cp -r bi bi bckp
```

### Note:

Verify that the backed up versions of the domain are complete.

# Reconfiguring Oracle BI Domain with the Reconfiguration Wizard

Run the Reconfiguration Wizard to reconfigure your domain component configurations to 12c (12.2.1.4.0).



1. As the Oracle user, go to the folder: oracle common/common/bin:

[oracle@vm]\$ cd \$NEW\_ORACLE\_HOME/oracle\_common/common/bin

2. Start the Reconfiguration Wizard with the following logging options:

```
[oracle@bin]$ ./reconfig.sh -log=log file -log priority=ALL
```

where the log\_file is the absolute path of the log file you want to create for the domain reconfiguration session. This is helpful if you need to troubleshoot the reconfiguration process.

3. On the **Select Domain** screen, specify the location of the domain you want to upgrade or click **Browse** to navigate and select the domain directory and click **Next**.

Give the existing Domain Location as-

/home/oracle/Oracle/Middleware/Oracle Home/user projects/domains/bi/

Figure 5-8 Select Domain screen

Select Domain           Stebs Progress           Second Summary           Domain Mode and JDK.           Advanced Cenfiguration           Configuration Summary           Reconfiguration Progress           End Of Configuration           Of Configuration           Warring: Verify the location of the domain that you want to upgrade. Enter the full path to the domain for example, Advaniant/mydomain, or use the Browse button to nexigate to and select the domain directory.           Warring: Verify that domin server and all collocated managed servers are shut down before           Disting Domain Location:         SeleRHiddlemare/Oracle_Home/Liser_projects/domains/fbill           Envirol         Envirol	Select Domain	
	Select Denain Stup Progress Beconfig Summary Domain Mode and DK Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration	Specify the location of the domain that you want to upgrade. Enter the full path to the domain, for secondle, /domains/mydomain, or use the Browse button to newjate to and select the domain directory. <b>Waning:</b> Verify that admin server and all collocated managed servers are shut down before proceeding further. Edisting Domain Location: Ele/Middleware/Oracle_HomeJuser_projects/domains/bive

- 4. On the **Reconfiguration Setup Progress** screen, view the progress of the setup process. After completion, click **Next**.
- 5. On the Reconfiguration Summary screen, click Next.

### Domain Mode and JDK

Select the JDK to use in the domain

- On the Domain Mode and JDK screen, select the JDK to use in the domain or click Browse to navigate to the JDK file you want to use.
- 2. Click Next.

### Note:

The supported JDK version for 12c (12.2.1.4.0) is 1.8.0\_131 and later.



Select Domain Select Domain Select Domain Select Domain Seconds Summary Demain Mode  Development Usities bods properties for username and pass Port Det Porty of a username and passes Port Det Porty of a username and passes	ssword, and poll for application	ons to deploy.
Identifiates     Component Datasources       Component Datasources     Egrade HotSpot 1.8 0_931 /homestreadap61.8       Condentifiation     Other JOK Location:       Condentifiation     Other JOK Location:	10_301	Browse

### Figure 5-9 Domain Mode and JDK

For a list of JDKs that are supported for a specific platform, see Oracle Fusion Middleware Supported System Configurations.

### JDBC Data Sources

Configure the JDBC Data sources defined in your domain source.

 On the JDBC Data Sources screen, configure the JDBC Data sources defined in your domain source. Select the check boxes for ocsrm and wlsservices\_datasource. The following information is filled-in by default.

Fields	Description
Vendor	(Default) Oracle
Driver	(Default) Varies among data sources
DBMS/Service	(Default) Varies among data sources
Port	(Default) Varies among data sources
Username	(Default) Varies among data sources
Password	(Default) Varies among data sources
Password	(Default) varies among data sources

Table 5-7 JDBC Data Sources

DBC Data Sources						$\bigcirc$
Select Domain Setup Progress Reconfig Summary Domain Mode and JDK Datasources JDBC DS Test Database Configuration Type Component Datasources JDBC Test	Vendor: Oracle • Connection Paramet Host Name: <a href="https://www.hostname">hostname</a> DBMS/Service: <a href="https://www.hostname">Varies Username: <a href="https://www.hostname">Varies Oracle RAC configuration Oracle RAC configuration</a></a>	ers Connect among data P ong data sou P on for data source GridLink Con	Priver: Varies am tion URL String Fort: Varies amo assword: Varies es: nvert to RAC multi	ng data so s among da i data sour	urces urces ata sources ce O Don't	convert
Credentials Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration	Edits to the data above Data Source Corrm Wisservices_datase	will affect all che DBMS/Service ocsdmdw DU ACMEBIPUBLI	cked rows in the Host Name ! <hostname> <hostname></hostname></hostname>	Port Port 1522 1521	v. Username ocsremdw STEP_WLS_RL	Password

#### Figure 5-10 Datasources

2. Click Next.

### Note:

If you do not select any datasources on the **JDBC Data Sources** screen, the following warning displays: Missing Driver. Click **Ok** to proceed without verification, click **Cancel** to return to the JDBC Data Sources page. In this case, if you click **OK**, the datasources are not verified.

3. On the JDBC Datasources Test screen, select the check box for the data source connection you configured on the JDBC Data Sources screen and click Test Selected Connections to test the datasource connection, and.

### Note:

To test the database connections, the database to which you are connecting must be running. If you do not want to test the connections at this time, do not select any datasources. Click **Next** to continue.

### Database Configuration Type

Enter the database connection details.

**1.** On the **Database Configuration Type** screen, the fields are automatically populated.



- Otherwise select RCU Data to connect to the Server Table (\_STB) schema.
- 2. Enter the database connection details using the RCU service table (\_STB) schema credentials as follows:

Fields	Description
Vendor	(Default) Oracle
Driver	(Default) *Oracle's Driver (Thin) for Service connections: Versions: Any
Host Name	(Default) <hostname></hostname>
DBMS/Service	(Default) ACMEBIPUBLISHER
Port	(Default) 1521
Schema Owner	(Default) STEP_STB
Schema Password	(Default) Password for Schema is filled

### Table 5-8 Database Configuration Type

#### Figure 5-11 Database Configuration Type

Fusion Mide Database Configuration 1	dleware Reconfiguration Wizard - Page 7 of 14 (on sdm83) ×  Type  Type Type
Select Domain Setup Progress Reconfig Summary Domain Mode and JDK Datasources JDBC DS Test Database Configuration Ty Component Datasources JDBC Test Credentials Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration	Specify AutoConfiguration Options Using:
Help	< Back Next > Enish Cancel

- 3. Click **Get RCU Configuration**. The Reconfiguration Wizard uses this connection to automatically configure the data sources required for components in your domain.
- 4. On the **Component Datasources** screen, click **Next**.

Setup Progress	venuor.	T Dr	river:			
	Connection Param	neters O Connect	tion URL String			
Reconfig Summary	Contraction	0.000				
Domain Mode and JDK	Host Name:					
Datasources	DBMS/Service:	P	ort:			
DBC DS Test	Schema Owner:	S	chema Passwon	d:		
Database Configuration Ty	/pe					
Component Datasource	Oracle RAC configura	ation for component a	schemas:			
IDBC Test	O Convert t	:o GridLink 🛛 🔿 Con	vert to RAC mult	i data sou	irce 🔿 Don'	t convert
Advanced Configuration	Component Sch	ema DBMS/Service	Host Name	Port	Schema Ow	Schema Pas
Configuration Summary	LocalSvcTbl Sch	ema ACMEBIPUBLI	<hostname></hostname>	1521	STEP_STB	
	WLS Schema	ACMEBIPUBLI		1521	STEP_WLS_RL	
Reconfiguration Progress	DID Caleston	ACMEDIDUDU		1521	STEP BIPLAT	
Reconfiguration Progress End Of Configuration	BIP Schema	ACMEBIPUBLI		1521	STEP_DIPEKT	
Reconfiguration Progress End Of Configuration	BIP Schema OWSM MDS Sche OPSS Audit Sche	ACMEBIPUBLI ama ACMEBIPUBLI		1521	STEP_MDS	
Reconfiguration Progress End Of Configuration	BIP Schema OWSM MDS Sche OPSS Audit Sche	ACMEBIPUBLI ema ACMEBIPUBLI ema ACMEBIPUBLI er S ACMEBIPUBLI		1521 1521 1521	STEP_MDS STEP_IAU_AP STEP_IAU_VIE	·····
Reconfiguration Progress	BIP Schema OWSM MDS Sche OPSS Audit Sche OPSS Audit View OPSS Audit View	ACMEBIPUBLI ema ACMEBIPUBLI ema ACMEBIPUBLI err S ACMEBIPUBLI		1521 1521 1521	STEP_MDS STEP_IAU_AP STEP_IAU_VIE	······

### Figure 5-12 Component Datasources

### JDBC Test

Select all the component schemas and test the connection for each schema.

- On the JDBC Test screen, select all the component schemas and click Test Selected Connections to test the connection for each schema. The result of the test is indicated in the Status column
- 2. After completion of the check, click **Next**.

### Credentials

Enter the username and provide the password.

- 1. In the **Credentials** screen, enter the username as nncentral and provide the password.
- 2. Click Next.



			FUSION MIDE	
Select Domain Setup Progress	🛉 Add 💥 🛙	elete		🔊 Disgard Change
Reconfig Summary	Key Name	Username	Password	Store Name
Domain Mode and JDK	jms.queue.auth	nncentral	•••••	oracle.bi.system
Datasources				
IDBC DS Test				
Database Configuration Type				
Component Datasources				
IDBC Test				
Credentials				
Advanced Configuration				
Advanced Configuration Configuration Summary				
Advanced Configuration Configuration Summary Reconfiguration Progress				
Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration				
Advanced Configuration Configuration Summany Reconfiguration Progress End Of Configuration				
Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration				
Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration				
Advanced Configuration Configuration Summary Reconfiguration Progress End Of Configuration				

#### Figure 5-13 Crendentials

- 3. On the Advanced Configuration screen, select none of the options
- 4. Click Next.
- 5. On the **Configuration Summary** screen, review the detailed configuration settings of the domain before continuing, click **Reconfig**.

### Figure 5-14 Configuration Summary



- 6. The **Reconfiguration Progress** screen displays the progress of the reconfiguration process.
- 7. When the progress bar shows 100%, click Next.
- 8. The End of Configuration screen indicates whether the reconfiguration process completed successfully or failed.
- 9. Click Finish.





Figure 5-15 End of Configuration

## **Upgrading Domain Component Configurations**

After reconfiguring the domain, use the Upgrade Assistant to upgrade the domain component configurations in the domain to match the updated domain configuration.

To upgrade the 12.2.1.4.0 domain:

1. Go to the directory oracle common/upgrade/bin of the new oracle home:

```
[oracle@vm]$ cd $NEW_ORACLE_HOME/oracle_common/upgrade/bin
[oracle@vm bin]$ ./ua
```

- 2. On the **Welcome** screen, review the introduction to the Upgrade Assistant and information about important pre-upgrade tasks, and click **Next**.
- 3. On the next screen:
  - a. Select All Configurations Used By a Domain.
  - **b.** In the **Domain Directory** field, enter the WebLogic domain directory path as given below, and click **Next**.:

/home/oracle/Oracle/Middleware/Oracle Home/user projects/domains/bi/





Figure 5-16 All Configurations

- 4. On the **Component List** screen, verify that the list includes all the components for which you want to upgrade configurations and click **Next**.
- 5. On the **Prerequisites** screen, acknowledge that the prerequisites have been met by selecting all the check boxes. Click **Next**.
- 6. On the **Examine** screen, review the status of the Upgrade Assistant as it examines each component, verifying that the component configuration is ready for upgrade. If the status is Examine finished, click **Next**.

Figure 5-17 Examine Screen

Examine		
Walcome	This table shows the status of the examination process.	Elapsed time: 00.00.3
All Configurations	100%	
Component List	Examine finished.	
Prerequisites	Component Name	Status
🖕 Examine	Oracle BI Shared Files	ready for upgrade
Upprade Summary	🔮 Oracle JRF	upgrade not necess
	Oracle BI Services Files	upgrade not necess
	Oracle BI Rebase Service	upgrade not necess
	<ul> <li>Oracle BIP Config Files</li> </ul>	ready for upgrade
	System Components Infrastructure	upgrade not necess
	Oracle Web Services Manager	ready for upgrade
	✓ Oracle BI ODBC	ready for upgrade

7. On the **Upgrade Summary** screen, review the summary of the options you have selected for component configuration upgrade.





Figure 5-18 Upgrade Summary screen

- 8. Click **Upgrade** to start the upgrade process.
- 9. On the **Upgrade Progress** screen, monitor the status of the upgrade. The progress bar on this screen displays the progress of the current upgrade procedure, and click **Next**.
- If the upgrade is successful, on the Upgrade Success screen, click Close to complete the upgrade and close the wizard.

### Starting the Servers and Processes

This seciton contains information on how to Start the Fusion Middleware environment and Oracle BI instance and servers.

To start the Fusion Middleware environment and Oracle BI instance and servers:

**1.** As oracle user, go to the path:

```
[oracle@vm]$ cd /home/oracle/Oacle/Middleware/Oracle_Home/user_projects/
domains/bi/bitools/bin
```

2. Run this command:

[oracle@bin]\$ ./start.sh

