# Oracle® Health Sciences Pharmacovigilance Operational Analytics

Installation Guide Release 1.0 **E23555-01** 

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Oracle Health Sciences Pharmacovigilance Operational Analytics Installation Guide, Release 1.0

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# Preface

Oracle Health Sciences Pharmacovigilance Operational Analytics (OPVA) is an analytical reporting application. OPVA extracts data from Oracle Argus Safety, providing a data warehouse containing key metrics across the pharmacovigilance business process. From this warehouse, OPVA provides key pre-defined reports, and enables the creation of additional custom reports. OPVA also includes reports that run against the source database, thereby providing an up to date data analysis.

In addition to Argus Safety, OPVA requires the presence of Informatica PowerCenter, Oracle Business Intelligence Data Warehouse Administration Console (DAC), Oracle Business Intelligence Enterprise Edition (OBIEE), and Oracle Database.

# Audience

Installing OPVA requires a level of knowledge equivalent to having mastered the material in Oracle's DBA Architecture and Administration course. You must be able to read and edit SQL\*Plus scripts. You must be able to run SQL scripts and review logs for Oracle errors.

Installing and maintaining Oracle Pharmacovigilance Analytics requires the following skill set across a variety of platforms including Linux, Unix, Solaris and Microsoft:

- Creating and managing user accounts, groups, and access
- Installation and maintenance of Oracle RDBMS
- Installation and maintenance of Informatica PowerCenter
- Installation and maintenance of Oracle Business Intelligence Enterprise Edition 11g
- Installation and maintenance of Oracle Datawarehouse Administration Console 11g
- Installation and maintenance of OAM
- Installation and maintenance of Oracle Weblogic 10.3.5
- Managing OS Environment, services, and network

# **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

#### Access to Oracle Support

Oracle customers 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.

# Finding Information and Patches on My Oracle Support

Your source for the latest information about Oracle Health Sciences Pharmacovigilance Operational Analytics is Oracle Support's self-service Web site, My Oracle Support (formerly MetaLink).

Always visit the My Oracle Support Web site for the latest information, including alerts, release notes, documentation, and patches.

## Getting the OPVA Standard Configuration Media Pack

The OPVA media pack is available both as physical media and as a disk image from the Oracle E-Delivery Web site. The media pack contains the technology stack products and the OPVA application. To receive the physical media, order it from Oracle Store at https://oraclestore.oracle.com.

To download the OPVA media pack from eDelivery, do the following:

- 1. Navigate to http://edelivery.oracle.com and log in.
- 2. From the Select a Product Pack drop-down list, select Health Sciences.
- 3. From the Platform drop-down list, select the appropriate operating system.
- 4. Click Go.
- **5.** Select Oracle Health Sciences Pharmacovigilance Operational Analytics Media Pack for Operating System and click Continue.
- 6. Download the software.

### Creating a My Oracle Support Account

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- 1. Open a Web browser to http://support.oracle.com.
- **2.** Click the **Register here** link to create a My Oracle Support account. The registration page opens.
- **3.** Follow the instructions on the registration page.

### Signing In to My Oracle Support

To sign in to My Oracle Support:

- 1. Open a Web browser to http://support.oracle.com.
- 2. Click Sign In.
- 3. Enter your user name and password.
- 4. Click Go to open the My Oracle Support home page.

## Searching for Knowledge Articles by ID Number or Text String

The fastest way to search for product documentation, release notes, and white papers is by the article ID number.

To search by the article ID number:

- 1. Sign in to My Oracle Support at http://support.oracle.com.
- 2. Locate the Search box in the upper right corner of the My Oracle Support page.
- **3.** Click the sources icon to the left of the search box, and then select Article ID from the list.
- 4. Enter the article ID number in the text box.
- **5.** Click the magnifying glass icon to the right of the search box (or press the Enter key) to execute your search.

The Knowledge page displays the results of your search. If the article is found, click the link to view the abstract, text, attachments, and related products.

In addition to searching by article ID, you can use the following My Oracle Support tools to browse and search the knowledge base:

- Product Focus On the Knowledge page, you can drill into a product area through the Browse Knowledge menu on the left side of the page. In the Browse any Product, By Name field, type in part of the product name, and then select the product from the list. Alternatively, you can click the arrow icon to view the complete list of Oracle products and then select your product. This option lets you focus your browsing and searching on a specific product or set of products.
- Refine Search Once you have results from a search, use the Refine Search options on the right side of the Knowledge page to narrow your search and make the results more relevant.
- Advanced Search You can specify one or more search criteria, such as source, exact phrase, and related product, to find knowledge articles and documentation.

### Finding Patches on My Oracle Support

Be sure to check My Oracle Support for the latest patches, if any, for your product. You can search for patches by patch ID or number, or by product or family.

To locate and download a patch:

- 1. Sign in to My Oracle Support at http://support.oracle.com.
- 2. Click the Patches & Updates tab.

The Patches & Updates page opens and displays the Patch Search region. You have the following options:

- In the Patch ID or Number is field, enter the primary bug number of the patch you want. This option is useful if you already know the patch number.
- To find a patch by product name, release, and platform, click the Product or Family link to enter one or more search criteria.
- 3. Click Search to execute your query. The Patch Search Results page opens.
- **4.** Click the patch ID number. The system displays details about the patch. In addition, you can view the Read Me file before downloading the patch.
- **5.** Click **Download**. Follow the instructions on the screen to download, save, and install the patch files.

## **Finding Certification Information**

Certifications provide access to product certification information for Oracle and third party products. A product is certified for support on a specific release of an operating system on a particular hardware platform, for example, Oracle Database 10g Release 2 (10.2.0.1.0) on Sun Solaris 10 (SPARC). To find certification information:

- 1. Sign in to My Oracle Support at http://support.oracle.com.
- **2.** Click the **Certifications** tab. The Certifications page opens and displays the Find Certifications region.
- **3.** In Select Product, enter Oracle Health Sciences Pharmacovigilance Operational Analytics.
- **4.** Click the Go to Certifications icon.

The right pane displays the certification information.

**5.** Select a certification to view the certification details.

# **Related Documents**

For more information, see the following documents:

The Oracle Business Intelligence Data Warehouse Administration Console (DAC) documentation set includes:

- Data Warehouse Administration Console User's Guide (Part E12652)
- Oracle Business Intelligence Data Warehouse Administration Console Installation, Configuration, and Upgrade Guide (Part E12653)

The Oracle Fusion Middleware documentation set includes:

- Oracle Fusion Middleware Quick Installation Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E16518-02)
- Oracle Fusion Middleware Installation Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10539-02)
- Oracle Fusion Middleware Upgrade Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E16452-02)
- Oracle Fusion Middleware Enterprise Deployment Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E15722-02)
- Oracle Fusion Middleware User's Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10544-02)
- Oracle Fusion Middleware System Administrator's Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10541-02)
- Oracle Fusion Middleware Developer's Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10545-02)
- Oracle Fusion Middleware Security Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10543-03)
- Oracle Fusion Middleware Metadata Repository Builder's Guide for Oracle Business Intelligence 11g Release 1 (11.1.1) (E10540-02)

# **Known Installation and Configuration Issues**

Oracle maintains a list of installation and configuration issues that you can download from My Oracle Support (MOS). For information about these issues, please see Note ID 1326918.1.

# Conventions

The following text conventions are used in this document:

Convention	Meaning					
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.					
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.					
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.					

# **OPVA Requirements**

# **1.1 Requirements**

This section presents an overview of the Oracle Health Sciences Pharmacovigilance Operational Analytics (OPVA) architecture, required hardware and software, and dependencies across the components. Before you begin the installation, confirm that your environment meets hardware and software requirements described in this section.

## 1.1.1 Technology Stack and System Requirements

The requisite technology stack for OPVA is provided in the media pack, with the exception of Informatica products. It consists of the following products:

## 1.1.1.1 Server Components

**1.1.1.1 OPVA Database Server** OPVA is certified for Oracle Database Enterprise Edition 11.2.0.1. It supports Oracle Database Enterprise Edition 11.2.0.2 as well.

## **Supported Operating System**

- Oracle Enterprise Linux 5 or above (32/64 bit)
- Oracle Sun Solaris 10 (64 Bit)
- Microsoft Windows Server 2008 R1 with SP1 or above (32/64 bit)
- Microsoft Windows Server 2008 R2 (64 bit)
- Memory: RAM 4-16 GB (based on organization size), HDD at least 500 GB free space
- CPU: At least 4 Dual Core CPUs

**1.1.1.2 OPVA Informatica Server** OPVA is certified against Informatica PowerCenter 9.0.1 with Hotfix2. Refer Informatica PowerCenter installation guide for recommended hardware and supported platforms. OPVA has got certified the following:

- Operating System: Oracle Enterprise Linux 5 or above (32/64 bit)
- Memory: RAM at least 8 GB. HDD at least 250 GB free space
- CPU: At least 4 Dual Core CPUs

**1.1.1.1.3 OPVA OBIEE Server** OPVA is certified against Oracle Business Intelligence Enterprise Edition 11.1.1.5.0. Please refer the installation manual of OBIEE for further hardware and software requirements OPVA would recommend the following:

### **Operating System**

- Microsoft Windows Server 2008 R1 with SP1 or above (32/64 bit)
- Microsoft Windows Server 2008 R2 (64 bit)
- Oracle Enterprise Linux 5 or above (32/64 bit)
- Oracle Sun Solaris 10 (64 Bit)

**Note:** If unix based OS is used for the OBIEE server, then the OBIEE Admin tool must be installed separately on a Windows box.

- Memory: RAM at least 8 GB, HDD at least 250 GB free space
- CPU: At least 4 Dual Core CPUs

**1.1.1.1.4 OPVA Datawarehouse Administration Console Server** OPVA requires Oracle Datawarehouse Administration Console Server 10.1.3.4 with patch 12381656.

### Supported Operating System

- Oracle Enterprise Linux 5 or above (32/64 bit)
- Oracle Sun Solaris 10 (64 Bit)
- Microsoft Windows Server 2008 R1 with SP1 or above (32/64 bit)
- Microsoft Windows Server 2008 R2 (64 bit)
- Memory: RAM 4-16 GB (based on organization size), HDD at least 500 GB free space
- CPU: At least 2 Dual Core CPUs

## 1.1.1.2 Client Components

### 1.1.1.2.1 Oracle Database Client

- OPVA requires Oracle database client to connect to the database server. The supported client software version is 11.2.0.1.
- Supported Operating System: Microsoft Windows Server 2008 R1 with SP1 or above (32 bit)

### 1.1.1.2.2 Oracle Datawarehouse Administration Console Client

- OPVA requires Oracle Datawarehouse Administration Console Client 10.1.3.4 with patch 12381656.
- Supported Operating System: Microsoft Windows Server 2008 R1 with SP1 or above (32 bit)

### 1.1.1.2.3 Informatica PowerCenter Client

• An Informatica PowerCenter Client 9.0.1 with Hotfix 2 is required to connect to the Informatica Server.

 Supported Operating System: Microsoft Windows Server 2008 R1 with SP1 or above (32 bit)

### 1.1.1.2.4 OBIEE Admin Tool

- OBIEE Admin tool 11.1.1.5.0 must be installed for configuring the repository file (RPD).
- Supported Operating System: Microsoft Windows Server 2008 R1 with SP1 or above (32/64 bit)

**1.1.1.2.5 Optional Security Component** You can also configure Single Sign on Support for your reports and dashboards using Oracle Access Manager 10.1.4. For more information regarding the Oracle Access Manager installation and supported platforms, please refer the *Oracle Access Manager Installation Guide*.

### 1.1.1.2.6 Miscellaneous Components

- For running the reports and dashboards, your machine should have the Adobe Flash Player 10 or above installed.
- Although OBIEE 11.1.1.5.0 reports are supported in Microsoft Internet Explorer, Firefox and Safari, OPVA is certified only for Microsoft Internet Explorer 7.0 and 8.0 only.

## 1.1.1.3 Supported Sources

OPVA, by default, supports only Oracle Argus Safety. It supports the following Oracle Argus Safety versions:

- Oracle Argus Safety 7.0
- Oracle Argus Safety 6.0.2

Customers can add customer data sources to the application by adding their own ETL. For more information about customizing OPVA, please refer to the Oracle Health Sciences Pharmacovigilance Operational Analytics Administrator and User Guide.

## 1.1.1.4 Technology Stack Matrix

The following table displays the technology stack matrix diagram of all the components of OPVA.

Specification	OBIEE Server	Database	Informatica Server	DAC Server *	Install / Admin Machine *	Client
Operating System	2008 with SP1 Server 2008 with SP1 2008 with SP1		Windows Server 2008 with SP1	Windows 32 bit	Windows XP Pro SP3	
	or above (32/64 Bit)	SP 1 or	or above (32/64 Bit)	or above (32 Bit)		Windows 7
	Windows Server 2008 R2 (64 Bit)	above (32/64 Bit)	Windows Server 2008 R2 (64 Bit)			
	Oracle Enterprise Linux 5 (32/64 Bit)	Windows Server 2008 R2 (64 Bit)	Oracle Enterprise Linux 5 (32/64 Bit)			
	Oracle Sun Solaris 10 (64 Bit)	Oracle Enterprise Linux 5 (32/64 Bit)	Oracle Sun Solaris 10 (64 Bit)			
		Oracle Sun Solaris 10 (64 Bit)				
Oracle Database		11.2.0.1.0 (Enterpris e)- AL32UTF 8 char set	11.2.0.1 Client		11.2.0.1 Client	
OBIEE Server	OBIEE 11.1.1.5.0	o chai set				
	OBIEE 11.1.1.5 Admin Tool*				OBIEE 11.1.1.5 Admin Tool	
Informatica			Informatica Server 9.0.1 + HF2	Informatica Client 9.0.1 + HF2	Informatica Client 9.0.1 + HF2	
DAC			DAC Server 10.1.3.4.1 + Patch 12381656	DAC Server & Client 10.1.3.4.1 + Patch 12381656	DAC Client 10.1.3.4.1 + Patch 12381656	
Browser						IE 7.0 (latest) or
						IE 8.0 (latest)
Adobe Flash Player						Flash Player 10 or above

### \* DAC

DAC Server needs to be installed on a machine where Informatica home is present. DAC Server can be installed on the same machine where Informatica Server is located; there is no need that it should be a stand-alone server.

### \* OBIEE

OBIEE Admin tool can be installed along with the OBIEE Server, provided the Operating System is Microsoft Windows.

### **Supported Security Configuration**

OPVA supports the following optional security configurations:

- LDAP/LDAPS 3.0
- Single Sign On Solution through Oracle Access Manager 10.1.4

**Note:** If OAM is used, then the OBIEE Server must have Oracle Enterprise WebGate 10.1.4.3 and Oracle Web Tier 11g installed.

#### 1.1.1.5 Typical Hardware Architecture

A typical OPVA installation contains the following hardware architecture:

- Servers:
  - An Oracle Database server with Oracle Database 11.2.0.1
  - An Informatica PowerCenter 9.0.1 with Hotfix 2 Server + DAC Server 10.1.3.4 with patch 12381656
  - An OBIEE 11.1.1.5 Server

**Note:** The above three boxes can run on any of the supported platforms: Linux/Solaris/Windows.

- Clients:
  - An Informatica PowerCenter Client 9.0.1 + Hotfix 2
  - Oracle Database Client 11.2.0.1
  - DAC Client 10.1.3.4 with patch 12381656
  - OBIEE Admin tool

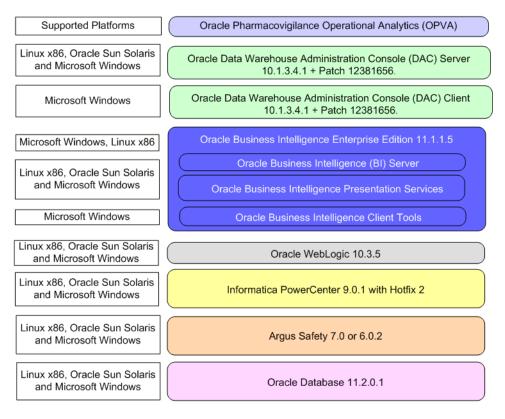
**Note:** All tools can be installed in a single Microsoft Windows 32 bit box.

If the OBIEE server mentioned under the "Servers" section is a Windows 32 bit server, then all the clients can be installed in the same box itself.

If the OBIEE Server is installed on a Windows 64 bit machine, then the OBIEE Admin tool can also be installed along with the server itself.

Informatica PowerCenter and Oracle Database Client should be available in the same machine for OPVA installer to run.

**Note:** It is important to get the technology stack products from the OPVA media pack because newer versions of the technology stack products may have become available but may not be compatible with OPVA.



# Figure 1–1 Oracle Health Sciences Pharmacovigilance Operational Analytics Technology

## 1.1.1.6 Installation Process Overview

The following steps describes the overview of the installation process:

- Follow the steps described in Section 1.1.2, "Prerequisites".
- Execute the installer to create the datamart and Informatica ETLs.
- Follow the post installation steps to configure DAC and OBIEE

For more information about certifications, refer to "Finding Certification Information".

## 1.1.2 Prerequisites

Before proceeding with the installation, ensure the following software is available.

 An Oracle Database Server – An Oracle 11.2.0.1 database server should be created before OPVA installation. Follow the platform specific Database Installation Guide for installing this server.

**Note:** The database server should be configured with AL32UTF8 charset.

 An Informatica PowerCenter Server – An Informatica PowerCenter 9.0.1 + HF2 should be created before running the OPVA Installer. Follow platform specific Informatica PowerCenter Installation.

#### Note:

- Informatica Server needs a repository database. Customer can either use the database created in previous step or can create a new database for holding the repository. A PowerCenter repository should be created upon the installation of PowerCenter. This repository information along with the admin user credentials will be needed during OPVA installation.
- An Oracle 11.2.0.1 Client should be available in the Informatica server.
- A OBIEE Server An Oracle Business Intelligence Enterprise Edition 11.1.1.5.0 Server must be installed before the OPVA Installation. Follow platform specific OBIEE Installation Guide for installation instructions.
- A DAC Server An Oracle Datawarehouse Administration Console Server of version 10.1.3.4 with patch 12381656 needs to be installed on the same machine where Informatica client is loaded. Follow platform specific ODAC Installation Guide for installation instructions.

## 1.1.2.1 Client Tools

- An Informatica PowerCenter Client An Informatica PowerCenter Client 9.0.1 with Hotfix 2 must be present. Supported only on a Microsoft Windows 32 bit machine.
- An Oracle Database client An Oracle 11.2.0.1 database client should be present. This should be present in the same machine where the Informatica PowerCenter client is loaded.
- A DAC Client A DAC Client 10.1.3.4.1 with patch 12381656 needs to be present. Supported only on a Microsoft Windows Server 2008 with SP1 or above (32 bit).

#### Note:

 Oracle recommends that you enable HTTPS on the middle-tier computer that is hosting the BIEE Web services, since otherwise the trusted user name and password that are passed can be intercepted.

# Installing Oracle Pharmacovigilance Operational Analytics

**Note:** This installation assumes that assumes the typical hardware configuration with an Oracle database server, an Informatica PowerCenter server, and a Windows 2008 SP1 32 bit server with OBIEE Server & Admin Tool, DAC Server & Client, Informatica PowerCenter Client, and an Oracle Database Client.

All installation and configuration actions must be performed as an administrator or root user.

This section describes the detailed OPVA installation process. It also describes the pre and post OPVA installation tasks that you must complete for different environments. This section includes the following topics:

- Preinstallation Configuration
- Running the OPVA Installer
- Preparing the DAC Repository
- Configuring the OBIEE Repository and Webcatalog
- Configuring the OBIEE Help files
- Configuring SSO Using Oracle Access Manager
- Creating Users and Groups in OPVA
- Configuring SSL for OPVA in OBIEE
- OBIEE Default Application Roles

# 2.1 Preinstallation Configuration

Prior to running the OPVA Installer, the following tasks must be completed:

1. Configuring the Database server:

The TNS Names entry for the Argus Safety Source Database should be available in the database server where datamart is configured.

**2.** The TNS entries for the Datawarehouse Schema should be present in the OBIEE 11g home in the path:

<OracleBI Home>\Oracle\_BI1\network\admin\tnsnames.ora

**3.** Configuring the Informatica client:

The Informatica client should be configured to connect to the Informatica server. There should be an entry for the Informatica Domain in the domains.infa file.

- **4.** Setting up the Informatica environmental parameters.
  - INFA\_DOMAINS\_FILE: Full filename with the path to the domains file present in the Informatica Client Home.
  - Path: Add the first entry in the path as the path to the PowerCenter Client Bin and then for the commandlineUtilities bin folder as shown in the following example: D:\Informatica\9.0.1\clients\PowerCenterClient\client\bin;;D:\Informatica \9.0.1\clients\PowerCenterClient\CommandLineUtilities\PC\server\bin;...
- **5.** Configuring the oracle client:

The TNS names entry for both datamart and the Argus Safety Source system should be configured here.

6. Setting up the DAC client:

The DAC client should be configured to connect to the DAC server.

- **7.** Setting up the Oracle client home in the PATH variable.
- **8.** Setting up the SYSTEM user:

The SYSTEM user to be given grants to create view over the V\_\$SESSION view in order to run the installer.

Connect as "sys" on both the Argus Safety DB instance and the Datamart DB instance and execute this script:

grant select on v\_\$session to system with grant option;

**Note:** This grant can be revoked at a later time from the user system, once the installation is complete.

**9.** Setting up the tablespaces:

The installer creates new schemas in the datamart and prompts for the tablespaces to be used. It is recommended to create one default tablespace and a temporary tablespace to be used for the new schemas.

## 2.2 Running the OPVA Installer

The basic OPVA components are installed using the Oracle Universal Installer. The installer gathers all the information about the database connectivity, datamart, Informatica repository by presenting a sequence of prompt screens and then installs the components accordingly. This installer needs to be executed in the OPVA server where Oracle client and Informatica client are installed.

**Note:** Make sure that PERL is present in the system path before running the installer.

#### Launch the Universal Installer

- **1.** Extract the contents of the media pack into a temporary directory (For example, C:\opva\_temp).
- **2.** Navigate to the \install directory under the extracted temporary folder.
- **3.** Double-click the setup.exe file to launch the Oracle Universal Installer with the Welcome screen.

#### **Complete Running the OPVA Installer**

The installer will take you through a series of prompts. Attend to the Installer's prompts. The following sections describe each Installer screen, and the required action.

#### **OPVA Home Path**

The OPVA Home path is the location where all the staged files from the Installer will get copied to the local machine. This is also the location from where Installer would execute the database and Informatica scripts.

Example Name: OPVAHome1

Path: C:\OPVA

Click Next

#### **Argus Safety Database Details**

This screen collects all information about the source Argus Safety database. Supply the values for Argus Safety database connect string, Argus Safety schema, password, Argus Safety database's system user password, VPD schema name, OPVA source schema and password.

**Note:** OPVA Source schema is the new schema which would get created to store the views for all Argus Source tables that are needed for the ETL and reporting process.

Example:

AS Database Connect String: argus\_src

AS Schema: argus\_app

AS Password: <argus app user's password>

AS System Password: <system user's password>

VPD Schema: vpd\_admin

OPVA Source Schema: opva\_source

OPVA Source Password: <opva\_source password>

Click Next

#### **OPVA Datawarehouse Details**

This screen collects all the information regarding the OPVA data warehouse details. Details of the data warehouse connect string, data warehouse system user password, the dw schema, password, rpd schema and rpd schema password, and the dw and temp table spaces.

**Note:** DW schema is the new schema that would be created by the installer to store the ETL data. OPVA RPD schema is the schema which would contain the synonyms of all the datamart tables and used by OBIEE reports.

Tablespaces that are going to be specified here should have got created during the pre-installation steps.

Example:

DW Database Connect String: opva\_mart

DW System password: <system user's password of data warehouse database>

OPVA DW Schema: OPVA

OPVA DW Password: cpassword for OPVA schema>

OPVA RPD Schema: OPVA\_RPD

OPVA Rpd Password: cpassword for RPD schema>

DW Default table space: DW\_DFLT\_TS

DW Temporary tablespace: DW\_TEMP\_TS

Click Next

#### Informatica PowerCenter Details

This screen collects all information to connect to the Informatica server.

Example:

PowerCenter Repository: OPVA\_PowerCenter\_Reposiroty

PowerCenter Domain: Domain\_opva

PowerCenter Admin user id: Administrator

PowerCenter Admin password: <administrator password>

OPVA Import folder: OPVA

Click Next

#### Informatica PowerCenter Client Home Details

The Informatica PowerCenter client home path is required for the installer to run successfully.

Example:

D:\Informatica\9.0.1\clients\PowerCenterClient\client

Click Next

#### Summary Screen

Verify setting => details provided in the summary screen and click Install.

The installer will stage the required components into the OPVA home and would create the datamart schemas, rpd schemas.

At the completion of the install, install log could be found at:

<opva home>\install\opva\_install.log and pvadriverscript<timestamp>.log

## 2.3 Preparing the DAC Repository

**Note:** This section assumes that the DAC client is present in the same machine where the OPVA installer is run. If not, copy the <opva\_home>\DAC\opva.zip file into the machine where the DAC client is installed.

Execute the following steps that must be implemented after logging into the machine where DAC client is present and after unzipping the contents of the <opva\_home>\DAC\opva.zip file to an appropriate folder:

- 1. Create a new DAC repository, or connect to an existing DAC repository, as Administrator.
- 2. Import the OPVA Warehouse Application metadata.
  - a. Start the Data Warehouse Administration Console (DAC) client.
  - **b.** From the **Tools** menu select **DAC Repository Management**, and then select **Import**.
  - **c.** Click Change import/export folder to navigate to <DRIVE>:\OPVA\_ HOME\DAC folder that holds the DAC Repository for OPVA ETL.
  - d. Click OK to display the Import dialog box.
  - e. Select the following categories of metadata you want to import: Logical, Overwrite log file, and User Data.
  - f. Select **OPVA** application in the ApplicationList.
  - g. Click OK.
  - h. Click OK in the secondary window that is displayed after the import.
  - i. You can inspect the import log in  $DAC_INSTALL_DIR \ overify if import is successful.$
- 3. Configure Informatica Repository Service in DAC.
  - **a.** Navigate to the **Setup** view, then select the **Informatica Servers** tab.
  - **b.** Click **New** to display the Edit tab below or select an existing Informatica server from the list.

If you are configuring a new installation, the Informatica Servers tab will have some default values there for information. If you are upgrading an existing installation, the Informatica Servers tab might contain existing Informatica servers.

**c.** Enter values in the following fields:

**Name** — Enter the Logical name for the Informatica server (for example, INFO\_REP\_SERVER).

Type — Select Repository.

**Server Hostname** — Enter the host machine name where Informatica Server is installed.

**Server Port** — Enter the port number Informatica Server or Informatica Repository Server use to listen to requests.

**Login** — Enter the Informatica user login.

**Password** — Enter the Informatica Repository password.

**Repository Name**—Enter the Informatica Repository Name.

- **d.** Test the connection to verify the settings.
- e. Click Save to save the details.
- 4. Configure Informatica Integration Service in DAC.

**Note:** Make sure that you use the same Login and Password that you have used in setting up Informatica.

**a.** Click **New** to display the Edit tab below or select an existing Informatica server from the list.

If you are configuring a new installation, the Informatica Servers tab will have some default values there for information. If you are upgrading an existing installation, the Informatica Servers tab might contain existing Informatica servers.

**b.** Enter/edit values in the following fields:

**Name** — Enter the Logical name for the Informatica server (for example, INFO\_SERVER).

Type — Select Informatica.

**Domain** — Enter the Informatica domain name.

**Service** — Enter the Informatica Service Name.

**Login** — Enter the Informatica Repository user login.

**Password** — Enter the Informatica Repository password.

**Repository Name** — Enter the Informatica Repository Name.

- **c.** Test the connection to verify the settings.
- d. Click **Save** to save the details.
- **5.** In this step, you configure source databases (Argus Safety) and the target database (the OPVA warehouse). For each database with which DAC will interact for OPVA, perform the following steps:
  - **a.** Navigate to the **Setup** view, then select the **Physical Data Sources** tab.
  - **b.** Select the opva\_dwh entry to display the Edit tab below.
  - **c.** Enter values in the following fields:

**Name** — Keep the Logical name as opva\_dwh for the database connection.

**Type** — Select Source when you create the database connection for a transactional (OLTP) database. Select Warehouse when you create the database connection for a data warehouse (OLAP) database.

**Connection Type** — Select a connection type for the database connection.

**Instance or TNS Name** — Enter the Data Mart database instance name.

**Table Owner** — Enter the Data Mart schema name.

**Table Owner Password** — Enter the Data Mart schema password.

**DB Host** — Enter the Data Mart host name.

**Port** — Enter the Data Mart host port.

Data Sure Number – Enter the number 0.

- d. Test the connection to verify the settings.
- e. Click **Save** to save the details.
- f. Repeat the same steps after selecting the opva\_src database connection.
- **g.** Enter values for the following fields:

**Name** — Keep the Logical name as opva\_src for the database connection.

**Type** — Select Source as the Type.

**Connection Type** — Select a connection type for the database connection.

**Instance or TNS Name** — Enter the - Enter the Argus Safety database instance name.

**Table Owner** — Enter the Data Source schema name given when installing the OPVA schema in the Argus Safety DB Instance.

Table Owner Password — Enter the OPVA schema password.

**DB Host** — Enter the Argus Safety Database host name.

**Port** — Enter the Argus Safety Database host port.

Data Source Number – Enter the number 1.

- **6.** Perform the following steps in the DAC to run the OPVA DATAWAREHOUSE Execution Plan.
  - **a.** Navigate to the Execute view, then select the Execution Plans tab.
  - **b.** Select OPVA Data Warehouse Load from the list.
  - **c.** Display the Parameters tab, and click Generate.
  - **d.** Enter 1 as value for number of copies of parameters, and click **Generate**.
  - e. On the Execution Plans tab, click Build.
  - f. On the Execution Plans tab, click Run Now to execute the ETLs.

#### **DAC Configurable Parameters**

Following is the list of DAC configurable parameters:

 Table 2–1
 DAC Configurable Parameters

Parameter	Description
\$\$p_last_extract_date	This is last refresh time of the source tables minus prune days.
\$\$p_config_days	Number of days offset to the Current Execution Plan's actual start time adjusted to source database timezone minus prune days.
\$\$p_datasource_num_id	The ID associated with every source system. The default ID is 1 for Argus Safety.
\$\$p_enterprise_id	The ID associated for every Enterprise. The default value is 0. Not in use in any of the ETLs at this time.

Parameter	Description
\$\$p_rekey_fact	The default value is 0 and set it to 1, if match and merge changes requires a rerun of the Fact rekeying process.
\$\$p_etl_proc_id	The process ID for the execution plan run.

 Table 2–1 (Cont.) DAC Configurable Parameters

**Note:** If the version of Argus Safety Instance used with OPVA is version 6.0.2, then execute the following steps:

1. Open the PowerCenter Workflow Manager and connect to the repository where the OPVA Informatica folder is imported.

2. Navigate to the Connections -> Relational menu to open the Relational Connection Browser.

3. Click on opva\_src and click on 'Edit'.

4. Remove the contents (call opvaUtilSecPkg.psetcontext();)in the Attribute - Connection Environment SQL.

5. Click OK to save the changes.

# 2.4 Configuring the OBIEE Repository and Webcatalog

## 2.4.1 Prerequisites

Ensure OBIEE 11g (11.1.1.5.0) is installed and the Administrator Console and the Enterprise Manager (Fusion Middleware Control) is running by checking the following URLs:

- http://<machinename>.<port>/console
- http://<machinename>.<port>/em

**Note:** Port 7001 is the default Weblogic port. It may change based upon the system configuration. Please check with your Oracle Weblogic administrator for the correct port number if the above port does not work as expected.

## 2.4.2 Deployment of OBIEE Repository and Catalog

Log in to the Administrator Console (http://<machinename>.<port>/console) and navigate to Environment -> Servers. You can see the status of BI Server like below:

Sector and a sector sec		stration Console	and the second sec							
hange Center		time Log Out Preferences 🔝 fammi Pr	eb <u>Q</u>				Welcome, weblogic Corrected to: Infoundation			
New changes and restarts	1 Advenues	n yfanmary of Sarvare								
lick the Lock & Edit button to modify, add or biete items in this donan.	Summ	nary of Servers								
Leck & Est	Coel	figuration Control								
Rational Configuration		enerie an instance of Meticopy Server the	It runs in its sum Java Virtual Machine (DM) and has it	e evin configuration.						
omain Structure	1 74	s page summarizes each server that has be	en configured in the current tilebudge Server domain.							
fundatan Janan	0									
Servers	9									
Ousters	P Ce	estomate this table								
-Virtual Hosts		overs (Filtered - Hore Columns Exist)								
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Start and stop servers										
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eath of Running Servers										
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Figure 2–1 Oracle WebLogic Server Administration Console

- 2. Now log in to EM URL http://<machinename>.<port>/em using the same username/password used for the Admin Console URL above.
- **3.** Create an encrypted key entry in the EM for the OPVA RPD
  - Expand the tree node Weblogic Domain and click on the bifoundation\_domain (the domain created for OBIEE) and invoke the menu Weblogic Domain -> Security -> Credentials to give the screen as shown here:

Figure 2–2 The bifoundation\_domain Screen

ORACLE Enterprise Ma	Inager 11g Fusion Middleware Control			
📑 Farm 👻 🖓 Topology				
Farm_bifoundation_domain     Application Deployments	bifoundation_domain ④ ∰ WebLogic Domain ◄			
WebLogic Domain     WebLogic Domain     Difoundation_domain     Die Business Intelligence     Die Metadata Repositories	Credentials A credential store is the repository of security da Credential Store Provider	ata that certify the authority o	of entities used by Java 2, J2EE, and	ADF applications. Applications can
🗷 🚞 Web Tier	Create Map Create Key Credential	dit 💥 Delete   Cre Type	dential Key Name Description	•

- Click on Create Key and enter details as given here for the OPVA rpd file:
  - Select Map: oracle.bi.enterprise
  - Key: repository.opva
  - Type: password
  - User Name: Administrator
  - Password: password of choice
- Click OK to create the security key
- 4. Invoke the System MBean Browser as shown here:

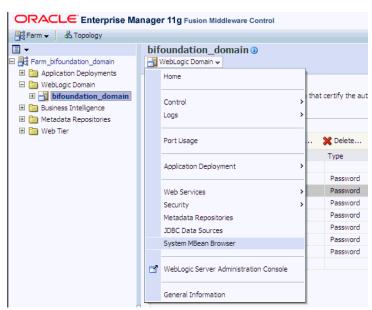
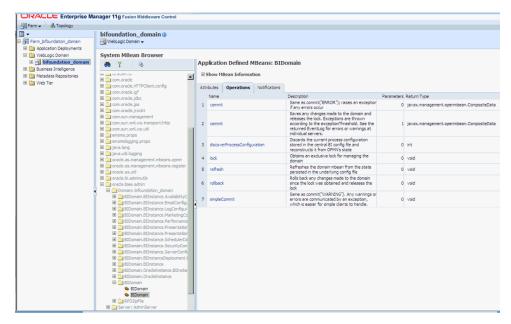


Figure 2–3 The WebLogic Domain Drop-down List

**5.** Navigate to the MBean Application Defined MBeans -> oracle.biee.admin -> Domain: bifoundation\_domain -> BIDomain -> BIDomain as shown below

Figure 2–4 The Application Defined MBeans: Operations Screen



- **6.** Navigate to the Operations Tab and click on lock, and then click on the Invoke button to lock the domain.
- 7. In the same window navigate to the Domain: bifoundation\_domain -> BIDomain.BIInstance.ServerConfiguration -BIDomain.BIInstance.ServerConfiguration as shown below and in the Attributes tab change the attribute RepositoryName as "opva" as shown below and click on Apply.

bifoundation_domain () WebLogic Domain -						
System MBean Browser						
AL V R	Applicat	ion Defined M	IBeans: B	IDomain.BIInstance.ServerConfiguration		
<b>00</b> + 1 - 0				<u>,</u>		
	Show I	MBean Informat	tion			
.orade.jrodkt	Attribute	Operations	Notification	c		
.sun.management						Maker
.sun.xml.ws.transport.http						vaue faise
				defined by JSR-77.		true
					R	jmx.attribute.change
.util.looging						orade.biee.admin:type=BIDomain.BIInstance.Serve false
le.as.management.mbeans.opmn						Star
le.as.management.mbeans.register	6 керо	storyDatasourcen	lame		RW	Star
	7 Repo	sitoryName		The name for the default repository (without the .rpd file extension)	RW	opva
	8 Deco	eiter Charad		Whether a shared directory is used to find repository files	DW	false
						lease
BIDomain BIInstance AvailabilityConfiguration	9 Repo	sitorySharedLocat	ion		RW	
BIDomain.BIInstance.EmailConfiguration			ionAccessible	from the Enterprise Manager server	R	false
BIDomain BIInstance MarketingConfiguration	11 Resta	artNeeded			R	faise
BIDomain.BIInstance.PerformanceConfigurat	12 state	Manageable		Management capabilities as defined by JSR-77.	R	false
BIDomain.BIInstance.PresentationServerCon				defined by JSR-77.	R	false
	14 Syste	emMBean		If true, it indicates that this MBean is a System MBean.	R	false
	An ana JAA Ana Ana JAA Ana JAA Ana JAA Ana JAA Ana Ana Ana Ana Ana Ana Ana Ana Ana Ana	Constant and a second and	Application Defined M     Application Defined M     Application Defined M     Boom Research     Application Defined M     Application Defined M	Y     Y	Y     Y	Constant Statewards Schell Andream Schell Andr

Figure 2–5 The Application Defined MBeans: Attributes Screen

 Next Navigate to Domain: bifoundation\_domain -> BIDomain.BIInstance.PresentationServerConfiguration -> BIDomain.BIInstance.PresentationServerConfiguration and in the Attributes tab change the attribute WebCatalogSharedLocation as \$ORACLE\_ INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMPON ENT\_NAME/catalog/OPVA and click on Apply.

Figure 2–6 The Application Defined MBeans: BIDomain: Attributes Screen

III         -           III         -           III         -           IIII         -           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	biloundation_domain ()				capper in as w Reps forherhold they bit 2011 3 Michill A	
	System MBean Browser	Application Defined MBeans	BIDomainPresentationServerConfiguration		Acov Parvet	
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	unimate of	Tane 1 Confettlean	Description If thue, it indicates that this Milean is a Config Hillean.	Access	Villar filter	
	an andsjøt		If thue, it indicates that this Milean is a Config Hilean. The DeploymentProde attribute is used to alter the system's			
	un arabe pe	2 DeploymentHode	behaviour when used in an 'On Demand' deployment	RIT	arene .	
	art aut nunopment	3 eventholder	of true, it indicates that this Millean is an event provider as defined by 3/A-77.		tue	
	privation of second	4 event7ypes	All the event's types emitted by the Hilbean.		gris, ettribute, therge	
	minute and a	5 objectione	The Hilbean's unique 24X mane		orade.bee.admittype=800oram.80hitance.PresentatordenierConfiguration.bdhitance+corespolication.group=6	
	monologing areas	6 ReadOnly	If twe, it indicates that this Milean is a read only Milean.		faire	
	ena.lett ana.utt.loggeg rade as naregenerit oberns.apm rade as naregenerit oberns.apm	7 Resta Transfer 8 statulianopable	Drdicates shether a restart is needed. If true, it indicates that this Million provides State Management capabilities as defined by JIR-77.	8	false false	
		# statisticsProvider	27 true, it indicates that this Hillean is a statistic provider as defined by 252-77.		false	
	eacle.as.utl	10 System/dean	If true, it indicates that this Hillean is a System Hillean.	- R	false	
	yada is abuvutta yada isee abus		11 VelCetriophered	Whether a shared directory is used to find webcat files when OBIPS a dustered [deprecated]	821	ta 🔹
	Donari bilkuntaton Jonan E 🔄 Elbonan Elbuttares Arakibiko Confour	12 WebCatalogDharedLacation	Web catcalog location to be used by OBPS	RIT	RACLE_DISTAINCE/bifundation/OracleDresentationServicesComponent/sCOMPORENT_ULVE/catalog/OPLIL	
	Contraction 2014/bits 2014/bits Pays Attention     Contraction     Contrection     Contraction     Contraction     Contraction     Contra					

**9.** Navigate back to the MBean Application Defined MBeans -> oracle.biee.admin -> Domain: bifoundation\_domain -> BIDomain -> BIDomain and in the Operations tab invoke the commit operation pass the parameter as ERROR.

erm 👻 🖓 Topology									
	bifoundation_domain ()								
arm_bifoundation_domain	WebLogic Domain 🗸								
Application Deployments WebLogic Domain	System MBean Browser								
WebLogic Domain bifoundation_domain			- E Min	n Defined M	D	t			
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Metadata Repositories	2164060		Show M	Bean Informat	ion				
Web Tier	DracleRTD com.oracle								
	com.oracle.HTTPClient.config	Att	ributes	Operations	Notifications				
	iom.oracle.iof		Name			Description	Parameters	Return Type	
	:om.oracle.jdbc	1	commit			Same as commit("ERROR"); raises an exception if any errors occur	0	javax.management.openmbean.Composited	
	:om.oracle.jps					Saves any changes made to the domain and			
	iom.oracle.jrodkit iom.sun.management					releases the lock. Exceptions are thrown			
	iom.sun.xml.ws.transport.http	2	commit			according to the exceptionThreshold. See the returned EventLog for errors or warnings at	1	javax.management.openmbean.Composite	
	:om.sun.xml.ws.uti					individual servers.			
	imoms.props	3	decove	ProcessConfigu	ration	Discards the current process configuration stored in the central BI config file and	0	int	
	emomslogging.props ava.lang	1		an in the second se		reconstructs it from OPMN's state	Ĭ		
	ava.util.logging	4	lock			Obtains an exclusive lock for managing the domain	0	void	
	rade.as.management.mbeans.opmn					Refreshes the domain mbean from the state			
	rade.as.management.mbeans.register	5	refresh			persisted in the underlying config file	0	void	
	irade.as.util irade.bi.adminutils	6	rolbad			Rolls back any changes made to the domain since the lock was obtained and releases the	0	void	
	rade.biee.admin	Ť				lock	Ĭ		
	Domain: bifoundation_domain		simple(			Same as commit("WARNENG"). Any warnings or errors are communicated by an exception.		void	
	🗄 🚞 BIDomain.BIInstance.AvailabilityConfigura	17	sinpled	Communic		which is easier for simple clients to handle.	v	Void	
	<ul> <li>BiDomain.8IInstance.EmailConfiguration</li> <li>BiDomain.8IInstance.LogConfiguration</li> </ul>								
	BiDomain.Blinstance.LogConfiguration     BiDomain.Blinstance.MarketingConfigura								
	E BIDomain.BIInstance.PerformanceConfig.								
	B Domain.BIInstance.PresentationConfig.								
	BIDomain.BIInstance.PresentationServer								
	<ul> <li>BIDomain.BIInstance.PresentationSer</li> <li>BIDomain.BIInstance.SchedulerDatabase</li> </ul>								
	BIDomain.BIInstance.SecurityConfiguratic								
	E 📴 BIDomain.BIInstance.ServerConfiguration								
	E 🔛 BIDomain.BIInstanceDeployment.BIComp								
	E 🔄 BIDomain.BIInstance								
	B BIDomain.OradeInstance.BIInstanceDepl     B BIDomain.OradeInstance								
	E SIDomain								
	S BIDomain								
	SIDomain								
	E 🔄 RPDZipFile								
	Server: AdminServer								

Figure 2–7 The Application Defined MBeans: BIDomain: Operations Screen

- **10.** Navigate through the tree control (Business Intelligence -> coreapplication) to invoke the coreapplication screen for OBIEE and click on the Deployment tab.
- **11.** Click on Lock and Edit Configuration and click on the Repository sub tab to invoke the screen as shown below. Add the information as given here:
  - Repository file: Upload the OPVA.rpd from <OPVA\_Home>\report\opva.rpd of OPVA.
  - Repository Password: opva123

**Note:** If the OBIEE Server is not the same machine as the install machine, then copy the catalog file from <opva\_home>\report\catalog\opva.zip into the machine where OBIEE server is installed.

- Confirm the catalog location as \$ORACLE\_ INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMP ONENT\_NAME/catalog/opva
- Copy the Catalog from the opva installed directory to the location mentioned above in point c ex: installed location: d:\opva\report\catalog\opva.zip to the location in WLS:
   <MIDDLEWARE\_ HOME>\instances\instance1\bifoundation\OracleBIPresentationServicesCo mponent\coreapplication\_obips1\catalog and extract the zip file to the same location
- Click on Apply and then Activate Changes
- Restart the OBIEE Services

## 2.4.2.1 Post-deployment of the OPVA RPD

Open the OPVA RPD in the Administration Tool in online mode and change the connection pool settings for both OPVA\_CP and OPVA\_CP\_InitBlocks to point to the DWH RPD Schema created during installation:

- 1. Repository Password: opva123
- 2. User: weblogic or BISystemUser
- 3. Password: Password for the user mentioned above

#### Figure 2–8 The OPVA RPD Screen

Presentation	thussees a thirded and thapping	Physical
In <sup>®</sup> OPA-Exect is <sup>®</sup> OPA-Retropective	I R 😝 OPNA-Deset	O OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH     OPALOWH
	Connection Food         Give A, CP. Intiffects           Barrier D, Connection Scott         Veter Back, Veter Machiness I           Barrier D, CP. Jettibuda:         Demission           Galant DDD (100/10)         Weter Back, Veter Back, Ve	
	Corcel Heb	

**Note:** If the version of the Argus Safety instance configured for OPVA application is 6.0.2, then navigate to the Connection Scripts tab in the Connection Pool settings of 'OPVA\_CP' and remove the PLSQL call 'call opvaUtilSecPkg.pSetContext();' and save the changes.

# 2.5 Configuring the OBIEE Help files

**Note:** If the OBIEE Server is not the same machine where the installer is run, then copy the zip file <opva\_home>\help\opva\_ help.zip into the machine where OBIEE server is installed.

## 2.5.1 Configuring the Help links in the Dashboards and Reports

**1.** Navigate to the following path in your Weblogic Server:

#### <MIDDLEWARE\_

- 2. Extract the contents of the help.zip file into the path listed above.
- 3. Log in to Console (Log in to the Weblogic Server).

- 4. Navigate to Deployments.
- 5. Click on 'Lock & Edit' in the left pane to enable the 'Install' button.

	Admin	istrat	tion Console				
Change Center	٦	Home	Log Out Preferences 🔤 Record Help			Welcome, weblogi	c Connected to: bifoundation
View changes and restarts	Но	ome >5	iummary of Deployments				
Click the Lock & Edit button to modify, add or delete items in this domain.			y of Deployments				
Lock & Edit	Control Montoring						
Reference Configuration This page deploys a list of Jane EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (resteployed), or deleted front domain by first selecting the application name and using the curitoria on this page.							
Domain Structure ofoundation_domain	т	'o insta	all a new application or module for deployment to targets in this domain, click the Install button.				
Deployments	Pe	ustor	nize this table				
Services     Security Realms	D	eploy	ments				
⊕-Interoperability ⊕-Diagnostics	Press Update Dates Dates Showing 1 to 10 of 50 Previous						
			Name 🏟	State	Health	Туре	Deployment Order
			Madf.oradie.domain(1.0, 11.1.1.2.0)	Active		Library	100
			madf.orade.domain.webapp(1.0, 11:1.1.2.0)	Active		Library	100
How do L 🖂			⊕ □analytics (11.1.1)	Active	≪ок	Enterprise Application	250
Instal an Enterprise application			n bi.em	Active		Library	100
Configure an Enterprise application     Update (redeploy) an Enterprise application			E Cobiadminservices (11.1.1)	Active	≪ок	Enterprise Application	257
Start and stop a deployed Enterprise     application			🖲 Tobiadminutis (11.1.1)	Active	¢ок	Enterprise Application	240
Monitor the modules of an Enterprise     application			🗷 🐻 bieel 1g	Prepared	≪ок	Web Application	100
Deploy E38 modules			b)dbc(11.1.1)	Active		Library	100
Instal a Web application			bijdbc(11.1.1.3.0)	Active		Library	100
System Status			Coloraladmin (11.1.1)	Active	≪ок	Enterprise Application	253
Health of Running Servers		Instal	Update Delete Start V Stop V				noving 1 to 10 of 50 Previous
Failed (0)							

- **6.** Click on Install and navigate to '<MIDDLEWARE\_ HOME>\instances\instance1\bifoundation\OracleBIPresentationServicesCompo nent\coreapplication\_obips1'.
- 7. Select 'analyticsRes' and click 'Next'.

ORACLE WebLogic Server®	Administration Console						
Change Center	🙆 Home Log Out Preferences 🔤	Record Help	Q.			Welcome, weblogic	Connected to: bifoundation
View changes and restarts	Home >Summary of Deployments						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Loci & Earl Release Configuration	Install Application Assistant           Install Application Assistant           Back         Princh         Cancel           Locate deployment to install a Select the file path that represents the Path that represents the Path that represents         Cancel			ded archive directory, or application m	odule descriptor that you want to install. You ca	an also enter the path of	the application directory or file
Domain Structure bifoundation domain	Note: Only valid file paths are displ	yed below. If y	ou cannot find your deployment	files, upload your file(s) and/or confirm	that your application contains the required de	ployment descriptors.	
Environment     Deployments	Path:	D:\Orac	le\fmw\instances\instance1	I\bifoundation\OracleBIPresentat	ionServicesComponent\coreapplication	obips1\analyticsRes	
Services     Security Realms     Orineroperability     Orineroperability	Recently Used Paths:	D:\		ndation\OracleBIPresentationServicesC	omponent\coreapplication_obips1	preapplication_obips1	
		ttory)					
How do I							
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>							
Configure an Enterprise application     Create a deployment plan							
Target an Enterprise application to a server							
Test the modules in an Enterprise application							
System Status							
Health of Running Servers							
Faled (0) Critical (0)							

8. Select 'Install this deployment as an application' (default) and click 'Next'.

ORACLE WebLogic Server®	Administration Console	<b></b>
Change Center	😰 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: bifoundation_dom
View changes and restarts	Home >Summary of Deployments	
he period of shape exit. Och the Decear Configuration table offers to edit the domain <b>Decear Structure</b> Discuss Structure H - Schurchsten H - Schurchsten	Instal Application Assistant           Base         Instit         First         Cancel           Choose targeties style         Cancel         Concel         Concel           Targets are besomes, clusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.         Install this deployment as an application           The application for and its components will be targeted to the same locations. This is the most common usage.         Install this deployment as a Barev           Application libraries are diployments that we available for other deployments to share. Libraries should be available on all of the targets running their referencing Base. Next         First	eosicators.
Herrido L.         Image: Comparison of the state o		

9. Select 'Deployment targets', choose 'bi\_server1', and click 'Next'.

ORACLE WebLogic Server®	Administration Console	<u> </u>
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of Deployments	
In product product statist Clob the Release Configuration to a allow others to add the domain Local & Earl Release Configuration Domain Structure Debundston, domain (9) Environment Debundston, domain (9) Environment Debundston, domain (9) Environment Debundston, domain (9) Environment (9) Environment (9) Environment (9) Environment (9) Environment	Initial Application Assistant	
How do L	Back, Inen From Cance	
Create a deployment plan		
Target an Enterprise application to a server     Test the modules in an Enterprise application     System Status     Health of Running Servers		
Failed (0)		

**10.** Under 'Source accessibility:'

Select 'I will make the deployment accessible from the following location'

```
'<MIDDLEWARE_
```

 $HOME>\instances\instance1\bifoundation\OracleBIPresentationServicesComponent\coreapplication\_obips1\analyticsRes'$ 

**11.** Click Finish.

Deployments	Name: and the Dec
B-Services	name: analyticsRes
Security Realms	- Security
Interoperability	What security model do you want to use with this application?
Diagnostics	
	DD Only: Use only roles and policies that are defined in the deployment descriptors.
	O Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
	O Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
How do L	
<ul> <li>Start and stop a deployed Enterprise</li> </ul>	Advanced: Use a custom model that you have configured on the realm's configuration page.
application	- Source accessibility
<ul> <li>Configure an Enterprise application</li> </ul>	How should the source files be made accessible?
Create a deployment plan	The management of the advertised and the model and the management of the management
Target an Enterprise application to a server	Use the defaults defined by the deployment's targets
<ul> <li>Test the modules in an Enterprise application</li> </ul>	
	Recommended selection.
System Status	
Health of Running Servers	Copy this application onto every target for me
Failed (0)	During deployment, the files will be copied automatically to the managed servers to which the application is targeted.
Critical (0)	
Overloaded (0)	I will make the deployment accessible from the following location
Warning (0)	
OK (2)	Location: D:\Oracle\fmwiinstance1\bifoundation\OracleBl
OK (2)	
,	Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.
	Back Next Finish Cancel

The 'analyticsRes' should appear under Deployments.

Change Center			e Log Out Preferences 🔤 Record Help			Welcome, weblogic Conn	ected to: bifoundation_do	
View changes and restarts			Summary of Deployments					
Pending changes exist. They must be activated		Messages						
to take effect.		The deployment has been successfully installed.						
Activate Changes		You must also activate the pending changes to commit this, and other updates, to the active system.						
Undo All Changes	Su	Summary of Deployments						
		ontrol	Monitoring					
Domain Structure	11							
bifoundation_domain		This as	ge displays a list of Java EE applications and stand-alone application modules that have been installe	d to this downin. Tootallad a			manual conductored	
Environment     Deployments		(redep	ge displays a list of Java EE applications and stand-alone application modules that have been installe loyed), or deleted from the domain by first selecting the application name and using the controls on t	d to this domain. Installed a his page.	opications an	no modules can be started, st	opped, updated	
D-Services		-	all a new matter time or much in fee dealers much to terrate in this density, which the tertail is then					
Security Realms	To install a new application or module for deployment to targets in this domain, click the Install button.							
1 Interoperability								
	Customize this table							
⊕-Diagnostics		Custo	mize this table					
un unegenational	1.		mize this table yments					
w wegenande	1.		/ments			Showing :	1 to 10 of 51 Previous   Nex	
- Ungi Katika	1.	Deploy	/ments	State	Health	Showing :	to 10 of 51 Previous   Nex	
-		Deploy	ments   Opsate   Delete   Start v   Stop v	State Active	Health			
How do IE  Install an Enterprise application		Deploy	nonis j Dodane, Deelle, Startw. Skopw. Name 🏟		Health	Туре	Deployment Order	
How do I • Dratal an Enterprise application • Configure an Enterprise application		Deploy	Image: Start W         Start W         Start W           Name %         @paff anale.doman(10,11.11.2.0)         @paff anale.doman.webap(10.11.11.2.0)	Active	Health	Type Ubrary Ubrary	Deployment Order	
Now do L IIII		Deploy	Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W           Image: Start W         Start W         Start W         Start W	Active Active		Type Library	Deployment Order 100 100	
How do I bratal in Enterprise application Configure an Enterprise application		Deploy	Image: Start W         Start W         Start W           Name %         @paff anale.doman(10,11.11.2.0)         @paff anale.doman.webap(10.11.11.2.0)	Active Active		Type Ubrary Ubrary	Deployment Order 100 100	

**12.** Click on Active Changes, select 'analyticsRes', and click the Start button on the screen.

	Administ	ration Console				ç	
Change Center	🙆 Hor	me Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic	Connected to: bifoundation_don	
View changes and restarts		>Summary of Deployments					
Click the Lock & Edit button to modify, add or delete items in this domain.	Messag Al	ges I changes have been activated. No restarts are necessary.					
Lock & Edit	Summary of Deployments						
Release Configuration	Control Montoring						
Sfoundston_domain → Deployments → Services → Services → Security Realing ↔ Intercore ability ⊕ Diagnostics	The page doays is to fave. Ele apolatons and stand-alone apolaton modules that have been natialed to this doman. Installed apolatons and modules can be started, stopped, updated (redoxyvel), or detected for the domain of this statectory the page actions name and using the controls on its page. To install a new apolation or module for deployment to targets in this domain, click the Install button.  P Customize this table Deployments Showing 1 to 10 of 51 Previous   Next						
		Name  Servicing all requests Servicing only administration requests	State	Health	Туре	Deployment Order	
		Cadf.oracle.domain(1.0,11.1.1.2.0)	Active		Library	100	
How do I		Cadf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active		Library	100	
Install an Enterprise application     Configure an Enterprise application		⊞ □analytics (11.1.1)	Active	🗸 ОК	Enterprise Application	250	
Update (redeploy) an Enterprise application		analyticsRes	Prepared	≪ок	Web Application	100	
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>		ngbi.em	Active		Lbrary	100	
Monitor the modules of an Enterprise     application	m	FRbiadminservices (11.1.1)	Active	≪ ox	Enterprise Application	257	

**13.** Start Application Assistant, and click Yes.

ORACLE WebLogic Server®	Administration Console	9
Change Center	😰 Home Log Out Preferences 🗁 Record Help	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of Deployments	
Click the Lock & Edit button to modify, add or delete items in this domain.	Start Application Assistant	
Release Configuration	Start Deployments	
Domain Structure	You have selected the following deployments to be started. Click Yes' to continue, or 'No' to cancel.  analyticsRes	
Infoundation_astream Information - Dealoyments - Dealoyments - Security Realms (P)-Disposition (P)-Disposition	(Jos An)	
How do I		
No task help found.		
System Status		
Health of Running Servers		

The 'analyticsRes State' should be active after starting the above. Logout from the Console.

14. Log in to EM (Enterprise Manager) and restart the BI Components.

	Logged in Page Rafreshed May 24, 3011 8+42 essons 8
ce Resource Center Too Degin this State of the Nearests Printlennic this State of the Nearests Printlennic Administration Table This State of the Nearest State State of the Nearest State Stat	mouto) 41.064 lecond) 150
Ade rforr inag inag inag inag inag	ministration Tasks in General Management and Configuration Tasks is the Capaoity of Oracle Ruuncas Intelligence as and Resolve Issues with Oracle Business Intelligence is single sign-On Authentocation for Uracle sunness intellig the Depolyment of Oracle Business Intelligence Surces Business Intelligence on the Web

Once the BI components have been restarted successfully, log in to Analytics, and check the Brand Name and help links provided in the Dashboards.

# 2.6 Configuring SSO Using Oracle Access Manager

**Note:** This section is only applicable if OAM is used.

This section describes how to configure SSO in the Oracle Access Manager (OAM).

The following are the pre-requisites for this configuration:

- There should be an OAM installation (Identity server, Access server, WebPass, Policy Manager).
- User profiles should exist in the LDAP server as well as in Argus Safety with the same credentials.
- Oracle Web Tier 11.1.1.3 should be installed on the same server where the OBIEE server is installed and configured with the Weblogic Server hosting OBIEE.

Perform the following steps to install SSO on the OAM:

1. Navigate to the Access System console of OAM and click the Access System Configuration tab. Click Host Identifiers on the left panel and provide the Fully Qualified Domain Name (FQDN), IP Address and both entries along with port numbers of the OPVA Web Tier machine. Click Save.

For example:

- hsdevwv0044.us.oracle.com
- hsdevwv0044.us.oracle.com:7777
- **10.149.56.48**
- **10.149.56.48:7777**

ORACLE <sup>®</sup> Acc	ess Administration		Policy ManagerHelpAboutLogout
	Sys	stem Configuration 📄 System Management	Access System Configuration
			Logged in user: orcladmin
-	•		
<ul> <li>Access Server</li> </ul>	Modifying host iden	itifier	
<u>Clusters</u>			
<ul> <li><u>AccessGate</u></li> </ul>	Name	hsdevwv0044.us.oracle.com	
Configuration			
Add New	Description	OPVA OBIEE Server	A
Access Gate			
Access Server			
Configuration			
Authentication			×
Management			_
Authorization	Hostname variations	hsdevwv0044.us.oracle.com	
Management		hsdevwv0044.us.oracle.com:7777	
<ul> <li><u>User Access</u></li> </ul>		10.149.56.48	_
Configuration		10.149.56.48:7777	
<u>Common</u>		10.149.50.40.7777	· · ·
Information	Update Cache		
Configuration			
Host Identifiers	Save Cancel		
	<b>▼</b>		×

Figure 2–9 The Access System Administration: Host Identifiers Screen

- 2. In the Access System console of OAM, click Access System Configuration.
- **3.** Click **Add New Access Gate** link on the left panel.
- **4.** Provide details like access gate name, port, and password. Also, enter the following details:
  - Hostname: Provide the FQDN of the OPVA Web Tier Server where you will install the webgate
  - Access Management Service: Set this radio button as 'On'
  - Primary HTTP Cookie Domain: Provide FQDN of the machine where you will install the webgate, prefixed by a period. For example, .idc.oracle.com and please ensure the '.' before the FQDN
  - Preferred HTTP Host: Provide the same value as the Hostname
  - CachePragmaHeader: Enter value as 'private'
  - CacheControlHeader: Enter value as 'private'
  - Once you have entered all the above details, click Save to add the webgate.

1	A	
AccessGate Name Description	AccessGateOPVA Access Gate for OPVA Web Server	
State		
Hostname**	Enabled O Disabled     Insdevwv0044.us.oracle.com	
Port**		
	7777	
New Access Gate Password	•••••	
Re-type New Access Gate Password		
Debug	€ Off © On	
Maximum user session time (seconds)*	3600	
Idle Session Time (seconds)	3600	
Maximum Connections	1	
Transport Security	Open O Simple O Cert	
IPValidation	⊙ Off ● On	
IPValidationException		$\odot$ $\odot$
II vanuationException	1	
Maximum Client Session Time (hours)	24	
Failover threshold	1	
Access server timeout threshold*	-	
Sleep For (seconds)	60	
Sieep For (seconds)	100	
Maximum elements in cache*	100000	
Cache timeout (seconds)*	1800	
Impersonation username		
Impersonation password		
Re-type impersonation password		
ASDK Client		
Access Management Service	C Off € On	
Web Server Client		
Primary HTTP Cookie Domain*	.us.oracle.com	
Preferred HTTP Host	hsdevwv0044.us.oracle.com	
Deny On Not Protected	€ Off C On	
CachePragmaHeader	private	
CacheControlHeader	private	
LogOutURLs		$\odot$ $\odot$
-		5.5
User Defined Parameters		
Parameters	Values	
		$\odot$ $\odot$
		Add Delete
		Leiege

#### Figure 2–10 The Host Identifiers Screen with Entered Information

Modify AccessGate

- **5.** You will see the message "Please associate an Access Server or Access Server Cluster with this AccessGate."
- 6. Click List Access Servers.
- **7.** In the following screen, click Add. Select an access server from the drop-down and click Add to associate the webgate with the access server.

ORACLE <sup>®</sup> Acc			Policy ManagerHelp AboutLogout
	Syst	em Configuration 🕴 System Management	Access System Configuration
			Logged in user: orcladmin
Access Server Clusters     AccessGate Configuration     Add New Access Gate     Access Gate     Access Server Configuration     Authentication Management     Authenization Management     User Access Configuration     Configuration     Configuration     Accommon Information Configuration     Host Identifiers	Add a new Access Se Select server Select priority Number of connections Add Cancel	Intervention the AccessGate AccessGate Intervention in the AccessGate AccessGate AccessGate Intervention in the AccessGate AccessGate AccessGate Intervention in the AccessGate AccessGat	

Figure 2–11 The Access System Configuration: Access Gate Configuration Screen

**Note:** The access servers in this list will appear based on the access servers installed in the OAM image or installation that you have. Do not attempt adding Access Servers from OAM Console.

- **8.** In the Access System Configuration Tab, click on Authentication Management and ensure that there is at least one schema for LDAP Authentication. If no schema exists, follow these steps:
  - Click on Add and enter the information as show here:

\_

Figure 2–12 Authentication Management: General tab						
General Plugins	General Plugins Steps Authentication Flow					
Details for Authentie	cation Scheme					
Name	Oracle Access and Identity Basic Over LDAP					
Description	Used in protecting Oracle Access Manager related URLs					
Level	1					
Challenge Method	Basic					
Challenge Parameter	realm:Oracle Access and Identity					
SSL Required	No					
Challenge Redirect	Challenge Redirect					
Enabled	Yes					

(Modify) Back)

- Click on Save, click the Plugins Tab, and add the following:
  - Plugin Name: validate\_password
  - Plugin Parameters: obCredentialPassword="password"
  - Plugin Name: credential\_mapping
  - Plugin Parameters: obMappingBase="dc=us,dc=oracle,dc=com",obMappingFilter="(&(&(obje ctclass=inetorgperson)(uid=%userid%))(|(!(obuseraccountcontrol=\*))(obu seraccountcontrol=ACTIVATED)))"

#### Figure 2–13 Authentication Management: Plugins tab

General Plugin	Steps Authentication Flow						
Plugins for Authentication Scheme							
Plugin Name	Plugin Parameters						
validate_password	obCredentialPassword="password"						
credential_mapping	redential_mapping obMappingBase="dc=us.dc=oracle.dc=com".obMappingFilter="(&(&(objectclass=inetorgperson)(uid=%userid%))(l(! (obuseraccountcontrol=*))(obuseraccountcontrol=ACTIVATED)))"						

#### Modify Back

- Click on Save.
- Choose the Steps Tab next and add a new step 'Default\_Step'. Add the 'Available Plugins' to the Active Plugins in the order:
  - credential\_mapping

validate\_password

**Note:** The order of Plugins added is important.

#### Figure 2–14 Authentication Management: Steps tab

 General
 Plugins
 Steps
 Authentication Flow

 Steps for Authentication Scheme
 Steps
 Steps for Authentication Scheme

 Step Name
 Default\_Step

 Plugin Name
 Plugin Parameters

 credential\_mapping
 obMappingBase="dc=us.dc=oracle.dc=com".obMappingFilter="(&(&(objectclass=inetorgperson)(uid=%userid%))([(!

 validate\_password
 obCredentialPassword="password"

#### Modify Back

- Click on Save.
- Choose the Authentication Flow Tab and configure as shown below:

#### Figure 2–15 Authentication Management: Authentication Flow tab

General Plugins Steps Authentication Flow

### Flow of the Authentication Scheme

			Next Step		lext Step
Default_Step	©	Stop	-	Stop	-

#### Update Cache

Save Cancel Verify Flow

- **9.** Click on Policy Manager to setup the rules for protecting the OPVA Application URL as follows:
  - Click on Create Policy Domain.
  - Enter the details as given below:

#### Figure 2–16 Create Policy Domain: General tab

Search     My Policy	Create Policy Domain						
Domains	General Resources Authorization Rules Default Rules Policies Delegated Access Admins						
Create Policy     Domain	Name OPVAPolicyDomain						
<u>Access Tester</u>	Description Policy for OPVA						
	Save Cancel						

Click on Save, and then choose 'Modify' set enabled to Yes.

 Navigate to the 'Resources' tab and click on Add and enter details as shown here and click on Save:

<ul> <li><u>Search</u></li> <li><u>My Policy</u> <u>Domains</u></li> <li><u>Create Policy</u> <u>Domain</u></li> <li><u>Access Tester</u></li> </ul>	OPVAPolicyDomain > Resource         General       Resources         Authorization Rules       Default Rules         Policies       Delegated Access Admins         Resource Type       http ▼         Host Identifiers       hsdeww0044.us.oracle.com ▼         URL Prefix       / ▼ analytics         Description       ▲
	Vpdate Cache

Figure 2–17 Create Policy Domain: Resources tab

 Navigate to Authorization Rules and click on Add and enter details as given here and save the details:

Figure 2–18 My Policy Domains: Authorization Rules tab

Search	OPVAPolicyDomain > Authorizati	<u>OPVAPolicyDomain</u> > Authorization Rules							
<ul> <li>My Policy Domains</li> </ul>	General Resources	Authorization Rules Default Rules	Policies Delegated Access Admins						
<u>Create Policy</u>	General Tir	ning Conditions Actions	Allow Access Deny Access						
Domain									
<u>Access Tester</u>	Name	Default_Authorization							
	Description	Default Authorization							
			×						
	Enabled	Yes 🔻							
	Allow takes precedence	Yes							
	☑ Update Cache								
	Save Cancel								

 Navigate to the Actions sub tab and click on add. Enter the details as shown here and click on Save:

Search     My Policy     Domains     Create Policy     Domain     Access Tester	General Res General Authorization Suc Redirection URL	Authorization Rules	Default Rules Policies Adjoins Allow Access	Delegated Access Admins Denv. Access
	Return	Туре	Name	Return Value
		Type HeaderVar HeaderVar	Name OAM_REMOTE_USER REMOTE_USER	Return Attribute uid uid
	Authorization Fai	lure		
	Redirection URL			
	Return	Туре	Name	Return Value
		Туре	Name	Return Attribute
	🗹 Update Cache			
	Save Cancel			

Figure 2–19 My Policy Domains: Authorization Rules tab: Actions sub-tab

• After saving these details click on the Allow Access sub tab and click Add, enter the following details and click on Save:

Figure 2–20 My Policy Domains: Authorization Rules tab: Allow Access sub-tab

Search	<u>OPVAPolicyDomain</u> > <u>Authorization Rules</u> > <u>Default_Authorization</u> > Allow Access
My Policy     Domains	General Resources Authorization Rules Default Rules Policies Delegated Access Admins
<u>Create Policy</u> <u>Domain</u>	General Timing Conditions Actions Allow Access Deny Access
Access Tester	People Select User
	Role Any one
	Rule Idap:///
	IP Address
	☑ Update Cache
	Save Cancel

 Now click on Default Rules tab and add a new Authentication Rule by clicking on Add and entering information as given here in the General sub tab:

Figure 2–21 My Policy Domains: Default Rules tab: General sub-tab

Search My Policy	OPVAPolicyDomain > Default Ru	ules > Authentication Rul	e		
Domains Create Policy	General Resources	Authorization Rules	Default Rules	Policies	Delegated Access Admins
Domain	Gen	eral		A	ctions
<u>Access Tester</u>	Name Description	Default_SSO Default SSO au	thentication ru	le for OP	VA
	Authentication Scheme	Oracle Access and	Identity Basic Over L	DAP	E.
	(Save) Cancel)				

- Save the details in the General sub tab, and choose the Actions sub-tab.
- Click on Add and enter the details as shown here and save the details:

	ess Administrat	tion			ConsoleHelpAboutLogout Policy Manager
<ul> <li>Search</li> <li>My Policy Domains</li> <li>Create Policy Domain</li> <li>Access Tester</li> </ul>	General Res	cation Rule	uthentication Rule > Actions n Rules Default Rules Polici Authorization Expression		d in user: orcladmin
	URL Return	Type Type WL_REALM WL_REALM	Name Name obmygroups uid	Return Value Return Attribute obmygroups uid	· · ·
	Authentication F Redirection URL Return M Update Cache Save Cancel	Type	Name	Return Value	□ ⊙ ⊙

Figure 2–22 My Policy Domains: Default Rules tab: Actions sub-tab

 Choose Authorization Expression tab and click on Add to add an entry per the details given here in the Expression sub tab:

Figure 2–23 My Policy Domains: Default Rules tab: Expression sub-tab

Search     My Policy	<u>OPVAPolicyDomain</u> > <u>Default Rules</u> > <u>Authorization Expression</u> > Expression	
<ul> <li>My Policy Domains</li> </ul>	General Resources Authorization Rules Default Rules Policies Delegated Access Admins	
Create Policy	Authorization Rule Authorization Expression Audit Rule	
Domain	Expression Duplicate Actions Actions	
Access Tester		
	Select Authorization Rule Default_Authorization  Add	
	Select Separator	
	Authorization Expression	
	Default_Authorization	
	(Modify) (Delete All)	
	Authorization Expression in Text Format	
	Please use '&' and 'j' symbols in place of 'AND' and 'OR' in the textbox below.	
	Default_Authorization	
	Y	
	Update) Reset)	
	Vpdate Cache	

- Click on Save.
- Select the Actions sub tab and click on Add, enter the details as given here:

Figure 2–24 My Policy Domains: Default Rules tab: Actions sub-tab

Search     My Policy     Domains     Create Policy     Domain     Access Tester	OPVAPolicyDomain         > Default Rules         > Authorization Expression         > Actions           General         Resources         Authorization Rules         Default Rules         Policies         Delegated Access Admins           Authorization Rule         Authorization Expression         Expression         Audit Rule           Expression         Duplicate Actions         Address           Authorization Success         Authorization Success					
	Redirection URL					
	Return	Туре	Name	Return Value	••	
		<b>Type</b> HeaderVar HeaderVar	Name REMOTE_USER OAM_REMOTE_USER	Return Attribute uid uid	•••	
	Authorization Fa	ailure				
	Redirection URL					
	Return	Туре	Name	Return Value	•••	
		Туре	Name	Return Attribute	$\odot$ $\bigcirc$	
	Authorization In	conclusive				
	Redirection URL					

- Click on Save.
- Click on the Policies tab and choose the Add button, enter details as given here:

Search     My Policy     Domains     Create Policy     Domain     Access Tester	OPVAPolicyDomain > Policies General Resources Name Description	Authorization Rules Default Rules Policies Delegated Access Admins Protected_OPVA_URLs This policy protects all URLs for OPVA
	Resource Type	http 💌
	Resource Operation(s)	☑ GET     ☑ POST     □ PUT       □ HEAD     □ DELETE     □ TRACE       □ OPTIONS     □ CONNECT     □ OTHER
	Resource	all     Host Identifiers URL Prefix Description     hsdevwv0044.us.oracle.com /analytics
	URL Pattern	
	Host Identifiers	<all></all>
	Query String Query String Variable(s)	Name Value 🕢 🗘
	Update Cache	

Figure 2–25 My Policy Domains: Policies tab

- **10.** Navigate to the OPVA Web Tier Machine, which is the machine where you have installed OPVA OBIEE Server and run the installer for Webgate (OFM Webgate 11g for OAM 10.1.4.3.0).
  - Once the installer launches, click Next on the initial two information screens
  - Choose the install directory for the webgate and click Next for the information on the installation.
  - Click Next to begin the installation of webgate, once completed it starts the configuration, where in enter the details as given here below:

🞯 Oracle Access Manager 11	0.1.4.3.0 WebGate	
ORACLE	Oracle Access Manager	
WebGate Configuration		
InstallShield		
	< Back Next >	Cancel

Figure 2–26 Oracle Access Manager Installation Screen

- Click Next to continue the configuration and enter details as shown here:
  - WebGate ID: AccessGateOPVA
  - Password: Password as given during creation of the access gate in OAM
  - Access Server ID: Access\_svr\_idm\_vm
  - Hostname: Server name where OAM Access Server is installed
  - Port: 8000 (Port number on the which the Access Server is listening to)
- Click 'Next' and in the next screen choose the radio button 'Yes' and select 'Next' to continue configuring the httpd.conf file
- Select the location for the httpd.conf file, typically it will be at OracleWebTierHome/instances/instance2/config/OHS/ohs1/httpd.conf and then click OK to continue with configuration
- Restart the Web Server to complete the installation
- Verify the installation of the webgate by checking the URL:

http://<machinename>.<port>
/access/oblix/apps/webgate/bin/webgate.cgi?progid=1

#### **11.** Configure the HTTP Server as a reverse proxy for the WebLogic Server

 Modify the file mod\_wl\_ohs.conf present in the location to reflect as shown below: Location: OracleWebTierHome\instances\instance2\config\OHS\ohs1

**Note:** This is a template to configure mod\_weblogic.

LoadModule weblogic\_module "\${ORACLE\_HOME}/ohs/modules/mod\_ wl\_ohs.so"

# This empty block is needed to save mod\_wl related configuration from EM to this file when changes are made at the Base Virtual Host Level

<IfModule weblogic\_module>

# WebLogicHost <WEBLOGIC\_HOST>

# WebLogicPort <WEBLOGIC\_PORT>

# Debug ON

#WLLogFile /tmp/weblogic.log

# MatchExpression \*.jsp

WebLogicHost hsdevwv0044.us.oracle.com

WLTempDir <MIDDLEWARE\_HOME>\Oracle\_WT1\error\_Logs

WLLogFile <MIDDLEWARE\_HOME>\Oracle\_WT1\error\_Logs\ohs1\_ error.log

Debug ON

DynamicServerList Off

WebLogicPort 7001

<Location / analytics>

SetHandler weblogic-handler

WebLogicHost hsdevwv0044.us.oracle.com

WebLogicPort 9704

</Location>

</IfModule>

# <Location / weblogic>

# SetHandler weblogic-handler

# PathTrim / weblogic

# ErrorPage http://WEBLOGIC\_HOME:WEBLOGIC\_PORT/

# </Location>

- **12.** Restart the Web Tier Instance in WebLogic EM
  - Configure a new Authenticator for Oracle WebLogic Server
  - Log in to the WebLogic Server Administrator Console and navigate the Security Realms-> myrealm and click on the Providers tab

Change Center	館 Hom	e Log Out	Preferences 📐	Record Help		w w	elcome, w	-	onnected to:
View changes and restarts	Home y	Summany of	f Security Realms >	myrealm >Provider				bi	foundation_dor
Click the Lock & Edit button to modify, add or delete items in this domain.		s for myre							
Lock & Edit									
Delesse Configuration	Configu	ration U	sers and Groups	Roles and Policies	Credential Map;	pings Provider	s Migrat	on	
Release Configuration	Authe	ntication	Password Valid	ation Authorizati	n Adjudication	Role Mapping	Auditing	Credential	Mapping
Domain Structure	Certific	ation Path	Keystores						
Disperseties									
₿ -Diagnostics	Authe Click th		Providers Editbutton in the	Change Center to a	ctivate all the butt	ons on this page.	Character		
	Authe Click th	entication he <i>Lock</i> & I Delete	Providers			ons on this page.	Showin	-	2 Previous   Next
How do I	Authe Click th New	ntication ne <i>Lock &amp; l</i> Delete Name	Providers Editbutton in the Reorder	De	cription		Showin	-	Version
How do I	Authe Click th	ntication ne <i>Lock &amp; l</i> Delete Name	Providers Editbutton in the	De			Showin	-	
How do I  Configure Authentication and Identity Assertion providers Configure the Password Validation provider	Authe Click th New	ntication <i>Lock &amp; I</i> Delete Name DefaultAut	Providers Editbutton in the Reorder	Des	cription	n Provider	Showin	-	Version
How do I Configure Authentication and Identity Assertion providers Configure the Password Validation provider Manage security providers	Authe Click th New	ntication ne <i>Lock &amp; L</i> Delete Name DefaultAut DefaultIde	Providers Editbutton in the Reorder thenticator	Des	<b>cription</b> Logic Authenticatio	n Provider			Version 1.0 1.0
How do I   • Configure Authentication and Identity Assertion providers	Authe Click I <sup>I</sup> New	ntication ne <i>Lock &amp; L</i> Delete Name DefaultAut DefaultIde	Providers Editbutton in the Reorder thenticator entityAsserter	Des	<b>cription</b> Logic Authenticatio	n Provider			Version 1.0
How do I Configure Authentication and Identity Assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order Authentication providers	Authe Click I <sup>I</sup> New	ntication ne <i>Lock &amp; L</i> Delete Name DefaultAut DefaultIde	Providers Editbutton in the Reorder thenticator entityAsserter	Des	<b>cription</b> Logic Authenticatio	n Provider			Version 1.0 1.0
How do I Configure Authentication and Identity Assertion providers Configure the Password Valdation provider Manage security providers Set the JAAS control flag Re-order Authentication providers	Authe Click I <sup>I</sup> New	ntication ne <i>Lock &amp; L</i> Delete Name DefaultAut DefaultIde	Providers Editbutton in the Reorder thenticator entityAsserter	Des	<b>cription</b> Logic Authenticatio	n Provider			Version 1.0 1.0

Figure 2–27 myrealm Settings: Providers tab

- Click on Lock & Edit in the right-hand corner of the web page, highlighted as Change Center
- Click New to create a new Authentication Provider and add the details as given here:
  - Name: OPVAOIDAuthenticator, or a name of your choosing
  - Type: OracleInternetDirectoryAuthenticator
  - After saving the details, click on the new Authenticator created and enter details as given here:
  - In the Common sub tab change the Control Flag as SUFFICIENT
  - Click on Save
  - Click the Provider Specific tab and enter the following required settings using values for your environment:

Host: Your LDAP host.

For example: hsdevlv0016.us.oracle.com

Port: Your LDAP host listening port.

For example: 389

Principal: LDAP administrative user.

For example: cn=orcladmin,cn=Users,dc=us,dc=oracle,dc=com

Credential: LDAP administrative user password

User Base DN: Same searchbase as in Oracle Access Manager.

For example: cn=Users,dc=us,dc=oracle,dc=com

All Users Filter:

For example: (&(uid=\*) (objectclass=person))

User Name Attribute: Set as the default attribute for username in the directory server.

For example: uid

Group Base DN: The group searchbase

For example: cn=Groups,dc=us,dc=oracle,dc=com

Leave the other defaults as is

GUID Attribute: the GUID attribute defined in the OID LDAP Server

For example: uid

Click Save.

- **13.** Configuring a new Identity asserter for WebLogic Server
  - In Oracle WebLogic Server Administration Console, select Security Realms from the left pane and click the realm you are configuring. For example, myrealm. Select Providers.
  - Click New. Complete the fields as follows:
    - Name: OPVAOAMIdentityAsserter, or a name of your choosing
    - Type: OAMIdentityAsserter
    - Click OK
    - Click on the newly created Asserter and set the Control Flag to REQUIRED
    - Click Save
    - Navigate the Provider Specific tab and enter details as given here:

Transport Security: open

Application Domain: OPVAPolicyDOmain, as set in the OAM Policy Manager

Access Gate Password: the password for the access gate

Access Gate Name: AccessGateOPVA, as specified in the OAM Access Console

Primary Access Server: hsdevlv0016.us.oracle.com:8000, OAM server with port

Click on Save

- In the Providers tab, perform the following steps to reorder Providers:
  - Click Reorder
  - On the Reorder Authentication Providers page, select a provider name and use the arrows beside the list to order the providers as follows:

**OPVAOAMIdentityAsserter** 

OPVAOIDAuthenticator

DefaultAuthenticator

DefaultIdentityAsserter

- Click OK to save your changes
- Activate Changes: In the Change Center, click Activate Changes

- Restart Oracle WebLogic Server
- **14.** The "BISystemUser" present in the default embedded LDAP should be deleted (via Security Realms in the Administration Console Link of the WebLogic Server) and the same/another user should be added in the newly added OID. This then needs to be added to the BI Application Roles as mentioned here:
  - Navigate to the Administration Console->Security Realms -> myrealm -> Users and Groups -> Users select the checkbox against BISystemUser (from Provider: Default Authenticator) and click on delete
  - Navigate to Security Realms -> myrealm -> Roles and Policies -> Realm Roles
     -> In the tree structure Expand Global Roles node and select the Roles link
  - In the subsequent screen Click on Admin role link
  - Click the button Add Conditions and in the next screen select the Predicate List as User and click Next
  - In the User Argument Name type in BISystemUser and click ADD and then click on the button Finish
  - In the Role Conditions screen ensure that the set operator is set to 'Or'
  - Save the configuration
  - Navigate to the Enterprise Manager of OBIEE or the Fusion Middleware Control page and navigate in the tree structure to the node Business Intelligence -> coreapplication and in the menu Business Intelligence Menu drop down select Security -> Application Roles
  - In the Roles displayed select BISystem and in the next screen remove the old BISystemUser (from the Default Provider) and add the newly created BISystemUser user in OID
  - Next add the trusted user's credentials to the oracle.bi.system credential map
  - From Fusion Middleware Control target navigation pane, expand the farm, then expand WebLogic Domain, and select bifoundation\_domain
    - From the WebLogic Domain menu, select Security, then Credentials
    - Open the oracle.bi.system credential map, select system.user and click Edit
    - In the Edit Key dialog, enter BISystemUser (or name you selected) in the User Name field. In the Password field, enter the trusted user's password that is contained in Oracle Internet Directory
    - Click OK
  - Restart the Managed Servers
- 15. Enabling SSO Authentication in the Weblogic Server for OBIEE:
  - Log in to Fusion Middleware Control (EM) of the WebLogic Server.
  - Navigate to the Business Intelligence Overview page.
  - Navigate to the Security page.
  - Click Lock and Edit Configuration.
  - Check Enable SSO this makes the SSO provider list becomes active.
  - Select the configured SSO provider from the list.
  - Click Apply, then Activate Changes.

 Manually edit each instanceconfig.xml file for every Oracle BI Presentation Services process to configure the login and logout information. Inside the <Authentication> section, add the following:

<SchemaExtensions>

<Schema name="SSO" logonURL="{your SSO logon URL}" logoffURL="{your logoff

URL}/>

</SchemaExtensions>

For e.g.-

<SchemaExtensions>

<Schema name="SSO" logonURL="http://<machinename>.<port> /analytics/saw.dll?bieehome&startPage=1" logoffURL="http://<machinename>.<port> /access/oblix/lang/en-us/logout.html"/>

</SchemaExtensions>

 Restart the Oracle Business Intelligence components using Fusion Middleware Control

# 2.7 Creating Users and Groups in OPVA

## 2.7.1 Creating Groups for OPVA in WebLogic Server

**Note:** The following steps are applicable for creating users and groups if the embedded LDAP is used for maintaining the authentication for OPVA. If not using the embedded LDAP then these groups should be created in the external LDAP provider.

- 1. Open a new browser window for the WebLogic Administration Console.
- 2. Navigate to Security Realms -> myrealm -> Users and Groups tab.

ORACLE WebLogic Server	B Adm	inistra	tion C	onsole						Q
Change Center	] 4	Home	e Log O	ut Preferences 🔤 R	ecord Help	٩	Welcon	ne, weblogic	Connected to:	
View changes and restarts									bifoundation	_domair
Click the Lock & Edit button to modify, add or	1_	Home >	Summar	y of Servers >Summary	of Security Realms >my	realm >Users and Grou	ps			
delete items in this domain.	S	ettings	for my	realm						
Lock & Edit		Configur	ation	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration		
Release Configuration		Users	Group	DS						
Domain Structure	1									
bifoundation_domain Derenvironment Deployments Dersenvices				ays information about (	each user that has be	en configured in this seo	curity realm.			
Security Realms		Users								
⊕-Interoperability ⊕-Diagnostics		New	Delet	e			s	howing 1 to 6	of 6 Previous	Next
			Name	<u>م</u>	Description			Provider		
			admin					DefaultAut	henticator	
			BISyste	mUser	BI System User			DefaultAut	henticator	
How do I	1		OracleS	SystemUser	Oracle application sof	tware system user.		DefaultAut	henticator	
Manage users and groups			PVA_SL	JPERUSER				DefaultAuti	henticator	
Create users     Modify users			us data	entry 1	us data entry 1 from o	opva_dwh		DefaultAut	henticator	
Delete users			weblog	c				DefaultAut	henticator	
System Status		New	Delet	е			s	howing 1 to 6	of 6 Previous	Next

Figure 2–28 myrealm Settings: Users and Groups tab

- **3.** Select the Groups Tab and click on New.
- 4. Enter the group name as 'PVAAdmin' and click OK.

Figure 2–29 myrealm Settings: Groups tab: New Group

Change Center	A Home Log Out Preferences 🔤 Record B	Help	Welcome, weblogic Connected to:
View changes and restarts			bifoundation_doma
Click the Lock & Edit button to modify, add or delete items in this domain.	Home >Summary of Servers >Summary of Secur	rity Realms >myrealm > <b>Users and Grou</b>	ps
Lock & Edit	Create a New Group		
Release Configuration	OK Cancel		
	Group Properties		
Domain Structure	The following properties will be used to identif	fy your new Group.	
bifoundation_domain  Deployments	* Indicates required fields		
	What would you like to name your new Group?		
Theroperability     Diagnostics	* Name: PVAAdmin		
	How would you like to describe the new Group	?	
	Description: PVA Administrators C	Group	
	Please choose a provider for the group.		
How do I	Provider: DefaultAuthenticator	•	
Create groups	OK Cancel		
Modify groups			
Delete groups			
Create users			
<ul> <li>Manage users and groups</li> </ul>			

**5.** Follow the above process to create the groups 'PVASafetyGroup' and 'PVASafetyConsumersGroup'.

## 2.7.2 Assigning OBIEE Application Roles for OPVA Groups

**Note:** The below steps are applicable for the groups created in either the embedded LDAP or an external LDAP e.g. OID.

1. Start a new browser window for the Enterprise Manager for Fusion Middleware Control and navigate to the Business Intelligence -> coreapplication overview page as shown here:

	anager 11g Fusion Middleware Control	Setup → Help → Log Out
Farm - & Topology		
□ ▼ □ ∰ Farm_bifoundation_domain	Coreapplication () Duriness Intelligence Instance -	Logged in as weblogic Page Refreshed May 31, 3013 3013913 AM POT 🔇
Application Deployments     WebLogic Domain     Business Intelligence     coreapplication	Change Center:  P Lock and Edit Configuration Overview Capacity Management Diagnostics Security Deployment	۲
🗈 🚞 Metadata Repositories	System Shutdown & Startup	Capacity Management
		Responsiveness Load
	System Status Hanage System	Repuest Processing Time (mo) 50.177 Active Session 2 Average Query Time (seconds) 0 Repuests Ser minuta) 659 Server Queres (per second) 0
		BL Instance Resource Center
	Diagnostics           Host Recent Errors           Serettry           Filed to restore ctx from reference           Serettry           Failed to restore ctx from reference           Serettry           Host Recent Warnings           Serettry           Serettry           Host Recent Warnings           Serettry           Serettry           Associate permosion class "andel as scheduler security Metadate/Hermsson", target "o	El Instance Resource Interest Enfort Valle Franklande Bunners Intelligence Parlom General Managero Grade Bunnes Intelligence Parlom General Management and Configuration Tasks Washed Bunnes Intelligence Dagrade and Resolve Status with Oracle Bunness Intelligence Dagrade Bunness Intelligence Hou Witho Control Bunness Intelligence Forums
	Serverty Cannot instantate permission class "oracle.as.scheduler security.MetadataPermission", target "o Serverty Cannot instantate nermission class. "oracle.as.scheduler security.MetadataPermission". target "o	

Figure 2–30 coreapplication Screen

**2.** Invoke the Application Roles by choosing from the menu drop down at Business Intelligence Instance -> Security -> Application Roles

Figure 2–31 coreapplication: Application Roles Screen

ORACLE Enterprise M	anager 11g Fusion Middleware Control	Setup 🕶 Help 👻 Log Out
BFarm - & Topology		
Farm_bifoundation_domain	coreapplication      @     sussess Inteligence Instance	Logged in as weblogic Page Rafreshed May 31, 2011 50:15:31 AM POT 🔇
Application Deployments     Deployments     WebLogic Domain     Deployments     Business Intelligence	Home cand Edit Configuration	۲
coreapplication     Metadata Repositories	Monitoring perment Diagnostics Security Deployment Security Application Polices	Capacity Management
	General Information  General Information  System Components  System Status  Hanage System	Responsiveness         Load           Reposit Processing Time (mg)         50.177           Average Query Time (aconds)         0           Server Queres (per scond)         0
	Al components are available     Start     Stop     Restart	BI Instance Resource Center
	Diagnostics Host Recent Errors	Before You Begin  The International Control C
	Security Message Security Message Security Message Security Related to restore citx from reference Security Related to restore citx from reference Host Recent Warnings Security Message Security	Perform General Management and Configuration Tasks     Manage the Clockshy of Grade Barness Intelligence     Degrade and Resolve Issues with Oracle Barness Intelligence     Manage the Degloyment of Oracle Barness Intelligence     Monage the Degloyment of Oracle Barness Intelligence     Concerness Intelligence on the Vitro     Concerness Intelligence Forums
	Connot instantiate permission class "anale as adhead as security Metadatatemession", strengt "     Connot instantiate permission class "anale as adhead as security Metadatatemession", strengt "     Connot instantiate permission class "anale as adhead as security Metadatatemession", strengt "	

3. Click on BIAdministrator application role and add the group PVAAdmin.

Farm - Topology			
3 •			Logged in as weblog
Rarm_bifoundation_domain	Business Intelligence Instance		Page Refreshed May 31, 2011 10/23:10 AM PDT
E DApplication Deployments			
🗄 🛅 WebLogic Domain	Application Roles > Edit Application Ro		
🗄 🛅 Business Intelligence	Edit Application Role : BIAd	ninistrator	OK Cancel
coreapplication	General		
🗄 🚞 Metadata Repositories	Application Stripe		
		BIAdministrator	
		BI Administrator Role	
		51 Administrator Kole	
	Description		
	Members		
			enterprise LDAP server, or the role can be mapped to other application roles.
		apped to users or groups derned in	enarprise LUAP server, or the role can be mapped to other application roles.
	Roles		
	🛉 Add Application Role 🔹		
	Name	Type	
	BIAdministrators PVAAdmin	Group	
	Present	Group	
	Users		
	👍 Add User 🛛 💥 Delete		
	• • • •		
	Name No users added.		
	No users added.		

Figure 2–32 coreapplication: Add Group

- 4. Click OK.
- 5. Repeat the above steps to add the groups created as per the table given here:

Application Role	PVA Groups to be added
BIAdministrator	PVAAdmin
BIAuthor	PVAAdmin, PVASafetyGroup
BIConsumer	PVAAdmin, PVASafetyGroup, PVASafetyConsumersGroup

**Note:** Refer to Appendix 2.9, OBIEE Default Application Roles for a list of privileges present as per the BIApplication Role specified above.

### 2.7.3 Creating Users for OPVA in WebLogic Server

**Note:** The below steps are applicable for creating users and groups if the embedded LDAP is used for maintaining the authentication for OPVA. It is recommended to create at least one user to be added in the PVAAdmin group created above, to be used as a PVA Application administrator.

- 1. Start a new browser window for the WebLogic Administration Console.
- **2.** Navigate to Security Realms -> myrealm -> Users and Groups tab.
- 3. Select the Users Tab and click on New.
- 4. Enter the User Name and Password details.
- 5. Click OK to save the User in the embedded LDAP.
- **6.** This takes you back to the Users table display. Click on the User that you newly created to display the page as shown here:

	Administration Console		<u> </u>
Thange Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic	Connected to:
View changes and restarts			bifoundation_dom
Click the Lock & Edit button to modify, add or	Home >Summary of Servers >Summary of Security Realms >myrealm >Users and Groups :	>admin	
delete items in this domain.	Settings for admin		
Lock & Edit	General Passwords Attributes Groups		
Release Configuration	Save		
Domain Structure			
bifoundation_domain	Use this page to change the description for the selected user.		
Deployments Services	Name: admin	The login name of this use	r. More Info
⊡Security Realms ⊡Interoperability ⊡Diagnostics	Description:	A short description of this the user's full name. Mor	user. For example, e Info
	Save		
How do I			
Create users			
Modify users			
Delete users			

Figure 2–33 Administration Console: General tab

- **7.** Click on Groups tab and select the appropriate PVA Group you want the user to be added to and save the details.
- **8.** Repeat the above steps to add users to the three groups (as created in the previous step).

### 2.7.4 Creating Users for DAC

- 1. Log in to the DAC Client as Administrator.
- **2.** Click on the menu File -> User Management.
- **3.** In the popped up window enter the following details.
  - a. Name: Login Name for the user being created for DAC.
  - **b.** Password: Password to authenticate the user being created.
  - c. Roles: Select one of the these roles:
    - Administrator
    - Operator
    - Developer

The following table lists the permissions available to each specific role.

Table 2–2Creating Users for DAC

Role	Permissions
Administrator	Read and write permission on all DAC tabs and dialog boxes.

Role	Permissions
Developer	Read and write permission on the following:
	-All Design view tabs
	-All Execute view tabs
	-Export dialog box
	-New Source System Container dialog box
	-Rename Source System Container dialog box
	-Delete Source System Container dialog box
	-Purge Run Details
	-All functionality in the Seed Data menu
Operator	Read and write permission on all Execute view tabs

 Table 2–2 (Cont.) Creating Users for DAC

d. Click on Save.

**Note:** It is recommended to create at least one user to be added with the Administrator Role in DAC to manage the DAC PVA metadata.

# 2.8 Configuring SSL for OPVA in OBIEE

To enable the default SSL configuration in OBIEE use the following steps:

- 1. Open the WLS Administrator console for OBIEE.
- 2. Navigate to Environment -> Servers in the tree view displayed on the left side.

Figure 2–34 Servers: Configuration tab

ORACLE WebLogic Server	Adm	inistra	tion Console					ç
Change Center	6	Home	e Log Out Preferences 🔤 Record I	teip Q			Welcome, webl	ogic Connected to: bifoundation_dom
/iew changes and restarts		Home >5	Summary of Servers					
lick the Lock & Edit button to modify, add or elete items in this domain.	S	ummar	y of Servers					
Lock & Edit		Configu	ration Control					
Release Configuration								
101000 001/200010	_			at runs in its own Java Virtual Machine (JVM)				
omain Structure		This pa	ige summarizes each server that has b	een configured in the current WebLogic Serv	er domain.			
foundation_domain		ζ3						
		R Custo	omize this table					
····Virtual Hosts			ers (Filtered - More Columns Exist	<b>`</b>				
····Migratable Targets ····Coherence Servers				Center to activate all the buttons on this page	<del>.</del>			
Coherence Clusters Machines			/ Cione Delete					Showing 1 to 2 of 2 Previous   Next
Work Managers								showing 1 to 2 of 2 Previous   Next
Deployments	111		Name 🗇	Cluster	Hachine	State	Health	Listen Port
Services Services	-	п	AdminServer(admin)		hsdewn/0044	RUNNING	<b>∕</b> ок	7001
How do I		п	bi_server1	bl_duster	hsdevwv0044	RUNNING	≪ок	9704
Create Managed Servers		New	Clone Delete					Showing 1 to 2 of 2 Previous   Next
Clone Servers Delete Managed Servers								
Delete the Administration Server								
<ul> <li>Start and stop servers</li> </ul>								
System Status	1							
Health of Running Servers								
Failed (0)	1							
Critical (0)								
Overloaded (0)								
Warning (0) OK (2)								
(6)								
							Succel	intranet 🖓 👻 🔩 100%

- 3. Click the Lock & Edit button to change the configuration.
- **4.** Click the AdminServer(admin) link and in the General Tab, enable the SSL listen port, as displayed below:

Thange Center	🔒 Home Log Ou	t Preference	s 🚵 Record	Help		Q						Welcome,	weblogic Connected to: bifoundation_dom
View changes and restarts	Home >Summary	of Servers >A	dminServer										
No pending changes exist. Click the Release	Settings for Adm	ninServer											
Configuration button to allow others to edit the domain.	Configuration	Protocols	Logging D	ebug	Monitoring Control	Deployments	Services	Security	Notes				
Lock & Edit	General Cus	ter Service	s Keystore	2 59	Federation Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	
Release Configuration	Save												
omain Structure													
ifoundation_domain	Use this page to View JNDI Tree		neral features	of this s	erver such as default n	etwork communi	cations.						
Virtual Hosts Migratable Targets	Name:				AdminServer					An alphan	umeric name for	this server instan	ce. More Info
**Coherence Clusters	Machine:				hsdevwv0044					The WebL Info	ogic Server hos	t computer (machir	e) on which this server is meant to run. More
Work Managers Startup and Shutdown Classes	Cluster:				(Standalone)					The cluste Info	r, or group of W	/ebLogic Server in:	tances, to which this server belongs. More
Services     Services     Vices	👸 Listen Addr	ress:								The IP add Info	dress or DNS na	me this server use	s to listen for incoming connections. More
How do L   Configure default network connections	Listen Port	t Enabled								Specifies v port. Mo		ver can be reache	d through the default plain-text (non-SSL) listen
Create and configure machines     Configure clusters	Listen Port:				7001					The defau connection	it TCP port that ns. More Info.	this server uses t	listen for regular (non-SSL) incoming
Start and stop servers     Configure WLDF diagnostic volume	S5L Listen	Port Enable	d							Indicates Info	whether the ser	ver can be reache	d through the default SSL listen port. More
System Status	SSL Listen Port	5			7002					The TCP/1	P port at which	this server listens	for SSL connection requests. More Info
Faled (0) Critical (0)	🗆 🚯 Client (	Cert Proxy E	nabled							Specifies wheader.	whether the Http More Info	pClusterServlet pr	in a special certificate in a special
Overloaded (0) Warning (0)	Java Compiler:				javac					The Java ( code, Mo		for all applications	hosted on this server that need to comple Java
OK (2)	Diagnostic Volu	ime:			Low					Specifies t	he volume of di	agnostic data that	is automatically produced by WebLogic Server

Figure 2–35 Servers: Configuration tab: General sub-tab

- 5. Click Save.
- **6.** In the Servers window, click bi\_server1 (or the link for the OBIEE server configured).
- 7. Enable the SSL Listen Port for the OBIEE server as well.

Figure 2–36 General sub-tab: Enable the SSL Listen Port

hange Center	Home Log Out F	Preferences	Record H	elp		Q						Welcome, v	veblogic Connected to: bifoundation_dom
ew changes and restarts	Home >Summary of	Servers > Ad	lminServer >Sum	mary o	f Servers >bi_server1								
pending changes exist. Click the Release infouration button to allow others to edit the	Settings for bi_ser	ver1											
main.	Configuration P	rotocols	Logging Deb	9	Monitoring Control	Deployments	Services	Security	Notes				
Lock & Edit	General Cluster	Service	Keystores	122	Federation Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	
Release Configuration													
	Save												
nain Structure				also a serie	erver such as default r								
ndation_domain			ieral teatures of	unis se	erver such as detault r	etwork communi	cations.						
Servers	View JNDI Tree												
Clusters Virtual Hosts	Name:				bi_server1					An alphan	marie name for	this server instance	na Mara Infa
Migratable Targets	name:				D[Server1					An alphan	umeric name for	uns server instand	e. More Info
Coherence Servers	Machine:				hsdevwv0044					The WebLo Info	ogic Server host	computer (machin	e) on which this server is meant to run. More
Machines										2110			
Work Managers Startup and Shutdown Classes	Cluster:				bi_duster					The cluster Info	r, or group of W	ebLogic Server ins	tances, to which this server belongs. More
Deployments													
Services Security Realms	👸 Listen Addres	s:								The IP add Info	dress or DNS nan	te this server uses	to listen for incoming connections. More
v do I													
	🔽 Listen Port E	nabled								Specifies v port, Mo	whether this serv re Info	er can be reached	I through the default plain-text (non-SSL) listen
Configure default network connections Treate and configure machines													
onfigure clusters	Listen Port:				9704						It TCP port that ! ns. More info		listen for regular (non-SSL) incoming
tart and stop servers													
Configure WLDF diagnostic volume	SSL Listen Po	ort Enable	4							Indicates v Info	whether the serv	er can be reached	d through the default SSL listen port. More
han Chabus 🗉													
tem status –	SSL Listen Port:				9804					The TCP/B	r port at which t	nis server listens f	or SSL connection requests. More Info
Ith of Running Servers	<b>5 8 a</b> 15									Specifies	whether the Hitto	ClusterServiet or a	xies the client certificate in a special
Faled (0)	🗖 👘 Client Cer	rt Proxy E	nabled							header.	More Info	counce and met pro	was end onen our encarde in a special
Critical (0)	Java Compiler:				1 million a					The Java d	tomoler to use fi	r all applications i	nosted on this server that need to compile Java
Overloaded (0)	sore compact.				javac					code. Mo			
Warning (0)													

- 8. Click on Save.
- 9. Edit the startWebLogic.cmd file present in the location

<OracleBIHome>\user\_projects\domains\bifoundation\_domain\ and add the below entry to the file before the "call" statement.

set JAVA\_OPTIONS=%JAVA\_OPTIONS% -Djavax.net.ssl.trustStore="D:/Oracle/Middleware/wlserver\_ 10.3/server/lib/DemoTrust.jks" -Djavax.net.ssl.trustStorePassword="" **Note:** Please edit the Path names according to your installation directories.

**10.** Restart all the Managed BI Servers.

**Note:** For more detailed information on configuring SSL certificates in OBIEE 11g, please refer to the guide - Oracle® Fusion Middleware Security Guide for Oracle Business Intelligence Enterprise Edition 11g Release 1 (11.1.1) section - SSL Configuration in Oracle Business Intelligence.

# 2.9 OBIEE Default Application Roles

Component	Privilege	Description	Default Role Granted
Access	Access to Dashboards	Allows users to view dashboards.	BIConsumer
Access	Access to Answers	Allows users to access the basic features of the Analysis editor.	BIAuthor
Access	Access to Delivers	Allows users to create and edit agents.	BIAuthor
Access	Access to Briefing Books	Allows users to view and download briefing books.	BIConsumer
Access	Access to Administration	Allows users to access the Administration pages in Presentation Services,	BIAdministrator
Access	Access to Segments	Allows users to access segments in Oracle's Siebel Marketing.	BIConsumer
Access	Access to Segment Trees	Allows users to access segment trees in Oracle's Siebel Marketing.	BIAuthor
Access	Access to List Formats	Allows users to access list formats in Oracle's Siebel Marketing.	BIAuthor
Access	Access to Metadata Dictionary	Allows users to access the metadata dictionary information for subject areas, folders, columns, and levels.	BIAdministrator
Access	Access to Oracle BI for Microsoft Office	See Section C.2.3.3.2, "Access to Oracle BI for Microsoft Office Privilege."	BIConsumer
Access	Access to Conditions	Allows users to create conditions.	BIAuthor
Access	Access to KPI Builder	Allows users to create KPIs.	BIAuthor
Access	Access to Scorecard	Allows users access to Oracle BI Scorecard.	BIConsumer
Actions	Create Navigate Actions	See Section C.2.3.3.1, "Access to Oracle BI Enterprise Edition Actions."	BIAuthor

Component	Privilege	Description	Default Role Granted
Actions	Create Invoke Actions	See Section C.2.3.3.1, "Access to Oracle BI Enterprise Edition Actions."	BIAuthor
Actions	Save Actions Containing Embedded HTML	See Section C.2.3.3.1, "Access to Oracle BI Enterprise Edition Actions."	BIAdministrator
Admin: Catalog	Change Permissions	Allows users to modify permissions for catalog objects.	BIAuthor
Admin: Catalog	Toggle Maintenance Mode	Shows the Toggle Maintenance Mode link on the Presentation Services Administration page, which allows users to turn maintenance mode on and off. In maintenance mode, the catalog is read-only; no one can write to it.	BIAdministrator
Admin: General	Manage Sessions	Shows the Manage Sessions link on the Presentation Services Administration page, which displays the Manage Sessions page in which users manage sessions.	BIAdministrator
Admin: General	Manage Dashboards	Allows users to create and edit dashboards, including editing their properties.	BIAdministrator
Admin: General	See Session IDs	Allows users to see session IDs on the Manage Sessions page.	BIAdministrator
Admin: General	Issue SQL Directly	Shows the Issue SQL link on the Presentation Services Administration page, which displays the Issue SQL page in which users enter SQL statements.	BIAdministrator
Admin: General	View System Information	Allows users to view information about the system at the top of the Administration page in Presentation Services.	BIAdministrator
Admin: General	Performance Monitor	Allows users to monitor performance.	BIAdministrator
Admin: General	Manage Agent Sessions	Shows the Manage Agent Sessions link on the Presentation Services Administration page, which displays the Manage Agent Sessions page in which users manage agent sessions.	BIAdministrator
Admin: General	Manage Device Types	Shows the Manage Device Types link on the Presentation Services Administration page, which displays the Manage Device Types page in which users manage device types for agents.	BIAdministrator

Component	Privilege	Description	Default Role Granted
Admin: General	eneral Manage Map Data Shows the Manage Map Data link on the Presentation Services Administration page, which displays the Manage Map Data page in which users edit layers, background maps, and images for map views.		BIAdministrator
Admin: General	See Privileged Errors	Allows users to see privileged error messages. Users can see detailed error messages about database connections or other details when lower level components fail.	BIAdministrator
Admin: General	See SQL Issued in Errors	Allows users to see SQL statements that are returned by the BI Server in error messages.	BIConsumer
Admin: General	Manage Marketing Jobs	Shows the Manage Marketing Jobs link on the Presentation Services Administration page, which displays the Marketing Job Management page in which users manage marketing jobs.	BIAuthor
Admin: General	Manage Marketing Defaults	Shows the Manage Marketing Defaults link on the Presentation Services Administration page, which displays the Manage Marketing Defaults page in which users manage defaults for Oracle's Siebel Marketing application.	BIAdministrator
Admin: Security	Manage Catalog Groups	Shows the Manage Catalog Groups link on the Presentation Services Administration page, which displays the Manage Catalog Groups page in which users edit Catalog groups.	BIAdministrator
Admin: Security	Manage Privileges	Shows the Manage Privileges link on the Presentation Services Administration page, which displays the Manage Privileges page in which users manage the privileges that are described in this table.	BIAdministrator
Admin: Security	Set Ownership of Catalog Objects	Allows users to edit the ownership of objects in the catalog on the Catalog page.	BIAdministrator
Admin: Security	User Population - Can List Users	Allows users to see the list of users for which they can perform tasks such as assigning privileges and permissions.	BIConsumer, BISystem
Admin: Security	User Population - Can List Groups	Allows users to see the list of groups for which they can perform tasks such as assigning privileges and permissions.	BIConsumer, BISystem

Component	Privilege	Description	Default Role Granted
Briefing Book	Add To or Edit a Briefing Book	Allows users to see the Add to Briefing Book link on dashboard pages and analyses and the Edit link in briefing books.	BIAuthor
Briefing Book	Download Briefing Book	Allows users to download briefing books.	BIConsumer
Catalog	Personal Storage	Allows users to have write access to their own My Folders folders and can create content there. If users do not have this privilege, then they can receive email alerts but cannot receive dashboard alerts.	BIConsumer
Catalog	Reload Metadata	Allows users to click the <b>Reload</b> <b>Server Metadata</b> link from the Refresh menu in the toolbar of the Subject Areas pane.	BIAdministrator
Catalog	See Hidden Items	Allows users to see hidden items in catalog folders. Users can also select the <b>Show Hidden Items</b> box on the Catalog page.	BIAuthor
Catalog	Create Folders	Allows users to create folders in the catalog.	BIAuthor
Catalog	Archive Catalog	Allows users to archive the folders and objects in the catalog.	BIAdministrator
Catalog	Unarchive Catalog	Allows users to unarchive catalog objects that have been archived previously.	BIAdministrator
Catalog	Upload Files	Allows users to upload files into an existing catalog.	BIAdministrator
Conditions	Create Conditions	Allows users to create or edit named conditions.	BIAuthor
Dashboards	Save Customizations	See Section 19.5, "Controlling Access to Saved Customization Options in Dashboards."	BIConsumer
Dashboards	Assign Default Customizations	See Section 19.5, "Controlling Access to Saved Customization Options in Dashboards."	BIAuthor
Formatting	Save SystemWide Column Formats	Allows users to save systemwide defaults when specifying formats for columns.	BIAdministrator
My Account	Access to My Account	Allows users to access the My Account dialog.	BIConsumer
My Account	Change Preferences	Allows users to access the Preferences tab of the My Account dialog.	BIConsumer
My Account	Change Delivery Options	Allows users to access the Delivery Options tab of the My Account dialog.	BIConsumer
Answers	Create Views	Allows users to create views.	BIAuthor
Answers	Create Prompts	Allows users to create prompts.	BIAuthor

Component	Privilege	Description	Default Role Granted
Answers	Access Advanced Tab	Allows users to access the Advanced tab in the Analysis editor.	BIAuthor
Answers	Edit Column Formulas	Allows users to edit column formulas.	BIAuthor
Answers	Save Content with HTML Markup	Allows users to save objects such as views and actions that contain HTML code.	BIAdministrator
Answers	Enter XML and Logical SQL	Allows users to use the Advanced SQL tab.	BIAuthor
Answers	Edit Direct Database Analysis	Allows users to create and edit requests that are sent directly to the back-end data source.	BIAdministrator
Answers	Create Analysis from Simple SQL	Allows users to select the <b>Create</b> <b>Analysis from Simple SQL</b> option in the Select Subject Area list.	BIAdministrator
Answers	Create Advanced Filters and Set Operations	Allows users to click the <b>Combine results based on</b> <b>union, intersection, and</b> <b>difference operations</b> button from the Criteria tab in the Analysis editor.	BIAuthor
Answers	Save Filters	Allows users to save filters	BIAuthor
Answers	Execute Direct Database Analysis	Allows users to issue requests directly to the back-end data source.	BIAdministrator
Delivers	Create Agents	Allows users to create agents.	BIAuthor
Delivers	Publish Agents for Subscription	Allows users to publish agents for subscription.	BIAuthor
Delivers	Deliver Agents to Specific or Dynamically Determined Users	Allows users to deliver agents to other users.	BIAdministrator
Delivers	Chain Agents	Allows users to chain agents.	BIAuthor
Delivers	Modify Current Subscriptions for Agents	Allows users to modify the current subscriptions for agents, including unsubscribing users.	BIAdministrator
Proxy	Act As Proxy	Allows users to act as proxy users for other users, as described in Section C.5, "Enabling Users to Act for Others."	Denied: BIConsumer
RSS Feeds	Access to RSS Feeds	Allows users to subscribe to and receive RSS feeds with alerts and contents of folders.	BIAuthor
		If Presentation Services uses the HTTPS protocol, then the RSS Reader that you use must also support the HTTPS protocol.	
Scorecard	Create/Edit Scorecards	Allows users to create and edit scorecards.	BIAuthor

Component	Privilege	Description	Default Role Granted
Scorecard	View Scorecards	Allows users to view scorecards.	BIConsumer
Scorecard	Create/Edit Objectives	Allows users to create and edit objectives.	BIAuthor
Scorecard	Create/Edit Initiatives	Allows users to create and edit initiatives.	BIAuthor
Scorecard	Create Views	Allows users to create and edit scorecard views, such as strategy trees.	BIAuthor
Scorecard	Create/Edit Causes and Effects Linkages	Allows users to create and edit cause and effect relationships.	BIAuthor
Scorecard	Create/Edit Perspectives	Allows users to create and edit perspectives.	BIAdministrator
Scorecard	Add Annotations	Allows users to add comments to KPIs and scorecard components.	BIConsumer
Scorecard	Override Status	Allows users to override statuses of KPIs and scorecard components.	BIConsumer
Scorecard	Create/Edit KPIs	Allows users to create and edit KPIs.	BIAuthor
Scorecard	Add Scorecard Views to Dashboards	Allows users to add scorecard views (such as strategy trees) to dashboards.	BIConsumer
List Formats	Create List Formats	Allows users to create list formats in Oracle's Siebel Marketing.	BIAuthor
List Formats	Create Headers and Footers	Allows users to create headers and footers for list formats in Oracle's Siebel Marketing.	BIAuthor
List Formats	Access Options Tab	Allows users to access the Options tab for list formats in Oracle's Siebel Marketing.	BIAuthor
List Formats	Add/Remove List Format Columns	Allows users to add and remove columns for list formats in Oracle's Siebel Marketing.	BIAdministrator
Segmentation	Create Segments	Allows users to create segments in Oracle's Siebel Marketing.	BIAuthor
Segmentation	Create Segment Trees	Allows users to create segment trees in Oracle's Siebel Marketing.	BIAuthor
Segmentation	Create/Purge Saved Result Sets	Allows users to create and purge saved result sets in Oracle's Siebel Marketing.	BIAdministrator
Segmentation	Access Segment Advanced Options Tab	Allows users to access the Segment Advanced Options tab in Oracle's Siebel Marketing.	BIAdministrator
Segmentation	Access Segment Tree Advanced Options Tab	Allows users to access the Segment Tree Advanced Options tab in Oracle's Siebel Marketing.	BIAdministrator

Component	Privilege	Description	Default Role Granted
Segmentation	Change Target Levels within Segment Designer	Allows users to change target levels within the Segment Designer in Oracle's Siebel Marketing.	BIAdministrator
SOAP	Access SOAP	Allows users to access various web services.	BIConsumer, BISystem
SOAP	Impersonate as System User	Allows users to impersonate a system user using a web service.	BISystem
SOAP	Access MetadataService	Allows users to access the MetadataService web service.	BIConsumer, BISystem
SOAP	Access AnalysisExportViews Service	Allows users to access the ReportingEditingService web service.	BIConsumer
SOAP	Access ReportingEditingServ ice	Allows users to access the ReportingEditingService web service.	BIConsumer, BISystem
SOAP	Access ConditionEvaluation Service	Allows users to access the ConditionEvaluationService web service.	BIConsumer, BISystem
SOAP	Access ReplicationService	Allows users to access the ReplicationService web service to replicate the Oracle BI Presentation Catalog.	BISystem
SOAP	Access CatalogIndexingServi ce	Allows users to access the CatalogIndexingService web service to index the Oracle BI Presentation Catalog for use with full-text search.	BISystem
SOAP	Access DashboardService	Allows users to access the DashboardService web service.	BIConsumer, BISystem
SOAP	Access SecurityService	Allows users to access the SecurityService web service.	BIConsumer, BISystem
SOAP	Access ScorecardMetadataSe rvice	Allows users to access the ScorecardMetadataService web service.	BIConsumer, BISystem
SOAP	Access ScorecardAssessment Service	Allows users to access the ScorecardAssessmentService web service.	BIConsumer, BISystem
SOAP	Access HtmlViewService	Allows users to access the HtmlViewServiceService web service.	BIConsumer, BISystem
SOAP	Access CatalogService	Allows users to access the CatalogService web service.	BIConsumer, BISystem
SOAP	Access IBotService	Allows users to access the IBotService web service.	BIConsumer, BISystem
SOAP	Access XmlGenerationServic e	Allows users to access the XmlGenerationService web service.	BIConsumer, BISystem
SOAP	Access JobManagementServi ce Service	Allows users to access the JobManagementService web service.	BIConsumer, BISystem

Component	Privilege	Description	Default Role Granted
боар	Access KPIAssessmentServic e	Allows users to access the JKPIAssessmentService web service.	BIConsumer, BISystem
Subject Area (by its name)	Access within Oracle BI Answers	Allows users to access the specified subject area within the Answers editor.	BIAuthor
View Analyzer	Add/Edit AnalyzerView	Allows users to access the Analyzer view.	BIAdministrator
View Column Selector	Add/Edit Column SelectorView	Allows users to create and edit column selector views.	BIAuthor
View Compound	Add/Edit CompoundView	Allows users to create and edit compound layouts.	BIAuthor
View Graph	Add/Edit GraphView	Allows users to create and edit graph views.	BIAdministrator
View Funnel	Add/Edit FunnelView	Allows users to create and edit funnel graph views.	BIAuthor
View Gauge	Add/Edit GaugeView	Allows users to create and edit gauge views.	BIAuthor
View Filters	Add/Edit FiltersView	Allows users to create and edit filters.	BIAuthor
View Dashboard Prompt	Add/Edit Dashboard PromptView	Allows users to create and edit dashboard prompts.	BIAuthor
View Static Text	Add/Edit Static TextView	Allows users to create and edit static text views.	BIAuthor
View Legend	Add/Edit Legend View	Allows users to create and edit legend views.	BIAuthor
View Map	Add/Edit MapView	Allows users to create and edit map views.	BIAuthor
View Narrative	Add/Edit NarrativeView	Allows users to create and edit narrative views.	BIAuthor
View Nested Request	Add/Edit Nested RequestView	Allows users to create and edit nested analyses.	BIAuthor
View No Results	Add/Edit No ResultsView	Allows users to create and edit no result views.	BIAuthor
View Pivot Table	Add/Edit Pivot TableView	Allows users to create and edit pivot table views.	BIAuthor
View Report Prompt	Add/Edit Report PromptView	Allows users to create and edit prompts.	BIAuthor
View Create Segment	Add/Edit Create SegmentView	Allows users to create and edit segment views.	BIAuthor
View Logical SQL	Add/Edit Logical SQLView	Allows users to create and edit logical SQL views.	BIAuthor
View Table	Add/Edit TableView	Allows users to create and edit table views.	BIAuthor
View Create Target List	Add/Edit Create Target ListView	Allows users to create and edit target list views.	BIAuthor
View Ticker	Add/Edit TickerView	Allows users to create and edit ticker views.	BIAuthor

Component	Privilege	Description	Default Role Granted
View Title	Add/Edit TitleView	Allows users to create and edit title views.	BIAuthor
View View Selector	Add/Edit View SelectorView	Allows users to create and edit view selector views.	BIAuthor
Write Back	Write Back to Database	Grants the right to write data into the data source.	Denied: BIConsumer
Write Back	Manage Write Back	Grants the right to manage write back requests.	BIAdministrator