### **Oracle Financial Services Profitability Management Application Pack**

Installation and Configuration Guide

Release 8.0.5.0.0



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### Preface

This Preface provides supporting information for the Oracle Financial Services Analytical Applications Profitability Pack Installation Guide and includes the following topics:

- Summary
- Audience
- Documentation Accessibility
- Related Documents
- Conventions

### Summary

You can find the latest copy of this document in OHC library which includes all the recent additions/revisions (if any) done till date.

Before you begin the installation, ensure that you have an access to the Oracle Support Portal with the required login credentials to quickly notify us of any issues at any stage. You can obtain the login credentials by contacting Oracle Support.

### Audience

The Oracle Financial Services Analytical Applications (OFSAA) profitability pack Installation and Configuration Guide is intended for Administrators, Business User, Strategists, and Data Analyst, who are responsible for installing and maintaining the application pack components.

The document assumes you have experience in installing Enterprise components. Basic knowledge about the OFSAA PROFITABILITY pack components, OFSAA Architecture, UNIX commands, Database concepts and Web Server/ Web Application Server is recommended.

Following are the expected preparations from the administrator before starting the actual installation:

- Awareness of the OFSAA Tier Architecture. For more information, see the Application Tiers section.
- Decision on the appropriate OFSAA Deployment Option. For more information, see the Recommended Deployment Options section.

### **Related Documents**

This section identifies additional documents related to OFSAA Infrastructure. You can access Oracle documentation online from Documentation Library (OHC).

- Oracle Financial Services Funds Transfer Pricing Management User Guide
- Oracle Financial Services Profitability Management User Guide
- Oracle Financial Services Enterprise Financial Performance Analytics User Guide
- Oracle Financial Services Institutional Performance Analytics User Guide
- Oracle Financial Services Retail Performance Analytics User Guide

### **Conventions and Acronyms**

Conventions	Description
AIX	Advanced Interactive executive
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
GUI	Graphical User Interface
нттрѕ	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
MVL	Java Virtual Machine

### CHAPTER 1

## About OFSAA and OFSAA Application Packs

This chapter includes the following topics:

- About Oracle Financial Services Analytical Applications (OFSAA)
- About Oracle Financial Services Analytical Applications (OFSAA) Pack
- About Oracle Financial Services Profitability 8.0.5.0.0 Applications Pack
- About Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)

### About Oracle Financial Services Analytical Applications (OFSAA)

In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk adjusted performance objectives, cultivate a risk management culture through transparency, lower the costs of compliance and regulation, and improve insight into customer behavior.

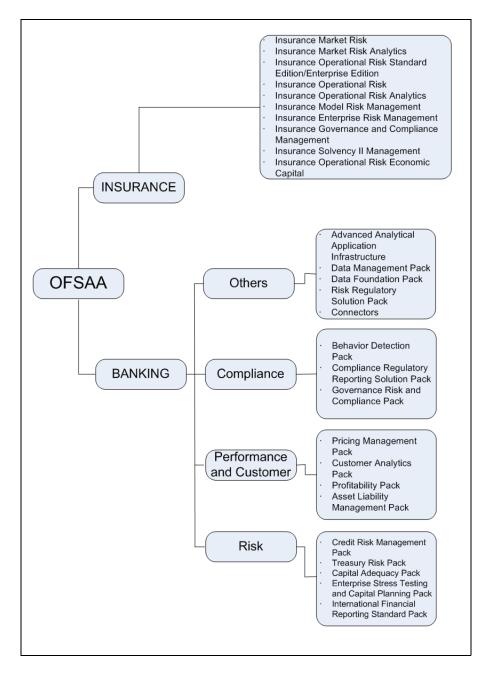
OFSAA uses industry-leading analytical methods, shared data model and applications architecture to enable integrated risk management, performance management, customer insight, and compliance management. OFSAA actively incorporates risk into decision making, enables to achieve a consistent view of performance, promote a transparent risk management culture, and provide pervasive intelligence.

Oracle Financial Services Analytical Applications delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domain.

### About Oracle Financial Services Analytical Applications (OFSAA) Pack

OFSAA applications are packaged, and released as Application Packs starting from 8.0 release. An Application Pack is a group of OFSAA products packaged together in a single installer and addresses specific functional area via its products that are grouped together. Packaging applications in a group ensures simplified installation, maintenance, development and integration in an integrated deployment.

The following figure depicts the various application packs that are available across the OFSAA Banking and Insurance domains:



### About Oracle Financial Services Profitability 8.0.5.0.0 Applications Pack

OFS Profitability 8.0.5.0.0 Pack includes the following applications:

Oracle Financial Services Analytical Applications Infrastructure: Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection and manipulation of data and information needed to analyze, understand and report on specific performance, risk, compliance and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

- Oracle Financial Services Funds Transfer Pricing Management: It enables the bank to apply various transfer pricing methods on products to calculate funds transfer price. It calculates transfer price across all product types varying in terms of characteristics like fixed rate or floating rate instruments, bullet or amortizing or fixed tenor or perpetual instruments. In addition it also supports the calculation of transfer price at account level or ledger level including migration of charge or credit to ledger if required.
- Oracle Financial Services Profitability Management: It helps Banks and Financial services institutions manage and monitor interest rate risk, liquidity risk, foreign currency risk and earnings risk. The application models every loan, deposit, investment portfolio individually to help institutions better understand the risks they have assumed and their sensitivity to economic conditions.
- Oracle Financial Services Enterprise Financial Performance Analytics: It is based upon a dedicated reporting mart built on the new Financial Services Data Model. OFSEFPA leverages several components of OBIEE technology including Dashboards and Answers. It includes various Dashboards and Reports for the user to carry out various Profitability Management based analytics.
- Oracle Financial Services Institutional Performance Analytics: It provides strategic insights on Profitability of the business and the underlying customers, Product holdings and Relationship depth across the organization, Behavioral and Engagement trends of it's target segments exposures, commitments, line utilization, assets/liabilities, deposits, withdrawals, Fees, Income, recent transactions and so on, Efficiency of investments (like marketing, partner development), Efficiency of the sales force in terms of ongoing customer revenue generation, cross-sell and up-sell, product usage and pipeline.
- Oracle Financial Services Retail Performance Analytics: It focuses on Summary performance of the LOBs and overall profitability, Portfolio mix, LOB specific profitability reports to be analyzed against key dimensions like customer segments, product family, region, branch, risk scores and so on, Product holdings and Relationship depth across the LOBs, Customer Trends across performance drivers like Sales, Balances, Deposits, Product subscriptions (revenue services), Credit scores and delinquency bands, losses, and so on, Wallet Share analysis and customer lifetime value, Efficiency of investments (like marketing, branch, channel and so on) over time.

### About Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)

Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection and manipulation of data and information needed to analyze, understand and report on specific performance, risk, compliance and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

### **Components of OFSAAI**

The OFSAA Infrastructure is comprised of a set of frameworks that operates on and with the Oracle Financial Services Analytical Applications Data Model and form the array of components within the Infrastructure.

The OFSAA Infrastructure components/ frameworks are installed in two layers; primarily the Metadata server and Infrastructure services run on one layer, and the UI and presentation logic runs on the other. The UI and presentation layer is deployed on any of the supported J2EE Servers.

The following figure depicts the various frameworks and capabilities that make up the OFSAA Infrastructure:

#### About Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) Chapter 1—About OFSAA and OFSAA Application Packs

Modeling & Stress Testing Framework	Computations & Rule Framework	Run Framework	Mart Management Framework	
Forms Manager	Business Processors	Conditional Execution	Cube Builder	
Workflow Manager	Multi-hierarchy Conditional - Rules	Baseline Run	Relational Mart Builder	
Business Dimension Maps	Rules Executed in DB	Simulation Run	Aggregated & OLAP Computed Measures	
TE FINAN	CIAL SERVICES ANALYTICAL APPLIC	ATIONS FRAMEWORK	Forms & Workflow Framework	
LA M			BPEL Workflows	
FIED ANALYTI METADATA VIENNA	CIAL SERVICES ANALYTICAL APPLIC	ATIONS FRAMEWORK	Forms Manager	
	CIAL SERVICES ANALYTICAL APPLIC	CATIONS DATA MODEL	Business Mapper	
TZT Data Process Framewor	_	CATIONS DATA MODEL Batch & Real-Time Management	Business Mapper Metadata Management Framework	
T2T Data Process Framewor	_		Metadata Management	
NO.	rk Data Quality	Batch & Real-Time Management	Metadata Management Framework	

### **OFSAA Infrastructure High Availability**

The current release of the OFSAA Infrastructure supports only "Single Instance" installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and/ or the Web Application Server clustering and deployment are supported in this release.

This release supports Active-Passive model of implementation for OFSAAI components. For more information, see Configuration for High Availability- Best Practices Guide.

About Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) Chapter 1—About OFSAA and OFSAA Application Packs

### CHAPTER 2

### Understanding OFS Profitability Application Pack Installations

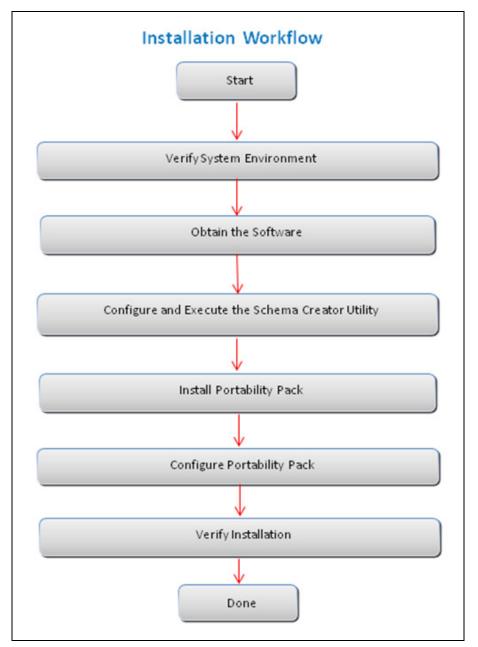
This chapter includes the following topics:

- Installation Overview
- Hardware and Software Requirements
- Verifying the System Environment
- Output Standing Installation Modes

### Installation Overview

This release (8.0.5.0.0) of the OFS Profitability Application Pack bundles the upgrade patch set along with the base installer. Users/ Administrators who wish to install a new OFS Profitability Application Pack 8.0.5.0.0 instance or upgrade an existing OFS Profitability Application Pack 8.0.x instance to 8.0.5.0.0 should download this installer. Figure 1 shows the order of procedures you will need to follow to install a new OFS Profitability Pack 8.0.5.0.0 instance. For upgrading a current OFS Profitability Application Pack 8.0.x instance to 8.0.5.0.0 release, see Upgrading to OFS Profitability Application Pack 8.0.x.

This section gives an overview of the OFS Profitability Applications Pack Installation. The following figure shows the order of procedures you need to follow:



The following table describes the tasks and their descriptions:

Tasks	Details and Documentation
Verify Systems Environment	To verify that your system meets the minimum necessary requirements for installing and hosting the OFS Profitability Application Pack, see Verifying the System Environment.
Obtain the software	To access and download the OFS Profitability Application Pack, see Obtaining the Software.
Configure and Execute the Schema Creator Utility	For instructions on creating the database schemas, see Configuring and Executing the Schema Creator Utility.
Install OFS Profitability Application Pack	For instructions on Installing OFS Profitability Application Pack, see Installing the OFS Profitability Applications Pack.
Configure OFS Profitability Setup	See Post Installation Configuration.

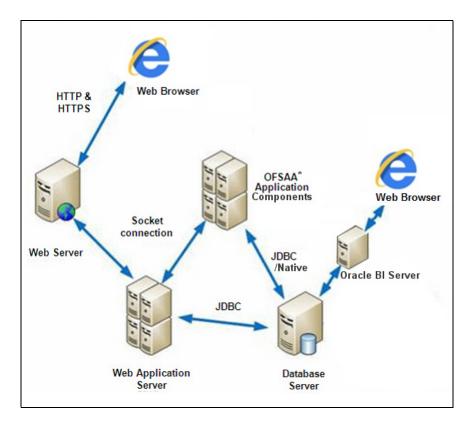
### Upgrading to OFS Profitability Application Pack 8.0.5.0.0

To upgrade the current OFS Profitability Application Pack 8.0.x instance to 8.0.5.0.0, follow these steps:

- 1. See the sections Downloading and Copying the OFS Profitability Applications Pack Installer and Copying and Extracting the Software.
- 1. See Upgrading the OFS PFT Application Pack for detailed instructions.

### **Deployment Topology**

The following figure depicts the typical deployment topology implemented for OFSAA Applications.



### Hardware and Software Requirements

This section describes the various Operating Systems, Database, Web Server, and Web Application Server versions, and other variant details on which this release of the Oracle Financial Services Profitability Application Pack has been qualified.

Note: OFS Profitability Application Pack installation can be performed on both Virtual and Physical servers.

### **Configurations Supported for Java 7**

The following table shows the minimum hardware and software requirements for installing OFS Profitability Application Pack (for Java 7).

Requirement	Sub-Category	Value	
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Red Hat Enterprise Linux or Oracle Linux Server release 6 update 6 to latest update version	
		Red Hat Enterprise Linux or Oracle Linux Server release 7 update 1 to latest update version	
	Oracle Solaris (SPARC)/ Solaris x86	Oracle Solaris v5.10 Update 11 and above - 64 bit	
		Oracle Solaris v5.11 update 1 and above - 64 bit	
	IBM AIX (PowerPC)	AIX 6.1 (TL 09 and above) - 64 bit	
	Shell	KORN Shell (KSH)	
	Note:		
	• If the OS is IBM AIX 6.1 and the file size limit for the AIX user on the target server is too small, configure the size parameter setting for "Large File Support". Follow these steps:		
	<ul> <li>Change the file size limit for the user that initiates the transfer on the AIX system. To change the file size limit for a particular user, add or edit the fsize attribute for the user in the /etc/security/limits fi on the AIX system. Change the file size limit to unlimited (fsize = -1) or to a size equal to the size of th file being transferred. This may require an restart of the AIX server to pick up the new configuration For more information, see IBM Support.</li> <li>If the operating system is RHEL, install the package lsb_release using one of the following command by logging in as root user:</li> </ul>		
	yum install redhat-lsb-core		
	yum install redhat-lsb		
	<ul> <li>The above is required as during the installation process, the following command is executed to get the OS version and release:</li> <li>lsb_release -r</li> <li>To install this release on Oracle Solaris OS, refer to the following list for version specific information:</li> </ul>		
		I/E60743/gouaw.html#scrolltoc to upgrade to SRU09 , install the required runtime libraries. For more	
	"Solaris 10 - Install the required OS patches. For more information, see Installing the Required Oracle Solaris 10 Patches. Additionally, install the required runtime libraries. For more information, see Installing Only the Runtime Libraries on Oracle Solaris 10.		
	<b>Note</b> : In an OFSAA instance where multiple OFSAA application packs have been installed/ deployed, it is mandatory to upgrade all OFSAA application packs to 8.0.4.0.0 release. You should start the upgrade of OFS AAAI< <your name="" pack="">&gt;pack, only after confirming that all of the application packs in your OFSAA instance are available for upgrade to 8.0.4.0.0 version. For information on availability of the required OFSAA Application Packs, see 2246606.1.</your>		
	Based on the returned information, the installer copie \$FIC_DB_HOME/bin and \$FIC_DB_HOME/lib folders.	es the appropriate binary and library files into the	
Java Runtime	Oracle Linux / Red Hat Enterprise Linux	Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit	
Environment	IBM AIX	IBM AIX Runtime, Java Technology JRE 1.7.x - 64 bit	

Requirement	Sub-Category	Value		
Oracle Database Server and Client		Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option		
		Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option		
		Oracle Client 11g Enterprise Edition Release 2 (11.2.0.3.0+) - 64 bit		
		Oracle Client 12c Enterprise Edition Release 1 (12.1.0.1.0+) - 64 bit		
		Oracle 11g Enterprise Edition Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver)		
		Oracle 12C Enterprise Edition Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)		
		Oracle Distribution of R version 3.0.1 (Optional)		
		Oracle R Enterprise (Server) version 1.4. (Optional)		
	Note: Ensure that the following patches are applied:			
	• Oracle Server 12c, v12.1.0.1 - 17082699	• Oracle Server 12c, v12.1.0.1 - 17082699		
	• Oracle Server 12c, v12.1.0.2 - 19392604, 19649591			
	<ul> <li>Also for latest information, see <a href="http://support.org">http://support.org</a> Systems and DB In-Memory - List of Fixes in each</li> </ul>	· · · · · · · · · · · · · · · · · · ·		
	Oracle R Enterprise 1.4 requires Oracle Databas	e Enterprise Edition 11.2.0.3/ 11.2.0.4/ 12.1.0.1.		
	In Oracle release 12.2, the default value for the SQLNET.ALLOWED_LOGON_VERSION_SERVER par "12", i.e. Exclusive Mode. It is recommended to set this parameter as described below. This will re SQLNET.ALLOWED_LOGON_VERSION_SERVER setting in the sqlnet.ora file to a more permiss setting.			
	Set the following parameters as below:			
	SQLNET.ALLOWED_LOGON_VERSION_CLIENT	= 8		
	SQLNET.ALLOWED_LOGON_VERSION_SERVER = 8			
OLAP	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database		
		V 11.1.2.3+ (Server and Client) with Oracle 12c Database		
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database		
		V 12.1.0.1+ with Oracle 12c Database		
	Note:			
	Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.			

Requirement	Sub-Category	Value
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux Oracle Solaris IBM AIX	<ul> <li>Oracle HTTP Server 11.1.1.1/ Apache HTTP Server</li> <li>2.2.x/ IBM HTTP Server</li> <li>Oracle HTTP Server 11.1.1.1/ Apache HTTP Server</li> <li>2.2.x/ IBM HTTP Server</li> <li>Oracle Weblogic Server 12.1.3+ with jersey 1.18</li> <li>Oracle Weblogic Server 12.2.x (8) with jersey 2.25</li> <li>IBM WebSphere Application Server WebSphere 8.5.5.9+</li> <li>Apache Tomcat 8.0.46 (64 bit)</li> <li>Note: Apply the mandatory patch 26803128 for Tomcat versions above 8.0.32.</li> </ul>
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle supported.	
Desktop Requirements	Browser	MS Internet Explorer 9, 10 and 11 Oracle Java plug-in 1.7.0+* (64- bit) /Oracle Java plug-in 1.8.0+ (64- bit) Turn off Pop-up blocker settings. For more information, see Internet Explorer Settings.
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 and above
	Screen Resolution	1024*768 or 1280*1024
Other Softwares	Directory Services	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.
Note: Configuration of Directory services software for OFSAAI installa configuration, see Infrastructure LDAP Configuration. Open LDA Server machine only.		•

### **Configurations Supported for Java 8**

The following table shows the minimum hardware and software requirements for installing OFS PFT Application Pack (for Java 8).

Requirement	Sub-Category	Value	
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Red Hat Enterprise Linux or Oracle Linux Server release 6 update 6 to latest update version	
		Red Hat Enterprise Linux or Oracle Linux Server release 7 update 1 to latest update version	
	Oracle Solaris (SPARC)/ Solaris x86	Oracle Solaris v5.10 Update 11 and above - 64 bit	
		Oracle Solaris v5.11 update 1 and above - 64 bit	
	IBM AIX (PowerPC)	AIX 6.1 (TL 09 and above) - 64 bit	
	Shell	KORN Shell (KSH)	
	Note:		
	• If the OS is IBM AIX 6.1 and the file size limit for the AIX user on the target server is too small, configure the size parameter setting for "Large File Support". Follow these steps:		
	<ul> <li>Change the file size limit for the user that initiates the transfer on the AIX system. To change the size limit for a particular user, add or edit the fsize attribute for the user in the /etc/security/lin on the AIX system. Change the file size limit to unlimited (fsize = -1) or to a size equal to the size file being transferred. This may require an restart of the AIX server to pick up the new configu For more information, see IBM Support.</li> <li>If the operating system is RHEL, install the package lsb_release using one of the following com by logging in as root user:</li> </ul>		
	■ yum install redhat-lsb-core		
	■ yum install redhat-Isb		
	OS version and release: lsb_release -r	process, the following command is executed to get the to the following list for version specific information:	
	<ul> <li>"Solaris 11 - Upgrade to Oracle Solaris 11.3 with SRU09 or higher. See https://docs.oracle.com/cd/E60778_01/html/E60743/gouaw.html#scrolltoc to upgrade if you have a lower SRU version. Additionally, install the required runtime libraries. For information, see Installing Only the Runtime Libraries on Oracle Solaris 11.</li> </ul>		
	Solaris 10 - Install the required OS patches. For more information, see Installing the Required Oracle Solaris 10 Patches. Additionally, install the required runtime libraries. For more information, see Installing Only the Runtime Libraries on Oracle Solaris 10.		
	<b>Note</b> : In an OFSAA instance where multiple OFSAA application packs have been installed/ deployed, it is mandatory to upgrade all OFSAA application packs to 8.0.4.0.0 release. You should start the upgrade of OFS AAAI< <your name="" pack="">&gt;pack, only after confirming that all of the application packs in your OFSAA instance are available for upgrade to 8.0.4.0.0 version. For information on availability of the required OFSAA Application Packs, see 2246606.1.</your>		
	Based on the returned information, the installer copies the appropriate binary and library files into the $\$FIC_DB_HOME/bin$ and $\$FIC_DB_HOME/lib$ folders.		
Java Runtime	Oracle Linux / Red Hat Enterprise Linux//IBM AIX/	Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit	
Environment	Oracle Solaris		
	IBM AIX	IBM AIX Runtime, Java Technology JRE 1.8.x - 64 bit	

#### Hardware and Software Requirements Chapter 2—Understanding OFS Profitability Application Pack Installations

Requirement	Sub-Category	Value	
Oracle Database Server and Client		Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option	
		Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option	
		Oracle Client 11g Release 2 (11.2.0.3.0+) - 64 bit	
		Oracle Client 12c Release 1 (12.1.0.1.0+) - 64 bit	
		Oracle 11g Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver)	
		Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)	
		Oracle Distribution of R version 2.15.1, 2.15.2 or 2.15.3.(Optional)	
		Oracle R Enterprise (Server) version 1.4. (Optional)	
	Note: Ensure that the following patches are applied:		
	<ul> <li>Oracle Server 12c, v12.1.0.1 - 17082699</li> </ul>		
	<ul> <li>Oracle Server 12c, v12.1.0.2 - 19392604, 19649591</li> </ul>		
	<ul> <li>Also for latest information, see <a href="http://support.oracle.com">http://support.oracle.com</a>, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)</li> </ul>		
	• Oracle R Enterprise 1.4 requires Oracle Database Enterprise Edition 11.2.0.3/ 11.2.0.4/ 12.1.0.1.		
	In Oracle release 12.2, the default value for the SQLNET.ALLOWED_LOGON_VERSION_SERV "12", i.e. Exclusive Mode. It is recommended to set this parameter as described below. This SQLNET.ALLOWED_LOGON_VERSION_SERVER setting in the sqlnet.ora file to a more p setting.		
	Set the following parameters as below:		
	SQLNET.ALLOWED_LOGON_VERSION_CLIENT = 8		
	SQLNET.ALLOWED_LOGON_VERSION_SERVER	= 8	
OLAP	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database	
		V 11.1.2.3+ (Server and Client) with Oracle 12c Database	
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database	
		V 12.1.0.1+ with Oracle 12c Database	
	Note:		
	Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.		
Web Server/ Web	Oracle Linux / Red Hat Enterprise Linux / IBM AIX	Oracle HTTP Server 11.1.1.1/ Apache HTTP Server	
Application Server	Oracle Solaris	2.2.x/ IBM HTTP Server	

Requirement	Sub-Category	Value	
Server		Oracle 11g and 12c Database:	
		• Oracle WebLogic Server 12.1.3+ (64 bit)	
		• Apache Tomcat 8.0.46 (64 bit)	
		<b>Note:</b> Apply the mandatory patch <b>26803128</b> for Tomcat versions above 8.0.32.	
	Note:	· · · ·	
	OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.		
	For deployment on Oracle WebLogic Server 12.1.3+ (64 bit) with Java 8, download and install patch 18729264 from http://support.oracle.com.		
Desktop	Operating System	MS Windows 7/ Windows 8/ Windows 8.1	
Requirements	Browser	MS Internet Explorer 9, 10 and 11	
		Oracle Java plug-in 1.7.0+* (64- bit)	
		Turn off Pop-up blocker settings. For more information, see Internet Explorer Settings.	
	Office Tools	MS Office 2007/ 2010/2013	
		Adobe Acrobat Reader 8 and above	
	Screen Resolution	1024*768 or 1280*1024	
Other Software	Directory Services	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.	
	Note:	· · · ·	
	Configuration of Directory services software for OFSAAI installation is optional. For more information on configuration, see Infrastructure LDAP Configuration.		
	Open LDAP needs to be installed on MS Windows Server machine only.		

**Note:** To upgrade an existing OFSAA 8.0.x Java 7 instance to Java 8, see Upgrading an Existing OFSAA 8.0.x Java 7 Instance to Java 8.

Operating System	Database	Web Application Server	Web Server	R
Red Hat Enterprise Linux or Oracle Linux Server release 6 update 6 to latest update version Red Hat Enterprise Linux or Oracle Linux Server release 7 update 1 to latest update version	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server	3.0.1
Oracle Solaris 5.10/ 5.11	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server	3.0.1
IBM AIX 6.1	Oracle Database	IBM WebSphere Application Server/ Apache Tomcat Server	IBM HTTP Server/ Apache HTTP Server	3.0.1

OFS PFT Application Pack recommends the following software combinations for deployment:

### Verifying the System Environment

To verify if your system environment meets the minimum requirements for the installation, a Pre-Install Check utility (Environment Check) is available within the Install Kit archive file. This utility can also be obtained separately by contacting Oracle Support.

Though the system environment verification is an integral and automated part of the installation of this software product, Oracle strongly recommends running this utility prior to beginning the installation as part of your organization's "Installation Readiness Verification Process".

**Note:** For more details on download and usage of this utility, see *Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide* given in the Related Documents section.

### **Understanding Installation Modes**

The following modes of installation are available for the OFS Profitability Application Pack.

### **GUI Mode**

This mode launches the product installation in a Graphical User Interface (GUI) Mode. You need to enter the required information on various panels within the UI in a user interaction format at various stages.

Note: See GUI Mode Installation for details on configuration required for GUI Mode installation.

### SILENT Mode

This mode mandates updating the installation configuration files with required details and performs installation in a "SILENT" non user interactive format.

Note: See SILENT Mode Installation for details on configuration required for SILENT Mode installation.

### CHAPTER 3 Preparing for Installation

This chapter provides necessary information to review before installing the OFS Profitability Pack v8.0.5.0.0.

This chapter includes the following topics:

- Installer and Installation Prerequisites
- Obtaining the Software
- Common Installation Tasks

### Installer and Installation Prerequisites

The following table mentions the list of prerequisites required before beginning the installation for OFS Profitability Application Pack. The Installer/ Environment Check utility notifies you if any requirements are not met.

Requirement	Sub-Category	Expected Value
Environment Settings	Java Settings	PATH in .profile to be set to include the Java Runtime Environment absolute path. The path should include Java version (Java 6, Java 7 or Java 8) based on the configuration.
		<b>Note</b> : Ensure the absolute path to JRE/bin is set at the beginning of PATH variable.
		For example, PATH=/usr/java/jre1.6/bin:\$ORACLE_HOME/bin:\$PATH
		Ensure no SYMBOLIC links to JAVA installation is being set in the PATH variable.
	Oracle Database Settings	TNS_ADMIN to be set in .profile pointing to appropriate tnsnames.ora file
		ORACLE_HOME to be set in .profile pointing to appropriate Oracle Client installation
		PATH in .profile to be set to include appropriate \$ORACLE_HOME/bin path.
		Ensure to add an entry (with SID/ SERVICE NAME) in the tnsnames.ora file on the OFSAA server.
	Oracle Essbase Settings	ARBORPATH, ESSBASEPATH, HYPERION_HOME to be set in the .profile pointing to an appropriate Oracle Essbase Client installation.
		<b>Note</b> : These settings are required only if you want to use Oracle Hyperion Essbase OLAP features.

Requirement	Sub-Category	Expected Value	
OS/ File System Settings	File Descriptor Settings	Greater than 15000	
	Total Number of Process Settings	Greater than 4096	
	Port Settings	Default port numbers to be enabled on the system are 6500, 6501, 6505, 6507, 6509, 6510, 6666, 9999, and 10101.	
	.profile permissions	User to have 755 permission on the .profile file.	
	Installation Directory	A directory where the product files will be installed/ copied.	
		Set 755 permission on this directory.	
		This directory needs to be set as FIC_HOME.	
	Staging Area/ Metadata Repository	A directory to hold the application Metadata artifacts and additionally act as staging area for flat files.	
		The directory should exist on the same system as the OFSAA Installation. This directory can be configured on different mount or under a different user profile.	
		Set 775 permission on this directory.	
	Download Directory	A directory where the product installer files will be downloaded/ copied.	
		Set 755 permission on this directory.	
	OS Locale	• Linux: en_US.utf8	
		• AIX: EN_US.UTF-8	
		<ul> <li>Solaris: en_US.UTF-8</li> </ul>	
		To check the locale installed, execute the following command:	
		locale -a   grep -i 'en_US.utf'	
Database Settings	Database Instance Settings	NLS_CHARACTERSET to be AL32UTF8	
		NLS_LENGTH_SEMANTICS to be BYTE	
		OPEN CURSORS limit to be greater than 1000	
Web Application Server	WebSphere/ WebLogic/	Web Application Server should be installed and profile /domain created.	
	Tomcat	You will be prompted to enter the WebSphere Profile path or WebLogic Domain path or Tomcat Deployment path during OFSAAI installation.	
		<b>Note</b> : See Configuring Web Server for WebSphere Profile Creation and WebLogic Domain Creation.	
		For deployment on Oracle WebLogic Server 12.1.3+ (64 bit) with Java 8, download and install patch 18729264 from http://support.oracle.com.	
Web Server	Apache HTTP Server/	This is an optional requirement.	
	Oracle HTTP Server/	HTTP Server Installation to be present.	
	IBM HTTP Server	You will be required to enter the Web Server IP/ Hostname and Port details during installation.	
		Note: See Configuring Web Server for Web Server configuration.	

Requirement	Sub-Category	Expected Value
Others	Oracle R/ Oracle R Enterprise	This is an optional requirement. For more details, see Configuration for Oracle R distribution and Oracle R Enterprise (ORE).
OFS AAI	1-Off	Download the consolidated one-off patch for bug number 26589735 from http://support.oracle.com.

Note: Ensure that the tablespace(s) used for the database user(s) is set to AUTOEXTEND ON.

### Obtaining the Software

This release of OFS Profitability Application Pack v8.0.5.0.0 is available for download in MOS as **Patch 26744949**. You need to have a valid Oracle account in order to download the software.

### **Common Installation Tasks**

The following are the common pre-installation activities that you need to carry out before installing the OFS Profitability Application Pack.

This section includes the following topics:

- Configuration for GUI Mode Installation
- Identifying the Installation, Download and Metadata Repository Directories
- Downloading and Copying the OFS Profitability Applications Pack Installer
- Copying and Extracting the Software
- Setting up the Web Server/ Web Application Server
- Installation of Oracle R Distribution

### **Configuration for GUI Mode Installation**

To install OFS Profitability Application Pack in GUI mode, you need to ensure the below software and configurations are available:

- Install and configure any PC X Server software such as Open Text Exceed (formerly Hummingbird Exceed) on the user desktop system from which the installation is triggered.
- Configure DISPLAY variable.
- Ensure to set the DISPLAY variable on the system on which the OFSAA will be installed, to point to the user desktop system where the PC X Server software has been installed.

Syntax:

export DISPLAY=hostname:n.n1

where hostname is the IP Address/ Host Name of the user desktop system and n is the sequence number (usually 0).

```
For example, 10.11.12.13:0.0 or myhostname:0.0
```

### Identifying the Installation, Download and Metadata Repository Directories

For installation of any OFSAA Application Pack, the below folders/ directories required to be created.

- **OFSAA Download Directory (Optional)**: Create a download directory and copy the OFSAA Application Pack Installer File (Archive). This is the directory where the downloaded installer/ patches can be copied.
- OFSAA Installation Directory (Mandatory): Create an installation directory. This is the directory where the installer installs or copies the product files. FIC\_HOME variable to be set in the .profile pointing to this OFSAA Installation Directory.
- OFSAA Staging/ Metadata Repository Directory (Mandatory): Create a Staging/ Metadata Repository Directory. This is the directory where you should copy data loading files, save data extracts and so on. Additionally, this folder also maintains the OFSAA Metadata artifacts. This is commonly referred as "FTPSHARE".

**Note:** Ensure that the user permission is set to 755 on the Installation and Download Directory and the user permission is set to 775 on the Staging Directory.

### Downloading and Copying the OFS Profitability Applications Pack Installer

To download and copy the OFS Profitability Applications Pack Installer, follow these steps:

- This release of OFS Profitability Application Pack v8.0.5.0.0 is available for download in MOS as Patch 26744949. You need to have a valid Oracle account in order to download the software.
- Copy the downloaded installer archive to the Download Directory (in Binary Mode) on the setup identified for OFSAA installation.

### Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFSAA Infrastructure components will be installed.

Note: You must be logged in to the UNIX operating system as a non-root user.

- 1. Download the unzip utility (OS specific) unzip\_<os>.Z and copy it in Binary mode to the directory that is included in your PATH variable. If you already have the unzip utility to extract the contents of the downloaded archive, skip to the next step.
- 2. Uncompress the unzip installer file using the command:

```
uncompress unzip_<os>.Z
```

**Note:** If you notice an error message "uncompress: not found [No such file or directory]" when the package is not installed, contact your UNIX administrator.

3. Give EXECUTE permission to the file using the command:

```
chmod 751 unzip_<os>
```

```
For example, chmod 751 unzip_sparc
```

4. Extract the contents of the Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack 8.0.5.0.0 to Download Directory using the following command:

```
unzip OFS_PFT_PACK.zip
```

Note: DO NOT rename the Application Pack installer folder name on extraction from the archive.

5. Give below permission to the installer folder. Navigate to the Download Directory and execute the command: chmod -R 750 OFS PFT PACK

#### Setting up the Web Server/ Web Application Server

For more information to set up the environment based on your selected Web Server/ Web Application Server, see Configuring Web Server and Configuring Web Application Server.

#### Installation of Oracle R Distribution

This is an optional step and required only if you intend to use Oracle R scripting in the Oracle Financial Services Enterprise Modeling Application. Follow these steps:

- Install Oracle R Distribution on the Oracle Database server. See Oracle<sup>®</sup> R Enterprise Installation and Administration Guide for Windows, Linux, Solaris and AIX, Release 1.5 at Oracle R Enterprise Documentation Library.
- Oracle R Distribution versions supported- Oracle Distribution of R version 3.2.0.

# CHAPTER 4

# Installing OFS Profitability Application Pack

This chapter describes the steps to be followed to install the OFS Profitability pack.

This chapter includes the following sections:

- Schema Creator Utility
  - About Schema Creator Utility
  - Execution Modes in Schema Creator Utility
  - Execution Options in Schema Creator Utility
- Configuring and Executing the Schema Creator Utility
  - Prerequisites
  - Configuring the Schema Creator Utility
  - Executing the Schema Creator Utility
- Installing the OFS Profitability Applications Pack
  - GUI Mode Installation
  - SILENT Mode Installation

# Schema Creator Utility

Creating database users/ schemas is one of the primary steps in the complete OFSAA installation. This release of OFSAA provides a utility to quickly get started with the OFSAA 8.0 installation by allowing easier and faster creation of database User(s)/ Schema(s), assign the necessary GRANT(s) and so on. Additionally, it also creates the required database objects in these schemas. The schema creator utility should be configured and executed mandatorily every time prior to installation of any OFSAA Application Pack.

This section includes the following topics:

- About Schema Creator Utility
- Execution Modes in Schema Creator Utility
- Execution Options in Schema Creator Utility

# **About Schema Creator Utility**

The schema creator utility should be configured and executed mandatorily every time prior to installation of any OFSAA Application Pack.

The following are the types of schemas that can be configured in the OFSAA:

• **CONFIG** - Denotes the unique OFSAA setup configuration schema. It contains entities and other objects required for OFSAA setup information.

Note: There can be only one CONFIG schema per OFSAA instance.

 ATOMIC - Denotes the schema that contains the data model entities. One ATOMIC schema is attached to one Information Domain.

**Note:** For some application packs, there can be multiple ATOMIC schemas per OFSAA Instance, but the Profitability Pack supports only one atomic schema per OFSAA instance.

 SANDBOX - Denotes the schema that contains the data for all Sandbox executions. One SANDBOX schema is attached to one Sandbox Information Domain.

**Note:** This Schema type is not applicable for OFS Profitability Application Pack. There can be multiple SANDBOX schemas per OFSAA Instance and a Sandbox Information Domain can have only one SANDBOX schema.

• ADDON - Denotes any additional schema used by the OFSAA Applications.

Note: This Schema type is not applicable for OFS Profitability Application Pack.

## **Execution Modes in Schema Creator Utility**

The Schema Configuration Utility supports the following modes of execution:

Online Mode: In the Online mode, the utility connects to the database and executes the DDLs for Users, Objects and Grants. If you have the SYSDBA privileges you can execute the Schema Creator Utility in Online mode and thereby create the Users, Objects and Grants during the execution process.

Note: To execute the utility in Online mode, you need to connect as "<User> AS SYSDBA".

- Offline Mode: In the Offline mode, the utility generates SQL script with all the required DDLs for Users, Objects and Grants. This script needs to be executed by the DBA on the appropriate database identified for OFSAA usage. If you do not have the SYSDBA privileges, you can execute the Schema Creator Utility in Offline mode and generate the script file that contains the Schemas, Objects and Grants, information. Subsequently, a SYSDBA user can execute the script file manually.
- 1. To execute the utility in Offline mode, you need to connect as any user with below grants (alternatively, you can also connect as a user with SYSDBA privileges):

SELECT ON DBA\_ROLES SELECT ON DBA\_USERS SELECT ON DBA\_DIRECTORIES SELECT ON DBA\_TABLESPACES CREATE SESSION

For more details, see Executing the Schema Creator Utility in Offline Mode.

 If there are any errors during the script execution, reconfigure the OFS\_PFT\_SCHEMA.XML file and execute the utility. This generates the scripts with corrected information. For more information, see Configuring OFS\_PFT\_SCHEMA\_IN.xml.

Note: Do not modify the OFS PFT SCHEMA OUT.XML file generated after the execution of this utility.

## **Execution Options in Schema Creator Utility**

Depending on the option you choose to run the OFSAA Application Pack Installer, you need to choose the schema creator utility execution option. To run the OFSAA Application Pack installer in SILENT mode, it is mandatory to execute the schema creator utility with -s option.

**Note:** If the schema creator utility is executed without the option -s, it is mandatory to run the OFSAA Application Pack Installer in GUI mode.

# Configuring and Executing the Schema Creator Utility

This section includes the following topics:

- Prerequisites
- Configuring the Schema Creator Utility
- Executing the Schema Creator Utility

#### Prerequisites

The following prerequisites must be ensured before configuring the Schema Creator Utility:

- Download and apply the one-off patch for Bug 28149904 from MOS in case there's a pack over pack installation, where the pack version that is already installed is lower than version 8.0.5.0.0. For example, install this patch if you have to install PFT release 8.0.5.0.0 application using the full installer in a setup that has ALM release 8.0.2.0.0 or later. For detailed instructions, see the Readme.txt file packaged along with the patch.
- You must have the Oracle User ID/Password with SYSDBA privileges.
- You must have the JDBC Connection URL for RAC/Non RAC database.
- The HOSTNAME/IP of the server on which OFSAA is getting installed.
- The following configuration is required only if you intend to use Oracle Linux/Red Hat Enterprise Linux v7.x for OFSAAI 8.0.5.0.0 version.

For Oracle Linux/RHEL 7.x, navigate to *OFS\_PFT\_PACK/bin/* and modify the value for property Linux\_VERSION to include 7 in the VerInfo.txt file and save the changes.

For example, Linux\_VERSION=6,7

• For IBM AIX 7.1, navigate to OFS\_PFT\_PACK/bin/ and modify the value for property AIX\_VERSION to include 7.1 in the VerInfo.txt file and save the changes.

For example, AIX\_VERSION=6.1,7.1

- It is recommended to set the PGA\_AGGREGATE\_LIMIT database-parameter value sufficiently, when Oracle 12c is installed
- You must add a TNS entry before the installation.

**Note:** The TNS Entry for an atomic schema should be without any special character, i.e '\_'. If the atomic schema name is like 'DEV\_ATOM', the TNS name should be like 'DEVATOM'.

If this release of the OFS PFT Application Pack version 8.0.5.0.0 is being installed on an OFSAA setup where the underlying OFSAA Infrastructure (OFS AAI) version is upgraded to version 8.0.1.x.x, download and install the patch for schema creator utility (Bug 21133780) by following the instructions in the Readme.txt packaged in it prior to executing the utility.

If this release of the OFS PFT Application Pack version 8.0.5.0.0 is being installed on an OFSAA setup where the underlying OFSAA Infrastructure (OFS AAI) version is upgraded to version 8.0.2.x.x, download and install the patch for schema creator utility (Bug 21657319) by following the instructions in the Readme.txt packaged in it prior to executing the utility.

## **Configuring the Schema Creator Utility**

To configure the Schema Creator Utility, follow these steps:

- 1. Log in to the system as non-root user.
- 2. Navigate to the following path: OFS\_PFT\_PACK/schema\_creator/conf.
- 3. Edit the OFS\_PFT\_SCHEMA\_IN.xml file in a text editor.
- 4. Configure the elements as described in the Configuring OFS\_PFT\_SCHEMA\_IN.xml.
- 5. Save the OFS\_PFT\_SCHEMA\_IN.xml file.

**Note:** On successful execution of the utility, the entered password in the OFS\_AAAI\_SCHEMA\_IN.xml file is nullified.

## **Executing the Schema Creator Utility**

This section includes the following topics:

- Executing the Schema Creator Utility in Online Mode
- Executing the Schema Creator Utility in Offline Mode
- Executing the Schema Creator Utility with -s option
- Executing the Schema Creator Utility for Subsequent Application Pack
- Verifying the Log File

#### **Executing the Schema Creator Utility in Online Mode**

In Online Mode, the Schema Creator Utility will create all the Schemas, Schema Objects, Tablespaces, Grants, and Roles in the database during the execution process.

To execute the Schema Creator Utility in Online Mode, follow these steps:

- 1. Log in to the system as non-root user.
- 2. Navigate to the following folder path: OFS\_PFT\_PACK/schema\_creator/bin/
- 3. Execute the following command:

./osc.sh

4. The following message is displayed: You have chosen ONLINE mode. Triggering the utility in ONLINE mode will execute the DDLs directly on the Database. Do you wish to proceed? (Y/y or N/n).

g <sup>2</sup> ofs2221000.in.ovack.com - PuTTY	
\$ ./GRC.833	-
You have chosen CMLINE mode	
Triggering the utility in OMLINE mode will execute the DOLs directly on the Database. Do you wish to proceed? (Y/y or N/n):	

- 5. Enter Y/y to proceed.
- 6. Enter the DB Username with SYSDBA Privileges.

For example: SYS as SYSDBA.

7. Enter the User Password.

\$ ./osc.sh
You have chosen ONLINE mode
Triggering the utility in ONLINE mode will execute the DDLs directly on the Database. Do you wish to proceed? (Y/y or N/n): y 
Java Validation Started Java found in : /scratch/ofsaa/jdk1.6.0_25/jre/bin JAVA Version found : 1.6.0_25 JAVA Bit Version found : 64-bit Java Validation Completed. Status : SUCCESS
DB specific Validation Started Enter the DB User Name With SYSDBA Privileges: sys as sysdba Enter the User Password: Oracle Client version : 11.2.0.3.0. Status : SUCCESS Oracle Server version Current value : 11.2.0.3.0. Status : SUCCESS DB specific Validation Completed. Status : SUCCESS

8. The console runs the initial validation checks and then displays the following message:

You have chosen to install this Application Pack on <Name of the Atomic Schema > ATOMIC schema. Do you want to proceed? (Y/N).

You have chosen to install this Application Pack on <Name of the Infodom>. Do you want to proceed? (Y/N).

Java Validation Started Java found in : /usr/java/jdk1.6.0_25/bin JAVA Version found : 1.6.0_25 JAVA Bit Version found : 64-bit Java Validation Completed. Status : SUCCESS
DB specific Validation Started Enter the DB User Name With SYSDBA Privileges: sys as sysdba Enter the User Password: Oracle Client version : 11.2.0.3.0. Status : SUCCESS Oracle Server version Current value : 11.2.0.1.0. Status : SUCCESS DB specific Validation Completed. Status : SUCCESS
Schema Creation Started
Checking OFSAA installation OFSAA installation not found. Validating the dat file OFS_PFT_CFG.dat started Sucessfully validated OFS_PFT_CFG.dat file Validating the input XML file/scratch/ofsaebas/installer/OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml Input XML file validated successfully.
Yalidating Connection URLjdbc:oracle:thin:@ofss222763:1521:FTPDEV Successfully connected to User - sys as sysdba URL - jdbc:oracle:thin:@ofss222763:1521:FTPDEV Connection URL successfully validated You have chosen to install this Application Pack on "dev_ofsaaatm" ATOMIC schema. Do you want to proceed? (Y/N) You have chosen to install this Application Pack on INFODOM "ofspftinfo". Do you want to proceed? (Y/N) You have chosen to install this Application Pack on INFODOM "ofspftinfo". Do you want to proceed? (Y/N) You have chosen to install this Application Pack on INFODOM "ofspftinfo".
Executing TableSpace Scripts started

9. Enter Y/y to start the schema creation.

Or

Enter N/n if you want to quit executing the schema creation.

Note: On successful execution of schema creator utility, the console displays the following status message:

Schema Creator executed successfully. Please proceed with the installation.

See log file in OFS\_PFT\_PACK/schema\_creator/logs folder for execution status. If there are any errors, contact Oracle Support.

## **Executing the Schema Creator Utility in Offline Mode**

In Offline Mode, the Schema Creator Utility will create an output in SQL file format. This script has to be executed manually by logging as database user with SYSDBA privileges. The SQL file will contain the scripts for creation of Schemas, Schema Objects, Tablespaces, Grants, and Roles.

Prerequisites:

- Database user with below privileges:
  - SELECT ON DBA\_ROLES
  - SELECT ON DBA\_USERS
  - SELECT ON DBA\_DIRECTORIES
  - SELECT ON DBA\_TABLESPACES
  - CREATE SESSION

Note: Explicit Grants to the user are required. Grants assigned through Roles are not supported.

To execute the schema creator utility in the offline mode, follow these steps:

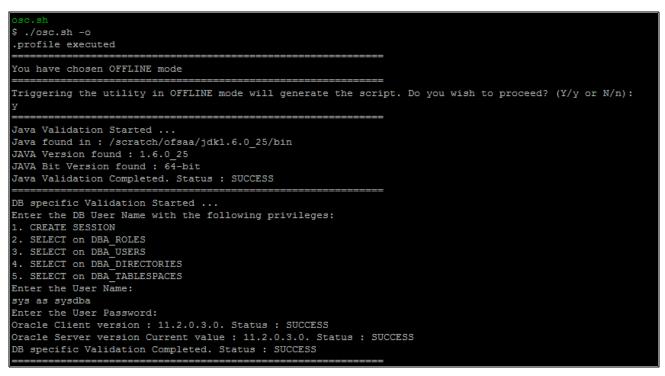
- 1. Log in to the system as non-root user.
- 2. Navigate to the following path: OFS\_PFT\_PACK/schema\_creator/bin
- 3. Execute the osc.sh file using the following command:

./osc.sh -o

4. The following message is displayed:

You have chosen OFFLINE mode. Triggering the utility in OFFLINE mode will generate the script. Do you wish to proceed? (Y/y or N/n).

- 5. Enter Y/y to proceed.
- 6. Enter the DB Username with SELECT privileges.
- 7. Enter the User Password.



8. The console runs the initial validation checks and displays the following message:

You have chosen to install this Application Pack on <Name of the Atomic Schema > ATOMIC schema. Do you want to proceed? (Y/N).

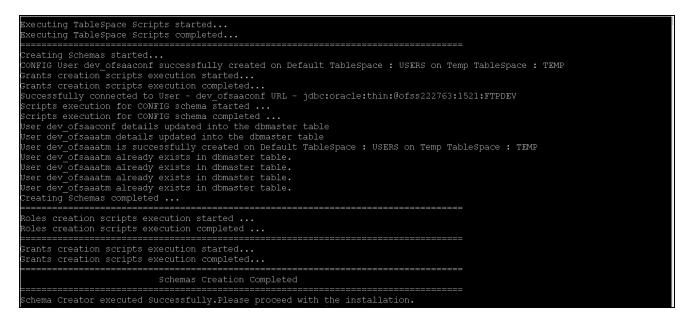
You have chosen to install this Application Pack on <Name of the Infodom>. Do you want to proceed? (Y/N).

Java Validation Started Java found in : /usr/java/jdk1.6.0_25/bin JAVA Version found : 1.6.0_25 JAVA Bit Version found : 64-bit Java Validation Completed. Status : SUCCESS
DB specific Validation Started Enter the DB User Name With SYSDBA Privileges: sys as sysdba Enter the User Password: Oracle Client version : 11.2.0.3.0. Status : SUCCESS Oracle Server version Current value : 11.2.0.1.0. Status : SUCCESS DB specific Validation Completed. Status : SUCCESS
Schema Creation Started
Checking OFSAA installation OFSAA installation not found. Validating the dat file OFS_PFT_CFG.dat started Sucessfully validated OFS_PFT_CFG.dat file Validating the input XML file/scratch/ofsaebas/installer/OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml Input XML file validated successfully.
Yalidating Connection URLjdbc:oracle:thin:@ofss222763:1521:FTPDEV Successfully connected to User - sys as sysdba URL - jdbc:oracle:thin:@ofss222763:1521:FTPDEV Connection URL successfully validated You have chosen to install this Application Pack on "dev_ofsaaatm" ATOMIC schema. Do you want to proceed? (Y/N) Y You have chosen to install this Application Pack on INFODOM "ofspftinfo". Do you want to proceed? (Y/N) Y
Executing TableSpace Scripts started

9. Enter Y/y to start the script generation.

Or

Enter N/n if you want to quit the script generation.



Note: On successful execution of schema creator utility, the console displays the following status message:

Schema Creator executed successfully. Please execute scratch/ofsaaapp/OFS\_PFT\_PACK/schema\_creator/sysdba\_output\_scripts.sql before proceeding with the installation.

- 10. Navigate to the directory: OFS\_PFT\_PACK/schema\_creator.
- 11. Login to SQLPLUS with a user having SYSDBA Privileges.
- 12. Execute the sysdba\_output\_scripts.sql file using the following command:

SQL>@sysdba output scripts.sql

Alternatively, you can copy the sysdba\_output\_scripts.sql file and SQLScripts folder to a remote server and execute sysdba output scripts.sql file, after providing appropriate execute permissions.

Note: See log sysdba\_output\_scripts.log file for execution status. If there are any errors, contact Oracle Support. This log would be empty if there are no errors in the execution.

#### Executing the Schema Creator Utility with -s option

If you want to run the OFSAA Application Pack Installer in SILENT mode, it is mandatory to execute the schema creator utility with -s option.

To execute the utility with -s option, follow these steps:

- 1. Edit the file OFS\_PFT\_PACK/schema\_creator/conf/OFS\_PFT\_SCHEMA\_IN.xml in text editor.
- 2. Set the value for attribute "INFODOM" of <SCHEMA> tag(s) to specify a specific Information Domain name. By default, the value is empty and the utility will derive the Information Domain name. If the attribute value is set, the utility/installer will configure the Information Domain against this <SCHEMA>.
- 3. Execute the utility with -s option.

For Example:./osc.sh -s.

**Note:** If the utility is executed without the -s option, it is mandatory to launch the OFSAA Application Pack Installer in GUI mode.

To execute the utility in OFFLINE mode with SILENT option, enter following command:

/osc.sh -o -s.

#### Executing the Schema Creator Utility for Subsequent Application Pack

While executing the schema creator utility for subsequent Application Pack, you can choose to install the pack either on the same Information Domain/Atomic Schema or on a new Information Domain/Atomic Schema. You can execute the Schema Creator Utility either in Online or Offline Mode.

**Note:** OFS PFT Application Pack can be installed on any Information Domain/ Atomic schema where any OFS Application Packs are installed other than OFS Behavior Detection Application Pack or OFS Compliance Regulatory Reporting Application Pack.

To execute the schema creator utility while installing OFS PFT Application Pack over an existing Application Pack, follow these steps:

1. Repeat the steps 1 to 9 from the Executing the Schema Creator Utility section.

Note: Ensure to use the same config schema user name as the previous Application Pack.

- 2. The utility identifies the Application Packs that are already installed on the current OFSAA setup and displays the following on console:
  - Atomic schema of the Existing Application Pack
  - Information Domain Name of the Existing Pack, and the
  - List of Installed Application Packs Execute the ./osc.sh file.

Validating Connection URLjdbc:oracle:thin:@ofss220623:1521:MEDIADB Successfully connected to User - sys as sysdba URL - jdbc:oracle:thin:@ofss220623:1521:MEDIADB Connection URL successfully validated The following Application Packs are already installed in this OFSAA setup:				
dev_atml- INFOTR- "OFS_TR_PACK"				
You have selected to install this Application Fack on "dev_atm3" ATOMIC schema. To proceed enter (Y/y). To change the selection, enter (N/n). n Choose the ATOMIC schema from the below list on which you wish to install this Application Pack:				
1. dev_atm1- INFOTR- "OFS_TR_PACK" 2. dev_atm3				
Enter the option number:2				
Generating TableSpace creation Scripts started Generating TableSpace creation Scripts completed				
Generating Schema creation scripts started Skipping the creation of CONFIG user dev_conf1 as OFSAAI is already installed on dev_conf1 User dev_atm3 details updated into the dimmaster table User dev_atm3 creation script generated successfully on Default TableSpace : USERS on Temp TableSpace : TEMP User dev_atm3 creation is skipping as the user is already created. Generating Schema creation script scompleted				
Generating Roles creation Scripts started Generating Roles creation Scripts completed				
Generating Grants creation scripts started Generating Grants creation scripts completed				
Generating Schema Creation Scripts Completed				
Schema Creator executed Successfully.Please execute /scratch/ofsaadb/OFS_AAAI_PACK/schema_creator/sysdba_output_scripts.sql before proceeding with the installation.				

- 3. Select the Atomic User, on which you want to install the Application Pack.
- 4. On successful execution or schema creator utility, the following message is displayed: Schemas Creation Completed.

See the log file in OFS\_PFT\_PACK/schema\_creator/logs folder for execution status.

See the log *sysdba\_output\_scripts.log* file for execution status, if executed in offline mode. This log would be empty if there are no errors in the execution.

If there are any errors, contact Oracle Support.

#### Verifying the Log File

If schema creation is successful, the console would display an appropriate message.

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Skipping the creation of role MANTAS LOADER ROLE
Skipping the creation of role DATA LOADER ROLE
Skipping the creation of role KDD ALGORITHM ROLE
Skipping the creation of role MANTAS READER ROLE
Skipping the creation of role KDD LOADER ROLE
Skipping the creation of role KDD ANALYST ROLE
Skipping the creation of role KDD MINER ROLE
Skipping the creation of role DATA READER ROLE
Roles creation scripts execution completed
Notes Creation Scripts execution compreted
Directory creation scripts execution started
Directory creation scripts execution completed
Grants creation scripts execution started
Grants creation scripts execution completed
Schemas Creation Completed
Status : SUCCESS.Please proceed with the installation.

If the schema creation runs into errors, see the log files:

<<OFSPFT Installer folder>>/<<OFS\_PFT\_PACK>>/schema\_creator/logs/ and <<OFS\_PFT>>\_OSC\_<timestamp>.log for further details.

You may contact Oracle support anytime for assistance.

# Installing the OFS Profitability Applications Pack

Follow the instructions in this section to install the OFS Profitability Applications Pack depending on the mode of installation.

This section includes the following topics:

- GUI Mode Installation
- SILENT Mode Installation
- Verifying the Log File

**Note:** If this release of the OFS Profitability Applications Pack is being installed for Oracle Database Server Release 12cR2 that is 12.2.x, then copy the file envCheck.sh before triggering the installation:

From Location - OFS\_PFT\_PACK/OFS\_AAI/bin/envCheck.sh

To Location - OFS\_PFT\_PACK/OFS\_AAAI\_PACK/OFS\_AAI/bin/envCheck.sh

## **GUI Mode Installation**

Ensure that you have followed the steps as mentioned in the Configuration for GUI Mode Installation section prior to proceeding with the next steps.

- 1. Log in to the system as non-root user.
- 2. Identify a directory for installation and set the same in the user .profile file as below:

ORACLE\_HOME=<oracle\_installed\_dir>

Export FIC\_HOME

- 3. Execute the user .profile.
- 4. Navigate to path: OFS\_PFT\_Pack.
- 5. Edit the OFS\_PFT\_PACK/schema\_creator/conf/OFS\_PFT\_SCHEMA\_IN.xml file to set the appropriate attribute values.

Note: See Configuring OFS\_PFT\_SCHEMA\_IN.xml file for details on configuring this XML file.

6. Execute the schema creator utility.

**Note:** This step is mandatory and should be executed before every OFSAA Application Pack installation. See Executing the Schema Creator Utility for more details.

- 7. Navigate to the path: OFS\_PFT\_PACK/bin.
- 8. To install OFS PFT Application Pack on:
  - For Java 6 and 7: Proceed with step 9.

- For Java 8: Edit the VerInfo.txt file to modify the value for property JAVA\_VERSION to 1.8. Save the changes and proceed with step 9.
- 9. Execute ./setup.sh GUI in the console.

Note: Refer to the console for any errors during Pre-install checks.

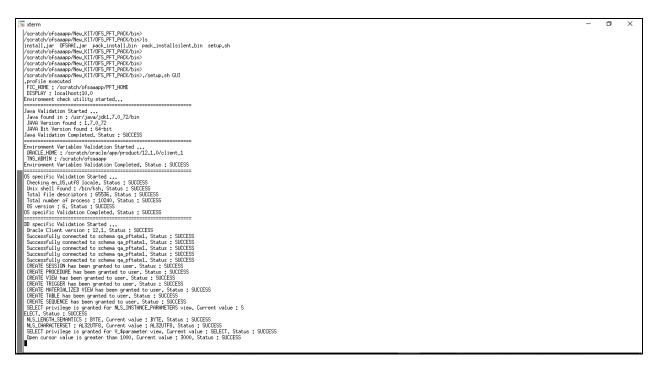


Figure 1. Validating the Installation



#### Figure 2. License Agreement

10. Select I accept the terms if the License Agreement option.

11. Click **Next** to display the The Application Pack details.

镭 pack install			– a ×
			Financial Services Profitability Applications Pac
<ul> <li>✔ License</li> <li>➔ Preinstall Setup</li> <li>◇ Installation</li> <li>◇ Install Complete</li> </ul>	Application Pack ID : Application Pack Name : Application Pack Version : The following products are	OFS_PFT_PACK Financial Services Profitability Applications Pack 8.0.5.0.0 available in this application pack:	FINANCIAL SERVICES ANALYTICAL APPLICATIONS
		<ul> <li>Financial Services Analytical Applications Infrastructure</li> <li>Financial Services Profitability Management</li> <li>Financial Services Funds Transfer Pricing</li> <li>Financial Services Institutional Performance Analytics</li> <li>Financial Services Retail Performance Analytics</li> <li>Financial Services Enterprise Financial Performance Analytics</li> </ul>	
InstallAnywhere			Previous Next

- 12. Select the product to enable for which you have already obtained license.
- 13. Click **Next** to display the License Agreement page.

🐫 pack install	– o ×				
	Financial Services Profitability Applications Pack License Agreement				
🕑 License	Installation and use of Financial Services Profitability Applications Pack Installer requires acceptance of the following license agreement:				
<ul> <li>Preinstall Setup</li> <li>Installation</li> </ul>	OFSAA APPLICATION PACK LICENSE AGREEMENT				
🔘 Install Complete	Oracle Financial Services Analytical Applications (OFSAA) application packs are groups of OFSAA products packaged together into a single installer. Each application pack contains OFSAA applications that address specific functional domains.				
	Every application pack also includes the following OFSAA infrastructure application options which are automatically installed by every application pack installer: 1. Oracle Financial Services Analytical Applications Infrastructure 2. Oracle Financial Services Enterprise Modeling 3. Oracle Financial Services In-line Processing Engine				
	4. Oracle Financial Services Big Data Processing Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) is the base infrastructure for all OFSAA applications and is therefore automatically installed and enabled by the application pack installer.				
	The application pack installer always installs Oracle Financial Services Enterprise Modeling, Oracle Financial Services In-line Processing Engine and Oracle Financial Services Big Data Processing application options along with the application pack applications, but enables them only if any application that requires their functionality is enabled.				
	Any OFSAA application that is enabled must be licensed for use. Oracle Financial Services Analytical Applications Infrastructure, Oracle Financial Services Enterprise Modeling, Oracle Financial Services In-line Processing Engine and Oracle Financial Services Big Data Processing are individually licensable application options.				
	Application products once enabled cannot be disabled. Application products not enabled on installation, may later be enabled using the "Manage OFSAA Product License(s)" feature of the platform.				
ORACLE'					
FINANCIAL SERVICES					
	I_accept the terms of the License Agreement     O I do NOT accept the terms of the License Agreement				
InstallAnywhere Cancel Help	Previous Next				

- 14. Select I accept the terms if the License Agreement option.
- 15. Click Next.

號 pack install		– 🗇 🗙
		Pre Installation Summary
🖌 License	Please review the following before continuing:	
Preinstall Setup     Installation     Installation.e	Application Pack ID OFS_PFT_PACK	
	Application Pack Name Financial Services Profitability Applications Pack	
	Application Pack Version 8.0.5.0.0	
	Below products are selected to be enabled:	
	Financial Services Analytical Applications Infrastructure Financial Services Profitability Management Financial Services Inds Transfer Pricing Financial Services Institutional Performance Analytics Financial Services Retail Performance Analytics Financial Services Enterprise Financial Performance Analytics	
ORACLE'		
FINANCIAL SERVICES		
InstallAnywhere		
Cancel <u>H</u> elp		Previous <u>N</u> ext

16. Click **Next** to display the Manage Information Domain page.

	Information Domain Name	Application Name	Information Domain Description	Type	DB Schema
elnstall Setup	OFSPETINEO	Financial Services Profitability Management	Information Domain for OFS_PFT	PRODUCTION	qa_pftatm1
stall Complete		Financial Services Funds Transfer Pricing	Information Domain for OFS_PFT	PRODUCTION	qa_pftatm1
		Financial Services Institutional Performance Analytics	Information Domain for OFS_PFT	PRODUCTION	qa_pftatm1
		Financial Services Retail Performance Analytics	Information Domain for OFS_PFT	PRODUCTION	qa_pftatm1
		Financial Services Enterprise Financial Performance Analytics	Information Domain for OFS_PFT	PRODUCTION	qa_pftatm1
ORACLE'					

17. Edit the Information Domain Name if it is a new Information domain and you wish to change the name of the information domain name.

The Information Domain Name is not editable in case of subsequent Application Pack installation on the same Information Domain.

Permissible length is 10 characters and only alphanumeric characters allowed. No special characters allowed.

18. Click **Next** to display the following window.

🝇 pack install		- 0 ×
		Please Wait
<ul> <li>✔ Ucense</li> <li>→ Preinstall Setup</li> <li>→ Installation</li> <li>→ Install Complete</li> </ul>		
	FINANCIAL SERVICES	
	FINANCIAL SERVICES is may take a moment	
	Copyright ⊚ 1993, 2017, Oracle and/or its affiliates. All rights reserved.	
ORACLE FINANCIAL SERVICES		
InstallAnywhere — Cancel <u>H</u> elp	en e	evious <u>N</u> ext

19. Click **Next** to display the **User Installation Directory** window.

CFSAAInfrastructure			- 0	×
		Us		
<ul> <li>✓ Ucense</li> <li>→ Preinstall Setup</li> <li>→ Installation</li> <li>→ Install Complete</li> </ul>	User Installation Directory /scratch/ofsaaapp/PFT_HOME			
			Previous	

- 20. Enter the installation directory path. This is the directory you have set in the user .profile file in step 2.
- 21. Click Next to display the OFSAA Infrastructure Server Details window.

3 OFSAAInfrastructure		-	٥	×
	OFSAA Infrastructu	re Serv	er De	tails
Install Complete     Install Complete	Enter requested information : Note: If the JDBC_URL is of RAC type then D8 Server IP/Hostname field name should be NA			
	OFSAAI Server IP / Hostname :           10.184.156.207           Database Server IP / Hostname :           10.184.150.198			
ORACLE' FINANCIAL SERVICES				
Install Anywhere Cancel <u>H</u> elp	г 	s	<u>N</u> ext	t

- 22. Enter the IP address or hostname of the OFSAAI server and Database server.
- 23. Click Next to display the Web Application Server window.

🐏 OFSAAInfrastructure		-	o ×
		Web Applicatio	n Server
<ul> <li>✔ License</li> <li>➔ Preinstall Setup</li> <li>&gt; Installation</li> <li>&gt; Install Complete</li> </ul>	Choose the Web Application Server type		
	<ul> <li>Torncat</li> <li>WebSphere</li> <li>Weblogic</li> </ul>		
Cancel Help		Previous	Next

- 24. Select the appropriate Web Application server type. The options are Tomcat, WebSphere, and WebLogic.
- 25. Click **Next**. Based on the selection, corresponding screens are displayed.

For Tomcat: The Absolute Tomcat Path window is displayed.

OFSAAInfrastructure			-	٥	×
Clicense Preinstall Setup Installation Install Complete	Enter absolute Tomcat Installation path where Oracle Financial Services Example - /home/data1/tomcat-7.0.19/webapps	Analytical Applications Infrastructure is to be deployed.			
	/scratch/ofsaaapp/apache-tomcat-8.0.32/webapps				٦.
ORACLE					
FINANCIAL SERVICES					
Cancel <u>H</u> elp			Previous	<u>N</u> ext	

Enter the Tomcat installation path (till /webapps) where OFSAAI will be deployed.

For WebSphere: The WebSphere Setup Details window is displayed.

Enter the installation path (up to the host name directory) of the WebSphere. The format is WebSphere path <WebSphere profile directory>/installedApps/ <NodeCellName>.

For WebLogic: The Weblogic Home window is displayed.

- Enter the WebLogic home directory path.
- Enter the path of the Weblogic domain home directory.
- 26. Click Next to display the OLAP Details window.

OFSAAInfrastructure		- (	x c
<ul> <li>✔ License</li> <li>➔ Preinstall Setup</li> <li>◯ Installation</li> <li>◯ Install Complete</li> </ul>	Note : 1 = Enabled 0=Disabled If value is 1 then ARBORPATH, HYPERION_HOME & ESSBASEPATH variables should be set in .profile before installation.		
	CONFIGURE OFSAAI OLAP FEATURE :		
1942 (012) 199			
ORACLE'			
FINANCIAL SERVICES			
InstallAnywhere			
Cancel <u>H</u> elp		vious	Next

Enter 1 if you want to configure OFSAAI OLAP feature. By default, value 0 is displayed.

27. Click Next to display the Web Server Details window.

#### Installing the OFS Profitability Applications Pack Chapter 4—Installing OFS Profitability Application Pack

OFSAAInfrastructure		- a ×
<ul> <li>✔ License</li> <li>→ Preinstall Setup</li> <li>♦ Installation</li> <li>♦ Install Complete</li> </ul>	Note : Context name will be used in your Application URL http:// <webserverip>:<servlet.port>/<contextname>/login.jsp Example:- http://10.80.50.206:9080/myapp/login.jsp</contextname></servlet.port></webserverip>	
	■ ENABLE HTTPS	
	WEB SERVER PORT 3540	
	WEE SERVER IP 10.184.156.207	
	Context name for deployment	
	PFT_HOME	
	WEB LOCAL PATH /scratch/ofsaaapp/ftpshare	
ORACLE' FINANCIAL SERVICES		
InstallAnywhere	1	
Cancel <u>H</u> elp		Previous <u>N</u> ext

- Select the **Enable HTTPS** check box to configure HTTPS.
- Enter Web Server (HTTP Server) Port, Web App Server (HTTP Server) IP address, context name for deployment and the local path to any folder on the Web Application Server (Tomcat/ Websphere/ Weblogic).
- 28. Click Next to display the Database Details window.

1 OFSAAInfrastructure		– a ×
Titense  Preinstall Setup Installation Install Complete	NOTE: Specify the Database user name which is the user created for configuration database schema. For example: configuser Specify the Database driver path as <oracle.home> /jdbc/lib where <oracle.home> should be replaced with ORACLE.HOME value. The ABSOLUTE DRIVER PATH refers to the JDBC driver files path.</oracle.home></oracle.home>	
	ORACLE SID / SERVICE_NAME : [EPM12C]	
	JDBC URL: jdbc:oracle:thin:@ofss2221810.in.oracle.com:1521:EPM12C	
	CONFIG SCHEMA USER ID :	
	Oracle Configuration Schema Password	
	ABSOLUTE DRIVER PATH :	
_	/scratch/oracle/app/product/12.1.0/client_1/jdbc/lib	
		Restore Default Choose
ORACLE'		
FINANCIAL SERVICES		
Cancel <u>H</u> elp		Previous Next

29. Enter Oracle SID/Service Name, JDBC URL, Configuration Schema User ID and Password, and Absolute Driver Path.

**Note:** Absolute Driver Path can be the path where Oracle DB client is installed or JDBC driver is installed. For example, /scratch/oracle/app/oracle/product/11.2.0/client\_1/jdbc/lib

30. Click Next to display the Ports Configuration window.

1 OFSAAInfrastructure			- 0 ×
<ul> <li>✔ License</li> <li>➔ Preinstall Setup</li> <li>&gt; Installation</li> <li>&gt;&gt; Install Complete</li> </ul>	Enter required information : Note: Ports must have unique value.		
	Java Port 3541 Native Port 3542		
-	Agent Port 3543 ICC Server Port 3544		
	ICC Native Port		
ORACLE FINANCIAL SERVICES			
Install Anywhere Cancel <u>H</u> elp	1	[	Previous Next

Enter Java Port, Native Port, Agent Port, ICC Server Port, and ICC Native Port. You can proceed with the default port values configured.

31. Click Next to display the Ports Configuration window.

1 OFSAAInfrastructure		- 0	×
		Ports Configura	ation
Ucense     Preinstall Setup     Installation     Install Complete	Enter requested information : Note: Ports must have unique value.		
	OLAP Port 3546 Message Server Port 3547		
	Router Port 3548		
	AM Port 3549		
] [			
Cancel <u>H</u> elp		Previous <u>N</u> ex	đ

Enter OLAP Port, Message Server Port, Router Port, and AM Port.

32. Click Next and then select the File Transfer protocol.

Note: Ensure the system on which the OFSAA Infrastructure is being installed, has either FTP/ SFTP enabled.

Enter the port to be used for file transfer.

OFSAAInfrastructure		- 0 ×	÷ .
		SFTP Detail	s
<ul> <li>✔ License</li> <li>↔ Preinstall Setup</li> <li>↔ Installation</li> <li>↔ Install Complete</li> </ul>	CHOOSE FILE TRANSFER PROTOCOL: © SFIP © FTP FILE TRANSFER PORT: 22		
CRACLE FINANCIAL SERVICES		Previous	

33. Click Next to display the OFSAAI FTP/SFTP Details window.

🔩 OFSAAInfrastructure		- 0 ×
<ul> <li>License</li> <li>Preinstall Setup</li> <li>Installation</li> </ul>	FTPSHARE PATH /scratch/ofsaaapp/ftpshare	 Restore Default Choose
Install Complete	FTP / SFTP USER ID ofsaaapp	
	Please enter Infrastructure FTP/SFTP password:	
-		
325 635 59		
FINANCIAL SERVICES		
THURNOIAL SERVICES		
InstallAnwhere Cancel Help	,	Previous Next

34. Enter the path of the ftpshare directory and the User Id and password for OFSAAI Server.

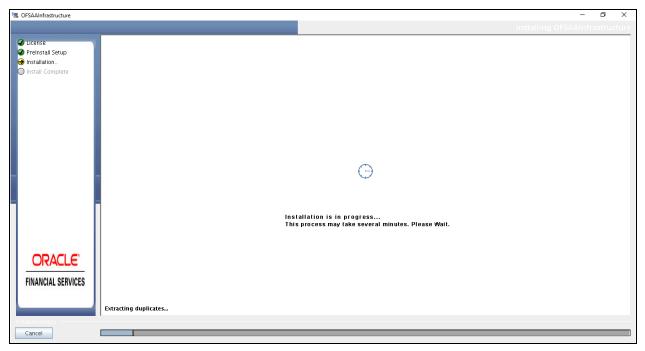
**Note:** The transfer of data (files) between the OFSAAI Server and the Web Application Server happens over FTP/ SFTP. Ensure the necessary host configurations are made for a successful handshake.

35. Click Next to display the Pre-Installation Summary window.

#### Installing the OFS Profitability Applications Pack Chapter 4—Installing OFS Profitability Application Pack

独 OFSAAInfrastructure		- 0	5 X
		Pre-installation Su	
Utense     Preinstall Setup     Installation     Install Complete	Please review the following before continuing: Product Name: OFSAAInfrastructure Version 8.0.5.0.0 Installation Folder /scratch/ofsaaapp/PFT_HOME Required Space 990 MegaBytes Available Space 99478 MegaBytes Selected Locale	Pre-installation SL	Ammary .
	en_US.utf8 Warnings None	Previous	Install

- 36. Click Next to display the Pre Installation Summary window.
- 37. Click Install to display the Installing OFSAA Infrastructure window.



Anytime during the installation you can click **Cancel** to stop the installation. Once completed, the **Installation Summary** screen is displayed.

1 OFSAAInfrastructure			- 0	Х
		INSTAL		
<ul> <li>✓ Tutcense</li> <li>✓ Preinstall Setup</li> <li>✓ Installation</li> <li>✓ Install Complete</li> </ul>	INSTALLATION SUMMARY: ##ATAL ERRORS 0 ##ERORS 0 #DEBUG STATEMENTS: 642 #WHFORMATIONS 495 #WARNINGS 0  Note: Please see the installation log under _/scratch/ofsaaapp/New_KIT/OFS, /scratch/ofsaaapp/PFT_HOME/OFSAAInfrastructure_install.log for more Click on Next to continue.	PFT_PACK/OFS_AAI/logs/OF5AAI82017_09_14_03_32_37.log and : details.		
CRACLE FINANCIAL SERVICES		<u>βr</u> ev	ious <u>N</u> e	ext

The Summary screen displays the number of Fatal Errors, Errors, Debug Statements, Information, and Warnings along with the location of log files.

38. Click Next to display the Installation Complete window.

1 OFSAAInfrastructure		- 0	×
			lete
<ul> <li>✓ Ucense</li> <li>● Preinstall Setup</li> <li>④ Installation</li> <li>● Install Complete</li> </ul>	Congratulations! Oracle Financial Services Analytical Applications Infrastructure has been successfully installed. Click on "Done" to exit the installer. Please do not close the console. Post Install activites will be performed in console.		
		Previous Done	

**Note:** If the installation is successful with some warnings, you can navigate to the installation log for more details and address them.

39. Click **Done**. The following message is displayed:

Please wait, pack\_install is being configured for your system. This may take a moment.

40. After the pack installation is complete, the **Solution Setup - Introduction** window will be displayed.

1 Solution Setup		- 0 ×
		Introduction
<ul> <li>Introduction</li> <li>Pre-Install Configuration</li> <li>Pre-Install Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	This user interface will guide you through the solution setup. Before proceeding with the installation, you must ensure the following: - The Oracle Financial Services Analytical Applications Infrastructure (OFSAA) must be installed and configured on the machine. - The FiCserver is running and all other OFSAAI servers are shut down prior to start of the solution installation. - Please ensure the OFSAAI version is 8.0.5.0.0 Note: At any point if you wish to edit previously entered information, you may access the previous screens by clicking on the Previous button.	Introduction
<b>ORACLE</b> FINANCIAL SERVICES		
InstallAnywhere Cancel <u>H</u> elp		Previous

41. Click Next to display the Log mode window. Select the Log Mode.

1 Solution Setup		- 0 ×
		Pre-Setup Information
Introduction  Pre-Install Configuration  Pre-Install Summary  Installing  Install Complete	Please select the Log Mode required for this Installation. Note: If you select Debug mode, the passwords will be printed in the log file. The log file will be written in the path specified in the log4j xml file of the installer.	
	● Debug ○ General	
		Previous Next

42. Click Next to display the Segment creation window. Enter the log paths.

🔩 Solution Setup		- 0 ×
		Pre-Setup Information
Thtroduction  Pre-Install Configuration  Pre-Install Summary  Installing  Install Complete	Please enter the following to create a new information domain	
	Profitability Applications Segment OFSPFTSEG Application Server ftpshare log path /scratch/ofseaapp//OFSPFTINFO/logs	
	Database Server ftpshare log path /scratch/ofsaaapp//OFSPFTINFO/logs	
FINANCIAL SERVICES		
InstallAnywhere Cancel Help		Previous

43. Click on Next to display the Pre-Infodom Creation Summary window.

🖏 Solution Setup		– Ø X
		Pre-Infodom Creation Summary
Introduction	Please review the following before continuing:	
<ul> <li>Introduction</li> <li>Pre-Install Configuration</li> <li>Pre-Install Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please review the following before continuing: Information Domain Name OFSPFTINFO Infordom Description Information Domain for OFS_PFT Application Schema User qapftatm11 Application Schema JDBC Url jdbc:oracle:thin:@ofss2221810.in.oracle.com:1521:EPM12C Infodom Schema Database Name qapftatm11 Infodom Maintenance Application Server Log Path /soratch/ofsaaapp/ftpshare//OFSPFTINFQ/logs	
ORACLE FINANCIAL SERVICES	/scratch/orsadapp/rtpshare//or see inveo/rogs	Previous

44. Click Next to display the Infodom creation window.

**Note:** Permissible length for information domain is maximum 10 characters and only alphanumeric characters allowed. No special characters allowed.

45. After creation of infodom, the Tablespace specification window will be displayed.

🐏 Solution Setup		- 0 ×
		Pre-Setup Information
<ul> <li>✔ Introduction</li> <li>➡ Pre-Install Configuration</li> <li>➡ Pre-Install Summary</li> <li>➡ Install Ing</li> <li>➡ Install Complete</li> </ul>	Please specify the Tablespace name (Infodom database) Name USERS	
		Previous

46. Click Next to display the Model Upload window.

🐛 Solution Setup		– 0 X
		Pre-Setup Information
Thtroduction  Pre-Install Configuration  Pre-Install Summary  Installing  Installing	If you want to perform Model Upload, please start the FICserver before proceeding to n	exit step.
	Do you want to perform Model upload ?? • Yes	
	No , I have already done it.	
InstallAnywhere		
Cancel <u>H</u> elp		Previous

47. Select Yes and click Next to display the Model Type window.

🝇 Solution Setup		– 0 ×
		Pre-Setup Information
<ul> <li>Introduction</li> <li>Pre-install Configuration</li> <li>Pre-install Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Do you want to upload Released Data Model or Customized Data Model ?	Pre-setup Information
CRACLE' FINANCIAL SERVICES		Previous Next

- 48. Select Released Data Model and click Next. Model will get copied into ftpshare.
- 49. After Model is copied to ftpshare, the Model Review Window will be displayed.

號 Solution Setup		- 0 X
		Pre-Model Upload Summary
Titroduction  Fre-Install Configuration  Pre-Install Summary  Installing  Install Complete	Please review the following before continuing: Information domain Name OFSPFTINFO Data Model xml path /scratch/ofsaaapp/New_KIT/OFS_PFT_PACK/OFS_PFT/DataModel Data Model xml file OFS_PFT_Datamodel.xml ERwin xml Path /scratch/ofsaaapp/ftpshare//OFSPFTINFO/erwin/erwinXML	
ORACLE FINANCIAL SERVICES		Previous

**Note:** If Heap Memory Warning is displayed, then click on **Back**, and update your .profile entry with required heap memory size.

- Open a new session in Putty.
- Shutdown Reveleus server using \$FIC\_HOME/ficapp/common/FICServer/bin/ reveleusshutdown.sh.
- Update the X\_ARGS\_APP entry in .profile following example.

Example:

```
X_ARGS_APP="-Xms2g -Xmx18g -XX:+UseAdaptiveSizePolicy -XX:MaxPermSize=1024M
-XX:+UseParalleloldGC -XX:+DisableExplicitGC"
```

- Run.profile.
- Start Reveleus using \$FIC\_HOME/ficapp/common/FICServer/bin/ reveleusstartup.sh.
- Proceed for model Upload by clicking on **Next**.

1 Solution Setup			– 0 ×
			Please Wait
Introduction     Pre-Install Configuration     Pre-Install Summary     Installing     Install Complete  Please wait, Sol	utionSetup is being configured for s	Error	
ORACLE FINANCIAL SERVICES			
Cancel		Previou	is <u>N</u> ext

Pack-on-pack installation for Profitability pack, execute *\$FIC\_HOME/scripts/atomic/create/*indexes.sql as a post data model upload step.

The data model is getting uploaded.

50. Click Next to display Oracle Business Intelligence Configuration screen.

🐛 Solution Setup		– 0 X
		Pre-Setup Information
Introduction     Pre-Install Configuration     Pre-Install Summary     Installing     Installing     Install Complete	Oracle Business Intelligence Configuration Oracle BI Host IP  whf00azm.in.oracle.com Port 7001 ContextName analylics	
ORACLE FINANCIAL SERVICES		
Cancel <u>H</u> elp		Previous Next

The Pre-Setup Information screen requests for setup information.

The following panel seeks input from the user on whether to create new ETL application/source pair or use an existing one.

Choose a desired option.

#### 51. Click Next to continue.

Pre Setup      Introduction     Pre-Install Configuration     Pre-Install Summary     Install Complete      Stating application/source pair     Stating application/source pair	
Pre-Install Configuration <ul> <li>New application/source pair</li> <li>Pre-Install Summary</li> <li>Existing application/source pair</li> <li>Installing</li> <li>Existing application/source pair</li> <li>Exi</li></ul>	Information
Instal/Anywhere	Next

52. Select New Application source and click Next. Staging details will be displayed:

🗺 Solution Setup			- 0 ×
			Pre-Setup Information
Introduction	ETL Applicati	ion Details	
Pre-Install Configuration     Pre-Install Summary	Name	FSAPPS	
Installing	Description	FSAPPS	
🔘 Install Complete	ETL STAGING	Source Details	
	Name	STAGING	
		STAGING	
		ING Source Details	
	Name	PROCESSING	
	Description	PROCESSING	
n r			
932 634 199			
ORACLE'			
FINANCIAL SERVICES			
InstallAnywhere			
Cancel <u>H</u> elp			Previous

53. After Creation, click **Next** to display the **Installation Details Review** window.

🐛 Solution Setup		- 0 ×
		Pre-Installation Summary
Introduction	Please review the following before continuing:	
<ul> <li>Pre-Install Configuration</li> <li>Pre-Install Summary</li> <li>Installing</li> </ul>	PLATFORM Oracle Financial Services Analytical Applications Infrastructure	
<ul> <li>Install Complete</li> </ul>	PLATFORM VERSION 8.0.5.0.0	
	PRODUCT NAME Oracle Financial Services Profitability Management Pack	
	PRODUCT VERSION 8.0.5.0.0	
	INFODOM NAME ENTERED OFSPFTINFO	
	OFSAAI USER ID ENTERED SYSADMN	
	CONFIG SCHEMA USER qapftconf11	
	JAVA BIN /usr/java/jdk1.7.0_72/bin	
	Disk Space Information (for Installation Target): Required: 765,425,067 bytes Available: 100,598,784,000 bytes	
ORACLE'	Avanable. 100,000,000 bytes	
FINANCIAL SERVICES		
InstallAnywhere	1	
Cancel <u>H</u> elp		Previous

54. Click Install. A Pop window will ask for the confirmation.

ta Solution Setup		– 0 ×
		Pre-Installation Summary
Throduction  Pre-Install Configuration  Pre-Install Summary Installing Install Complete  Install Complete  Financial Services  InstallAnywhere	Please review the following before continuing:         PLATFORM Oracle Financial Services Analytical Applications Infrastructure         PLATFORM VERSION 8.0.5.0.0         PRODUCT NAME Oracle Financial Services Profitability Management Pack         PRODUCT VERSION 8.0.5.0.0         INFODOM NAME ENTERED OFSPTTINFO         OFSAAI USER ID ENTERED SYSADMN         CONFIG SCHEMA USER qapftconf11         JAVA BIN //usr/java/jdk1.7.0_72/bin         Disk Space Information (for Installation Target): Required: 7654,25.067 bytes Available: 100,598,784,000 bytes	
Cancel <u>H</u> elp		<u>Previous</u> Install

55. Click Yes to begin the installation. The installation progress will be in the Installation Progress window.

🖏 Solution Setup	- 0 X
	Installing SolutionSetup
<ul> <li>Pre-Install Configuration</li> <li>Pre-Install Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Installation is in progress This process may take several minutes. Please Wait.
CRACLE FINANCIAL SERVICES InstallAnywhere	
Cancel	

- 56. After Installation completion, Installation Completion window will be displayed.
- 57. Click **Done.** The Panel will go back to **Main App Pack Installation** window and the **Installation Summary** window will be displayed.

號 pack install			- 0	×
		INSTAL		
<ul> <li>Orcense</li> <li>Preinstall Setup</li> <li>Installation</li> <li>Install Complete</li> </ul>	INSTALLATION SUMMARY: #FATAL BERORS 0 #CERORS 0 #UEDUG STATEMENTS: 136 #WARNINGS 0 Tore: Please see the installation log under /scratch/ofsaaapp/New_KIT/OFS_PFT_PACK/logs/Pack_Install.log Click on Next to continue.	_		
<b>ORACLE</b> FINANCIAL SERVICES				
InstallAnywhere Cancel		Previ	ous	Next

58. Click Next to display the Installation Complete window.

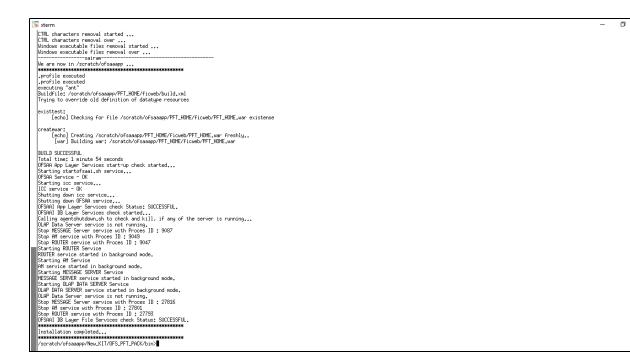
號 pack install		- 0 ×
		Installation Complete
<ul> <li>License</li> <li>Preinstall Setup</li> </ul>	Congratulations! Financial Services Profitability Applications Pack has been successfully installed.	
Installation	Click on "Done" to exit the installer. Please do not close the console. Post Install activites will be performed in console	
➔ Install Complete		
ORACLE'		
FINANCIAL SERVICES		
InstallAnywhere		
Cancel <u>H</u> elp		Previous Done

#### 59. Click Done.

**Note:** The installation process continues on the console. Do not close the console until the installation process is complete.

Post Install Health checks are displayed:

#### Installing the OFS Profitability Applications Pack Chapter 4—Installing OFS Profitability Application Pack



X

- 60. Install the following mandatory one-off patches for the applications mentioned:
  - PFT application: 28146189
  - FTP application: 28091067.

After you apply the above patch for FTP application, apply the following patches:

- 28403034
- 28617711
- 28721483
- 28859373

Refer to the Readme files available with the patches for further the installation instructions.

Note: Verify and apply any recent fixes for respective applications.

61. Perform steps mentioned in the Post Installation Configuration section.

#### **SILENT Mode Installation**

Note: For Schema Creator Utility steps, see Executing the Schema Creator Utility.

- 1. Log in to the system as non-root user.
- 2. Identify a directory for installation and set the same in the user .profile file as below:

FIC\_HOME=< OFSAA Installation Directory > export FIC\_HOME

- 3. Execute the user .profile.
- 4. Pre-Installation XML/ File Populations:

Before Proceeding to SILENT Installer, we need to populate following files with pre-defined values.

 OFSAAI\_InstallConfig.xml (Location: OFS\_PFT\_PACK/OFS\_AAI/conf). For more information, see Configuring OFSAAI\_InstallConfig.xml File.

**Note:** If value for HTTPS\_ENABLE is set to 1, ensure you have a valid certificate available from a trusted CA and the same is configured on your web application server.

SILENT.props File. (Location: OFS\_PFT\_PACK/OFS\_PFT/conf)

Note: The file name will be SILENT.template in the installer and it has to be renamed as SILENT.props.

**Important:** Do not install the new applications in the same segment if the pre-installed applications use run management.

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	whether you want to perform Model Upload	0 = No 1 = yes	Mandatory
MODEL_TYPE	Released data model or Customized data model	0 = released 1 = customized	# Mandatory only in the case of uploading the data model
DATAMODEL	the path for the customized data model	Not Applicable	<ul> <li># Mandatory only in the case of uploading the customized data model</li> <li># Option selected for MODEL_TYPE=1</li> </ul>
DM_DIRECTORY	the file name for the customized data model	Not Applicable	# Mandatory only in the case of uploading the customized data model
			# Option selected for MODEL_TYPE=1

#### **Configuring Application Pack XML Files**

#### OFS\_PFT\_PACK.xml

The OFS\_PFT\_PACK.xml file holds details on the various products that are packaged together in Profitability Application Pack.

This section details the various tags/ parameters available in the file and the values that need to be updated. Prior to installing the Profitability Application Pack in SILENT mode, it is mandatory to update this file.

Note: If you are installing in the GUI mode, then this file need not be updated.

#### Installation

1. Navigate to the following folder path: OFS\_PFT\_Pack/bin/.

Note: For Java 8: Edit the VerInfo.txt file in the path /OFS\_PFT\_PACK/OFS\_AAI/bin/ to modify the value for property JAVA\_VERSION to 1.8, and save the changes.

2. Execute the setup.sh file using the following command:

./setup.sh SILENT

3. The installer will proceed with Pre-Installation Checks.



4. On Successful completion of Pre-Installation checks it will prompt for the Password of FTP/SFTP. Please enter Infrastructure FTP/SFTP Password:



5. Enter the Password and Proceed. The process displays the OFSAA License. Enter: Y and Proceed.



6. First AAI will be Installed.

P ofss220683.in.oracle.com - PuTTY	
Oracle Server version Current value : 11.2.0.2.0. Status : SUCCESS DE specific Validation Completed. Status : SUCCESS	
Environment check utility Status : SUCCESS	
<ul> <li>Welcome to Oracle Financial Services Advanced Analytical Applications Infrastructure (OF Checking Infrastructure installation status</li> </ul>	5 AAAI) Applications Fack Installation *
Infrastructure installation does not exist. Proceeding with Infrastructure installation	
Triggering Infrastructure installation	
Please enter Infrastructure FTP/SFTP password :	
OFSRA APPLICATION PACK LICENSE AGREEMENT	
OFSAA APPLICATION FACA LICENSE AGREERENT	
ed to the maximum extent possible under the Law.*	reproduction or distribution of this Software System, or any portion of it, may result in severe civil and criminal penalties and will be prosecut
	>FSAA products packaged together in a single installer. Each Application Pack addresses specific functional domains via its products that are grou being the base infrastructure for deployment of other OFSAA products/Application Packs, is bundled with each Application Pack. With every Applic if remained.
* Oracle Financial Services Enterprise Modeling (OFS AAAI) and Oracle Financial Services In al Services Enterprise Modeling (OFS AAAI) and Oracle Financial Services Inline Processing	line Processing Engine (OFS THE) products are separately licensable products and should not be enabled unless it has been licensed. Oracle Financi Ingine (OFS THE) products are only part of the Oracle Financial Services Advanced Analytics Infrastructure Fack and specific OFSAA Application Foc Finterprise Modeling (OFS AMA) or Oracle Financial Services Inline Processing Engine (OFS) product gets pre-elected automatically on select
ing any of the OFSAA products within a specific Application Pack that require these product * Multiple products being grouped together under a Application Pack, mandate installation a	
anage Application Fack License' feature.* * Enabling a product within a Application Pack automatically implies you agree with this li	cense agreement and the respective terms and conditions.*
Are you accepting the terms and conditions mentioned above? [Y/N]: $\Upsilon$	
Please enter password for default Infrastructure administrator user SYSADRON:	
Please re-enter password for default Infrastructure administrator user SYSADMM:	
Please enter password for default Infrastructure authorizer user SYSAUTH:	
Please re-enter password for default Infrastructure authorizer user SYSAUTH: Starting installation	
Preparing to install	
Extracting the installation resources from the installer archive Configuring the installer for this system's environment	Ţ
Launching installer	Å
Preparing SILENT Mode Installation	
OFSAAInfrastructure (created with InstallAnywhere)	
Installing	
[	

7. After AAI is installed, the PFT Pack installation begins.

Note: Data Model Upload may take several hours to get complete. You can check the Logs in /OFS\_PFT\_PACK/OFS\_PFT/logs.

P ohiz20053.inordecem - PuTY	
is that repuirs these stronged analytical features of the product, oracle Financial Services English (NF AMAI) or Oracle Financial Services Inline Processing Engine (NF) IFE) product gets pre-selected automatically on se ing any of the GYABA products within a specific Application Face these products or emabled and configured.*	elect
* Multiple products being grouped together under a Application Pack, mandate installation and configuration of these products by default. However, during the Application Pack installation, based on the product that a start start, during the Application Pack installation, based on the product that a start start start. However, during the Application Pack installater stage using the OFAM Paring start to void get mandate in a baser stage. However, products and a start stage stage.	ed, i ire 'M
anape Application Fack Lisense' feature.* * Enabling a product within a Application Fack automatically implies you agree with this license agreement and the respective terms and conditions.*	
Are you accepting the terms and conditions mentioned above? [Y/H]:	
Please enter password for default Infrastructure administrator user SYSANDN:	
Please re-enter password for default Infrastructure administrator user SYSLAMM:	
Fleese enter password for default Infrastructure authorizer user SYANUTH:	
Please re-entre password for default Infrastructure authorizer uzer SYSAUTH: Staring installicion Breparing to installi Configuring bits installer for the graceme servicement	
vomilyging und indicates for this system 5 environment Lauching interaction	
Preparing SILET Mode Installation	
OfSAAInfrastructure (created with InstallAnywhere)	
Installing	
1015-011-01-0	
[]]]]]	
Tanzallarian Complete. _profile securid	
.profile executed	
Welcome to 093_BFND FACK Installation	
Starting 073A Service	
OFBAS Bevilse - OK	
Extracting the installation resources from the installer archive Configuring the installer for this systems's extractionation	
Preparing SILENT Mode Installation	
pack installsilent (created with InstallAnywhere)	
[]]]]]	

8. Do not close the console until the installation is complete.

\_\_\_\_\_ Installing... Installation Complete. .profile executed CTRL characters removal started ... CTRL characters removal over ... Windows executable files removal started ... Windows executable files removal over ... We are now in /scratch/ofsaaapp8 ... .profile executed .profile executed executing "ant" Buildfile: /scratch/ofsaaapp8/OFSAA800/ficweb/build.xml Trying to override old definition of datatype resources existtest: [echo] Checking for file /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAAI800.war existense createwar: [echo] Creating /scratch/ofsaaapp8/0FSAA800/ficweb/0FSAA1800.war freshly.. [war] Building war: /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAA800.war BUILD SUCCESSFUL Total time: 1 minute 13 seconds OFSAM App Layer Services start-up check started... Starting startofsaai.sh service... nohup: appending output to `nohup.out' OFSAA Service - OK Starting icc service... nohup: appending output to `nohup.out' ICC service - OK Shutting down icc service... nohup: appending output to `nohup.out' Shutting down OFSAA service ... nohup: appending output to `nohup.out' OFSAAI App Layer Services check Status: SUCCESSFUL.

We are now in /scratch/ofsaaapp8 ... profile executed. profile executed. executing "ant" Buildfile: /scratch/ofsaaapp8/OFSAA800/ficweb/build.xml Trying to override old definition of datatype resources existtest: [echo] Checking for file /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAA800.war existense createwar: [echo] Creating /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAA1800.war freshly.. [war] Building war: /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAA800.war BUILD SUCCESSFUL Total time: 1 minute 13 seconds OFSAA App Layer Services start-up check started... Starting startofsaai.sh service... nohup: appending output to `nohup.out' OFSAA Service - OK Starting icc service... nohup: appending output to `nohup.out' ICC service - OK Shutting down icc service... nohup: appending output to `nohup.out' Shutting down OFSAA service... nohup: appending output to `nohup.out' OFSAAI App Layer Services check Status: SUCCESSFUL. OFSAAI DB Layer Services check started... checking Router service... Router Service - OK checking AM service... AM Service - OK Checking MessageServer service... DEBUG: main started. DEBUG: TraceFileName = /scratch/ofsaaapp8/OFSAA800/ficdb/log/msg\_trace\_file.log DEBUG: OpenFiles done. MessageServer Service - OK OFSAAI DB Layer File Services check Status: SUCCESSFUL. Installation completed... /scratch/ofsaaapp8/kit/OFS\_BFND\_PACK/bin>

- 9. Install the following mandatory one-off patches for the applications mentioned:
  - PFT application: 28146189
  - FTP application: 28091067.

After you apply the above patch for FTP application, apply the following patches:

- 28403034
- 28617711
- 28721483
- 28859373

Refer to the Readme files available with the patches for further the installation instructions.

Note: Verify and apply any recent fixes for respective applications.

10. Perform the steps mentioned in Post Installation Configuration section.

#### Verifying the Log File

See the following logs files for more information:

- See the OFS\_PFT\_installation.log and Pack\_Install.log located at OFS\_PFT\_PACK/logs/ folder for OFS Profitability Application Pack installation log file.
- See the log file(s) located at OFS\_PFT\_PACK/OFS\_AAI/logs/ folder for Infrastructure installation log.
- See the OFSAAInfrastucture\_Install.log located at *\$FIC\_HOME* folder for Infrastructure installation log.

## CHAPTER 5

# Upgrading the OFS PFT Application Pack

This chapter provides necessary information to upgrade the Profitability Application Pack.

This chapter includes the following topics:

Upgrading the OFS PFT Application Pack

## Upgrading the OFS PFT Application Pack

Refer to the following instructions to download, extract, install, and configure this release.

1. Download the OFS PFT Application Pack v8.0.5.0.0 archive file and copy it to your OFSAA server in Binary mode.

Note: The archive files are different for every operating system like AIX, Solaris, and RHEL/Oracle Linux.

- 2. Log in to the OFSAA Server.
- 3. Shut down all the OFSAAI Services. For more information, see the Start/Stop Infrastructure Services section in Start/Stop OFSAA Infrastructure Services.
- 4. Execute the following command:

chmod -R 750 \$FIC HOME

- 5. If you have Unzip utility, skip to the next step. Download the Unzip utility (OS specific) and copy it in Binary mode to the directory that is included in your PATH variable, typically \$HOME path or directory in which you have copied the 8.0.5.0.0 installer.
  - Uncompress the unzip installer file using the command:

uncompress unzip\_<os>.Z

**Note:** If you notice an error message "uncompress: not found [No such file or directory]" when the package is not installed, contact your UNIX administrator.

• Give EXECUTE permission to the file using the command:

chmod 751 OFS\_PFT\_80500\_<OperatingSystem>.zip

6. Extract the contents of the OFS PFT Application Pack 8.0.5.0.0 in Download Directory installer archive file using the following command:

unzip\_<os> <name of the file to be unzipped>

7. Give EXECUTE permission to the archive file. Navigate to the path OFS\_PFT\_80500\_<OperatingSystem>.zip and execute the command:

```
chmod -R 750 OFS_PFT_80500_<OperatingSystem>
```

8. Rename the SILENT.template file in the installer as SILENT.props. Configure Silent.Props file for following parameters:

Property Name	Description of Property	Permissible values	Comments
UPLOAD_MODEL	whether you want to perform Model Upload	0: No 1: Yes	Mandatory Select "1" to perform the Model Upload. Select "0" to skip Model
MODEL_TYPE	Released data model or Customized data model	0 = released 1 = customized	Upload. # Mandatory only in the case of uploading the data model If UPLOAD_MODEL option is selected as "1", then you can choose to upload Released Model (0) or customized Model (1).
DATAMODEL	the path for the customized data model	Not Applicable	# Mandatory only in the case of uploading the customized data model # Option selected for MODEL_TYPE=1
DM_DIRECTORY	the file name for the customized data model	Not Applicable	# Mandatory only in the case of uploading the customized data model # Option selected for MODEL_TYPE=1

9. Execute setup.sh file using the following command from the OFS\_PFT/bin directory:

./setup.sh SLIENT

Verify if the release is applied successfully by checking the log file generated in the installation folder. You can ignore ORA-00001, ORA-00955, ORA-02260, and ORA-01430 errors in the log file. Also, you can ignore any unique constraint errors. If there are any other errors, contact Oracle Support.

- 10. Install the following mandatory one-off patches for the applications mentioned:
  - PFT application: 28146189
  - FTP application: 28091067.

After you apply the above patch for FTP application, apply the following patches:

- 28403034
- 28617711
- 28721483
- 28859373

Refer to the Readme files available with the patches for further the installation instructions.

Note: Verify and apply any recent fixes for respective applications.

- 11. For more information on securing your OFSAA Infrastructure, See to the Security Guide in OHC Library.
- 12. Add umask 0027 in the .profile of the UNIX account which manages the WEB server to ensure restricted access permissions.
- 13. Restart all the OFSAAI services. For more information, see the Start/Stop Infrastructure Services section in Start/Stop OFSAA Infrastructure Services.
- 14. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, see Creating and Deploying EAR/WAR File.

#### Upgrading the OFS PFT Application Pack Chapter 5—Upgrading the OFS PFT Application Pack

## CHAPTER 6 Post Installation Configuration

After successfully installing the Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack, follow the post installation steps mentioned below.

This chapter includes the following topics:

- Configure excludeURLList.cfg file
- Configure Resource Reference
- Start/Stop OFSAA Infrastructure Services
- Add TNS entries in TNSNAMES.ORA file
- Configuring Web Server
- Configuring Work Manager in Web Application Servers
- Creating and Deploying EAR/WAR File
- Access the OFSAA Application
- OFSAA Landing Page
- User Group Mapping
- Create and Deploy the Application Pack Web Archive
- Patching Your OFS Profitability Pack Installation

**Note:** Ensure that to clear the application cache prior to the deployment of Application Pack Web Archive. This is applicable to all Web Servers (WebSphere, WebLogic, Tomcat). For more information, See Clearing Application Cache section.

## Configure excludeURLList.cfg file

To configure the excludeURLList.cfg file, follow the below steps:

- 1. Locate the web server deployed area webroot/conf/excludeURLList.cfg file.
- 2. Modify the following entries:
  - [SQLIA]./dataIntegrator/ to [ALL]./dataIntegrator/
  - [SQLIA]./ETLExtractionServlet to [ALL]./ETLExtractionServlet
- 3. Save the changes and restart the web server.
- 4. Re-save the definition.

## **Configure Resource Reference**

Configure the resource reference in the Web Application Server configured for OFSAA Applications. See Configuring Resource Reference Web Application Servers for details on configuring the resource reference in WebSphere, WebLogic, and Tomcat Application Servers.

## Start/Stop OFSAA Infrastructure Services

Start the OFSAA Infrastructure Services prior to deployment or accessing the OFSAA Applications.

This chapter details on how to start and stop OFSAA Infrastructure services. This chapter includes the following sections:

- Starting Infrastructure Services
- Starting Web Application Servers

#### **Starting Infrastructure Services**

Once the installation of Infrastructure has been completed successfully and the post-installation steps are completed, the servers must be started. Log on to each machine and run the .profile file. All servers mentioned must be started from the same shell encoding. The servers mentioned below are dependent on each other. It is mandatory to maintain the order in which the servers are started. Allow each of the servers to initialize completely before starting the next server.

1. On the machine in which Infrastructure Application components have been installed, navigate to \$FIC\_APP\_HOME/common/FICServer/bin and execute the following command to start the Infrastructure Server.

./startofsaai.sh

**Note:** You can also start the Infrastructure Server by executing the command "nohup./ startofsaai.sh &". Starting the process using "nohup" and "&" will return the command prompt without having to wait till the process completes. However, this command cannot be used when you are starting the server for the first time or starting after changing user password in the configuration database schema.You can also start the Infrastructure Server by executing the command "nohup./ startofsaai.sh &". Starting the process using "nohup" and "&" will return the command prompt without having to wait till the process completes. However, this command cannot be used when you are starting the server after changing user password in the Configuration database schema.

2. Start ICC server:

- On the machine in which Infrastructure default Application components have been installed, navigate to \$FIC\_HOME/ficapp/icc/bin
- Execute the command:
  - ./iccserver.sh

Note: Only Infrastructure Default Application Server would hold ICC component.

- 3. Stopping Infrastructure Services:
  - On the machine on which Infrastructure Database components have been installed, navigate to \$FIC\_DB\_HOME/bin and execute the command to start "Agent server":

./agentstartup.sh

Or

■ Start Back-end services using the command:

```
nohup ./agentstartup.sh &
```

Note: This agent internally starts the Router, Message Server, OLAP data server and AM services.

#### **Starting Web Application Servers**

Start the Web Application Server depending on the type from the following table.

Start up Option	Description
Starting WebSphere profile	On the machine in which Web sphere is installed, navigate to [Webshpere_Install_Directory] /AppServer/ <profiles>/<profile name="">/bin and execute the command:</profile></profiles>
	./startServer.sh server1
Starting WebLogic Domain	On the machine in which WebLogic is installed navigate to <weblogic installation<br="">directory&gt;/user_projects/domains/<domain name="">/bin and execute the command: startWebLogic.sh -d64</domain></weblogic>
	Note: If WebLogic is already running, access the WebLogic Admin Console. Stop and start the application <context name="">.ear.</context>
Starting Tomcat Application	On the machine in which Tomcat is installed, navigate to < <i>Tomcat_Install_Directory&gt;/bin</i> and execute the command:
	./catalina.sh run

#### **Stopping Infrastructure Services**

To stop Infrastructure services:

1. On the machine in which Infrastructure Application components have been installed, navigate to \$FIC\_APP\_HOME/common/FICServer/bin and execute the command:

./stopofsaai.sh

2. To stop ICC server, on the machine in which Infrastructure default Application components have been installed, navigate to *\$FIC\_HOME/ficapp/icc/bin* and execute the command:

./iccservershutdown.sh

Note: Only Infrastructure Default Application Server would hold ICC component.

3. To stop Back-end server, on the machine in which Infrastructure database components have been installed, navigate to *\$FIC\_DB\_HOME/bin* and execute the command:

./agentshutdown.sh

## Add TNS entries in TNSNAMES.ORA file

Add TNS entries in the tnsnames.ora file, for every schema created for the Application Pack:

To find the tnsname for the entries, follow these steps:

- 1. Login to the application using System Administrator privileges.
- 2. Navigate to System Configuration & Identity Management tab.
- 3. Click Administration and Configuration >> System Configuration >> Database Details.
- 4. Expand the drop-down list for Name to get the list of TNS entry names.

Alternatively, you can connect to the CONFIG schema and execute the below query:

select dbname from db\_master where dbname !='CONFIG'

## **Configuring Web Server**

This section includes the following topics:

- Configuring Web Server
- Configuring Web Application Server

#### **Configuring Web Server**

This step assumes an installation of a Web Server exists as per the prerequisites.

Refer the product specific Installation Guide/ Configuration Guide to install/ configure the Web Server. If an installation already exists, skip and proceed to the next step.

**Note:** Make a note of the IP Address/ Host-name and Port of the web server. This information is required during the installation process.

See Oracle Financial Services Analytical Applications Infrastructure Security Guide for additional information on securely configuring your Web Server.

Ensure to enable sticky session/ affinity session configuration on the web server. See the respective product specific Configuration Guide for more details. Additionally, you also need to enable the sticky session/ affinity session configuration at Load Balancer level if you have configured a Load Balancer in front of the web server(s).

#### **Configuring Web Application Server**

This step assumes an installation of a web application server exists as per the prerequisites. To configure the Web Application Server for OFSAA Deployment refer the sections below.

This section includes the following topics:

- Configuring WebSphere Application Server for Application Deployment
- Configuring WebLogic for Application Deployment
- Configuring Apache Tomcat Server for Application Deployment

**Note:** Make a note of the IP Address/ Host-name and Port of the web application server. This information is required during the installation process (required if Web Server is not configured).

Add umask 0027 in the .profile of the UNIX account which manages the WEB server to ensure restricted access permissions.

See the Oracle Financial Services Analytical Applications Infrastructure Security Guide for additional information on securely configuring your Web Server.

#### **Configuring WebSphere Application Server for Application Deployment**

You can deploy multiple OFSAA applications on different profiles of a WebSphere application server. To create multiple WebSphere "Profiles" in a stand-alone server, use the command line option as explained below. A profile is the set of files that define the runtime environment. At least one profile must exist to run WebSphere Application Server.

This section includes the following topics:

- Creating a New Profile in WebSphere
- Managing IBM WebSphere SDK Java Technology Edition Versions
- Managing Applications in WebSphere
- Configuring WebSphere Application Server to Use a Load Balancer or Proxy Server
- Deleting WebSphere Profiles
- WebSphere HTTPS Configuration
- WebSphere Memory Settings

#### Creating a New Profile in WebSphere

The Profile is created in WebSphere through command line using the manageprofiles.sh which resides in *<WebSphere Install directory*/*AppServer/bin* folder.

The command to create a profile without admin security through command line is as follows:

```
"manageprofiles.sh -create -profileName <profile> -profilePath <profile_path>
  -templatePath <template_path> -nodeName <node_name> -cellName <cell_name> -hostName
  <host_name>"
```

#### Example:

```
$usr/home>./manageprofiles.sh -create -profileName mockaix
-profilePath/websphere/webs64/Appserver/profiles/mockaix
-templatePath/websphere/webs64/Appserver/profileTemplates/default -nodeName
ipa020dorNode04 - cellName ipa020dorNode04Cell -hostName ipa020dor
```

The command to create a profile with admin security through command line is as follows:

```
"manageprofiles.sh -create -profileName <profile> -profilePath <profile_path>
-templatePath <template_path> -nodeName <node_name> -cellName <cell_name> -hostName
<host_name> -enableAdminSecurity true -adminUserName <Admin User Name> -adminPassword <
Admin User Password> -samplespassword <sample User Password>"
```

#### Example:

```
$usr/home>./manageprofiles.sh -create -profileName mockaix
-profilePath/websphere/webs64/Appserver/profileS/mockaix
-templatePath/websphere/webs64/Appserver/profileTemplates/default -nodeName
ipa020dorNode04 -cellName ipa020dorNode04Cell -hostName ipa020dor -enableAdminSecurity
true -adminUserName ofsaai -adminPassword ofsaai -samplespassword ofsaai"
```

**Note:** While using the manageprofiles.sh command to create a New Profile in WebSphere, you can also use "-validatePorts" to validate if the specified ports are not reserved or in use. Additionally, you can specify new ports with "-startingPort <br/>base port>" which specifies the starting port number to generate and assign all ports for the profile. For more information on using these ports, see WebSphere manageprofiles command.

#### Managing IBM WebSphere SDK Java Technology Edition Versions

By default, WebSphere Application Server V8.5.5.X uses the Java 6.0 SDK. You must upgrade to Java 7.X SDK or JAVA 8.X SDK.

Prerequisites: Install the IBM WebSphere SDK Java Technology Edition Versions 1.7.X\_64 or 1.8.X\_64.

Perform the following steps to upgrade to Java 7.X SDK or JAVA 8.X SDK:

- Enter the WebSphere URL in the format http://HOST\_NAME:PORT\_NUMBER/ibm/console (use https if SSL is enabled.). For example, http://192.168.1.0:9000/ibm/console.
- 2. Login with your administrator user ID and password.
- 3. From the LHS menu, click Servers to expand and view the menu.
- 4. Click **Server Types** to expand the menu further and then click **WebSphere Enterprise Application Servers** to view the Application servers window.

5. On Application servers window, click the required Application Server link. For example, server1 in the following illustration:

this page to configure an application server. An application	n server is a server that provides services required to run enterprise applications.
time Configuration	
General Properties	Container Settings
Name	<ul> <li>Session management</li> </ul>
server1	SIP Container Settings
Node name whf00aqnNode01	Web Container Settings
Run in development mode	<ul> <li>Portlet Container Settings</li> <li>EJB Container Settings</li> </ul>
Parallel start	Container Services
Start components as needed	<ul> <li>Business Process Services</li> </ul>
Access to internal server classes	Applications
Allow V	<ul> <li>Installed applications</li> </ul>
Server-specific Application Settings	Server messaging
Classloader policy Multiple V Class loading mode Classes loaded with parent class loader first	Messaging engines     Messaging engine inbound transports     WebSphere MQ link inbound transports     SIB service
	Server Infrastructure
Apply OK Reset Cancel	Java and Process Management

6. Click Java SDKs link from Server Infrastructure to view the list of Java SDKs.

	ferences	development kits (SDKs) that ar	e installed on the server. These SDKs are available	to the servers.	
Mak	e Default				
C	0 # #				
elect	Name 🛟	Version 🗘	Location 🗇	Bits 🗘	Default
You ca	an administer the foll	owing resources:			
	1.6_64	1.6	\${WAS_INSTALL_ROOT}/java	64	false
	1.7_64	1.7	\${WAS_INSTALL_ROOT}/java_1.7_64	64	false
	1.8_64	1.8	\${WAS_INSTALL_ROOT}/java_1.8_64	64	true

- 7. Select either **1.7\_64** or **1.8\_64** based on the JVM version with which you plan to install OFSAA or have installed with.
- 8. Click Make Default button and save to master repository.
- 9. Restart the WebSphere Application Server to apply the changes to the IBM application profile.

#### Managing Applications in WebSphere

To manage the installed applications in WebSphere, do the following:

1. Open the administrator console using the following URL:

http://<ipaddress>:<Administrative Console Port>/ibm/console

Example: http://10.111.222.333:9003/ibm/console (https if SSL is enabled)

**Note:** Administrative Console Port value is available in serverindex.xml file within *<WebSphere Profile* Directory*>/config/cells/<Node Cell>/nodes/<Node Name>* directory.

The Integrated Solutions Console Login window is displayed.

Integrated Solutions Console	IBM.
Log in to the console. User ID: upgs73 Password: Log in	

Figure 2: Integrated Solutions Console Login

- 2. Log on with the **User ID** provided with the admin rights.
- From the LHS menu, expand the Applications > Application Type> WebSphere Enterprise Applications. The Enterprise Applications screen is displayed.

Use t	prise Applications his page to manage installed applications. A single a eferences	pplication can be deployed onto multiple servers.
Sta	rt Stop Install Uninstall Update Rollout Up	odate Remove File Export DDL Export File
D	0 # 4	
Selec	t Name 🔿	Application Status 👲
You	can administer the following resources:	
	DefaultApplication	*
	intèss	*
	svery	*
	vpgs73	*

Figure 3: Enterprise Applications

- 4. This Enterprise Applications screen helps you to:
  - Install new application
  - Un-install existing applications
  - Start or Stop the installed applications

#### Configuring WebSphere Application Server to Use a Load Balancer or Proxy Server

The configuration prevents the process server from redirecting to an internal port when using a load balancer or proxy server.

The following steps describe the configuration:

1. Enter the WebSphere URL in the format

http://HOST\_NAME:PORT\_NUMBER/ibm/console (use https if SSL is enabled.).

For example, http://192.168.1.0:9000/ibm/console.

- 2. Login with your administrator user ID and password.
- 3. From the LHS menu, click Servers to expand and view the menu.
- 4. Click Server Types to expand the menu further and then click WebSphere Enterprise Application Servers to view the Application servers window.
- 5. On Application servers window, click the required Application Server link. For example, server1 in the following illustration:

	cation servers > server1 > Web container > Cus his page to specify an arbitrary name and value pair. T		for the same and value pair is a string that can sale
	al system configuration properties.	ne value that is specified	for the name and value pair is a string that can set
Pre	eferences		
Net	w Delete		
D	D # 9		
Select	Name 🗘	Value 🗘	Description 🗇
You	can administer the following resources:		
	com.ibm.ws.webcontainer.extractHostHeaderPort	true	808
	trusthostheaderoort	true	828

#### 6. Click Web Container Settings > Custom Properties.

- 7. Add the following properties:
  - Name: trusthostheaderport

Value: true

■ Name: com.ibm.ws.webcontainer.extractHostHeaderPort

Value: true

8. Restart the WebSphere Application Server to apply the changes.

#### **Deleting WebSphere Profiles**

To delete a WebSphere profile, do the following:

- 1. Select the check box adjacent to the required application and click Stop.
- 2. Stop the WebSphere profile to be deleted.
- 3. Navigate to WebSphere directory:

<WebSphere\_Installation\_Directory>/AppServer/bin/

4. Execute the command:

manageprofiles.sh -delete -profileName <profile\_name>

5. Delete profile folder.

Example: <WebSphere\_Installation\_Directory>/AppServer/profiles/<profile\_name>

6. Execute the command:

manageprofiles.sh -validateAndUpdateRegistry

#### WebSphere HTTPS Configuration

Following are the steps for configuring an HTTPS Transport on WebSphere:

1. Create a profile using the Profile Creation Wizard in WebSphere.

2. Note down the https port specified during this process and use the same as servlet port or web server port during OFSAAI installation.

To enable https configuration on Infrastructure, assign value 1 to "HTTPS\_ENABLE" in OFSAAI\_InstallConfig.xml for SILENT mode OFSAAI installation.

#### WebSphere Memory Settings

To configure the WebSphere Memory Settings:

- Navigate to Websphere applications server > Application servers > server1 > Process definition > Java Virtual Machine.
- 2. Change the memory setting for Java Heap:

Initial heap size = 512

Maximum heap size = 3072

#### **Configuring WebLogic for Application Deployment**

You can deploy multiple Infrastructure applications on different domains of a stand-alone WebLogic application server. To create multiple WebLogic "Domains" in a stand-alone server you can use the Domain Creation wizard. A domain is the set of files that define the runtime environment. At least one domain must exist to run WebLogic Application Server.

**Note:** For deployment on Oracle WebLogic Server 12.1.3+ (64 bit) with Java 8, download and install patch 18729264.

This section includes the following topics:

- Creating Domain in WebLogic Server
- Delete Domain in WebLogic
- WebLogic Memory Settings

#### Creating Domain in WebLogic Server

To create a new domain using Configuration Wizard in WebLogic, do the following:

1. Navigate to the directory <WLS\_HOME>/wlserver/common/bin and execute the command:

./config.sh

The Welcome window of the Configuration Wizard is displayed.

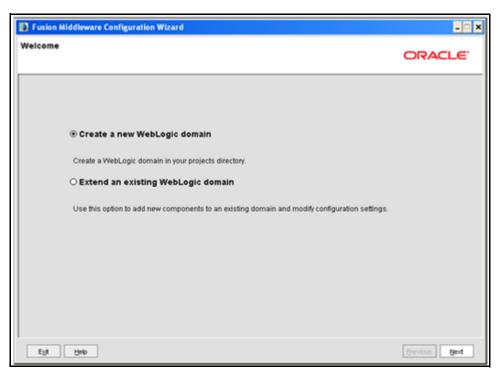


Figure 4: Welcome

2. Select Create a new WebLogic domain option and click Next.

The **Select Domain Source** window is displayed.

Fusion Middleware Configuration	Wizard	×
Select Domain Source		ORACLE
	main configured automatically to support the followin c Server Domin - 10.3.1.0 [wtserver_10.3] *	g products:
	ain on an existing template	
Template location	/weblogic/webi1013/bes	Browse
Egt Help		Previous Next

Figure 5: Select Domain Source

3. Select the Generate a domain configured automatically to support the following products option and click Next.

Fusion Middleware Configuration Wi	zard		_ 🗆 🗙
Specify Domain Name and Location			ORACLE
Domain name:	ter the name and location for the domain: MockSol /weblogic/webi1013/bea/user_projects/domains	Browse	
Egit Holp			Previous Next

The Specify Domain Name and Location window is displayed.

Figure 6: Specify Domain Name and Location

4. Enter the **Domain Name** and . Click **Browse** to navigate and specify the location. Click **Next**.

The Configure Administrator Username and Password window is displayed.

Fusion Middleware Con	figuration Wizard	×
Configure Administrato	Configure Administrator User Name and Password	
Usgard Changes		
*User name:	manager	
"User password:		
*Confirm user password:		
Description	This user is the default administrator.	
Egit Help		Previous Next

Figure 7: Configure Administrator Username and Password

- 5. Enter the **User name** and **User password** to be assigned to the Administrator. Ensure that the password is of minimum 8 characters in length.
- 6. Re-enter the password for confirmation and add a brief **Description**. Click **Next**.

The Configure Server Start Mode and JDK window is displayed.

Fusion Middleware Configuration Wizard	- 🗆 🖌
Configure Server Start Mode and JDK	ORACLE
Production Environment' in the WebLogic Server documentation.	oduction environment is secure. For more information, see the topic 'Securing a eloping and testing your applications with WebLogic JRockit early in the project cycle. it documentation.
WebLogic Domain Startup Mode	JDK Selection
Cevelopment Mode     Utilize boot properties for username and     password and poll for applications to deploy.     Sun JDK recommended for better startup     performance during iterative development.     Oroduction Mode     Require the entry of a username and password     and do not poll for applications to deploy.     WebLogic JRockit JDK recommended for better     runtime performance and management.	Available JDKs      Sun SDK1.6.0_18 @ Astri(dk1.6.0_18      Other JDK      Location:
Egt Help	Brevious Next

Figure 8: Configure Server Start Mode and JDK

7. Select the following options:

In the **WebLogic Domain Startup Mode** section, select the required mode (Development Mode or Production Mode). In the **JDK Selection** section, select **Other JDK**. Click **Browse** and navigate to the JDK location. Click **Next**. The **Select Optional Configuration** window is displayed.

Fusion Middleware Configuration	n Wizard	-
Fusion Middleware Configuration	Administration Server Modify Settings	ORACLE
Egt Help	<ul> <li>Managed Servers, Clusters and Machines         <ul> <li>Add or Delete             Modify Settings</li> <li>RDBMS Security Store             Modify Settings</li> </ul> </li> </ul>	Busice Store

Figure 9: Select Optional Configuration

8. Select Administration Server. A WebLogic Server domain must have an Administration Server. You can also select Manages Servers, Clusters and Machines and RDBMS Security Store if required. Click Next.

The **Configure the Administration Server** window is displayed.

Fusion Middlewa	re Configuration Wizard	_
Configure the Ad	ministration Server	ORACLE'
C Disgard Changes		
Name:	AdminServer	
"Listen address:	All Local Addresses	×
Listen port:	7007	
SSL listen port	N/A	
SSL enabled:		
Egt Help		Previous Next

Figure 10 Configure the Administration Server

 Enter Administration Server details such as the Name, Listen address, Listen Port, SSL listen port, and SSL enabled (for secure login using https) check box. Click Next.

The **Configuration Summary** window is displayed.

**Note:** Make a note of the Listen Port or SSL Listen Port value (ex: 7007), since the same has to be re-entered in the Servlet port field during Infrastructure installation.



Figure 11: Configure Server Start Mode and JDK

10. Verify the configuration details of the WebLogic domain and click **Create**.

11. The **Creating Domain** window is displayed with the status indication of the domain creation process.

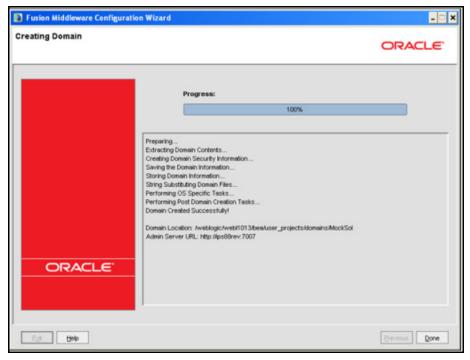


Figure 12: Configure Server Start Mode and JDK

12. Click **Done** when complete. The domain server is created enabling the deployment of multiple Infrastructure applications on a single WebLogic.

**Note:** Note down the HTTPS port specified during this process and use the same as servlet port or web server port during OFSAAI Installation.

To enable https configuration on Infrastructure, assign value 1 to "HTTPS\_ENABLE" in OFSAAI\_InstallConfig.xml for silent mode OFSAAI installation

13. Add a Java option entry -DUseSunHttpHandler=true in WLS\_HOME/bin/ "setDomainEnv.sh" file (Required only if self signed certificate is used).

#### Delete Domain in WebLogic

1. Navigate to the following directory:

<WebLogic Installation directory>/user\_projects/domains/<domain name>/bin

- 2. Execute stopWebLogic.sh to stop the Weblogic domain.
- 3. Delete the Weblogic domain.

#### WebLogic Memory Settings

To configure the WebLogic Memory Settings:

- 1. Change the memory setting for Java Heap to -Xms512m -Xmx3072m in setDomainEnv.sh file, which resides in the folder <DOMAIN\_HOME>/bin and in CommEnv.sh file which resides in the folder common/bin.
- 2. Edit this file for customizing memory settings and garbage collector settings depending on the available hardware configuration.

Example 1:

```
if [ "${JAVA_VENDOR}" = "Sun" ] ; then
WLS_MEM_ARGS_64BIT="-Xms512m -Xmx1024m"
export WLS_MEM_ARGS_64BIT
WLS_MEM_ARGS_32BIT="-Xms512m -Xmx1024m"
export WLS_MEM_ARGS_64BIT="-Xms512m -Xmx1024m"
export WLS_MEM_ARGS_64BIT
WLS_MEM_ARGS_32BIT="-Xms512m -Xmx1024m"
export WLS_MEM_ARGS_32BIT="-Xms512m -Xmx1024m"
```

#### Example 2:

```
JAVA_VM=
MEM ARGS="-Xms256m -Xmx1024m"
```

#### Updating Atomic Schema Data Source in Web Logic

To Disable the Wrap Data Types for the Atomic schema data source in Weblogic 12.2, execute the following steps:

- 1. In the Change Center of the Administration Console, click Lock & Edit.
- 2. In the Domain Structure tree, expand Services, then select Data Sources.
- 3. On the Summary of Data Sources page, click the data source name.
- 4. Select the Configuration: Connection Pool tab.
- 5. Scroll down and click Advanced to show the advanced connection pool options.
- 6. In Wrap Data Types, deselect the checkbox to disable wrapping.
- 7. Click Save.
- 8. To activate these changes, in the Change Center of the Administration Console, click Activate Changes.
- 9. Redeploy the Data Source and restart all the services.

#### **Configuring Apache Tomcat Server for Application Deployment**

This section is applicable only when the Web Application Server type is Tomcat.

This section includes the following topics:

- Tomcat User Administration
- Configure Tomcat to use JAVA 64 bit Executables
- Configure Servlet Port
- SSL Port Configuration
- Apache Tomcat Memory Settings
- Uninstalling WAR Files in Tomcat
- Configuration for Axis API
- Additional Configurations for Tomcat

#### Tomcat User Administration

The Tomcat administration and manager application does not provide a default login. You are required to edit "\$CATALINA\_HOME/conf/tomcat-users.xml" as instructed below.

This file contains an XML tag <user> for each individual user, which will display the user name and password used by admin to log on to Tomcat, and the role names to which the admin user is associated with. For example, <user name="admin" password="admin" roles="standard-manager" />

- 1. Add the manager role to any one of the existing user name/ password combination as shown in the example above.
- 2. Use the same user-name/ password to which the manager role has been assigned to access the Tomcat Application Manager.
- 3. If the Tomcat server is already running, it requires a re-start after the above configuration is done.

#### Configure Tomcat to use JAVA 64 bit Executables

- 1. Navigate to the "\$CATALINA\_HOME/bin" folder.
- 2. Edit the setclasspath.sh as explained below:
- 3. Replace the following block of text:

```
# Set standard commands for invoking Java.
```

```
_RUNJAVA="$JRE_HOME"/bin/java
```

```
if [ "$os400" != "true" ]; then
```

```
_RUNJDB="$JAVA_HOME"/bin/jdb
```

With:

# Set standard commands for invoking Java.

```
RUNJAVA="$JAVA BIN"/java
```

if [ "\$os400" != "true" ]; then

\_RUNJDB="\$JAVA\_BIN"/jdb

4. If the Tomcat server is already running, it requires a re-start after the above configuration is done.

**Note:** In case tomcat is installed under different Unix profile, set JAVA\_BIN environment variable in .profile to include the Java Runtime Environment absolute path.

For example:

```
export JAVA_BIN /usr/java6_64/jre/bin
export JAVA BIN = /usr/java6 64/jre/bin//sparcv9 for Solaris Sparc.
```

#### **Configure Servlet Port**

The default servlet port configured for the Tomcat installation is 8080. Ignore this section if you need to use the default port.

If you need to use a different port number, you must first configure the port in the "server.xml" in the "conf" directory of Tomcat Installation directory. The following steps guide you through the configuration process:

1. Navigate to \$CATALINA\_HOME/conf. Open server.xml and locate the tag:

"Define a non-SSL HTTP/1.1 Connector on port 8080 "

- 2. Against this tag, a parameter is specified 'Connector port = "8080" '. Edit this value to the new port number that will be used during the installation process.
- 3. Save your changes in "server.xml".

**Note:** Make a note of the servlet port configured. This information is required during the installation of OFSAA Application Pack.

#### SSL Port Configuration

If you need to configure and access your OFSAA setup for HTTPS access, ensure that the following connect tag under "Define a SSL HTTP/1/1 Connector on port 8443" in "<Tomcat\_installation\_folder>/conf/server.xml" file is uncommented for SSL Configuration. (By default, it is commented).

<Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true" maxThreads="150" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS"

**Note:** Make a note of the servlet port configured. This information would be required during the installation of OFSAA Application Pack. To enable https configuration on Infrastructure, assign value 1 to "HTTPS\_ENABLE" in OFSAAI\_InstallConfig.xml for SILENT mode OFSAAI installation.

For more information related to SSL Configuration on Tomcat, see http://tomcat.apache.org/.

#### Apache Tomcat Memory Settings

To configure the Apache Tomcat Memory Settings:

- 1. Locate the file catalina.sh which resides in the folder <CATALINA\_HOME>/bin.
- 2. Edit this file for customizing the memory settings and garbage collector settings depending on the available hardware configuration.
- 3. Add the memory setting for Java Heap to -Xms512m -Xmx1024m.

#### Example:

```
if [ -z "$LOGGING_MANAGER" ]; then
JAVA_OPTS="$JAVA_OPTS -Xms512m -Xmx1024m
-Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager"
else
JAVA_OPTS="$JAVA_OPTS -Xms512m -Xmx1024m $LOGGING_MANAGER"
Fi
```

#### Uninstalling WAR Files in Tomcat

To uninstall WAR files in tomcat, see Uninstalling WAR Files in Tomcat.

#### Configuration for Axis API

This step is optional and required only if the web application server used in Apache Tomcat. If you use any other web application server, skip and proceed to next step.

Copy the jaxrpc.jar from the *<OFSAA Installation Directory>/axis-1\_4/webapps/axis/WEB-INF/lib* and place it in under *<Tomcat Installation Directory>/lib* and restart the Tomcat Server.

#### Additional Configurations for Tomcat

To stop generating static content with one print statement per input line, you need to configure the web.xml file.

To configure web.xml file, perform the following steps:

- 1. Navigate to *tomcat/conf* folder.
- 2. Edit web.xml file as explained below:

Set the mapped file parameter to False in the servlet tag mentioned with

```
<servlet-name>jsp</servlet-name>.
<init-param>
<param-name>mappedfile</param-name>
<param-value>false</param-value>
</init-param>
```

## **Configuring Work Manager in Web Application Servers**

Process Modelling framework requires creation of Work Manager and mapping it to OFSAA instance. This configuration is required for WebSphere and WebLogic Web Application Server types.

This section covers the following topics:

- Configuring Work Manager in WebSphere Application Server
- Configuring Work Manager in WebLogic Application Server

#### **Configuring Work Manager in WebSphere Application Server**

This section is applicable only when the Web Application Server type is WebSphere.

This section covers the following topics:

- Creating Work Manager
- Mapping Work Manager to OFSAA WebSphere Instance

#### **Creating Work Manager**

1. Open the WebSphere admin console in the browser window: http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login window is displayed.

WebSphere. softwa	ine internet in the second secon
	WebSphere Integrated Solutions Console User ID: admin Password: Log in
IBM.	Licensed Materials - Property of IBM (c) Copyright IBM Corp. 1997, 2011 All Rights Reserved. IBM, the IBM logo, ibm.com and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at <u>Copyright and trademark information</u> .

2. Login with the user id that has admin rights.

Views All tasks	Welcome				
= Welcome	Welcome	2 - 0	About this Integrated Solutions Console	1	
Guided Activities	Integrated Solutions Console provides a common adr	Integrated Solutions Console provides a common administrative console for multiple products. The table lists the product suites that can be administered through this installation. Select a product suite to view more information.			
Servers	lists the product suites that can be administered throu more information.				
Applications			LICENSED MATERIALS PROPERTY OF IEM		
(i) Services	Suite Name	Version	5724-308, 5724-163, 5724-H88,5724-H89, 5655-W6 International Business Machines Corp. 1996, 2012	3 (C) Copyright	
B Resources	WebSphere Application Server	8.5.5.0			
B Security					
B Environment					
System administration					
3 Users and Groups					
Monitoring and Tuning					
* Troubleshooting					
B Service Integration					
1000 E					

3. From the LHS menu, expand **Resources > Asynchronous beans** and select **Work Managers**.

WebSphere. software					Welcome admin	Help   Logout IBM.
View: All tasks 🗸	Cell=nhl00sqnNode02Cell, Profile=BGR	сром				Close page
Valcana     Guided Activities     Services     Applications     Sances     Scholders     Chlockers     Scholders     Sobocces     Soboc     Soboc     Sassurce Adapters     Resource Adapters	Vork managers Work managers Specifies a work manager that co Scope: Call-wh/GoagaNode0 Scope specifies the leve and how it works, <u>seat</u> Node-wh/FoogaNode0 Node-wh/F	Help         =           Field help         Field help information, select a field label or last marker when the help covers is displayed.           Page help         Mare information about this pass and the selection about this pass command for last action				
Timermanagers     Strick managers     Gache instances     Mail     Mul     Route     Route     Route	Select Name O You can administer the following DefaultWorkManager	3NDI name 🗘 presources: wm/default	Scope () Node=whf00aqnNode01,Server=server1	Description () WebSphere Default WorkManager	Category () Default	
(# Security						
Environment						
System administration						
Users and Groups						
Monitoring and Tuning						
Troubleshooting     Service Integration						
B UDDI						

4. Select the required **Scope** from the drop-down list.

For example, Node=whf00aqnNode01, Server=server1.

5. Click **New** in the Preferences section.

Weblahors Mitwall		Walcome admin
View All tasks	Call-sht0sphale02Call, Publis-BOKCDOH	
Values     K Guided Activities     K Garves	Fight managers Work managers > New Epoches a work manager that contains a pool of threads that are bound int	to the Java(TW) Naming and Drestory Interface (JNDI).
# Applications	Configuration	
X Services		
Kassures     Schedulars     Collect paint managers     Xollect     Xollec	Senard Properties	The additional properties will not be available until the general properties for the near a applied or saved. Additional Properties * Custom properties
it Security	Category	
il Environment	Work Smeaul	
X System administration	0 millaecords	
X Users and Groups	Work request queue size	
36 Munitoring and Tuning	0 work objects	
# Trublashorting	Work request queue full action (Block M	
8 Service Integration		
ik veot	Service names Internationalization Application Profiling Service (deprecated) Security WorkAres	
	Thread pool properties • Norther of alaren threads • Minimum number of threads • Maximum number of threads • Maximum number of threads • Thread Injurity • Thread Injurity © Grountle	
	Apply (K) Reset Cancel	

- 6. Enter the Name as 'wm' and JNDI name as 'wm/WorkManager ' in the respective fields.
- 7. Enter the Thread pool properties.
- 8. Click Apply.

WebSphere. software		Welcome admit
Viewi All tasks	Cell=whf00aqnNode02Cell, Profile=BGRCDOM	
= Welcome	Work managers	7 -
E Guided Activities	B Messages	
* Servers	<ul> <li>Changes have been made to your local configuration. You can:</li> <li><u>Save</u> directly to the master configuration.</li> </ul>	
Applications	<ul> <li><u>Review</u> changes before saving or discarding.</li> </ul>	
Services	The server may need to be restarted for these changes to take effect.	
Resources		
Schodulers     Colject pool managers     Managers     Model     Model	Work managers > wm Specifies a work manager that contains a pool of threads that are bound into the Java(TM) Naming and Directory In Configuration	terface (JNDI).
Asynchronous beans     Timer managers	General Properties	Additional Properties
= Work managers	+ Scope	
Cache instances	cells:whf00aqnNode02Cell:nodes:whf00aqnNode01:servers:server1	Custom properties
Mail     URL	* Name	
Resource Environment	JNDI name	
Security	wm/WorkManager	
Environment	Description	
System administration		
Users and Groups	~	
Monitoring and Tuning		
Troubleshooting	Category	
Service integration		
* UDDI	0 milliseconds	
	Work request queue size Work request queue full action Block	

## 9. Click Save.

WebSphere, software						Welcome admi		
Viewr All tasks 🗸	Cell=whf00a	qnNode02Cell, Profile=BGRC	DOM					
	Work man	agers				?.		
Welcome     Guided Activities	Work	anagers						
			tains a pool of threads that are	bound into the Java(TM) Naming and Directory	Interface (JNDI).			
Servers		-	ell. Node=whf00aqnNode01, Se					
Applications		the second design of						
Services		Scope specifies the level and how it works, see the	at which the resource definition scope settings help.	is visible. For detailed information on what scop	ie is			
Resources		Node=whf00agnNode01	Servereserver1 V					
<ul> <li>Schedulers</li> <li>Object pool managers</li> <li>B JMS</li> </ul>	Pref		, Server-servert					
T JOBC	New	. Delete						
Resource Adapters	(m) (m)							
E Asynchronous beans								
Timer managers     Work managers	Select	Name 🗘	JNDI name 🗘	Scope 🗘	Description 🗘	Category 🗘		
Cache instances	You can administer the following resources:							
in Cache Inscances ■ Mail ■ URL		DefaultWorkManager	wm/default	Node=whf00aqnNode01,Server=server1	WebSphere Default WorkManager	Default		
B Resource Environment		wm	wm/WorkManager	Node=whf00aqnNode01,Server=server1				
Security	Total 3	r						
Environment								
System administration								
Users and Groups								
Monitoring and Tuning								
* Troubleshooting								
Service integration								
* UDDI								

After creating work manager successfully, you have to map it to OFSAA instance.

# Mapping Work Manager to OFSAA WebSphere Instance

1. From the LHS menu, expand **Applications > Application Types** and select **WebSphere enterprise applications**.

View: All tasks	Cell=whf00aphvode02Cell, Prefile=BGRCDOM					
	Enterprise Applications					
Welcome	Enterprise Applications					
± Guided Activities	Use this page to manage installed applications. A single application can be deployed onto multiple servers.					
* Servers	Preferences					
Applications	Start Stop Install Uninstall Update Rollout Update Remove File Export Export DL Export File					
<ul> <li>New Application</li> <li>Application Types</li> </ul>						
<ul> <li>WebSphere enterprise applications</li> </ul>						
<ul> <li>Business-level applications</li> <li>Assets</li> </ul>	Select Name 🗘 Application Status 👰					
<ul> <li>Global deployment settings</li> </ul>	You can administer the following resources:					
* Services	CafaultApplication					
Resources	✓ 258AAI					
Schedulers	formamanager 🌳					
<ul> <li>Object pool managers</li> </ul>						
E JMS						
Resource Adapters	□ auery ♥					
Asynchronous beans	Total 5					
Timer managers     Work managers						
Cache instances						
1 Mail						
I URL						
Resource Environment						
± Security						
ti Environment						
t System administration						
t Users and Groups						
Monitoring and Tuning						
+ Troubleshooting						
E Service integration						
E UDDI						

2. Click OFSAAI instance hyperlink.

General Properties	Modules			
Name     OFSAAI	Manage Modules			
	<ul> <li>Display module build Ids</li> </ul>			
Application reference validation Issue warnings	Web Module Properties			
Detail Properties	<ul> <li>Session management</li> </ul>			
	Context Root For Web Modules			
<ul> <li>Target specific application status</li> <li>Status behavior</li> </ul>	<ul> <li>Initialize parameters for serviets</li> </ul>			
<ul> <li>Startup behavior</li> <li>Application binaries</li> </ul>	= JSP and JSF options			
<ul> <li>Class loading and update detection</li> </ul>	<ul> <li>Virtual hosts</li> </ul>			
<ul> <li>Request dispatcher properties</li> </ul>	Enterprise Java Bean Properties			
<ul> <li>JASPI provider</li> </ul>	<ul> <li>Default messaging provider references</li> </ul>			
Custom properties				
<ul> <li>View Deployment Descriptor</li> </ul>	Client Module Properties			
Last participant support extension	Client module deployment mode			
References	Database Profiles			
Resource references	<ul> <li>SQL3 profiles and pureQuery bind files</li> </ul>			
<ul> <li>Shared library references</li> </ul>				
<ul> <li>Shared library relationships</li> </ul>				
Apply OK Reset Cancel				

3. Click **Resource references** link under References section.

	j.work.WorkManager		, in yo		t be mapped to a re	source	*		
	Set Multiple JNDI N	emes *							
	<b>D</b>								
1.000	Module		Bean	URI		Resour	ce Reference	Target Resource J	NDI Name
•	OFSAAI Web Applic	ation		OFSAAL.war.WEB-	INF/web.scml	wm/We	rkManager	wm/default	Browse
8¥88.54	LOataSource								
	Set Multiple JNDI N	ames *		Modify Res	iource Authentication	Metho	sd	Extended Prope	erties
	6								
					Resource				
Select	Module	Bean	UKI		Reference		Target Resource	e JNDI Name	Login configuration
									Resource authorization:
	OFSAAI Web Application			AI.war, WEB-	jdbc/FICMASTI	ER	jdbc/FICMAST Browse	ER	Container
	Application		LTUP/W	eo.xmi					Authentication method:
									None
									Resource authorization:
	OFSAAI Web			AL.war, WEB-	sdbc/OFSBGRC		jdbc/OFSBGR	CINFO	Container
-	Application		INF/w	eb.xml	JODO OF SBOKC	110-0	Browse		Authentication method:
									None

4. Click **Browse** corresponding to the Work Manager Resource Reference. The available resources are displayed.

			Resources shown here are only those availa available to a module can come from a hier	
			will override the parent. The overridden resou	
Appl	y Cancel			
-	9			
Select	Name 0.	JNDI name 0_	Scope ()_	Description
0	AsyncRequestDispatcherWorkManager	wm/ard	Node=whf00agnNode01	
0	DefaultWorkManager	wm/default	Node=whf00agnNode01.Server=server1	WebSphere Default WorkManager
۲	wm	wm/WorkManager	Node=whf00agnNode01.Server=server1	

5. Select the newly created Work Manager ('wm') and click Apply.

WebSphere, software							Welcome admin	Help   Logout
View All tasks	Cal-sh@taphidd2Ca	Pulle-BORCDON						Oree
	Enterprise Applications						1	talp.
Induced Bounded Annotaes Bounded Annotaes Mathematicaes A state Applications Webpitement Magneticaes	Resource references Each resource refer		arce references	be mapped to a resour	18.			Field help For field help information, set a field help currer is displayed. Page help Hare information allowd This BRM
<ul> <li>Oxford deployment settings</li> </ul>	Select Module	te:	en URE	Rest	ourse Reference	Target Resource 2600	Name	
X Sanipas	C OFSAAL W	b Application	OFSAAL HET. WEB-D	Wineburni um/1	WorkManager	wm/WorkManager	Brones-	
- Resources								
<ul> <li>E-Bandularis</li> <li>Ofgano pool managaris</li> <li>B-245</li> <li>B-245</li> <li>B-245C</li> <li>B-Ransovo Adaptaris</li> <li>B-Antonovo Adaptaris</li> <li>B-Antonovo Adaptaris</li> </ul>	Set Multiple	JHD1 Names *	Hodify Reso	urce Authentication Het	Pod	Extended Property		
* Timer managers	Select Wodule	Bean U	u	Resource Reference	Target Resour	te 360 Name	Legin configuration	
<ul> <li>Volk managen</li> <li>R Oak instances</li> <li>R Mail</li> <li>R Mail</li> <li>R Mail</li> <li>R Mail</li> <li>R Mainte Environment</li> </ul>	C OFSAN IN Application		SAAL.oor.WSB- Voodp.ami	ульстомалия	pile/VICHAR Browne	nya.	Resource exthorization: Container Authentication method: None	
t Security				-	-			
H Environment H System administration H Users and Groups H Monitoring and Tuning	C OFSAKI WA		PAAL our WEB- Foult and	Min/OrsesActive	Brown	ICIWO	Resource euffortation: Container Authentication method: None	
* Treublashouting								
A Service integration								
# uppt	OK Cancel							

6. Select the Work Manager ('wm/WorkManager') and click **OK**.

<ul> <li>Messages</li> <li>Changes have been made to your list</li> <li>Save, directly to the master configure</li> <li>Review changes before saving or dis</li> <li>The server may need to be restarted</li> </ul>	etion. Iscarding.
terprise Applications > OFSAAI e this page to configure an enterprise application. Click the onfiguration	links to access pages for further configuring of the application or its modules.
Ceneral Properties  Name OPSAAI Application reference validation Supervise  Detail Properties  Tarcet specific application status Statup behavior  Application binaries  Statup behavior  Application binaries  Statup behavior  Application and update detection  Revest dispatcher properties  View Deployment Descriptor  Last participant support extension  References  References  Revers references  Revers references	Modules <ul> <li>Manage, Modules</li> <li>Display module build Ids</li> </ul> Web Module Properties <ul> <li>Session, management</li> <li>Context, Root For Web Modules</li> <li>Initialize, parameters for servicts</li> <li>Initialize, parameters for servicts</li> <li>IsP, and JSF, options</li> <li>Yirtual hosts</li> </ul> Enterprise Java Bean Properties <ul> <li>Default messaging, provider references</li> <li>Client Module Properties</li> <li>Client Module Appoint mode</li> <li>Database Profiles</li> <li>SQL1 profiles and pureQuery bind files</li> </ul>
<ul> <li>Shared library references</li> <li>Shared library relationships</li> </ul>	

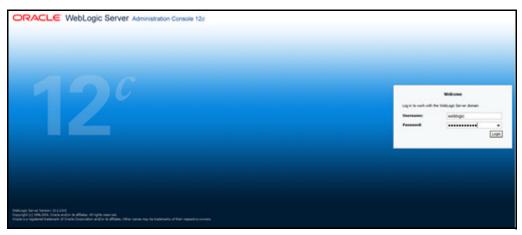
7. Click Save.

Jse t	prise Applications his page to manage installed applications. A single application can be dep iferences	ployed onto multiple servers.			
Sta	rt Stop Install Uninstall Update Rollout Update Ren	nove File Export DDL Export File			
	0 # P				
Selec	t Name 🗘	Application Status 👲			
You	can administer the following resources:				
	DefaultApplication	*			
	OFSAAL	*			
	formamanager	•			
	btAss	•			
	SVEC				

# Configuring Work Manager in WebLogic Application Server

This section is applicable only when the Web Application Server type is WebLogic.

1. Open the WebLogic admin console in the browser window: http://<ipaddress>:<administrative console port>/console. (https if SSL is enabled). The Welcome window is displayed.



- 2. Login with the user id that has admin rights.
- 3. From the Domain Structure menu in the LHS, expand **Environment** and select **Work Managers**. The Summary of Work Managers window is displayed.

ORACLE WebLogic Server	Admin	stution Console 13s			<u>Q</u>
Change Center		🔹 Home Log-Dut Phelerences 🔛 Record Help	19.		Welcame, weblogic Garrected to GBCBHUR
View changes and restarts	Ι.	Home - Burnsharg of Work Hanagars			
Configuration editing is enabled. Future changes will automatically be activated as your		summary of Work Hanapers			
moRy, att or delete terie in the donan. Bomain Structure GAGELIS Bi-Toutennent, Bi-Toutennen, Bi-Clustern Clustern Clustern			neat constraints that manage work performed by IntelLage Server instances Too, can also define application-ferred and mobile-level Work Managers.	s. This page displays the global itself Hanagers, request classes and t	head contracts defined for the donain.
- Machines - Writed Health		New Close Colors			Showing 0 to 0 of 0 Previous (Next
Work Hanagers Status and Stubling Cases		D Rame ris	Tage 1	Tangets	
Digitymens 8 Services Decutly Realms			There are no for	ime to display	
Security Itealms 8- Interspeciality		[Max] [2009] [2009]			Showing 1 to 1 of 2 Previous   Next

4. Click **New** to create a new work manager component.

Create a New Work Manager Component	
Back Next Finish Cancel	
Select Work Manager Definition type	
What type of Work Manager, Request Class or Constraint do you want to create?	
Work Manager	
○ Response Time Request Class	
O Fair Share Request Class	
○ Context Request Class	
O Maximum Threads Constraint	
O Minimum Threads Constraint	
Capacity Constraint	
Back Next Cancel	

5. Select **Work Manager** and click **Next**.

🏠 Home Log Out Preferences 🔛 Re	cord Help	
Home >Summary of Work Managers		
Create a New Work Manager Compor	ent	
Back Next Finish Cancel		
Work Manager Properties The following properties will be used to * Indicates required fields	identify your new Work Manager.	
What would you like to name your new	Nork Manager?	
* Name:	wm/WorkManager  ×	
Back Next Finish Cancel		

- 6. Enter the Name as 'wm/WorkManager'.
- 7. Click Next.

Create a New Work Manager Component	
Back Trint Finih Cancel	
Select deployment targets	
You can target the Work Manager to any of these WebLogic Server instances or Ousters. Select the same targets on which you will deploy applications that reference the Work Manager.	
Available targets :	
Servers	
Z AdminServer	
Back Nind Prinh Cancel	

8. Select the required deployment target and click **Finish**.

🔹 Hume Lag Out Preferences 🔛 Record Help		Welcome, weblagic Connected to: G	AC8013
None >Summary of Work Hanagers			
Messages			
All changes have been activated. No restarts are necessary.			
Work Manager created successfully			
Summary of Work Hanagers			
A titlek Manager defines a set of request classes and thread constraints that manage work performed by Global Work Hanagers are defined at the domain level. You can also define application-level and module (): Contomizer this fulfile Global Work Hanagers, Reguest Classes and Constraints		classes and thread constraints defined for this durnam.	
New Clone Delete		Showing 1 to 1 of 1 Previous	Not
Name riv	Tape	Targets	
wm/WorkManager	Work Manager	AdminServer	
New Clote Delete		Showing 1 to 1 of 1 Previous	Not

# Creating and Deploying EAR/WAR File

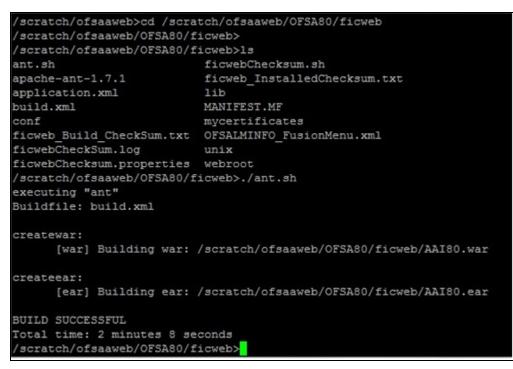
This section includes the following topics:

- Creating EAR/WAR File
- Deploying EAR/WAR File

# **Creating EAR/WAR File**

To create EAR/WAR File, follow these steps:

- 1. Navigate to the *\$FIC\_WEB\_HOME* directory on the OFSAA Installed server.
- 2. Execute ./ant.sh to trigger the creation of EAR/ WAR file.
- 3. On completion of the EAR files creation, the "BUILD SUCCESSFUL" and "Time taken" message is displayed and you will be returned to the prompt.



4. The EAR/ WAR file - <contextname>.ear/ .war - is created.

**Note:** The <contextname> is the name given during installation. This process overwrites any existing version of EAR file that exists in the path. In case of OFSAA configured onTomcat installation, <contextname>.war will be created.

# **Deploying EAR/WAR File**

This section includes the following topics:

- Deploying EAR/WAR Files for WebSphere
- Deploying EAR / WAR File for WebLogic
- Deploying WAR Files on Tomcat

**Note:** Ensure to clear the application cache prior to the deployment of Application Pack Web Archive. This is applicable to all Web Servers (WebSphere, WebLogic, and Tomcat). For more information, see Clearing Application Cache section.

## Deploying EAR/WAR Files for WebSphere

To deploy WebSphere EAR/WAR File, follow these steps:

- 1. Start WebSphere Profile by navigating to the path
  - "/<Websphere\_Installation\_Directory>/IBM/WebSphere/AppServer/profiles/<Profile\_Name>/bin/" and execute the command:

./startServer.sh server1

2. Open the WebSphere admin console in the browser window:

http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login
window is displayed.

WebSphere. software	
000	WebSphere Integrated
	Solutions Console User ID: admin Password:
IBM, the IBM logo International Busi product and servi	Log in s - Property of IBM (c) Copyright IBM Corp. 1997, 2011 All Rights Reserved. , ibm.com and WebSphere are trademarks or registered trademarks of ness Machines Corp., registered in many jurisdictions worldwide. Other ce names might be trademarks of IBM or other companies. A current list of s available on the Web at <u>Copyright and trademark information</u> .

#### Figure 1: Login Window

- 3. Enter the user credentials with admin privileges and click Log In.
- 4. From the LHS menu, select Applications and click New Application to display the New Application window.

New App	plication
New	Application
This	page provides links to create new applications of different types.
Insta	II a New Application
	New Enterprise Application
	New Business Level Application
	New Asset

#### Figure 2: New Application

5. Click New Enterprise Application to display the Preparing for the application installation window.

		module to upload and i		 
Path to the n	w application			
C Local file sy	stem			
Full path				
		Browse		
Remote file	vstem			
Full path				
		es/TEST80AAI/AAI8	Brown	

Figure 3: Preparing for the application installation

6. Select Remote File System and click Browse. Select the EAR file generated for OFSAA to upload and install. Click Next.

aring for the application installation	
How do you want to install the application?	
Fast Path - Prompt only when additional information is required.	
$\supset$ Detailed - Show all installation options and parameters.	
Choose to generate default bindings and mappings	
Previous Next Cancel	
Previous Next Cancel	

Figure 4: Installation Options

7. Select the Fast Path option and click Next to display the Install New Application window.

Step 1: Select installation options	Select installation options	
	Specify the various options that are available for your application.	
<u>Step 2</u> Map modules to servers	Precompile JavaServer Pages files	
<u>Step 3</u> Summary	Directory to install application          Image: Configuration         Image: Configuration         Image: Configuration         Image: Configuration         Image: Configuration name         AA180         Image: Create MBeans for resources         Image: Configuration of the seconds         Image: Create MBeans for resources         Image: Configuration of the seconds	
	<ul> <li>Deploy Web services         Validate Input off/warn/fail         warn          Process embedded configuration     </li> <li>File Permission         Allow all files to be read but not written to         Allow executables to execute         Allow HTML and image files to be read by everyone         (*\u00eddll=755*,*\u00edbase=755*,*\u00ed</li></ul>	
	Application Build ID Unknown Allow dispatching includes to remote resources Allow servicing includes from remote resources Business level application name Create New BLA Asynchronous Request Dispatch Type Disabled Allow EJB reference targets to resolve automatically Disabled Chent deployment mode Isolated Validate schema	

Figure 5: Install New Application

8. Enter the required information and click **Next** to display the **Map Modules to Servers** window.

<u>Step 1</u> Select installation options → Step 2: Map modules to servers <u>Step 3</u> Summary	Map modules to servers						
		Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through. Clusters and servers: WebSphere:cell=ofss2311701Node02Cell,node=ofss2311701Node02,server=server1 Apply					
		Select Module URI Server	Server				
		1	OFSAAI Web Application	AAIS0.war,WEB- INF/web.xml	WebSphere:cell=ofss2311701Node02Cell,node=ofss2311701Node02,server=server		

Figure 6: Map Modules to Servers

9. Select the Web Application and click Next to display the Map Resource References to Resources window.

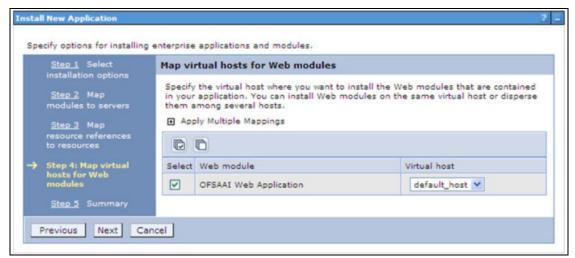
Step 1 Select installation options	Map	Map resource references to resources						
Step 2 Map modules to servers		esource reference sol.DataSource	that is d	efined in your applicat	tion must be mapped to a re-	source.	894	
Step 3: Mapresource references to resource			Biple JND1 Names * Modify Resource Authentication Method Extended Properties					
<u>Step 4</u> : Map virtual hosts to Web modules	D	0						
Step 5: Summary	Select	Module	Bean	URI	Resource Reference	Target Resource JNDI Name	Login configuration	
		OFSAAI Web Application		AAIDD.war,WEB- INF/web.xml	jdbc/OFSALMINFO	jdbc/OFSALMINFO Browse	Resource authorization: Container Authentication method: None	
		OFSAAI Web Application		AAI80.war,WEB- INF/web.xml	jdbc/FICMASTER	jdbo/FICMASTER Browse	Resource authorization: Container Authentication method: None	
		OFSAAI Web Application		AA180.war,WEB- INF/web.xml	jdbc/OFSCAPADQINFO	jdbo/OFSCAPADQINFO Browse	Resource authorization: Container Authentication method: None	

Figure 7: Map Resource References to Resources

- 10. Map each resource defined in the application to a resource JNDI name defined earlier.
- 11. Click Modify Resource Authentication Method and specify the authentication method created earlier.

You can specify "config" for FICMASTER resource or "atomic" for atomic resource as the authentication method.

12. Select the **OFSAAI Web Application** check box and click **Next** to display the **Map Virtual hosts for Web Modules** window.





13. Select the Web Application check box and click Next to display the Summary page.

<u>Step 1</u> Select installation options	Summary	
	Summary of installation options	
Step 2 Map modules to servers	Options	Values
	Precompile JavaServer Pages files	No
Step 3 Map resource references	Directory to install application	
to resources	Distribute application	Yes
Step 4 Map virtual	Use Binary Configuration	No
hosts for Web	Deploy enterprise beans	Yes
modules	Application name	AAI80
Step 5: Summary	Create MBeans for resources	Yes
	Override class reloading settings for Web and EJB modules	No
	Reload interval in seconds	
	Deploy Web services	No
	Validate Input off/warn/fail	warn
	Process embedded configuration	No
	File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755
	Application Build ID	Unknown
	Allow dispatching includes to remote resources	No
	Allow servicing includes from remote resources	No
	Business level application name	
	Asynchronous Request Dispatch Type	Disabled
	Allow EJB reference targets to resolve automatically	No
	Deploy client modules	No
	Client deployment mode	Isolated
	Validate schema	No
	Cell/Node/Server	Click here

#### **Figure 9: Summary**

14. Click **Finish** and deploy the Infrastructure Application on WebSphere.

15. On successful installation, a message is displayed. Click **Save** and save the master file configuration. The details are displayed in the Master File Configuration window.

#### To start the application:

1. Expand Applications > Application Type > WebSphere enterprise applications to display the Enterprise Applications window.

Enterprise Applications	3 -
Enterprise Applications	
Use this page to manage installed applications. A single application can be	deployed onto multiple servers.
Preferences	
Start Stop Install Uninstall Update Rollout Update	Remove File Export DDL Export File
Select Name 🗘	Application Status 💁
You can administer the following resources:	
AAIB0	8
DefaultApplication	*
ivtApp	•
auery .	*
Total 4	

#### Figure 10: Enterprise Applications

2. Select the installed application and click **Start**.

Note: <profile name> is the profile name given while creating the WebSphere profile.
<cell name> is the cell name given during profile creation.
<contextname> is the context name given during installation.

# Deploying EAR / WAR File for WebLogic

Following are the steps for deploying Infrastructure application that would be created during installation:

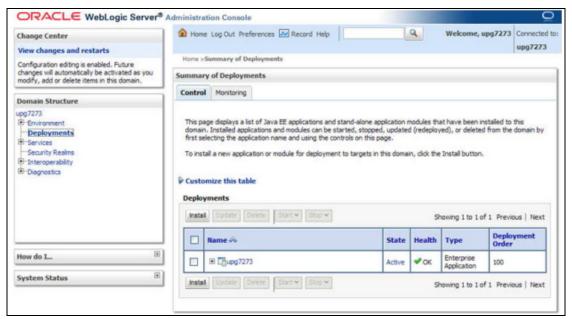
- 1. Navigate to the path < WebLogic Installation directory>/user\_projects/domains/<domain name>/bin in the machine in which WebLogic is installed.
- 2. Start WebLogic by executing the command:

./startWebLogic.sh -d64 file

3. Open the URL in the browser window: http://<ipaddress>:<admin server port>/console. (https if SSL is enabled). The Sign in window of the WebLogic Server Administration Console is displayed.

Note: Ensure that you have started Infrastructure Server by executing "./reveleusstartup.sh" as mentioned in Start Infrastructure section.

- 4. Log on to the WebLogic Server by entering the user credentials having privileges to deploy the EAR file.
- 5. From the Domain Structure LHS menu, click Deployments to display the Summary of Deployments window.



#### Figure 11: Summary of Deployments

- 6. Click Install to display the Install Application Assistant window.
- 7. Select the Exploded EAR directory after browsing to the directory where it is saved and click Next.

#### **Explode EAR File**

To explode EAR, follow the below steps:

1. Create the "applications" folder under domain name. For example:

/Bea/user\_projects/domains/ <Domain \_name>/applications.

- 2. Create <context name>.ear folder under "applications" folder.
- 3. Copy the <\$FIC\_WEB\_HOME/<context\_name>.ear file to <WEBLOGIC\_INSTALL\_DIR>/Bea/user\_projects/domains/<DOMAIN\_NAME>/applications/<context\_name>.ear
- 4. Explode the <context name>.ear file by executing the command:

jar -xvf <context name>.ear

- 5. Delete the <context>.ear and <context>.war files (recently created) <WEBLOGIC INSTALL DIR>/Bea/user projects/domains/<DOMAIN NAME>/applications/<context name>.ear

- 8. Explode the <context name>.war file by executing the following command to get the directory structure:

jar -xvf <context\_name>.war

#### **Install Application**

To install the Application:

1. Open the Install Application Assistant.

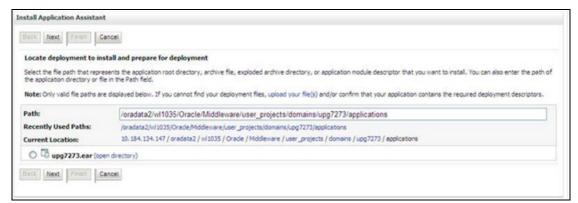


Figure 12: Install Application Assistant

2. Click Next.

Install Application Assistant
Back Next Frish Cancel
Choose targeting style
Targets are the servers, 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 and its components will be targeted to the same locations. This is the most common usage.
Install this deployment as a library
Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications
Back Next Finish Cancel

Figure 13: Install Application Assistant

3. From the Choose targeting style section, select the **Install this deployment as an application** option and click **Next** to display the **Optional Settings** window.

#### Creating and Deploying EAR/WAR File Chapter 6—Post Installation Configuration

Optional Setti	ngs
You can modify	these settings or accept the defaults
General	
What do you war	it to name this deployment?
lame:	upg7273
Security	
What security mo	del do you want to use with this application?
O DD Onhall	ise only roles and policies that are defined in the deployment descriptors.
O DO ONIA: C	se ony roles and policies that are defined in the deployment descriptors.
Custom R	oles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment
descriptor.	
Custom R	oles and Policies: Use only roles and policies that are defined in the Administration Console.
	Use a custom model that you have configured on the realm's configuration page.
O Advanced	Use a custom model that you have configured on the realm's configuration page.
Advanced     Source acce How should the s	: Use a custom model that you have configured on the realm's configuration page. ssibility
Advanced     Source acce How should the s	: Use a custom model that you have configured on the realm's configuration page. ssibility ource fies be made accessible? efaults defined by the deployment's targets
Advanced     Source acce     tow should the s     Use the di Recommended se	: Use a custom model that you have configured on the realm's configuration page. ssibility ource fies be made accessible? efaults defined by the deployment's targets
Advanced     Source acce     Copy this	: Use a custom model that you have configured on the realm's configuration page. ssibility ource files be made accessible? efaults defined by the deployment's targets
Advanced Source acce source acce tow should the s Use the de tecommended se Copy this During deployment	: Use a custom model that you have configured on the realm's configuration page. ssibility ource fies be made accessible? efaults defined by the deployment's targets iecton. application onto every target for me
Advanced Source acce tow should the s Use the de tecommended se Copy this During deployment	Use a custom model that you have configured on the realm's configuration page.  sublity ource files be made accessible?  efaults defined by the deployment's targets  lecton.  application onto every target for me  nt, the files will be copied automatically to the managed servers to which the application is targeted.

**Figure 14: Optional Settings** 

- 4. Enter a **Name** for the deployment if required.
- 5. Under the Security section, select the **DD only** option to specify that only roles and policies that are defined in the deployment descriptors should be used.
- 6. Select the I will make the deployment available from the following location option under the Source accessibility section.
- 7. Click Next to continue and display the Deployment Summary window.

istall Application A	ssistant	
Back Hext Fini	ah Cancel	
Review your choic	ces and click Finish	
Click Finish to comple	te the deployment. This may take a few moments to comp	dete.
Additional config	uration	
In order to work succe	essfully, this application may require additional configuration	on. Do you want to review this application's configuration after completing this assistant?
• Yes, take me t	to the deployment's configuration screen.	
🔿 No, I will revie	w the configuration later.	
Summary		
Deployment	/oradata2/wi1035/Oracle/Middleware/user_projects	idomains/upg7273/applications/upg7273.ear
Name:	upg72733	
Staging mode:	Use the defaults defined by the chosen targets	
Security Model:	DDOnly: Use only roles and policies that are defined	in the deployment descriptors.
Target Summary		
Components 🔗		Targets
upg7273.ear		AdminServer
Back Next Fm	sh. Cancel	
The second secon		

#### Figure 15: Deployment Summary

8. Select the option Yes, take me to the deployment's configuration screen option and click Finish to display the Settings for <Deployment Name> window.

#### Creating and Deploying EAR/WAR File Chapter 6—Post Installation Configuration

verview Deployment Pi	an Configuration	Security	Targets	Control	Testing	Monitoring	Notes		
								1	
ave									
								application files, the associated deployment plan, and so toon. Click on the name of the module to view and update it	
ame:	upg7273						1	The name of this Enterprise Application. More Info	
ath:	/ oradata2/ wi103 applications/ upg		Middleware	/user_proj	ects/ doma	ns/upg7273/		The path to the source of the deployable unit on the Admir Server. More Info	histration
eployment Plan:	(no plan specified	0					1	The path to the deployment plan document on Administrati Info	on Server. Mon
taging Mode:	(not specified)						-	The mode that specifies whether a deployment's files are o source on the Administration Server to the Managed Serve during application preparation. More Info	
ecurity Model:	DDOnly						1	The security model that is used to secure a deployed modu	le. More Info
Deployment Order:	100							An integer value that indicates when this unit is deployed, deployable units on a server, during startup. More Info	
🖥 Deployment Principa ame:							-	A string value that indicates what principal should be used the file or archive during startup and shutdown. This princip set the current subject when calling out into application co such as Application.flecycletistener. If no principal name is the anonymous principal will be used. More Info	pal will be used to se for interfaces
Save Hodules and Componen									
nouses and componen	3							Showing 1 to 1 of 1	Previous   Nex
Name 🔗									Туре
E upg7273									Enterprise
E EJBs									
StateLessCache	BeanBean								EJB
🖂 Modules									
Jupg7273									Web Application
Deancache.jar									E38 Module
E Web Services									
None to display									

#### Figure 16: Settings for <Deployment Name>

- 9. Review the general configuration details of the deployment. You can also update the configuration of the deployment in this window. In the Overview tab you can view the complete deployment configuration.
- 10. Click Save to update the changes, if any.
- 11. From the LHS menu, click **Deployments** to display the **Summary of Deployments** window.

mmary of Deployment	5				
ontrol Monitoring					
(redeployed), or deleted f	Java EE applications and stand-alone application modules the on the domain by first selecting the application name and us or module for deployment to targets in this domain, click the	ing the controls on this pay		stalled applications and module	s can be started, stopped, update
Install Update Delet	e Start V Stop V			s	howing 1 to 1 of 1 Previous   New
🕑 Name 🔗	Servicing all requests Servicing only administration requests	State	Health	Туре	Deployment Order
🕑 🗷 🔂 upg7273		Active	✓ OK	Enterprise Application	100
Install Update Delet	e Start - Stop -			s	howing 1 to 1 of 1 Previous   Nex

Figure 17: Summary of Deployments

12. Select the newly deployed Infrastructure application and click **Start > Servicing all requests**. Ensure that the Infrastructure server is up and running.

man	of Deployments				
	Monitoring				
	yed), or deleted from the domain by first selecting the applic	stion name and using the controls on this pa	ge.		
Custon eployr	I a new application or module for deployment to targets in th nize this table			ş	howing 1 to 1 of 1 Previous   Net
Custon eployr Instal	I a new application or module for deployment to targets in th size this table ments		Health	5 Туре	howing 1 to 1 of 1 Previous   Net Deployment Order

Figure 18: Summary of Deployments

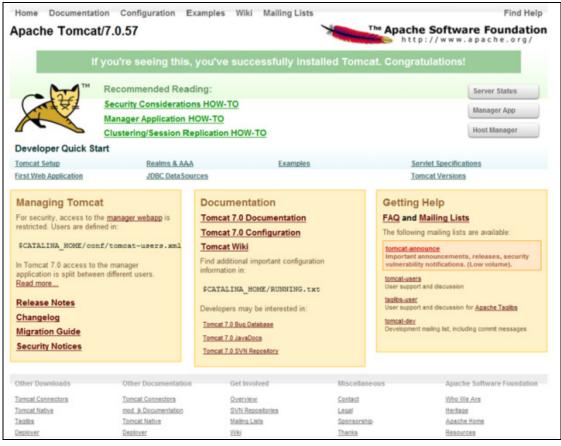
13. The State of the deployed application is displayed as Active if started successfully.

## **Deploying WAR Files on Tomcat**

Before deploying the WAR files, ensure that the previously deployed applications of Infrastructure are uninstalled. See *Uninstalling Previously Deployed WAR Files in Tomcat* for the procedure to uninstall the previously deployed Infrastructure war files.

On the machine that hosts Tomcat, follow the below steps outlined to deploy Infrastructure application:

 Copy the <context-name>.war from \$FIC\_WEB\_HOME/<context-name.war> to <Tomcat Installation Directory>/webapps/ directory.



- 2. Click **Manager App**. The Connect to dialog box is displayed.
- 3. Enter the User Id and Password that has admin rights and click OK. (For user creation in tomcat, see Tomcat User Administration. The **Tomcat Web Application Manager** window is displayed with the list of all the applications deployed.

stera	None specified	Torncal Decumentation		Nat .		Start (Stop) (Reicod) Undepicy	Tatules	
isamplea	None specified	Seniel and JSP Examples		tue	8	Start (Stop) (Retrait) (Undeploy) Expire sessions with idle + 30	manutes	
thost-manager	None specified	Tomcat Hitst Manager Application		144		Start Stop Reload Undeploy	minules	
ET ALVAGRE	None specified	Torncatilitanager Application		3140	1	Start Stop Reload Undeploy Expre sessions with idle a 30	minutes	
Deploy Deploy directory or Walk file	located on server							
		XML Configuration	Hearted Affeant Ne URL: 2019 URL: BasebNIDCK00H (Destoy)	CMERCHROIOTERE HTT				
WAR life to deploy		Belect WAR file to upload Degree		lows.				
Diagnostics Orack to see if a web applica	tion has caused a memory in	ak on stap, reliaad or undeploy						
Find leaks		will brigger a full garbage collection. Use it	vith extreme caution on produ	ction systems.				
Server Information								
Terrical Version	JVM Version	JVIII Vendor	OSName	OS-Verse		OS Architecture	Hosimame	IP Address
Apache Tomcat? 3.5	7 18.0_45.006	Ean Microsystems Inc.	Linex	2839-4002111#6	ueitx85_64	andi4	ofsis220364 in erade.com	10.184.136.215
			Copyright @ 1996	9-2014, Apacte Softwa	re Roundation			

- 4. In the Deploy section, enter the Context Path provided during the installation as "/<context-name>".
- 5. Enter the path where the <context-name>.war file resides (by default "\$FIC\_WEB\_HOME/<context-name.war>") in the WAR or Directory URL field and click Deploy.
- 6. On successful application deployment, a confirmation message is displayed. Start the Tomcat server. For more information, see *Starting Infrastructure Services*.

This appendix gives details about the steps to be performed to access OFSAA Application.

# Access the OFSAA Application

1. From a your desktop, open the browser and enter the URL in below format:

<scheme>://<IP address/ hostname>:<port>/<context-name>/login.jsp

For example: https://111.222.333.444:5555/ofsaa/login.jsp

The OFSAA login window is displayed as below:



#### Figure: OFSAA Login Window

- 2. With installation of every OFSAA Application Pack, there are two seeded user profiles configured in the system:
  - SYSADMN System Administrator
  - SYSAUTH System Authorizer

Note: For SYSADMN and SYSAUTH, the default password is password0.

3. Login to the application using the "SYSADMN" User ID. (Note that, there is no "I" in the SYSADMN login USER ID). Enter the password that was provided during installation. On the first login, you will be prompted to change the password.

# **OFSAA Landing Page**

This section includes the following topics:

- OFSAA Landing Page for Profitability Administrator
- Enabling a Product within an Application Pack

# **OFSAA Landing Page for Profitability Administrator**

On successful authentication, the OFSAA Landing Page is displayed. This is a common landing page for all users until a preferred application landing page is set by the user in his preferences.

	al Applications	> III ▼ A ▼ US-English ▼ PFT80USER ▼
Application       Object Administration       System Configuration & Identify         Applications       Financial Services Funds Trans *         * Common Object Maintenance       Data Model Maintenance         * Data Model Maintenance       *         * Data Model Maintenance       *         * ** Expressions       *         * ** Repressions       *         *** Process Tuning       *** Firth Maintenance         *** Firth Process Tuning       **** Firth Maintenance         *** Firth Maintenance       ************************************	Itily Management         Itily Management         Itily Common Object Maintenance         Itily Common Object Maintenance         Itily Data Model Maintenance         Itily Data Model In Incremental/Append/Complete Refresh Modes         Itily Data Model Maintenance         Itily Data Model In Incremental/Append/Complete Refresh Modes         Itily Data Model Management         Itily Dimension Management         Itily Dimension Batagement         Itily	Data Management Tools         Tools for Data Management         Image: Second Se

The landing page includes multiple tabs and each tab has specific links to OFSAA Infrastructure and/or Application modules. The tabs and links are displayed based on the OFSAA Application accessed and the access roles mapped to the logged in user.

Each tab contains LHS Menu and RHS Menu. The LHS Menu holds link(s) to modules in a tree structure. The RHS Menu holds link(s) to modules in a navigational panel format.

The following tabs are available in the Landing Page:

- Applications tab
- Object Administration tab
- System Configuration and Identity Management tab

## **Applications tab**

This tab lists the various OFSAA Applications that are installed in the OFSAA setup. The Select Application drop-down list displays the OFSAA Applications, based on the logged in user and mapped OFSAA Application User Group(s). Links to related modules within Applications and Infrastructure are grouped appropriately to maintain a unified experience.

## **Object Administration tab**

This tab lists the various OFSAA Information Domains created in the OFSAA setup. The Select Information Domain drop-down list displays the OFSAA Information Domains based on the logged in user and mapped OFSAA Application User Group(s). Links to modules that enable object traceability and migration of objects are grouped in this tab.

## System Configuration & Identity Management tab

This tab lists the OFSAA Infrastructure System Configuration and Identity Management modules. These modules work across Applications/ Information Domains and hence there are no Application and Information Domain drop-down lists in this tab. Links to modules that allow the maintenance of setup installation and identity management tasks are grouped together in this tab.

**Note:** The navigation path differs from Application to Application. That is, based on the selected Application, the navigation varies.

For more details on how to operate on each tab, see OFSAAI User Guide available in OHC.

# **Enabling a Product within an Application Pack**

You can also enable a product/ application within an application pack post installation at any point of time.

To enable a product through the application UI, follow these steps:

- 1. Login to the application as SYSADMN user or any user with System Administrator privileges.
- 2. Navigate to System Configurations & Identity Management tab, expand Administration and Configuration and select System Configuration.
- 3. Click Manage OFSAA Product License(s) to display the Manage OFSAA Product License(s) window is displayed.

		MANAGE OFSAA APPLICATION PACK L	ICENSE		9
MANAGE OFSAA APPLICATI	ON PACK LICENSE				
» INSTALLED APPLICAT	ION PACKS				
APPLICATION PACK ID	APPLICATION PACK NAME	DESCRIPTION	INSTALL DATE	VERSION	
O OFS_AAAI_PACK	Financial Services Advanced Analytics Infrastructure Pack	Applications for Advanced Analytics using Oracle R, Modeling & Stress Testing Framework and Inline Processing Engine	2015-11-02 11:13:58.0	8.0.2.0.0	î
O OFS_BGRC_PACK	OFS_BGRC_PACK	Financial Services Governance, Risk and Compliance Applications Pack	2015-11-04 01:35:15.0	8.0.1.0.0	
O OFS_CAP_ADQ_PACK	Pinancial Services Capital Adequacy Applications Pack	Applications for Basel Basic, IRB & Analytic, Operational Risk Economic Capital & Analytic and Retail Portfolio Risk Models and Pooling in Banking and Financial Services Domain	2015-11-02 16:19:44.0	8.0.1.0.0	
O OFS_PFT_PACK	Financial Services Profitability Applications Pack	Applications for Profitability in the Banking and Financial Services Domain	2015-11-02 13:24:19.0	8.0.1.0.0	
O OFS_HIVE1_PACK	OFS_HIVE1 PACK	OFS_HIVE1 PACK	2015-11-09 15:34:23.715	8.0.2.0.0	~

4. Select an Application pack to view the products in it. The products are displayed in the Products in the Application Pack grid.

NABLE	PRODUCTID	PRODUCT NAME	DESCRIPTION	ENABLE DATE	
1 1	OFS_AAAI	Financial Services Enterprise Modeling	Base Infrastructure for Advanced Analytical Applications	2015-11-02 11:13:58.0	1
<b>Z</b>	OFS_AAI	Financial Services Analytical Applications Infrastructure	Base Infrastructure for Analytical Applications Infrastructure	2015-11-02 11:13:58.0	
1	OFS_AAIB	Financial Services Analytical Applications Infrastructure - Big Data processing	Base Infrastructure for Analytical Applications Infrastructure - Big Data processing	2015-11-09 14:55:48.935	
Z (	OFS_IPE	Financial Services Inline Processing Engine	Framework for Inline Processing Engine	2015-11-02 11:13:58.0	3

- 5. Select the check box to enable a product within the Application Pack which is not enabled during installation.
- 6. Click **VIEW LICENSE AGREEMENT** to view the license information. The License Agreement section is displayed.



7. Select the option **I ACCEPT THE LICENSE AGREEMENT** and click **ENABLE**. A pop-up message confirmation is displayed showing that the product is enabled for the pack.

**Note:** To use the newly enabled product, you need to map your application users to the appropriate product specific User\_Group(s) and subsequently, authorize the actions by logging in as System Authorizer.

For more information, see *Mapping/Unmapping Users* section in the Oracle Financial Services Analytical Applications Infrastructure User Guide 8.0. To identify the newly enabled product specific UserGroups/ Application Pack specific User\_Groups, see the respective Application Pack specific Installation and Configuration Guide/ User Manual.

# **User Group Mapping**

#### Application specific User Group mappings:

- PFT:
  - Profitability Application Administrator
  - Profitability Application Analyst
  - Profitability Application Auditor
- **© FTP**:
  - Fund Transfer Pricing Application Administrator
  - Fund Transfer Pricing Application Analyst
  - Fund Transfer Pricing Application Auditor
- IPA:
  - IPA Administrator
  - IPA BI Analyst
  - IPA Data Analyst
- RPA:
  - RPA Administrator
  - RPA BI Analyst
  - RPA Data Analyst
- **© EFPA**:
  - EFPA Administrator
  - EFPA BI Analyst
  - EFPA Data Analyst

# Create and Deploy the Application Pack Web Archive

On successful installation of the OFSAA Application Pack, the web archive file is automatically generated. However, you need to deploy the generated web archive file on the Web Application Server.

For identifying the location of the generated web archive file and for generating and deploying the web archive file at any time later, see Creating and Deploying EAR/WAR File.

**Note:** See the Oracle Financial Services Forms Manager User Guide for instructions on Creating and Deploying the Forms Manager Web Archive.

# Patching Your OFS Profitability Pack Installation

Oracle strongly recommends installing the latest available patch set so as to be up to date with the various releases of the OFSAA Infrastructure product.

See http://support.oracle.com for more information on latest releases.

# CHAPTER 7 RPD/ Catalog Deployment, D3 and Map View Configuration for OBIEE 11g

This appendix covers the following sections:

- Deploying Profitability Pack Dashboards and Analytics
- Deploying D3 on OBIEE 11g Server
- Mapview Configuration
- HTML5 Compliance of OBIEE Reports in IE11

# Deploying Profitability Pack Dashboards and Analytics

This section covers the following topics:

- Installing OBIEE Server
- Installing OBIEE Windows Administration Client
- Deploying Profitability Pack Report Analytics
- Deploying EFPA/ IPA/ RPA Application Report Analytics

# Installing OBIEE Server

To install Oracle Business Intelligence Enterprise Edition (OBIEE) server, see the Oracle Fusion Middle ware Installation Guide for Oracle Business Intelligence11g Release 1 (11.1.1.9.5). After installing Oracle Business Intelligence Enterprise Edition (OBIEE) server, get the Enterprise Manager URL, username, password, and OBIEE installed directory from the System Administrator.

**Note:** From the OFS PFT Release 8.0.3.0.0 onwards, the OBIEE version 11.1.1.7.1 will not have support and enhancements. All the existing reports work same as the previous versions, but the new developments will not function in 11.1.1.7.1 version of OBIEE.

# Installing OBIEE Windows Administration Client

To install OBIEE repository administration client for Windows machine, see the Oracle<sup>®</sup> Fusion Middle ware Installation Guide for Oracle Business Intelligence11g Release 1 (11.1.1.9.0).

# **Deploying Profitability Pack Report Analytics**

To deploy Analytic Reports, follow these steps:

- 1. Stop Oracle Process Manager and Notification Server (OPMN) services by executing the following command:
  - <OBIEE Installed Directory>/instances/instance1/bin./opmnctl stopall
- 2. Copy OFS\_PFT\_PACK.rpd from *\$FIC\_HOME/OFSPFTPACKBI/OBIEE/11.1.1.9.5/* of Web layer to the Windows machine.

Note: It is recommended to merge the rpd files by keeping OFS\_PFT\_PACK.rpd as the base, in order to avoid merge errors.

In case of upgrade, the *\$FIC\_HOME/OFSPFTPACKBI* folder will have two folders namely, *\$FIC\_HOME/OFSPFTPACKBI/OBIEE* and *\$FIC\_HOME/OFSPFTPACKBI/OBIEE11G*. You can ignore the *\$FIC\_HOME/OFSPFTPACKBI/OBIEE11G* folder.

- 3. To configure connection pool of repository, follow these steps:
  - a. Open the repository using OBIEE Windows administration client.

O Open				×
Look in	OBIEE		- 💿 🏚 🖻	···· •
Recent Places	Name A OFS_PFT_P/	ACK.rpd	▼         Date modifi           2/8/2017 2:1	
Desktop				
Libraries				
Computer				
Network	•			
	File name:	OFS_PFT_PACK.pd		Open
	Files of type:	Repository Files (*.rpd)	•	Cancel

Figure 1: OBIEE Windows Administration Client to Open Repository

Oracle BI Administration Tool File Tools Help		
D 🗳 📽 📽 🖗 🖯 🛔 💥 🗊 🛍 🔀	r 💼 🔖 🖑 🖻 🔍 🗣 😘 କ କ 🚼	
Open		
	: 🕌 Ragav 🔹 🌀 🎓 🖾 🗸	
	Name A V Date modified V Type	
Recent Places	OFS_PFT_PACK.rpd 2/8/2017 2:16 PM RPD File	
Desktop		
Libraries		
Computer		
Network		
	File name: Open	
	File name:     Image: Open       Files of type:     Repository Files (*,rpd)       Image: Cancel     Cancel	
For Help, press F1		NUM

Figure 2: OBIEE Windows Administration Client to Select Repository from Windows Machine

- b. Enter default repository password as Admin123.
- c. In the physical section, expand 'Customer Insight Database' folder.

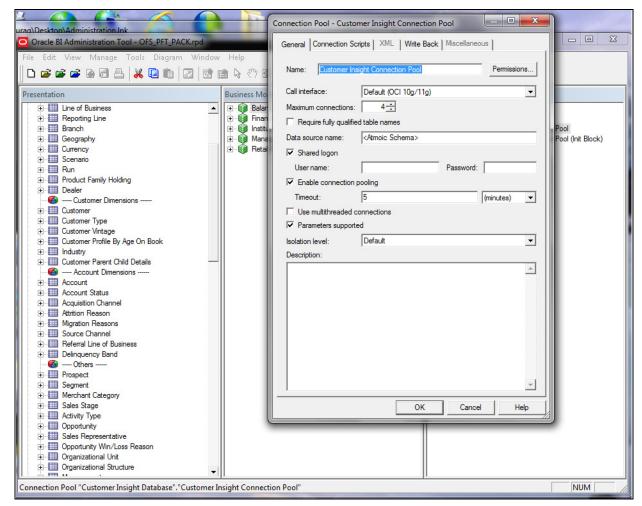


Figure 5: OBIEE Windows Administration Client to Open Connection Pool Window

- d. Double-click Customer Insight Connection Pool to open the Connection Pool Properties window.
- e. Enter the following in Data Source Name text box of Connection Pool Properties window after modifying

<Database Server Host Name> and <Database Name>

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database Server
HostName>)(PORT=1521))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=<Database
Name>)))
```

- f. Enter atomic schema user in User name text box.
- g. Enter atomic schema user password in Password text box.
- h. Click OK.

#### Deploying Profitability Pack Dashboards and Analytics Chapter 7—RPD/ Catalog Deployment, D3 and Map View Configuration for OBIEE 11g

uraq\Desktop\Administration.lnk	Connection Pool - Customer Insight Connection Pool				
Oracle BI Administration Tool - OFS_PFT_PACK.rpd	General Connection Scripts XML   Write Back   Miscellaneous				
File Edit View Manage Tools Diagram Window Help	Name: Customer Insight Connection Pool Permissions				
Presentation Business Mo	Call interface: Default (OCI 10g/11g)				
🕒 🖽 Line of Business 🔺 🗈 🔞 Balar	Maximum connections: 4				
E Reporting Line	Require fully qualified table names				
Erench     Erenc					
E Geography Hinter Geography Retail					
E Scenario	I Shared logon				
🕀 📲 Run	User name: Password:				
Product Family Holding	Enable connection pooling				
Dealer	Timeout: 5				
Generation Customer Dimensions					
Customer Vintage	✓         Parameters supported				
🕀 🎹 Customer Profile By Age On Book	Isolation level: Default				
Industry	Description:				
Customer Parent Child Details					
Geount Dimensions					
Account Status					
Acquisition Channel					
Attrition Reason					
🕀 🎹 Migration Reasons					
E Source Channel					
Referral Line of Business					
Delinquency Band     General Contents					
	v				
Merchant Category					
	OK Cancel Help				
Activity Type					
Deportunity					
Generative     Generative     Opportunity Win/Loss Reason					
Granizational Structure					
Connection Pool "Customer Insight Database". "Customer Insight Connection Pool"					

Figure 6: OBIEE Windows Administration Client to modify Connection Pool variables

- i. Double-click 'Customer Insight Connection Pool (Init Block)' to open the Connection Pool window.
- j. Enter the following in Data Source Name text box of Connection Pool Properties window after modifying

<Database Server Host Name> and <Database Name>

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database Server
HostName>)(PORT=1521))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=<Database
Name>))
```

- k. Enter atomic schema user in User name text box.
- I. Enter atomic schema password in **Password** text box.
- m. Click OK.
- 4. To configure connection pool for EFPA, modify 'OFSEFPA Connection Pool' and 'OFSEFPA Init Block' connection pool and set the property which is inside of 'EFPA' folder in the physical section.
- 5. Click File menu and then click Save.
- 6. Click Yes on the pop-up message Do you want to check global consistency?
- 7. Click **OK**, on the pop-up message Consistency check didn't find any errors, warning or best practices violations.

Note: Warnings on consistency check can be ignored.

#### List of Warning Messages:

**Business Model Financial Reporting:** 

[39090] Logical column "Financial Reporting"."Dim - Reporting Period"."Month" has invalid Sort Order column 'Month Sort'.

**Business Model Management Reporting:** 

[39090] Logical column "Management Reporting"."Dim - Reporting Period"."Year" has invalid Sort Order column 'Year Calendar'.

#### GLOBAL:

[39092] Presentation level "Retail Performance".."Branch"."Branch Hierarchy"."Region" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Retail Performance".."Time"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Retail Performance".."Product"."Product Hierarchy"."Leve20" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time Hierarchy Year\_Month"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Ratios".."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting"..."Reporting Period"."Time Hierarchy Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting".."Reporting Period"."Time Hierarchy Year\_Month"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet".."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting".. "Reporting Period". "Time Hierarchy". "Year" is first under

presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Institutional Performance".."Time"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Ratios".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Account"."Account"."Gen2,Account" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Period"."Period"."Gen2,Period" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Years"."Years"."Gen2,Years" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Scenario"."Scenario"."Gen2,Scenario" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Entity"."Entity"."Gen2,Entity" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Version"."Version"."Gen2,Version" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Strategy"."Strategy"."Gen2,Strategy" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Chart of Account"."Chart of Account"."Gen2, Chart of Account" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."AttributeValue"."AttributeValue"."Gen2,AttributeValue" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Currency"."Currency"."Gen2,Currency" is first under

presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Intercompany Entity Flag"."Intercompany Entity

Flag"."Gen2,Intercompany Entity Flag" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."AssetClass"."AssetClass"."Gen2,AssetClass" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."COA type"."COA type"."Gen2,COA type" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet

Planning".."DelinquenciesExp"."DelinquenciesExp"."Gen2,DelinquenciesExp" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Fee Classification"."Fee Classification"."Gen2,Fee

Classification" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Intercompany COA Flag"."Intercompany COA

Flag"."Gen2,Intercompany COA Flag" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Sample COA"."Sample COA"."Gen2,Sample COA" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."curr\_attrib"."curr\_attrib"."Gen2,curr\_attrib" is first under presentation hierarchy, but logical level it is associated with is not grand total level

[39092] Presentation level "Institutional Performance".."Segment"."Segment Hierarchy"."Type" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

## **Deploying EFPA/ IPA/ RPA Application Report Analytics**

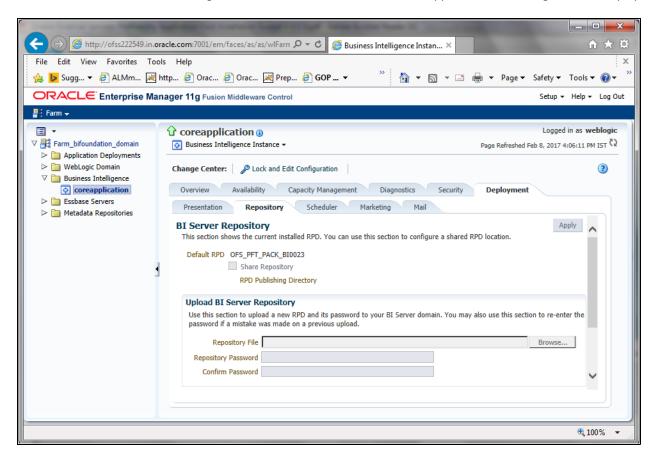
Use the following procedure to deploy the EFPA/ IPA/ RPA applications report analytics:

Note: Ensure that Oracle Business Intelligence 11.1.1.9.5 is available.

- 1. Deploy RPD and webcat file(s).
  - a. Login to OBIEE Enterprise Manager URL (http://<ip address>:<port>/em).
    - Click on hyperlink 'coreapplication' from 'Business Intelligence' tab on left hand side.
    - Under 'coreapplication', select the tab 'Deployment' and in that select sub-tab 'Repository'.



• Click 'Lock and Edit Configuration' button located below title 'coreapplication'. Following screen is displayed.



- b. RPD Deployment: Select 'Browse' button available under 'Upload BI Server Repository' section and select OFS\_PFT\_PACK.rpd file from the local folder. Enter default Repository password Admin123.
- c. Web catalog Deployment: Open the analytics OBIEE URL-(http://<ipaddress>:<port>/analytics) and login with the credentials.
- d. Click "Catalog" link available on the top right corner.
- e. Click "Shared Folders" and then "Un-Archive".



f. Browse the path where "OFS\_PFT\_PACK.catalog" is copied in the local folder. Select the file and click "Open". Then click "OK".

	() ×
OFS_PFT_PACK.catalog	Browse
None	~
Inherit	~
	OK Cancel
	None

g. Click "Dashboard" and click on any of the reports to ensure that all the reports are available.

ORACLE	Business Intelligence	Search	All	~	Advanced Administr	ation Help 🕶 Sign Out 🗢
My Dashboard		Home	Catalog	Favorites 👻	Dashboards 👻   🎴 New 👻   눧 Open 👻	Signed In As weblogic +
	This page has no content. To add content, dick Edd V here or in the toolbar.				Most Recent(My Dashboard - page 1) My Dashboard Sy Forecast Reports Financial Reporting Forecast Reports Financial Reporting Financial Reporting Financial Reporting Financial Reporting Customer Central Financian Component Resources Relationmer Measures Customer Central Financia Statement Financia	H. ()

- 2. Restart all services in OBIEE "Enterprise Manager".
- 3. If you are doing any changes online, then configure ODBC data source to connect to Oracle BI Server as follows:
  - a. Go To Control Panel > Administrative Tools > Data Sources (ODBC).
  - b. Select the 'System DSN' tab and click 'Add' Button.
  - c. Select a driver specific to (Oracle BI Server 11g) and click 'Finish' Button.
  - d. Enter 'Name' and 'Server' details (Specify the Host Name or IP Address of the BI Server and click 'Next').
  - e. Enter Oracle BI Server login id and password (Enter User Name and Password created at the time of OBIEE installation). Click 'Next'.
  - f. Click 'Finish'.
- 4. If RPD deployment is done on Essbase, then modify ESSBASE connection pool and set the properties.

# Deploying D3 on OBIEE 11g Server

This section provides detailed steps to install and configure D3, a visualization framework, which is used in few reports of IPA and RPA.

To deploy the D3 on OBIEE 11g server, do the following:

- 1. Download d3.zip of version 3.5.16 and place it in your local folder.
- 2. Unzip the d3 folder and move this to **analyticsRes** in your entitlement server.

**Note:** To view the Customer Group Structure report, copy the hashMap.js file from *\$FIC\_HOME/OFSPFTPACKBI/OBIEE/* and place it in to the d3 folder under **analyticsRes** and restart the application from the folder.

In case of upgrade, the *\$FIC\_HOME/OFSPFTPACKBI* folder will have two folders namely, *\$FIC\_HOME/OFSPFTPACKBI/OBIEE* and *\$FIC\_HOME/OFSPFTPACKBI/OBIEE11G*. You can ignore the *\$FIC\_HOME/OFSPFTPACKBI/OBIEE11G* folder.

 📙 analyticsRes 🔹 🚰 🛐 🖛 🔹 📼 🔂 🏠 🔁 🕋 Find Files 🔓											
📲 Download 🔐 📝 Edit 🗙 🛃 🕞 Properties   🔂 🖪 🛨 🖃											
$/scratch/obieehome/instances/instance1/bifoundation/OracleBIPresentationServicesComponent/coreapplication\_obips1/analyticsResident and the second servicesComponent/coreapplication\_obips1/analyticsResident and the second servicesComponent and the servicesC$											
Name	Size	Changed	Rights	Owner							
WEB-INF		23-04-2015 PM 02:22:51 23-04-2015 PM 02:22:51 13-07-2015 PM 02:31:54	rwxr-x rwxr-x rwxr-xr-x	merajend merajend merajend							

3. Copy the WEB\_INF directory from analyticsRes into d3 folder.

🔐 d3 🔹 🖓 🚰 🕶 🔸 🚽	🔁 🗖 🏠 🎜 🛛	🆀 Find Files 🛛 🔓							
🛿 🚰 Download 🙀 📝 Edit 🗶 🛃 🕞 Properties 🚔 🕞 📳 🛨 🖃 🗹									
/scratch/obieehome/instances/instance1/bifour	ndation/OracleBIPre	sentationServicesCompone	nt/coreapplica	tion_obips1/analyticsR	es/d				
Name	Size	Changed	Rights	Owner					
		13-07-2015 PM 02:31:54	rwxr-x	merajend					
WEB-INF		13-07-2015 PM 02:38:56	rwxr-xr-x	merajend					
	2 KB	07-02-2015 PM 12:28:18	rw-rr	merajend					
📓 d3.min.js	148 KB	10-02-2015 AM 08:32:14	rw-rr	merajend					
📓 d3.js	329 KB	10-02-2015 AM 08:32:08	rw-rr	merajend					

4. Login to web logic server, go to **Deployments** in your domain structure, click the **Lock & Edit** button, and then select **Install**.

ORACLE WebLogic Server® Administration Console							
Change Center	Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of Deployments						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Summary of Deployments Control Monitoring						
Lock & Edit Release Configuration Domain Structure	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applic To install a new application or module for deployment to targets in this domain, dick the Install button.						
bifoundation_domain							
- <mark>-Deployments</mark> Et-Services	Deployments						
Security Realms Interoperability	Install Update Delete Start - Stop -						
⊕-Diagnostics	🔲 Name 🏟						
	df.oracle.businesseditor(1.0,11.1.1.2.0)						
	madf.orade.domain(1.0, 11.1.1.2.0)						
	df.orade.domain.webapp(1.0,11.1.1.2.0)						
How do I	E adminservice (11.1.1)						
Install an Enterprise application	□						
<ul> <li>Configure an Enterprise application</li> <li>Update (redeploy) an Enterprise application</li> </ul>	□						
Start and stop a deployed Enterprise     application	■						
Monitor the modules of an Enterprise	📄 🏠bi.em						
<ul><li>application</li><li>Deploy EJB modules</li></ul>	□						
Install a Web application	🔲 🗄 🐻 biadminservlet (11. 1. 1)						
System Status	Install Update Delete Start v Stop v						
Health of Running Servers							
Failed (0)							

5. Once you click on **Install** button, it will take you to the screen shot below where you will paste the full path to the **d3** directory, check the check box next to d3 (open directory) and click **Next**.

Install Application Assistant	
Back Next Finish Cancel	
Locate deployment to install and prep	pare for deployment
Select the file path that represents the appl	ication root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file in the Path field.
Note: Only valid file paths are displayed be	ow. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.
Path:	/scratch/obieehome/instances/instance1/bifoundation/OracleBIPresentationServicesComponent/coreapplication_obips1/analyticsRes/d3
Recently Used Paths:	(none)
Current Location:	ofss222590 / scratch / obieehome / instances / instance 1 / bifoundation / OradeBIPresentationServicesComponent / coreapplication_obips 1 / analyticsRes
🖲 🞥 d3 (open directory)	
Back Next Finish Cancel	

6. On the next screen, you'll choose Install this deployment as an application and click **Next**.

erver®	Administration Console
	🔒 Home Log Out Preferences 🔤 Record Help
	Home >Summary of Deployments
ase	Install Application Assistant
edit the	Back Next Finish Cancel
	Choose targeting style
	Targets are the servers, 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 and its components will be targeted to the same locations. This is the most common usage.
	Install this deployment as a library
	Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.
	Back Next Finish Cancel

7. On the next screen, select "I will make the deployment accessible from the following location" and click **Finish**.

erver®	Ad	Iministration Console							
		The Log Out Preferences 🔝 Record Help							
		Home > Summary of Deployments							
ise	Install Application Assistant								
dit the		Back Next Finish Cancel							
		Optional Settings							
		You can modify these settings or accept the defaults							
		- General							
		What do you want to name this deployment?							
		Name: d3							
		- Security							
		What security model do you want to use with this application?							
		OD Only: Use only roles and policies that are defined in the deployment descriptors.							
		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.							
=		Advanced: Use a custom model that you have configured on the realm's configuration page.							
		- Source accessibility							
		How should the source files be made accessible?							
erver		◎ Use the defaults defined by the deployment's targets							
cation		Recommended selection.							
		◎ Copy this application onto every target for me							
		During deployment, the files will be copied automatically to the managed servers to which the application is targeted.							
		I will make the deployment accessible from the following location							
		Location: /scratch/obieehome/instances/instance1/bifoundatior							
		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							

8. On this screen, you will have to click on Activate Changes.

VICALE WebLogic Server® Administration Console									
WebLogic Server	Admi	msura							
Change Center		Hom	e Log Out Preferences 🔤 Record Help						
View changes and restarts			Summary of Deployments						
Pending changes exist. They must be activated to take effect.	Messages  The deployment has been successfully installed.  You must also activate the pending changes to commit this, and other updates, to the active system.								
Undo All Changes		Summary of Deployments Control Monitoring							
Domain Structure									
bifundation_domain ⊕ -Environment → Deployments ⊕ -Services → Security Realms ⊕ -Interoperability	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, so To install a new application or module for deployment to targets in this domain, click the Install button.								
Diagnostics		Custo	mize this table						
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How do I	í II		adf.orade.businesseditor(1.0,11.1.1.2.0)	Active					
Install an Enterprise application			adf.orade.domain(1.0,11.1.1.2.0)	Active					
and a second s									

9. After activating the changes, the application will now be in a **Prepared** state, as in the screen shot below. You will have to stop the application by checking the check box next to it and selecting **Force Stop Now** from the **Stop** menu.

in Sanvar®	Adm	ninio	tration Console							
			ome Log Out Preferences 💽 Record H	elp Q						
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			Name 🗇	Force Stop Now		State	Health	Туре		
				Stop, but continue servicing administration requests		Active	🖋 ОК	Enterprise Application		
			■      ■      bisecurity (11. 1. 1)	-	Active	🖋 ОК	Enterprise Application			
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on			Calc (11.1.1)			Active	🖋 ОК	Web Application		
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			🖽 📑 em			Active	🖋 ОК	Enterprise Application		
			remai 👘			Active		Library		
		In	stall Update Delete Start ~	Stop 🗸						

10. You can start the application by checking the check box next to it and selecting **Servicing all requests** from the **Start** menu.

ver® Ad	ministration Console									
	🟦 Home Log Out Preferences 🔤 Record Help									
	Home >Summary of Deployments									
or 🕴	Summary of Deployments									
	Control Monitoring									
	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or delete To install a new application or module for deployment to targets in this domain, click the Install button.									
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11. The application will now change to an **Active** state and ready to use.

Summ	Summary of Deployments								
Cont	ol Monitoring								
To ir	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application for install a new application or module for deployment to targets in this domain, click the Install button.								
	oyments	-							
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# Mapview Configuration

This section provides information on prerequisites, creating the mapviewer NAVTEQ data source, configuration edits and server starting which is required for viewing map based reports of IPA and RPA.

Note: This is just a sample configuration working on sample data provided by NAVTEQ.

This section covers the following topics:

- Prerequisites
- Creating the Mapviewer NAVTEQ Data source
- Loading FSI\_LOCATION\_MAP\_COORD for viewing NAVTEQ Maps

## Prerequisites

NAVTEQ database dump can be imported only into an Oracle 11g database. If you have no other option than using a 10g version, contact OBIEE/Mapviewer Product Management.

## Creating the Mapviewer NAVTEQ Data source

Ensure that you have a connection to 11g Oracle database from the machine where your OBIEE platform is installed.

Create a NAVTEQ schema within that database for holding the NAVTEQ spatial data.

To create NAVTEQ schema, perform the steps as explained in the following section.

#### Downloading the Mapviewer NAVTEQ Database Dump

To download the Mapviewer NAVTEQ Database Dump, follow these steps:

1. Access the NAVTEQ Data Bundle for OBIEE from the 'OBIEE 11.1.1.3 - Sample Application':

http://www.oracle.com/technetwork/middleware/bi-foundation/obieesamplesarchive-2026956.html

 Download and unzip the SampleApp\_Navteq\_dmp.zip file that contains an Oracle Database export file named: obiee navteq.dmp

#### **Creating NAVTEQ User**

To create a NAVTEQ user, follow these steps:

- 1. Start a SQL\*Plus session to the Oracle Database as a user with system or DBA privileges.
- 2. Run the following script:

```
create user obiee_navteq identified by obiee_navteq default tablespace users quota
unlimited on users;
grant "connect" to obiee_navteq;
```

grant "resource" to obiee\_navteq;

3. Once the script is executed, verify whether you can connect to the newly created user.

**Note:** The OBIEE\_NAVTEQ user creation script defaults with the password obiee\_navteq (same as user name) within the script. It is recommended that you keep this value unchanged to simplify configuration.

#### Importing the database dmp file

4. Import the Oracle Database export file - obiee\_navteq.dmp into the obiee\_navteq schema using the following import command, from the command line (Command Prompt in Windows):

c:\> imp obiee\_navteq/obiee\_navteq@connectString file=obiee\_navteq.dmp FULL=Y

5. ConnectString is the connection string to your Oracle Database 11g where the user obiee\_navteq was created in the step mentioned earlier. Wait for the import process to complete, once successfully completed, login on your DB as obiee\_navteq/obiee\_navteq and validate that you can view the schema tables and some data.

#### **Inserting Extra Spatial Metadata**

6. Start a SQL\*Plus session to the Oracle Database and connect as user obiee\_navteq.

```
For example: c:\>sqlplus obiee_navteq/obiee_navteq@connectString
```

7. Run the following script:

```
INSERT INTO user_sdo_maps SELECT * FROM my_maps;
INSERT INTO user_sdo_themes SELECT * FROM my_themes;
INSERT INTO user_sdo_styles SELECT * FROM my_styles;
INSERT INTO user_sdo_cached_maps SELECT * FROM my_tile_cache;
Commit;
```

#### MapViewerConfig.xml Edits

1. Open the Mapviewer console using the following URL:

http://<ip address>:<port>/mapviewer

- 2. Click Admin.
- 3. Login with the username/password that you provided while installing the product.
- 4. Click Configuration. This opens the mapViewerConfig.xml on your setup.
- 5. Make the following updates to the xml file.

```
<security_config> (Optional)
```

In the <security\_config> property of this file, make the following changes:

a. Change the <proxy\_enabled\_hosts> property to the following: Substitute the hostname, IP address and port to the correct values on your setup.

<proxy\_enabled\_hosts>

```
http://<ip address>:<port>/mapviewer
http://<ip address>:<port>/, http://<ip address>:<port>/
http://<ip address>:<port>/mapviewer
        </proxy enabled hosts>
```

<disable\_csf>true</disable\_csf>
<enforce\_security\_role> true </enforce\_security\_role>

### **Predefined Data Sources**

- 1. At the end of the file, in the section named Predefined Data Source, add the following data source entry.
- 2. Replace the IP address, SID, and port to the correct values of the database where the obiee\_navteq schema has been created in the above steps.

```
<map_data_source name="OBIEE_NAVTEQ_SAMPLE"
jdbc_host="10.229.147.238" (use your db ip)
jdbc_sid="orcl" (use your db sid)
jdbc_port="1521" (use your db port)
jdbc_user="obiee_navteq"
jdbc_password="!obiee_navteq" (use your selected password if different from OOB)
jdbc_mode="thin"
number_of_mappers="3"
allow_jdbc_theme_based_foi="false" />
```

**Note:** Ensure that all tags have been closed correctly and also the above data source is not within the comments section (ensure that it is outside the comments section which is represented by <!-- .. -->).

- 3. Click Save and Restart button at the bottom of the file.
- 4. Once configuration.xml file is restarted, click Data Sources.
- 5. Verify whether you can view OBIEE\_NAVTEQ\_SAMPLE as an entry in data sources.
- 6. Select the radio button OBIEE\_NAVTEQ\_SAMPLE.
- 7. Login to Analytic screen > Administration.
- 8. Click Manage map Data.
- 9. Click Import Layer and then choose OBIEE\_COUNTRY.
- 10. Choose **Preview MAP** as OBIEE\_WORLD\_MAP\_FAST.
- 11. Same for OBIEE STATE.
- 12. Select Background Maps.
- 13. Use import Background maps and chosen OBIEE\_WORLD\_MAP\_FAST.
- 14. Edit the same, add layer OBIEE COUNTRY and then OBIEE STATE. While choosing, chose the location OBIEE\_WORLD\_MAP for higher Zoom value.
- 15. Select the zoom level for country 0 and for country 2...15.
- 16. Navigate back to Layers tab.
- 17. Edit OBIEE COUNTRY and OBIEE STATE by adding BI Key Columns:

#### For Country:

- a. Choose Institutional Performance>Geography>Country Description.
- b. Choose Institutional Performance>Branch>Branch Country Description.
- c. Choose Retail Performance>Geography>Country Description.

#### For State:

- a. Choose Institutional Performance>Geography>State Description.
- b. Choose Institutional Performance>Branch>Branch State Description.
- c. Choose Retail Performance>Geography>State Description.

## Loading FSI\_LOCATION\_MAP\_COORD for viewing NAVTEQ Maps

For NAVTEQ Maps to work, it requires the location data in our atomic schema to be in sync with the map Metadata in NAVTEQ schema. This is achieved through a new table FSI\_LOCATION\_MAP\_COORD, the load process of which is described as follows.

Populate FSI\_LOCATION\_MAP\_COORD based on DIM\_LOCATION data itself, but description and codes should come from tables OBIEE\_COUNTRY, OBIEE\_STATE, OBIEE\_CITY (from the DB schema configured for Maps, 'OBIEE\_NAVTEQ', for example in this case) respectively for Country, State and City, and n\_location\_skey should be the corresponding n\_location\_skey from DIM\_LOCATION.

N_LOCATION_SKEY	1
V_LOCATION_CODE	HAW
V_COUNTRY_CODE	USA
V_COUNTRY_DESC	United States
V_STATE_CODE	н
V_STATE_DESC	Hawaii
V_CITY_CODE	CITI1
V_CITY_DESC	Honolulu
V_ZIP_CODE	96813

For Instance, let us consider the following data from DIM\_LOCATION.

Now, to populate the following columns in FSI LOCATION MAP COORD:

n_location_skey =	1
v_country_code = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_code_map = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_desc = OBIEE_COUNTRY.NAME	United States
v_state_code = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_code_map = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_desc = OBIEE_STATE.STATE_NAME	HAWAII
v_city_code = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_code_map = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_desc = OBIEE_CITY.CITY_NAME	HONOLULU
v_zip_code =	96813

## HTML5 Compliance of OBIEE Reports in IE11

Perform the following steps in order to verify the HTML5 compliance of OBIEE reports in IE11:

1. Remove the compatibility settings for analytics.

2. Change the instanceconfig.xml file to make all the chart views to be shown in HTML5 by default.

You can find the instanceconfig.xml file in the following location:

 $OBIEE\_HOME/instances/instance1/config/OracleBIP resentationServicesComponent/coreapplication\_obips1$ 

<Charts>

<DefaultWebImageType>html5</DefaultWebImageType>

</Charts>

- 3. Enable Mapviewer and D3 reports (to ensure that these reports show up as is).
- 4. Verify all the BI reports by removing the default chart view setting (to ensure that these reports show up as usual irrespective of HTML5 or flash web Image formats).

## Details on OBIEE11.1.9.5

In a browser that does not support the html5 format, the image renders in the flash format instead (which is also interactive).

# CHAPTER 8

# RPD/ Catalog Deployment, D3 and Map Configuration for OBIEE12c

This chapter covers the following sections:

- **O** Deploying Profitability Pack Dashboards and Analytics
- Deploying D3 on OBIEE 12c Server
- Mapview Configuration for OBIEE 12C

# Deploying Profitability Pack Dashboards and Analytics

This chapter covers the following sections:

- Installing OBIEE Server
- Installing OBIEE Windows Administration Client
- Deploying Profitability Pack Report Analytics
- Deploying EFPA/ IPA/ RPA Application Report Analytics

## Installing OBIEE Server

To install Oracle Business Intelligence Enterprise Edition (OBIEE) server, see the Oracle Fusion Middle ware Installation Guide for Oracle Business Intelligence Release 12.2.1.2.0. After installing Oracle Business Intelligence Enterprise Edition (OBIEE) server, get the Enterprise Manager URL, username, password, and OBIEE installed directory from the System Administrator.

**Note:** Once the OBIEE server is installed, it should be upgraded to the version as mentioned in the Environment section.

## Installing OBIEE Windows Administration Client

To install OBIEE repository administration client for Windows machine, see the Oracle<sup>®</sup> Fusion Middle ware Installation Guide for Oracle Business Intelligence Release 12.2.1.2.0.

## **Deploying Profitability Pack Report Analytics**

To deploy Analytic Reports, follow these steps:

1. Copy OFS\_PFT\_PACK.rpd from *\$FIC\_HOME/OFSPFTPACKBI/OBIEE/12.2.1.2.0/* of Web layer to the Windows machine.

Note: It is recommended to merge the rpd files by keeping <code>OFS\_PFT\_PACK.rpd</code> as the base, in order to avoid merge errors.

In case of upgrade, the *\$FIC\_HOME/OFSPFTPACKBI* folder will have two folders namely, *\$FIC\_HOME/OFSPFTPACKBI/OBIEE* and *\$FIC\_HOME/OFSPFTPACKBI/OBIEE12C*. You can ignore the *\$FIC\_HOME/OFSPFTPACKBI/OBIEE12C* folder.

- 2. To configure connection pool of repository, follow these steps:
  - a. Open the repository using OBIEE Windows administration client.

Open				<b>X</b>
Look in	: 🚺 OBIEE		- 🗿 🏚 🖻	<b>.</b>
Recent Places	Name A	ACK.rpd	▼ Date modifie 2/8/2017 2:10	
Desktop				
Libraries				
Computer				
Network	•			×
	File name:	OFS_PFT_PACK.rpd	•	Open
	Files of type:	Repository Files (*.rpd)	•	Cancel

Figure 1: OBIEE Windows Administration Client to Open Repository

Oracle BI Administration Tool File Tools Help			
	I 🗷 🖻 📾 🗞 🖑 🗩 🔍 🗣 🗣 🖷		
11			
Ope	en		
	Look in: 🔒 Ragav	▼ ③ 参 ▷ Ⅲ▼	
	Name 🔺	▼ Date modified ▼ Type	
	OFS_PFT_PACK.rpd nt Places	2/8/2017 2:16 PM RPD File	
	isktop		
Lit	<b>T</b> aries		
	S		
Cor	mputer		
	twork		
Ne			
	File name: Files of type: Repository Files (*.rpd)	Open     Cancel	
	Files of type: Repository Files (*.rpd)		
For Help, press F1			NUM

Figure 2: OBIEE Windows Administration Client to Select Repository from Windows Machine

b. Enter default repository password as Admin123.

c. In the physical section, expand 'Customer Insight Database' folder.

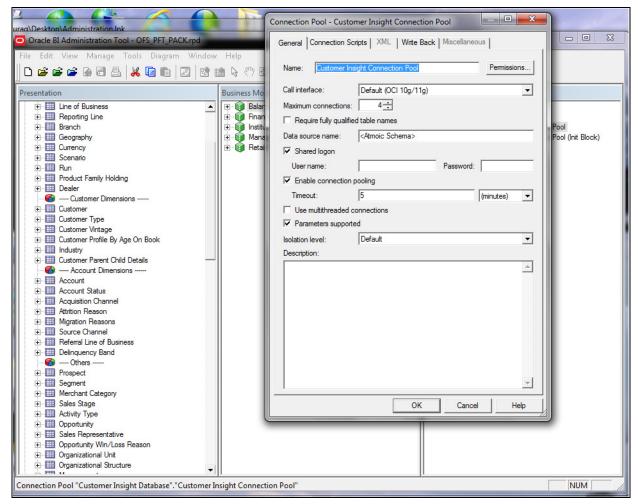


Figure 5: OBIEE Windows Administration Client to Open Connection Pool Window

- d. Double-click *Customer Insight Connection Pool* to open the Connection Pool Properties window.
- e. Enter the following in Data Source Name text box of Connection Pool Properties window after modifying

<Database Server Host Name> and <Database Name>

(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database Server Host Name>)(PORT=1521))(CONNECT DATA=(SERVER=DEDICATED)(SERVICE NAME=<Database Name>)))

- f. Enter atomic schema user in User name text box.
- g. Enter atomic schema user password in Password text box.
- h. Click OK.

#### Deploying Profitability Pack Dashboards and Analytics Chapter 8—RPD/ Catalog Deployment, D3 and Map Configuration for OBIEE12c

	Connection Pool - Customer Insight Connection Pool	
Oracle BI Administration Tool - OFS_PFT_PACK.rpd	General Connection Scripts XML Write Back Miscellaneous	
File Edit View Manage Tools Diagram Window Help	Name: Customer Insight Connection Pool     Permissions	
Presentation Business M	Call interface: Default (OCI 10g/11g)	
📄 💮 Line of Business 🔹 🔺 🗐 Bala	Maximum connections: 4 ÷	
E Reporting Line		
⊕     Branch     ⊕     @ Inst     ⊕     @ Geography     ⊕     @ Mai	tu Data source name: <a href="https://www.action.com">ktimologicality.com</a> //www.action.com	Pool Pool (Init Block)
I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1	FOOI (INIE BIOCK)
	Shared logon	
🕀 🎹 Run	User name: Password:	
Product Family Holding	Enable connection pooling	
E     Dealer     Customer Dimensions	Timeout: 5 (minutes)	
Customer Dimensions		
Customer Type		
E Customer Vintage	Parameters supported	
🗉 🛄 Customer Profile By Age On Book	Isolation level: Default	
Industry	Description:	
Customer Parent Child Details		
Account Status		
Acquisition Channel		
Attrition Reason		
⊕		
Others		
Prospect		
E Segment		
Merchant Category		
ingeneration in the stage for	OK Cancel Help	
Activity Type     Opportunity		
Sales Representative		
Opportunity Win/Loss Reason		
🖅 🏢 Organizational Unit		
Organizational Structure		
Connection Pool "Customer Insight Database"."Customer Insight Conne	ction Pool"	NUM

Figure 6: OBIEE Windows Administration Client to modify Connection Pool variables

i. Double-click 'Customer Insight Connection Pool (Init Block)' to open the Connection Pool window.

#### j. Enter the following in Data Source Name text box of Connection Pool Properties window after modifying

<Database Server Host Name> and <Database Name>

DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database Server Host

- Name>)(PORT=1521))(CONNECT\_DATA=(SERVER=DEDICATED)(SERVICE\_NAME=<Database Name>)))
- k. Enter atomic schema user in User name text box.
- I. Enter atomic schema password in Password text box.
- m. Click OK.
- n. To configure connection pool for EFPA, modify 'OFSEFPA Connection Pool' and 'OFSEFPA Init Block' connection pool and set the property which is inside of 'EFPA' folder in the physical section.
- 3. Click File menu and then click Save.
- 4. Click Yes on the pop-up message Do you want to check global consistency?
- 5. Click **OK**, on the pop-up message Consistency check didn't find any errors, warning or best practices violations.

Note: Warnings on consistency check can be ignored.

#### List of Warning Messages:

GLOBAL:

[39092] Presentation level "Retail Performance".."Branch"."Branch Hierarchy"."Region" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Retail Performance".."Time"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Retail Performance".."Product"."Product Hierarchy"."Leve20" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time Hierarchy Year\_Month"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Ratios"..."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting"..."Reporting Period"."Time Hierarchy Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting".."Reporting Period"."Time Hierarchy Year\_Month"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet".."Reporting Period"."Time\_Hierarchy\_Month"."Month" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Reporting"..."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Institutional Performance".."Time"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Financial Ratios".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Income Statement".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet".."Reporting Period"."Time Hierarchy"."Year" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Account"."Account"."Gen2,Account" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Period"."Period"."Gen2,Period" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Years"."Years"."Gen2,Years" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Scenario"."Scenario"."Gen2,Scenario" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Entity"."Entity"."Gen2,Entity" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Version"."Version"."Gen2,Version" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Strategy"."Strategy"."Gen2,Strategy" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Chart of Account"."Chart of Account"."Gen2, Chart of Account" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."AttributeValue"."AttributeValue"."Gen2,AttributeValue" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Currency"."Currency"."Gen2,Currency" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Intercompany Entity Flag"."Intercompany Entity Flag"."Gen2,Intercompany Entity Flag" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."AssetClass"."AssetClass"."Gen2,AssetClass" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."COA type"."COA type"."Gen2,COA type" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet

Planning".."DelinquenciesExp"."DelinquenciesExp"."Gen2,DelinquenciesExp" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Fee Classification"."Fee Classification"."Gen2,Fee Classification" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Intercompany COA Flag"."Intercompany COA Flag"."Intercompany COA Flag" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."Sample COA"."Sample COA"."Gen2,Sample COA" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Balance Sheet Planning".."curr\_attrib"."curr\_attrib"."Gen2,curr\_attrib" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39092] Presentation level "Institutional Performance".."Segment"."Segment Hierarchy"."Type" is first under presentation hierarchy, but logical level it is associated with is not grand total level.

[39051] Application Role "BIAdministrator" is not defined in the Enterprise Manager.

[39051] Application Role "BIAuthor" is not defined in the Enterprise Manager.

[39051] Application Role "Relationship Manager" is not defined in the Enterprise Manager.

[39051] Application Role "Sales Representative" is not defined in the Enterprise Manager.

[39051] Application Role "Business Analyst" is not defined in the Enterprise Manager.

## **Deploying EFPA/ IPA/ RPA Application Report Analytics**

Use the following procedure to deploy the EFPA/ IPA/ RPA applications report analytics:

Note: Ensure that Oracle Business Intelligence 12.2.1.2.0 is available.

- 1. Deploy RPD and webcat file(s).
  - a. Go to Oracle home and create a folder under below mentioned path and move the OFS\_PFT\_PACK.rpd (with the Connection Pool details) from local to this newly created folder (for example: PFT\_RPD)

\$ORACLE\_HOME/user\_projects/domains/bi

- b. Go to the location of datamodel.sh. that is \$ORACLE\_HOME/user\_projects/domains/bi/bitools/bin/
- c. Execute the following command:

./datamodel.sh uploadrpd -I rpdLocationPath -SI ssi -U username -P password

Replace rpdLocationPath with where you placed the rpd (for example: \$ORACLE\_HOME/user\_projects/domains/bi/PFT\_RPD/OFS\_PFT\_PACK.rpd), username/ password with the analytics username and password.

- d. Web catalog Deployment:
  - Copy OFS\_PFT\_PACK.catalog from \$FIC\_HOME/OFSPFTPACKBI/OBIEE/12.2.1.2/ and paste in a local folder.

Open the analytics OBIEE URL-(http://<ipaddress>:<port>/analytics) and login with the credentials.

- e. Click "Catalog" link available on the top right corner.
- f. Click "Shared Folders" and then "Un-Archive".

ORACLE	Business In
Catalog	
User View 👱 隆	~ 🔂 🔂 🎦 🗸
Folders	2
H My Folders	
Shared F	olders 1
2	
Tasks	
Shared Fol	ders
Expand	Archive
	0 raciare
RSS	Unarchive 2
RSS	Unarchive 2
RSS X Delete	Unarchive 2
SRSS Colete	Unarchive 2 Upload Properties

g. Browse the path where "OFS\_PFT\_PACK.catalog" is copied in the local folder. Select the file and click "Open". Then click "OK".

archive		(2
Archive file	OFS_PFT_PACK.catalog	Browse
Replace	None	~
ACL	Inherit	~

h. Click "Dashboard" and click on any of the reports to ensure that all the reports are available.

ORACLE Business Intelligence	Search All	Advanced Administra	ation Help 🗕 Sign Out 🗢
My Dashboard	Home 🛛 Catalog 🗍 Favorites 👻	Dashboards 👻 🛛 💁 Open 👻	Signed In As weblogic -
This page has no content. To add content, click <b>Edit</b> of here or in the tooba	г.	Most Recent(My Dashboard - page 1)  My Dashboard  Sp Forecast Reports  Financial Reporting  Customer Central Customer Central Costoner Central	ii

- 2. Restart all services in OBIEE "Enterprise Manager" This is optional.
- 3. If you are doing any changes online, then configure ODBC data source to connect to Oracle BI Server as follows:
  - a. Go To Control Panel > Administrative Tools > Data Sources (ODBC).
  - b. Select the 'System DSN' tab and click 'Add' Button.
  - c. Select a driver specific to (Oracle BI Server 12c) and click 'Finish' Button.
  - d. Enter 'Name' and 'Server' details (Specify the Host Name or IP Address of the BI Server and click 'Next').
  - e. Enter Oracle BI Server login id and password (Enter User Name and Password created at the time of OBIEE installation). Click 'Next'.
  - f. Click 'Finish'.
- 4. If RPD deployment is done on Essbase, then modify ESSBASE connection pool and set the properties.

# Deploying D3 on OBIEE 12c Server

This section provides detailed steps to install and configure D3, a visualization framework, which is used in few reports of IPA and RPA.

To deploy the D3 OBIEE 12c server, do the following:

- 1. Download d3.zip of version 3.5.16 and place it in your local folder.
- 2. Create analyticsRes folder under below mentioned path:

\$ORACLE\_HOME /user\_projects/domains/

3. Unzip the d3 folder and move this to analyticsRes in your entitlement server.

📔 analyticsRes 🔹 🚰 🛐 🛛 🖛 🔹 🖈 👔 🔁		s Pe		
🛙 🔐 Download 🔐 📝 Edit 🗶 🛃 🕞 Propertie	s 🚰 🛐 🗄 🖃 🗹			
/scratch/obiee12c/Middleware/Oracle_Home/user_p	projects/domains/analyticsR	les		
Name	Size	Changed	Rights	Owner
<mark>≩</mark> <mark>]</mark> ∎ d3		26-05-2017 PM 6:14:41 15-06-2017 PM 6:30:57	rwxrwxrwx rwxr-xr-x	ofsaobie nmaira

**Note:** To view the Customer Group Structure report, copy the hashMap.js file from *\$FIC\_HOME/OFSPFTPACKBI/OBIEE/* and place it in to the d3 folder under **analyticsRes** and restart the application from the folder.

In case of upgrade, the *\$FIC\_HOME/OFSPFTPACKBI* folder will have two folders namely, *\$FIC\_HOME/OFSPFTPACKBI/OBIEE* and *\$FIC\_HOME/OFSPFTPACKBI/OBIEE12C*. You can ignore the *\$FIC\_HOME/OFSPFTPACKBI/OBIEE12C* folder.

4. Create WEB-INF folder inside d3 folder and place a web.xml file with the content as given below:

```
<?xml version="1.0" encoding="UTF-8"?>
```

<web-app xmlns="http://java.sun.com/xml/ns/javaee"</pre>

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

xsi:schemaLocation="http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"

```
version="2.5">
```

<mime-mapping>

<extension>xsd</extension>

<mime-type>text/xml</mime-type>

</mime-mapping>

<mime-mapping>

<extension>xml</extension>

<mime-type>text/xml</mime-type>

```
</mime-mapping>
```

```
<mime-mapping>
```

#### Deploying D3 on OBIEE 12c Server Chapter 8—RPD/ Catalog Deployment, D3 and Map Configuration for OBIEE12c

```
<extension>js</extension>
    <mime-type>text/javascript</mime-type>
</mime-mapping>
    <extension>css</extension>
        <mime-type>text/css</mime-type>
</mime-mapping>
        <extension>png</extension>
        <mime-type>image/png</mime-type>
</mime-mapping>
<mime-mapping>
<mime-mapping>
<mime-mapping>
<mime-mapping>
</mime-mapping>
</mime-mapping>
</mime-mapping>
</mime-mapping>
</mime-mapping>
</mime-type>application/x-shockwave-flash</mime-type>
</mime-mapping>
</mime-mapping>
</mime-mapping>
</mime-type>application/x-shockwave-flash</mime-type>
</mime-type>
```

</web-app>

	🔋 d3 🔹 🛃 🔽 🚰 😨	🏫 🧭 🕋 Find File	s 🗜		
	👔 🚰 Download 🕋 🛛 🔐 Edit 🗶 🚮 🕞 Properties 🔓	😚 🕞 🖃 💌			
	/scratch/obiee12c/Middleware/Oracle_Home/user_proje	cts/domains/analytics	Res/d3		
e	Name	Size	Changed	Rights	Owner
	🕹		20-07-2017 PM 2:41:42	rwxrwxrwx	ofsaobie
	UVEB-INF		15-05-2017 PM 4:48:41	rwxr-xr-x	nmaira
	LICENSE	2 KB	17-02-2016 PM 4:33:26	rw-rr	nmaira
	hashMap.js	4 KB	07-09-2015 PM 3:56:57	rw-rr	nmaira
в	😹 d3.min.js	149 KB	17-02-2016 PM 5:39:24	rw-rr	nmaira
в	😹 d3.js	331 KB	17-02-2016 PM 5:39:22	rw-rr	nmaira
в	1250 (11150)				
в					
в					

	🔋 WEB-INF 🔹 🚰 😨 া 🖛 🔹 🔶 🖈 😭 🏠	🐉 🚰 Find File	s C		
	🛿 🎲 Download 🔐 📝 Edit 🗙 🛃 🕞 Properties 🎽 🔓	• • • •			
	/scratch/obiee12c/Middleware/Oracle_Home/user_projects/do	mains/analytics	Res/d3/WEB-INF		
ze	Name	Size	Changed	Rights	Owner
	🤐 👕 web.xml	1 KB	15-06-2017 PM 6:30:57 25-02-2016 PM 6:48:42	rwxr-xr-x rw-rr	nmaira nmaira
3					

5. Login to web logic server, go to **Deployments** in your domain structure, and then select **Install**.

Change Center	🕜 Home Log Out Preferences 🔤 Record Help			
View changes and restarts	Home >Summary of Deployments			
No pending changes exist. Click the Release	Summary of Deployments			
Configuration button to allow others to edit the domain.	Configuration Control Monitoring			
Lock & Edit				
Release Configuration	This page displays the list of Java EE applications and standalone application modules installed to this do			
Domain Structure	You can update (redeploy) or delete installed applications and modules from the domain by selecting the			
bi	To install a new application or module for deployment to targets in this domain, click Install.			
Domain Partitions				
Environment     Deployments	Customize this table			
ter Services	Deployments			
Security Realms				
	Install Update Delete			
	🔁 Name 🏟			
	adf.oracle.businesseditor(1.0,12.2.1.1.0)			
	adf.oracle.domain(1.0,12.2.1.1.0)			
How do I	adf.oracle.domain.webapp(1.0,12.2.1.1.0)			
Install an enterprise application	Image: State of the state			
	adf.oracle.domain.webapp(1.0,12.2.1.1.0)			

6. Once you click on **Install** button, it will take you to the screen shot below where you will paste the full path to the **d3** directory, check the check box next to d3 (open directory) and click **Next**.

Change Center	A Home Log Out Preferences	Record Help
View changes and restarts	Home >Summary of Deployments	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant           Back         Next         Finish         Cancel	
Release Configuration	Locate deployment to install and Select the file path that represents t	d prepare for deployment he application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the app
Domain Structure	Note: Only valid file paths are displa	ayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the required deployment descriptors.
bi Domain Partitions	Path:	/scratch/obiee12c/Middleware/Oracle_Home/user_projects/domains/analyticsRes/d3
	Recently Used Paths:	/scratch/obiee12c/Middleware/Oracle_Home/user_projects/domains/analyticsRes
Services	Current Location:	whf00bloc.in.oracle.com / scratch / obiee12c / Middleware / Oracle_Home / user_projects / domains / analyticsRes
i <sup>~</sup> =Security Realms ⊕-Interoperability ⊕-Diagnostics	d3 (open directory)      Back Next Finish Cancel	

7. On the next screen, you'll choose Install this deployment as an application and click **Next**.

ORACLE WebLogic Server Ad	ministration Console 12c					
Change Center	🟦 Home Log Out Preferences 🐼 Record Help					
View changes and restarts	Home >Summary of Deployments >Summary of Services >Summary of Deployments					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant           Back         Next         Finish         Cancel					
Release Configuration	Choose installation type and scope Select if the deployment should be installed as an application or library. Also decide the scope of this deployment.					
Domain Structure bi Domain Partitions Denvironment	The application and its components will be targeted to the same locations. This is the most common usage. Install this deployment as an application					
	Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications. Install this deployment as a library					
⊕-Diagnostics	Select a scope in which you want to install the deployment. Scope: Global					
	Back Next Finish Cancel					

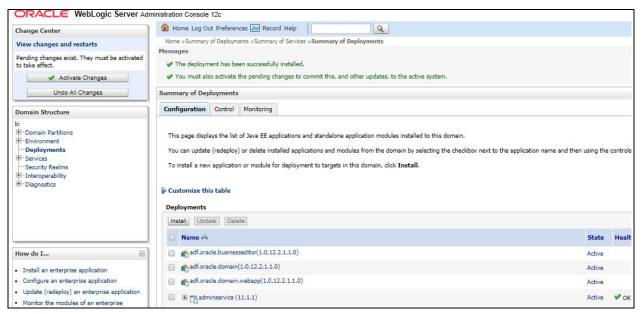
8. On the next screen, click bi\_cluster, and then select 'All servers in the cluster' radio button.

ORACLE WebLogic Server Ad	ministration Console 12c				
Change Center	Home Log Out Preferences 🔤 Record Help				
View changes and restarts	Home >Summary of Deployments >Summary of Services >Summary of Deployments				
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant           Back         Next         Finish         Cancel				
Lock & Edit Release Configuration	Select deployment targets Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targ				
Domain Structure					
bi	Available targets for d3 :				
Deployments	Servers				
	AdminServer				
Diagnostics	Clusters				
	<pre> bi_cluster</pre>				
How do I 🗉	Virtual Hosts				
<ul> <li>Start and stop a deployed enterprise application</li> </ul>	bi_internal_virtualhost1				
Configure an enterprise application					
Create a deployment plan	Back Next Finish Cancel				

9. On the next screen, select "I will make the deployment accessible from the following location" and click **Finish**.

ORACLE WebLogic Server Adn	ninistration Console 12c						
Change Center	🙆 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of Deployments >Summary of Services >Summary of Deployments						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant						
Look & Edit Release Configuration	Back         Next         Finish         Cancel           Optional Settings						
Domain Structure	* Indicates required fields						
bi B-Domain Partitions	- General						
Environment     Deployments	What do you want to name this deployment?						
Services     Security Realms     Thereoperability	*Name: d3						
Diagnostics	- Security						
	What security model do you want to use with this application?						
	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.						
How do I	O Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.						
<ul> <li>Start and stop a deployed enterprise application</li> </ul>	O Advanced: Use a custom model that you have configured on the realm's configuration page.						
Configure an enterprise application	- Source Accessibility						
Create a deployment plan	How should the source files be made accessible?						
<ul> <li>Target an enterprise application to a server instance</li> </ul>	Use the defaults defined by the deployment's targets						
Test the modules in an enterprise application	Recommended selection.						
System Status	Copy this application onto every target for me						
Health of Running Servers as of 5:32 AM	During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.						
Failed (0) Critical (0)	<ul> <li>I will make the deployment accessible from the following location</li> </ul>						
Оverloaded (0) Warning (0) ОК (2)	Location: /scratch/obiee12c/Middleware/Oracle_Home/user_projects/dc						

10. On this screen, you will have to click on Activate Changes.



11. After activating the changes, the application will now be in a **Prepared** state, as in the screen shot below. Click on **Control** tab. The screen displays all the installed applications. You will have to stop the application by checking the check box next to it and selecting **Force Stop Now** from the **Stop** menu.

ORACLE WebLogic Server Admi	nistration Console 12c											
Change Center	🟦 Home Log Out Preferences 🔤 Record Help											
View changes and restarts	Home >Summary of Deployments >Summary of Services >Summary of Deployments											
Click the Lock & Edit button to modify, add or	Summary of Deployments											
delete items in this domain.	Configuration Control Monitoring											
Release Configuration												
	This page displays the list of Java EE applications and standalone application modules installed to this domain.											
Domain Structure	You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then	using the cont	rols on this p	age.								
Domain Partitions	21001000 1001002 0 0 00001											
Deployments Deployments Deployments Deployments Deployments	Customize this table											
-Services	Deployments											
- Security Realms Start > Stor >												
⊕-Interoperability ⊕-Diagnostics	Nam When work completes	State	Health	Туре								
	■      the bi Stop, but continue servicing administration requests	Active	🖋 ОК	Enterprise Application								
	□	Active	🖋 ОК	Enterprise Application								
	■ ⊞ bimad (11.1.1)	Active	🖋 ОК	Enterprise Application								
How do I	🗎 🗄 bipublisher (11.1.1)	Active	🖋 ОК	Enterprise Application								
Configure an enterprise application	E bisearch	Active	🖋 ок	Enterprise Application								
Start applications and modules	E bitech-analysis-application	Active	🖋 ОК	Enterprise Application								
Stop applications and modules	□	Active	🖋 ок	Enterprise Application								
<ul> <li>View the modules of an enterprise application</li> <li>Monitor the modules of an enterprise</li> </ul>	coherence-transaction-rar	Active	🖋 ОК	Resource Adapter								
application	<ul> <li>✓ ± d3</li> </ul>	Prepared	🖋 ОК	Web Application								

12. You can start the application by checking the check box next to it and selecting **Servicing all requests** from the **Start** menu.

ORACLE WebLogic Server Adm	ninistratio	n Console	e 12c						
Change Center	🙆 Ho	ome Log O	out Prefere	ences 🔤 Re	erd Help				
View changes and restarts	Home >Summary of Deployments >Summary of Services >Summary of Deployments								
Click the Lock & Edit button to modify, add or	Summary of Deployments								
delete items in this domain. Lock & Edit	Config	guration	Control	Monitoring					
Release Configuration This page displays the list of Java EE applications and standalone application modules installed to this domain.									
Domain Structure bi ➡ -Domain Partitions ➡ Environment + -Deployments ➡ -Services - Security Realms	Cust	tomize thi	is table	plications and	modules from the domain by selecting the checkbox next to the application	in name and then using the o	Controis on unis		
⊕Interoperability ⊕Diagnostics		rvicing all re	and the second second	ation request		State	Health		
	-		entserver (:			Active	🖋 ок		
		⊕ bidatas	setsvc			Active	🖋 ок		
		🕀 bimad	(11.1.1)			Active	🖋 ок		
How do I		🕀 bipubli	isher (11.1.	.1)		Active	🖋 ок		
Configure an enterprise application		□ 🕑 bisearch							
Start applications and modules		E bitech-	-analysis-ap	pplication		Active	🖋 ок		
Stop applications and modules		E biwsse	oa (12.1.3)			Active	🖋 ОК		
<ul> <li>View the modules of an enterprise application</li> <li>Monitor the modules of an enterprise</li> </ul>		coherence-transaction-rar							
application		⊞ d3				Prepar	ed 🖋 OK		

13. The application will now change to an **Active** state and ready to use.

ORACLE WebLogic Server Ad	Iministrati	on Consol	le 12c							
Change Center	🙆 н	Home Log Out Preferences 🐼 Record Help								
View changes and restarts	Hom	Home >Summary of Deployments >Summary of Services >Summary of Deployments								
Click the Lock & Edit button to modify, add or	Sumn	Summary of Deployments								
delete items in this domain.	Conf	Configuration Control Monitoring								
Release Configuration	Thi	This page displays the list of Java EE applications and standalone application modules installed to this domain.								
Domain Structure	You	u can start	and stop ap	plications and	modules from the domain by selecting the checkbox next to the application name and then u	sing the co	ntrols on this			
bi ⊕-Domain Partitions ⊕-Environment Deployments		Customize this table								
Deployments Deployments										
Security Realms Interoperability	Start v Stop v									
⊕-Diagnostics		Name 🤄	~			State	Health			
		E bicon	itentserver (	(11.1.1)		Active	🖋 ок			
		🛨 bidat	asetsvc			Active	🖋 ок			
		🗄 bima	d (11.1.1)			Active	🖋 ок			
How do I		🛨 bipub	olisher (11.1	.1)		Active	🖋 ок			
Configure an enterprise application		🛨 bisea	irch			Active	🖋 ок			
Start applications and modules		🕀 bitecl	h-analysis-a	pplication		Active	🖋 ОК			
Stop applications and modules		🗄 biwss	soa (12.1.3)			Active	🖋 ок			
<ul> <li>View the modules of an enterprise application</li> <li>Monitor the modules of an enterprise</li> </ul>		coheren	ce-transacti	on-rar		Active	🖋 ок			
application		⊞ d3				Active	🖋 ок			

# Mapview Configuration for OBIEE 12C

This section provides information on prerequisites, creating the mapviewer mvdemo2 data source, configuration edits and server starting.

Note: This is just a sample configuration working on sample data provided by mvdemo2.

This section covers the following topics:

- Prerequisites
- Creating the Mapviewer mvdemo2 Data source
- Loading FSI\_LOCATION\_MAP\_COORD for viewing mvdemo2 Maps

#### Prerequisites

The mvdemo2 database dump can be imported only into an Oracle 12c database. If you have no other option than using a 11g version, contact OBIEE/Mapviewer Product Management.

#### Creating the Mapviewer mvdemo2 Data source

Ensure that you have a connection to 12c Oracle database from the machine where your OBIEE platform is installed.

Create a mvdemo2 schema within that database for holding the mvdemo2 spatial data.

To create mvdemo2 schema, perform the steps as explained in the following section.

#### Downloading the Mapviewer mvdemo Database Dump

To download the Mapviewer mvdemo2 Database Dump, follow these steps:

1. Download MVDEMO Sample Data Set from the following location:

http://www.oracle.com/technetwork/middleware/mapviewer/downloads/index.html

 Download and unzip the mvdemo\_naturalearth.zip file that contains an Oracle Database export file named: mvdemo naturalearth.dmp

#### Creating mvdemo2 User

To create a mvdemo2 user, follow these steps:

- 1. Start a SQL\*Plus session to the Oracle Database as a user with system or DBA privileges.
- 2. Run the following script:

```
create user mvdemo2 identified by mvdemo2 default tablespace users quota unlimited on
users;
grant "connect" to mvdemo2;
grant "resource" to mvdemo2;
```

3. Once the script is executed, verify whether you can connect to the newly created user.

**Note:** The mvdemo2 user creation script defaults with the password mvdemo2 (same as user name) within the script. It is recommended that you keep this value unchanged to simplify configuration.

#### Importing the database dmp file

4. Import the Oracle Database export file - mvdemo\_naturalearth.dmp into the mvdemo2 schema using the following import command, from the command line (Command Prompt in Windows):

c:\> imp mvdemo2/mvdemo2@connectString file=mvdemo\_naturalearth.dmp FULL=Y

5. ConnectString is the connection string to your Oracle Database 12c where the user mvdemo2 was created in the step mentioned earlier. Wait for the import process to complete, once successfully completed, login on your DB as mvdemo2/mvdemo2 and validate that you can view the schema tables and some data.

#### **Inserting Extra Spatial Metadata**

6. Start a SQL\*Plus session to the Oracle Database and connect as user mvdemo2.

For example: c: \>sqlplus mvdemo2/mvdemo2@connectString

7. Run the following script:

```
insert into user_sdo_styles select * from styles;
insert into user_sdo_themes select * from themes;
insert into user_sdo_maps select * from basemaps;
insert into user_sdo_cached_maps select * from tilelayers;
commit;
```

#### MapViewerConfig.xml Edits

1. Open the Mapviewer console using the following URL:

http://<ip address>:<port>/mapviewer

- 2. Click Admin.
- 3. Login with the username/password that you provided while installing the product.
- 4. Click Configuration. This opens the mapViewerConfig.xml on your setup.
- 5. In the section named Predefined Data Source, add the following data source entry:

Replace the IP address, SID, and port to the correct values of the database where the mvdemo2 schema has been created in the above steps.

```
<map_data_source name="mvdemo2"
jdbc_host="10.229.147.238" (use your db ip)
jdbc_sid="orcl" (use your db sid)
jdbc_port="1521" (use your db port)
jdbc_user="mvdemo2"
jdbc_password="!mvdemo2" (use your selected password if different from OOB)
jdbc_mode="thin"
number_of_mappers="3"
allow_jdbc_theme_based_foi="false"
editable="false"
/>
```

**Note:** Ensure that all tags have been closed correctly and also the above data source is not within the comments section (ensure that it is outside the comments section which is represented by <!-- .. -->).

6. Below the **Predefined Data Source**, under the catalog data source section, replace OracleMaps with mvdemo2 as shown below:

```
<map_data_source name="mvdemo2"
catalog_dir="../catalogs/oraclemaps_pub"
number_of_mappers="8"
allow_jdbc_theme_based_foi="false"
editable="false"
/>
```

7. In the section named Map Data Server configs, replace OracleMaps with mvdemo2 as follows:

```
<mds_config>
   <data source name="mvdemo2">
           <allow predefined themes>true</allow predefined themes>
           <allow dynamic themes>true</allow dynamic themes>
       </data_source>
   <!--
       <data source name="mvdemo">
           <allow_predefined_themes>true</allow_predefined_themes>
           <allow dynamic themes>true</allow dynamic themes>
   <allow>
           <theme>THEME DEMO ST*</theme>
            <theme>theme_demo_cities</theme>
          </allow>
   <deny>
             <theme>M ADMIN AREA1 S01</theme>
          </deny>
   </data_source>
     -->
   </mds config>
8. Click Save and Restart button at the bottom of the file.
```

- 9. Once configuration.xml file is restarted, click Data Sources.
- 10. Verify whether you can view mvdemo2 as an entry in data sources.
- 11. Login to Analytic screen > Administration.
- 12. Click Manage map Data.
- 13. Click Import Layer and then choose World\_Countries.
- 14. Choose Preview MAP as ORACLE\_MAPS.
- 15. Same for World\_States\_Provinces.
- 16. Choose Preview MAP as ORACLE\_MAPS.

#### 17. Select Background Maps.

- 18. Use import Background maps and chosen ORACLE\_MAPS.
- 19. Edit the same, add layer **World\_Countries** and then **World\_States\_Provinces**. While choosing, chose the location **ORACLE\_MAPS** for higher Zoom value.
- 20. Select the zoom level for country 0 and for country 2...15.
- 21. Navigate back to Layers tab.
- 22. Edit World\_Countries (select Name as the Layer Key) and World\_States\_Provinces (select State Province Name as the Layer Key) by adding BI Key Columns :

#### For Country:

- a. Choose Institutional Performance > Geography > Country Description.
- b. Choose Institutional Performance > Branch > Branch Country Description.
- c. Choose Retail Performance > Geography > Country Description.

#### For State:

- a. Choose Institutional Performance > Geography > State Description.
- b. Choose Institutional Performance > Branch > Branch State Description.
- c. Choose Retail Performance > Geography > State Description.

## Loading FSI\_LOCATION\_MAP\_COORD for viewing mvdemo2 Maps

For mvdemo2 Maps to work, it requires the location data in our atomic schema to be in sync with the map Metadata in mvdemo2 schema. This is achieved through a new table <code>FSI\_LOCATION\_MAP\_COORD</code>, the load process of which is described as follows.

Populate FSI\_LOCATION\_MAP\_COORD based on DIM\_LOCATION data itself, but description and codes should come from tables OBIEE\_COUNTRY, OBIEE\_STATE, OBIEE\_CITY (from the DB schema configured for Maps, 'mvdemo2', for example in this case) respectively for Country, State and City, and n\_location\_skey should be the corresponding n location skey from DIM LOCATION.

For Instance, let us consider the following data from DIM\_LOCATION.

N_LOCATION_SKEY	1
V_LOCATION_CODE	HAW
V_COUNTRY_CODE	USA
V_COUNTRY_DESC	United States
V_STATE_CODE	н
V_STATE_DESC	Hawaii
V_CITY_CODE	CITI1
V_CITY_DESC	Honolulu
V_ZIP_CODE	96813

Now, to populate the following columns in FSI\_LOCATION\_MAP\_COORD:

n_location_skey =	1
v_country_code = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_code_map = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_desc = OBIEE_COUNTRY.NAME	United States

#### Mapview Configuration for OBIEE 12C Chapter 8—RPD/ Catalog Deployment, D3 and Map Configuration for OBIEE12c

v_state_code = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_code_map = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_desc = OBIEE_STATE.STATE_NAME	HAWAII
v_city_code = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_code_map = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_desc = OBIEE_CITY.CITY_NAME	HONOLULU
v_zip_code =	96813

# CHAPTER 9 FAQs and Error Dictionary

This section of the document consists of resolution to the frequently asked questions and error codes noticed during OFSAAI installation.

- Frequently Asked Questions
- Forms Framework FAQs
- Error Dictionary

OFSAAI installer performs all the prerequisite validation check during installation. Any errors encountered in the process is displayed with an appropriate Error Code. You can see the Error Dictionary to find the exact cause and resolution to rectify the error.

# Frequently Asked Questions

You can refer to the Frequently Asked Questions which has been developed with the interest to help you resolve some of the OFSAAI Installation and configuration issues. This intends to share the knowledge of problem resolution to a few of the known issues. This is not an official support document and just attempts to share the knowledge of problem resolution to a few of the known issues.

This section includes the following topics:

- OFSAAI FAQs
- Application Pack 8.0.5.0.0 FAQs

## **OFSAAI FAQs**

What are the different components that get installed during OFSAAI?

The different components of OFSAAI are illustrated in Figure 1-2, "Components of OFSAAI".

### What are the different modes of OFSAAI installation?

OFSAAI can be installed in two modes, Silent Mode, and GUI mode.

### Can the OFSAA Infrastructure components be installed on multi-tier?

No. OFSAA Infrastructure components (ficapp, ficweb, ficdb) cannot be installed on multi-tier. By default, they will be installed on single-tier. However, OFSAA Infrastructure can be deployed within the n-Tier architecture where the Database, Web Server and Web Application Server is installed on separate tiers.

Is JDK (Java Development Kit) required during installation of OFSAA? Can it be uninstalled after OFSAA installation?

JDK is not required during installation of OFSAA and only a run time is needed for details. Refer to Hardware and Software Requirements, Java Runtime Environment section.

### Is JRE required during installation of OFSAA? Can it be uninstalled after OFSAAI installation?

Only JRE (Java Runtime Environment) is required during installation of OFSAA and cannot be uninstalled as the JRE is used by the OFSAA system to work.

### How do I know what is the Operating system, web servers and other software versions that OFSAA supports?

Refer to OFSAA Technology Stack Matrices.

### What are the different files required to install OFSAAI?

To install OFSAAI, the following files are required:

- setup.sh.
- envCheck.sh
- preinstallcheck.sh
- VerInfo.txt
- OFSAAInfrastructure.bin
- validatedXMLinputs.jar
- MyResources\_en\_US.properties
- log4j.xml
- OFSAAI\_PostInstallConfig.xml
- OFSAAI\_InstallConfig.xml

- privileges\_config\_user.sql
- privileges\_atomic\_user.sql
- XML\_Utility.jar

What should I do if I get the following error message during installation, "Execute Permission denied"?

Please check whether all the files provided for OFSAAI installation has execute permissions.

To give execute permissions, navigate to the path OFSAAI\_80000 and execute the command:

chmod 755

### "Graphical installers are not."

If error resembles "Graphical installers are not supported by the VM. The console mode will be used instead..." then check whether any of the X-windows software has been installed.

Example: Hummingbird Exceed is started and configured to Graphical mode installation.

Note: Type 'xclock' from prompt and this should display clock in graphical mode.

"No Java virtual machine could be..."

If the error message reads "No Java virtual machine could be found from your PATH environment variable. You must install a VM prior to running this program", then

- Check whether "java path" is set in PATH variable. See the Table 3-1, "Prerequisite Information" section in this document.
- Check whether sufficient temporary space is available.
- Ensure that the movement of OFSAAI Installer text files to the target system is done in the Text mode so that setup.sh file does not contain control line feed characters (^M).

What should I do if I get the following error message during installation, "OracleDriver Files Not Found, Please Choose the Right Path To Continue"?

Check whether the provided path for Oracle Driver files is correct and whether the user has permissions to access the files.

What should I do if I get the following error message during installation, "User must have CREATE TABLE, CREATE VIEW, CREATE TRIGGER, CREATE INDEX, CREATE SEQUENCE, CREATE PROCEDURE" even though the oracle schema user created has the mentioned privileges?

OFSAAI installer validates the database details provided during installation, so ensure:

- Whether the oracle schema user has the required set of privileges for successful installation.
- Whether the oracle schema user has been created with quota privileges on tablespace to create database objects.

See the Table 3-1, " Prerequisite Information" section in this document.

#### Installation of OFSAAI was completed successfully! What next?

Post the successful completion of OFSAAI installation, one has to perform the Post Installation steps. See Chapter 5, "Post Installation Configuration".

What is to be done when OFSAAI Installation is unsuccessful?

OFSAAI installer generates log file OFSAAInfrastructure\_Install.log in the Infrastructure Installation Directory. There is also another log file created in the path configured in Log4j.xml. The logs of any of these reported, Warnings/Non Fatal Errors/Fatal Errors/Exceptions should be brought to the notice of the OFSAAI Customer Support. It is recommended not to proceed, until the reported problems are adequately addressed.

### How do I completely uninstall OFSAAI?

OFSAAI can be completely uninstalled by performing the steps provided in Uninstalling OFSAA Installation in the OFS AAAI Installation and Configuration Guide Release 8.0.5.0.0.

### Can OFSAAI config and atomic schemas be on different databases?

OFSAAI requires both config and atomic schemas to be present on the same database instance.

### How to grant privileges if a new information domain is created?

If you are creating a new information domain, provide a set of privileges (database permissions) to the new Atomic schema.

- Log into the database as **sys** and connect as **sysdba** user.
- Execute the file privileges config user.sql available under *\$FIC\_HOME* directory
- Enter the database schema for which you want to grant privileges.

### When should I run the MLS utility?

See the Multiple Language Support (MLS) Utility section in OFSAAI Administration Guide available on OHC.

### Does OFSAAI support Oracle Linux versions other than 5.5?

OFSAAI supports the Oracle Linux versions from 5.5 up to 5.10 and also from 6.0 and above.

What should I do if I get the following error message on the UNIX System terminal while executing ./setup.sh, "Insert New Media. Please insert Disk1 or type its location"?

1.Login as root user on the Unix machine where OFSAAI is getting installed.

23.Navigate to the path /etc/security/.

24.Edit the file limits.conf to add/edit a row for the UNIX user installing OFSAA:

<Unix User> soft nofile 9216

25.After saving the changes, log in as UNIX user with which OFSAAI is getting installed and execute the command:

ulimit -n

The command should return the value 9216.

### How does one verify if the system environment is ready for OFSAAI installation?

To verify the system environment meets the minimum requirements for the installation, a Pre-Install Check utility is available within the Install Kit archive file. This utility can also be obtained separately by contacting Oracle Support.

See Verifying System Environment section for additional information.

How do I know if the installation is completed successfully?

The OFSAA Infrastructure installation performs a post install health check automatically on successful installation of the product. To rerun the post install verification at a later time, perform the following steps:

1.Navigate to the path \$FIC\_HOME (Product Installation Directory).

26.Execute the command:

./piverify.sh

What should one do if the installation in GUI mode is not invoked?

There are set of configuration steps required to be performed during the installation in GUI mode. Verify whether the steps mentioned under Configuration for GUI Mode Installation section are done correctly.

What should one do if there are any exceptions or errors in installation and how to proceed?

1.Please backup the installation logs.

27.Share the backup logs with Oracle support.

What should I do if I get the following error message during OFSAAI installation on Solaris 11 system?

### "Error: OFSAAI-1108

ORA-00604: error occurred at recursive SQL level 1

ORA-01882: timezone region not found"

Or

### "Time zone cannot be set as null or 'localtime' "

This happens if the time zone is not set, that is NULL or it is set as 'localtime'. Set the environment variable TZ to a valid time zone region in the .profile file. For example:

TZ=Asia/Calcutta export TZ

What should I do if the installation process is abruptly terminated or aborted?

If the installation is abruptly terminated, then the installation process will be incomplete. To recover from this, follow the below steps:

1. Drop the DB objects in the config schema created by OFSAAI installation.

- 28.Open the .profile file and remove the entries made by the OFSAAI installation which are made between the comment statements, #Beginning of entries by OFSAA Infrastructure installation and #End of entries by OFSAA Infrastructure installation.
- 29.Delete the OFSAA install directory created by the OFSAAI installer.

30.Perform the OFSAAI installation again.

Does OFSAA support any other web server types, other than the ones stated in tech matrix and installation guide?

No, all the supported softwares and versions are stated in the OFSAA Technology Stack Matrices.

What should one do if the database connection from connection pool throws an error

"java.sql.SQLRecoverableException: IO Error: Connection reset"?

This happens while running several database intensive tasks in parallel. To correct this error, add the line securerandom.source=file:/dev/./urandom in the java.security configuration file available in *\$JAVA\_HOME/jre/lib/security/* path.

Note: This needs to be configured on all the machines or VMs where the OFSAAI components are installed.

If the issue is not resolved even with the above settings, check the MTU (Maximum Transmission Unit) settings on the Linux box. For details on MTU settings and updating them, contact your system Administrator.

What should I do when I get syntax errors/file not found error messages while invoking setup.sh file from my install archive?

This could mostly happen:

- When installer was not unzipped correctly or corrupted during unzip.
- setup.sh file which resides within the install archive was not transferred in ASCII or text mode, which could have corrupted the file.

To correct this, follow the steps:

1.Copy the installer (in BINARY mode) to the system on which the OFSAA Infrastructure components will be installed.

31.Unzip the installer using the command:

unzip <OFSAAI\_Installer>.zip

32.The corrupted setup.sh file would have introduced certain ^M characters into the file. You can remove ^M characters from setup.sh file by following the below steps:

- Login to the server where the installer is copied.
- Navigate to the directory OFSAAI\_80000.
- Open the setup.sh file in the vi editor using the command: vi setup.sh.
- ◆ Inside vi editor in Esc mode, type: %s/^M//g

Note: To enter ^M, hold the CTRL key then press V and M in succession.

♦ Save the setup.sh file by typing: wq!

Does OFSAA support Oracle DB 11g Standard edition?

The OCI client and the jdbc driver does not change depending on whether it is a standard or enterprise edition. So, OFSAAI will work with standard edition as well.

We do not recommend standard edition because it will not scale and does not support partition pack, database security vault, or advanced analytics.

What should I do if I get the following error message while executing ./reveleusstartup.sh file on the UNIX System terminal "./reveleusstartup.sh: /java: Execute permission denied"?

- Ensure JAVA\_BIN environment variable path is set on the "UNIX user" terminal from where the reveleusstartup.sh file is invoked.
- Ensure the .profile where the environment/ path settings are made has been executed successfully.

What happens when the OFSAAI Application Server does not proceed even after providing the system password?

Ensure that, the System Password provided when prompted should match with the "Oracle Configuration password" provided during installation. Also check whether the connection to the "configuration schema" can be established through sqlplus.

Although the OFSAAI installation has completed successfully, when OFSAAI servers are started, and the application URL is accessed, it gives an error message "the page cannot be found or displayed" or "Could not retrieve list of languages from Server. Please contact the system administrator". What should one do?

Ensure OFSAAI servers have been started and are running successfully. On the server start up parameters options, see the Starting Infrastructure Services section.

For more details on the issue, refer on to the Revappserver log in *\$FIC\_APP\_HOME/common/FICServer/logs* directory or the Web Server log files.

*Is it necessary to provide the specified grants to the Oracle schema user before installation? If yes, can it be revoked after completion of installation?* 

The "Oracle schema" user requires the necessary grants specified before, during, and after the installation process. Grants provided should never be revoked as the application makes use of these grants all the time.

### Can we have distributed OFSAAI Application Server for load balancing?

OFSAAI Application server can be scaled out/distributed across different JVM's (machines) based on the various services and Information Domains, in other words, Load balancing could be achieved with distribution of services.

Why do we need Ftpshare? Why is it needed on all the layers? Can we have ftpshare on another machine other than the machines where OFSAAI is installed?

Ftpshare is a Metadata Repository directory. All the Metadata related files used in Infrastructure are stored in the ftpshare directory. The ftpshare contains folders for each Information Domain, with each Information Domain folders holding Erwin, log, and scripts folder. The transfer of data among the Web, Application, and Database servers in Infrastructure takes place through FTP/SFTP.

You need to configure FTP/SFTP and enable communication between the servers by providing App server's FTP/SFTP credentials to the Web server and DB server users.

Yes, we can have ftpshare on another machine other than the machines where OFSAAI is installed.

### Is it mandatory to provide the ftp/sftp password?

Yes, OFSAAI needs credentials of the user which has complete permissions on ftpshare directory, and should be able to independently login to the UNIX server.

#### What are the permissions required for ftpshare and when should I give them?

It is recommended to provide permissions on ftpshare in case of installations done across different machines or VMs (multi-tier installation).

In case of single tier installation, 770 permissions can be provided if the UNIX users of OFSAAI and web server belong to the same UNIX group.

And on any new file that is created in the 'ftpshare' folder of any installation layer should be granted specific/explicit permission.

Port Change utility could be used to have the Port number modified, which are currently being used by the Infrastructure application. For more information, see Configure Infrastructure Ports section.

### Are there any in-built system administration users within OFSAAI Application?

The three in-built system administration users are provided to configure and setup OFSAAI.

- SYSADMN
- SYSAUTH
- GUEST

### Does OFSAAI Application support both FTP and SFTP?

OFSAAI supports both FTP and SFTP configuration.

### Is it necessary to enable the FTP/SFTP services to use the OFSAAI?

Yes, enabling of FTP/SFTP services and its ports is a prerequisite step towards using the OFSAAI.

### OFSAAI Configuration: Unable to save the server details?

Ensure the input User ID, Password, and Share Name are correct.

- Ensure FTP/SFTP services are enabled.
- Have a test FTP/SFTP connection made and confirm if they are successful.

What should I do if I get the following message while creating Information Domain, "Please create a database and then create the information domain"?

Information Domain is mapped to only one Database; and thus before the creation of Information Domain, at least one database details would need to exist.

What should I do if I get the following message during startup of back-end engine message server, "ConnectToDatabase: FatalError, could not connect to the DB server"?

- Verify whether connection to the "configuration schema" can be established through sqlplus.
- Verify "configuration schema" password is modified post installation.
- Ensure oracle database alias name created for oracle instance and oracle service name are same.
- On a multi tier Installation mode, ensure TNSNAME and SID are the same in both the Application and Database Layers.

# What should I do if I get the following message during the startup of back-end engine message server, "Fatal Error, failed to get user ID from LibSmsConnect"?

Ensure Reveleus.sec file exist under the *\$FIC\_HOME/conf* directory where the Database components are installed.

### Does OFSAAI Application support LDAP authentication?

OFSAAI supports LDAP configuration and authentication.

### Does OFSAAI support multiple languages?

Yes, OFSAAI supports multiple languages.

### Does OFSAAI provide any data back-up features?

OFSAAI does not have built-in back up facility. External Storage Infrastructure is recommended for back-up.

### What kind of security features does the OFSAAI provides?

OFSAAI provides security at:

- Segment Level Users can access only the segment they are mapped to.
- Application Level Users can perform an operation only if mapped to appropriate role and functions.

### Does OFSAAI have the ability to enforce periodic password change?

OFSAAI provides configurable parameters to define number of days after which the user password would expire and then the user is forced to change the password after expiration period.

### What is the password policy followed in OFSAAI?

OFSAAI enforces a minimum password length with a combination of Upper and Lower case characters and alpha-numeric strings.

### Which version of Erwin Data Modeller does OFSAAI support?

The references to Data Modeler ERwin versions 70, 71, 72, 90, 92 and 96 are provided for the AAI framework to support these for backward compatibility. However, the data model-slices shipped with OFS AAAI 8.0.5.0.0 application packs are compatible with Erwin versions 9.5, 9.6, and 9.7.

### Does OFSAAI provide the mechanism to upload Business Data model?

OFSAAI provides two mechanisms for business data model upload:

- Easy to use GUI based Model upload mechanism to upload the Business Data Model through Unified Metadata Manager --> Import Model.
- OFSAAI also provides a model upload utility "upload.sh" for uploading the business data model through the command line parameter by executing this shell script file under the path <FIC\_HOME>/ficapp/common/FICServer/bin.

See the section Run Model Upload Utility of the Oracle Financial Services Analytical Applications Infrastructure User Guide on OHC for details.

### How do I apply incremental change to the existing model when the Business Data model undergoes a change?

Modified data model can be uploaded into the system and OFSAAI has the ability to compare the changes within the data model with respect to the one already present in the system and enables propagation of incremental changes in a consistent manner.

### What are the different types of uploading a business data Model?

OFSAAI supports uploading of business data model from client desktop and also by picking up the data model from the server location.

### Can the OFSAAI "Configuration Schema" password be modified post installation?

The OFSAAI "configuration schema" password can be modified post installation. OFSAAI application stores the password in the database and few configuration files, thus any changes to the "configuration schema" password would necessitate updating in these. Contact OFSAAI support for more details.

### Can the OFSAAI "Atomic Schema" password be modified?

The OFSAAI "Atomic Schema" password can be modified. OFSAAI application stores the atomic schema password in the database and few configuration files, thus any change to the atomic schema password would necessitate updating the password.

To change the Atomic Schema password, follow the steps:

- Login to OFSAA.
- Navigate to System Configuration > Database Details window. Select the appropriate connection, provide the modified password and save.
- Navigate to Unified Metadata Manager > Technical Metadata > Data Integrator > Define Sources window. Update the appropriate Source details.

If you are using Apache Tomcat as Web server:

- Update the <Context> -> Resource tag details in server.xml file from the \$CATALINA\_HOME/conf folder. (In case of Tomcat only Atomic <Resource> will exist).
- Login to the WebSphere Administration Console from the left side menu.

- Navigate to Resources >JDBC >Data Sources. A list of data sources will be populated on the right side.
- Select the appropriate Data Source and edit the connection details. (In this case, both Config and Atomic data sources need to be modified).

If you are using WebLogic as Web server:

- Login to the WebLogic Administration Console from the left side menu.
- Under Domain Structure list box, expand the appropriate Domain and navigate to Services > JDBC >Data Sources.
   A list of data sources will be populated on the right side.
- Select the appropriate Data Source and edit the connection details. (In this case, both Config and Atomic data sources need to be modified).

Restart the OFSAAI services

**Note:** If the modified passwords are not updated, OFSAAI logs displays the message ORA-28000: the account is locked.

### Does the upload of Business Data model depend on Java Memory?

Business data model upload through OFSAAI depends on the Java memory settings on the client and server machines. Java memory setting varies with the data model size and the available RAM. Contact OFSAAI support for more details.

Why do the Business Metadata Management screens (Business Processors screen) in User Interface, takes longer time to load than other screens?

The Log file in DynamicServices.xml which resides in *\$FIC\_HOME/conf* is continuously being updated/refreshed to cache Metadata. This can be observed when you are starting reveleusstartup.sh and if any of the log file (Ex: SMSService.log) in DynamicServices.xml is being continuously refreshed for longer time.

By default, the Metadata Log file cache size is set to 1000. If the log is being updated beyond this limit, retrospectively the preceding entries are overwritten. For example, the 1001th entry is overwritten by deleting the first entry. This results in the application screen taking a longer time to load.

Increase the cache size limit in Dynamicservices.xml located at *<FIC\_HOME>/conf*, depending on the currently logged count for the specific Metadata.

Generate the Log report by executing the below query in config schema.

```
select count(1), t.metadata_name, m.dsn_id
from metadata_master m, metadata_type_master t
where m.metadata_type = t.metadata_type
group by t.metadata name, m.dsn id
```

- The above query returns a list of codes with their respective Metadata count. You can see "metadata\_type\_master" table to identify the Metadata name.
- View the log report to identify the Metadata which is being updated/refreshed beyond the specified cache size limit. Accordingly increase the cache size limit in Dynamicservices.xml depending on the currently logged count for the specific Metadata.

For example, if the "MEASURE\_CACHE\_SIZE" is set to 1000 and total measure reported in log is 1022, increase the limit to 2000 (approximately).

■ Restart Reveleus/OFSAAI servers (Web and APP) and check the issue.

What should I do if I get OutOfMemoryError while deploying EAR file in WebSphere application server?

The Java memory needs to be increased in ejbdeploy.sh file which is present under <WebSphere Install directory>/AppServer/deploytool/itp. For example,

\$JAVA\_CMD \
-Xbootclasspath/a:\$ejbd\_bootpath \
Xms256m -Xmx1024m \

What configurations should I ensure if my data model size is greater than 2GB?

In order to upload data model of size greater than 2GB in OFSAAI Unified Metadata Manager- Import Model, you need to configure the required model size in struts.xml file available in the path \$FIC WEB HOME/webroot/WEB-INF/classes.

Note: The size requirements have to be always specified in bytes.

For example, if you need to configure for model size of 2.5GB, then you can approximately set the max size to 3GB (3221225472 bytes) as indicated below, in order to avoid size constraints during model upload.

<constant name="struts.multipart.maxSize" value="3221225472"/>

After configuring struts.xml file, generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, see Creating EAR/WAR File and Deploying EAR/WAR File sections.

What should I do if my Hierarchy filter is not reflecting correctly after I make changes to the underlying Hierarchy?

In some cases, the Hierarchy Filters do not save the edits correctly if the underlying Hierarchy has been changed. This can occur in hierarchy maintenance, where you have moved a member to another hierarchy branch, and that member was explicitly selected in the Filter and is now a child of a node which is already selected in the Filter.

See the Support Note for the workaround.

How do you turn off unused information domains (infodoms) from cache?

Follow the below steps to turn off unused infodoms from cache:

Navigate to \$FIC\_HOME/conf in the APP layer of your OFSAAI installation.

- In the DynamicServices.xml file, identify the section for <Service code="20">.
- Modify the value of parameter CACHE\_ON\_STARTUP to 0 (default is 1).
- Repeat the same in the WEB layer too. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, see Configuring Web Application Servers.
- Restart the OFSAAI Services (APP and WEB). For more information, see Start/Stop OFSAA Infrastructure Services.

**Note:** This setting will cache the Infodom Metadata only for the infodoms that get accessed upon user login. Infodoms which do not get accessed, will not be cached.

### Sample code is pasted below:

```
<SERVICE CODE="20"
CLASS="com.iflex.fic.metadata.services.MetadataServiceProvider" NAME="BMD"
SERVERID="DEFAULT" PATH=" " LOGGERNAME="UMMLOGGER" LOGGERLEVEL="10">
<PARAMETERS>
<PARAMETER NAME="CACHE_ON_STARTUP" VALUE="0" />
```

```
<PARAMETER NAME="BACKUP_XML" VALUE="1" />
PARAMETER NAME="MAX BACKUP XML" VALUE="2" />
PARAMETER NAME="PC NONBI BI SWITCH" VALUE="2048" />
<parameter NAME="HIERARCHY_NODE_LIMIT" VALUE="2000" />
PARAMETER NAME="ALIAS_CACHE_SIZE" VALUE="1000" />
PARAMETER NAME="DATASET CACHE SIZE" VALUE="2000" />
<parameter Name="measure cache size" value="2000" />
<PARAMETER NAME="HIERARCHY CACHE SIZE" VALUE="2000" />
<PARAMETER NAME="DIMENSION CACHE SIZE" VALUE="2000" />
<PARAMETER NAME="HIERARCHYATTRIBUTE CACHE SIZE" VALUE="1000" />
<parameter name="cube cache size" value="1000" />
<parameter NAME="RDM CACHE SIZE" VALUE="1000" />
center name="businessprocessor cache size" value="2000" />
cache_size value="1000" />
<PARAMETER NAME="LOG GET METADATA" VALUE="false" />
PARAMETER NAME="METADATA PARALLEL CACHING" VALUE="0" />
</PARAMETERS>
</SERVICE>
```

Can I install an Application Pack on an existing Atomic schema/ Information Domain created manually?

No, you cannot install an Application Pack on existing Atomic schema/Information Domain created manually. Application Packs can be installed only on Atomic Schemas/Information Domain created using schema creator utility and/ or the Application Pack installer.

What should I do if I get the following exception while trying to view the model outputs in Model Outputs screen, "Exception ->Local Path/STAGE/Output file name (No such file or directory)"?

Ensure you have created a folder "STAGE" under the path mentioned as "Local Path" in the web server details screen. This folder needs to be created under the local path on every node, in case of web application server clustering.

What should I do if I get the following exception during OFSAA services startup, "Exception in thread "main" java.lang.UnsatisfiedLinkError: net (Not a directory)"?

Ensure the JRE referred in .profile is not a symbolic link. Correct the path reference to point to a physical JRE installed.

What is the optimized memory settings required for "New" model upload?

The following table lists the optimized memory settings required for "New" model upload.

Upload Options	Size of Data Model XML File	X_ARGS_APP ENV Variable in OFSAAI APP Layer
Pick from Server	106 MB	"-Xms1024m -Xmx1024m
	36 MB	"-Xms2048m -Xmx2048m
	815 MB	"-Xms4096m -Xmx4096m
	1243 MB	"-Xms6144m -Xmx6144m
Model Upload Utility	106 MB	"-Xms1024m -Xmx1024m"-Xms2048m -Xmx2048m
	336 MB	"-Xms4096m -Xmx4096m
	815 MB	"-Xms4096m -Xmx4096m
	1243 MB	"-Xms6144m -Xmx6144m
Save New Erwin File In Server	106 MB	"-Xms1024m -Xmx1024m
	336 MB	"-Xms2048m -Xmx2048m
		"-Xms4096m -Xmx4096m
		"-Xms6144m -Xmx6144m

What is the resolution if I get the error - ORA 01792 maximum number of columns in a table or view is 1000 during T2T execution?

You should apply the below patch set from Oracle. Applicable only for 12c.

https://support.oracle.com/epmos/faces/DocumentDisplay?id=1937782.1

I did not enable OFS Inline Processing Engine Application license during the installation. However, I have enabled it post installation, using the Manage OFSAA Product License(s) in the Admin UI. Are there any other additional configurations that I need to do?

Yes. Follow the instructions explained in the OFS Inline Processing Engine Configuration Guide available on OHC.

I get an error when I try to build an Oracle OLAP cube. What should I do?

Execute the below grant on the appropriate ATOMIC schema

grant olap\_user to &database\_username

How do you turn off unused Information Domains (Infodoms) from caching?

Follow these steps to turn off unused infodoms from caching:

- Navigate to *\$FIC\_HOME/conf* in the APP layer of your OFSAAI installation.
- In the DynamicServices.xml file, identify the section for <Service code="20">.
- Modify the value of parameter CACHE ON STARTUP to 0 (default is 1).
- Repeat the same in the WEB layer too. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, see Creating EAR/WAR File and Deploying EAR/WAR File sections.
- Restart the OFSAAI Services (APP and WEB). For more information, see the Start/Stop OFSAA Infrastructure Services section.

**Note:** This setting will cache the Infodom Metadata only for the infodoms that get accessed upon user login. Infodoms which do not get accessed, will not be cached.

#### Sample code is pasted below:

```
<SERVICE CODE="20"
CLASS="com.iflex.fic.metadata.services.MetadataServiceProvider" NAME="BMD"
SERVERID="DEFAULT" PATH=" " LOGGERNAME="UMMLOGGER" LOGGERLEVEL="10">
<PARAMETERS>
PARAMETER NAME="CACHE ON STARTUP" VALUE="0" />
<PARAMETER NAME="BACKUP XML" VALUE="1" />
<parameter NAME="MAX_BACKUP_XML" VALUE="2" />
<PARAMETER NAME="PC NONBI BI SWITCH" VALUE="2048" />
<PARAMETER NAME="HIERARCHY NODE LIMIT" VALUE="2000" />
<parameter name="alias cache size" value="1000" />
rameter name="dataset cache size" value="2000" />
<parameter Name="measure cache size" value="2000" />
rameter name="hierarchy cache size" value="2000" />
<parameter name="dimension cache size" value="2000" />
<parameter NAME="HIERARCHYATTRIBUTE CACHE SIZE" VALUE="1000" />
PARAMETER NAME="CUBE CACHE SIZE" VALUE="1000" />
<parameter NAME="RDM CACHE SIZE" VALUE="1000" />
center name="businessprocessor cache size" value="2000" />
<PARAMETER NAME="DERIVEDENTITY_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="LOG GET METADATA" VALUE="false" />
<PARAMETER NAME="METADATA PARALLEL CACHING" VALUE="0" />
</PARAMETERS>
</SERVICE>
```

"While creating an Excel Mapping, after specifying the excel worksheet, the target table, and mapping each column in the worksheet to a target table, I click SAVE and nothing happens. But when I click CANCEL, a message pops up informing me that all changes will be discarded", what is to be done.

Check if the excel mapping creation is done using I.E 8 with JRE 1.4 plug in enabled on machine. If so, upgrade the JRE plug in to 1.7+.

Can Multiple OFSAA Infrastructure instances share the same config schema?

No, only one OFSAA environment can be installed using one config schema.

Can Atomic schema be shared?

Yes, it can be shared between two OFSAA instances. While setting a firewall, which ports should be opened for communication between the Web Server (Apache HTTP Server/ Oracle HTTP Server/ IBM HTTP Server) and the Web Application Server (WebSphere/ WebLogic/ Tomcat) for OFSAAI to operate properly? The OFSAA Servlet port which is same as Web server port should be open. Also the web application port should be open.

*Can I modify the NLS\_LENGTH\_SEMANTICS to BYTE from CHAR for the Database where older versions of OFSAA is Installed?* 

Yes, NLS\_LENGTH\_SEMANTICS can be modified to BYTE from CHAR if you are not intending to use multi language support.

Can I install already installed application in a different infodom?

No, it is not possible to install the same application in two different infodoms.

How can I configure the OFSAA application for High Availability?

OFSAA can have active-passive high availability. For more details, see the <u>Configuration for High Availability-Best</u> Practices Guide.

I want to configure OFSAA for High Availability that is WebLogic cluster on which OFSAA.ear is deployed and cluster OFSAAI processes (such as Reveleus etc) are running. Is this a supported configuration?

High Availability is available for WebLogic cluster and DB level as active-active, but is not available on the application side. OFSAA can have active-passive high availability. For more details, see Configuring OFSAA in Clustered Environment Guide.

During OFSAA installation should I provide web application server's IP /Hostname and port or web server's IP/Hostname and port, if the Apache HTTP Server/ Oracle HTTP Server/ IBM HTTP Server are configured?

If the web server is configured, you should enter the Web Server IP Address/Hostname and Port details during OFSAA installation. Here the Servlet port should be same as the Web Server port.

If Web Server is not configured, the Web Application Server's IP Address/ Hostname and Port is required during the installation process. Here the Servlet port should be same as the Web application Server port.

Is "ReveleusAdminConsoleAgent" applicable for OFSAAI 8.0.5.0.0 and higher versions?

No, ReveleusAdminConsoleAgent is not applicable starting OFSAAI 7.3.3.0.0. There is a change in the way agentservers are managed through AGENTSTARTUP.SH & AGENTSHUTDOWN.SH.

What should I do when the message server process does not open and I get the following error message, "CI18NProvider::CI18NProvider, Error, unable to connect to the config database"?

This error is displayed due to the following reasons:

- The Config Schema password is already expired.
- If the config schema password is going to expire soon and the message like "ORA-28002: the password will expire within 6 days" displays while connecting to config schema through sqlplus.
- The Config schema password is Modified.

To resolve the error, re-set the config schema password to the old password. Else, if the config schema password is modified to something else then follow the below steps:

- Delete the \$FIC HOME/conf/Reveleus.SEC file.
- Shutdown the OFSAAI App service: cd \$FIC\_APP\_HOME/common/FICServer/bin ./stopofsaai.sh
- Shutdown the OFSAAI App service: cd \$FIC\_APP\_HOME/common/FICServer/bin ./stopofsaai.sh
- Start the Infrastructure Server in foreground directly on the server or through XWindows software using the command: ./startofsaai.sh

- Enter System Password.
- Enter the new Config schema password. The service starts and initializes if it is able to successfully connect to the DB and generates the Reveleus.SEC file.
- Post successful startup of the service, if required, the Infrastructure server may be shut down and restarted in the background using nohup mode.

### What is the mechanism of Log File sizing and backup?

OFSAAI Log files created under \$FIC\_APP\_HOME/common/FICServer/logs & COFSAAI\_DEPLOYED\_AREA>/<CONTEXT.war>/logs is configurable in RevLog4jConfig.xml.

The default size of the log files (MaxFileSize) is set to max 5000kb & number of max backup log files (MaxBackupIndex) retained is set to 5, both of which are configurable. Increasing these parameters to a higher value should depend on the server HW configurations and may reduce the performance.

To configure the Logs file size on OFSAA Application server, follow these steps:

- Navigate to \$FIC\_HOME/conf where OFSAA is installed.
- Edit the following parameters in the file RevLog4jConfig.xml

<param name="file" : Enter the path where the Logs are to be generated.</pre>

<param name="MaxFileSize" : Provide the required file size.</pre>

<param name="MaxBackupIndex" : Provide the required number of backup files to be created.</pre>

### Example:

```
<appender name="REVSERVERAPPENDER" class="org.apache.log4j.RollingFileAppender">
<param name="file" value="$FIC_HOME/ficapp/common/FICServer/logs/RevAppserver.log"/>
<param name="Append" value="true" />
<param name="MaxFileSize" value="5000kb" />
<param name="MaxBackupIndex" value="5" />
<layout class="org.apache.log4j.PatternLayout">
<param name="ConversionPattern" value="[REVELEUSLOG] %m%n"/>
</layout>
</appender>
```

To configure the Deployed area logs file, follow these steps:

- Navigate to <EAR/WAR Deploy area>/conf folder.
- Repeat step 2 from the above section.

### Can we modify the Log file path?

Yes, Log file path is configurable, it can be configured in RevLog4jConfig.xml.default log file path (file) is set by the installer. This can be configured to another path.

Can I point the environment with HTTP enabled to HTTPS after installation and vice versa?

Follow these steps:

- Create SSL related certificates and import to respective servers.
- Enable SSL on a desired Port (example 9443) on your existing and already deployed web application servers.
- Replace the protocol as https and new ssl port (FIC\_SERVLET\_PORT) configured and in all the URLs specified on below files:

\$FIC\_HOME/ficapp/common/FICServer/conf/FICWeb.cfg and \$FIC\_HOME/ficweb/webroot/conf/FICWeb.cfg \$FIC\_HOME/ficapp/icc/conf/WSMREService.properties \$FIC\_HOME/ficweb/webroot/conf/ModelExecution.properties \$FIC\_HOME/ficdb/conf/MDBPublishExecution.properties \$FIC\_HOME/ficdb/conf/ObjAppMap.properties \$FIC\_HOME/dtility/Migration/conf/WSMigration.properties \$FIC\_HOME/utility/WSExecution/conf/WSExecution.properties \$FIC\_HOME/utility/WSExecution/conf/WSExecution.properties \$FIC\_HOME/EXEWebService/WebSphere/ROOT/WEB-INF/wsdl/EXEWebServiceImpl.wsdl \$FIC\_HOME/EXEWebService/Tomcat/ROOT/WEB-INF/wsdl/EXEWebServiceImpl.wsdl \$FIC\_HOME/EXEWebService/weblogic/ROOT/WEB-INF/wsdl/EXEWebServiceImpl.wsdl

### Replace XML attribute/Node values as specified on below files:

\$FIC HOME/ficweb/webroot/WEB-INF/web.xml

FIC WEBSERVER PORT=9443

FIC\_WEBPROTOCOL=https

\$FIC\_HOME/conf/LookUpServices.xml and \$FIC\_HOME/ficweb/webroot/conf/LookUpServices.xml PORT="9443" PROTOCOL="https:"

Login to config schema and execute below SQL command to replace protocol and SSL port.

SQL> update configuration cn set cn.paramvalue='9443' where cn.paramname='SERVLET ENGINE PORT';

SQL> update configuration cn set cn.paramvalue=replace(cn.paramvalue,'http:','https:') where cn.paramname='FormsManagerCacheReload';

SQL> update web\_server\_info ws set ws.servletport='9443',ws.servletprotocol='https';

### Create EAR/WAR file and Re-Deploy.

What should I do if the sliced data model upload takes a long time to complete?

If the Metadata cache size is set to a lower value than the actual count of each Metadata type (hierarchy, dataset, dimension etc), then it gets into performance degrade issues. We have to increase the cache size for each Metadata type according to the count in the environment.

Following are the parameters in DynamicServices.xml to be configured depends on the Metadata count in your environment.

```
<PARAMETER NAME="HIERARCHY_NODE_LIMIT" VALUE="2000"/>
<PARAMETER NAME="ALIAS_CACHE_SIZE" VALUE="1000"/>
<PARAMETER NAME="DATASET_CACHE_SIZE" VALUE="2000"/>
<PARAMETER NAME="MEASURE_CACHE_SIZE" VALUE="3000"/>
<PARAMETER NAME="HIERARCHY_CACHE_SIZE" VALUE="2000"/>
<PARAMETER NAME="DIMENSION_CACHE_SIZE" VALUE="2000"/>
<PARAMETER NAME="CUBE_CACHE_SIZE" VALUE="1000"/>
<PARAMETER NAME="BUSINESSPROCESSOR_CACHE_SIZE" VALUE="2000"/>
<PARAMETER NAME="DERIVEDENTITY_CACHE_SIZE" VALUE="1000"/>
```

Metadata count can be derived based on the following queries:

```
select count(1) from metadata master where metadata version=0 --- for all metadata
select count(1) from metadata master where metadata version=0 and metadata type=1 ---
for measure
select count(1) from metadata master where metadata version=0 and metadata type=2 ---
for Dimension
select count(1) from metadata master where metadata version=0 and metadata type=3 ---
for HCY
select count(1) from metadata master where metadata version=0 and metadata type=4 ---
for DATASET
select count(1) from metadata master where metadata version=0 and metadata type=59
--- for BP's
select count(1) from metadata master where metadata version=0 and metadata type=54
--- for Alias
select count(1) from metadata master where metadata version=0 and metadata type=5 ---
for CUBES
select count(1) from metadata_master where metadata_version=0 and metadata_type=856
--- for Derived Entity
```

For LDAP authentication, which server connects with the LDAP server, the Application server (where ofsaai is installed), or Web Application server (where EAR is deployed)?

For LDAP authentication, the Application server (ficapp) connects with the LDAP server.

The LDAP server in the setup listens on secure protocol ldaps (port 636). I have the root certificate of the LDAP server for SSL, and would like to know where to offload this certificate?

You need to import the certificate into the JDK/JVM used by Reveleus server in ficapp layer.

How to relocate FTPSHARE folder?

You can run the PortC.jar utility. For more details, refer Changing IP/ Host-name, Ports, Deployed Paths of the OFSAA Instance section in the OFSAAI Admin Guide available on OHC.

What should I do when an entity containing many attributes (>100 columns) is selected as Source entity and the Data Mapping (T2T definition) save operation takes longer than expected with the hourglass in the UI continuously rotating?

The workaround is:

- Locate the web server deployed area webroot/conf/excludeURLList.cfg file.
- Modify the following entries:

[SQLIA]./dataIntegrator/ to [ALL]./dataIntegrator/

[SQLIA]./ETLExtractionServlet to [ALL]./ETLExtractionServlet

- Save the changes and restart the web server.
- Re-save the definition.

### Application Pack 8.0.5.0.0 FAQs

### What is an Application pack?

An Application Pack is suite of products. For more information, see About Oracle Financial Services Advanced Analytical Applications (OFSAA) Application Packs.

Can I get a standalone installer for OFSAAI 8.0?

No. AAI is part of every application pack and installs automatically.

How does OFSAA 8.0 Application pack relate to OFSAA 7.x series?

8.0 is a new major release consolidating all products from OFSAA product suite.

Can existing OFSAA 7.x customers upgrade to OFSAA 8.0 Application Pack?

There is no upgrade path available. However, we will have migration kit / path for every product to 8.0 application pack. Further details will be available with Oracle Support.

Does OFSAA 8.0 Application pack UPGRADE's automatically existing environments?

No. Refer Point 5. OFSAA 8.0 application pack has to be installed in an new environment and subsequently migration path / migration kit needs to be run to migrate from 7.x to 8.0. Please note we will have migration path only from the previously released version of OFSAA products.

Where can I download OFSAA 8.0 Application Pack?

You can download the OFSAAI 8.0 Application Pack from Oracle Software Delivery Cloud (OSDC).

What are the minimum system and software requirements for OFSAA 8.0 Application Pack?

See the installation guide section Hardware and Software Requirements section.

Is my environment compatible with OFSAA 8.0 Application Pack?

Environment Check utility performs the task. It is part of install and can also be run separately.

### Does OFSAA 8.0 Application Pack is support all Operating systems?

LINUX, AIX, SOLARIS 10, 11. See the Technology Matrix for the technology matrix that OFSAA suite products are/ will be qualified on.

How can I install OFSAA 8.0 Application Pack?

See the Oracle Financial Services Advanced Analytical Infrastructure Installation and Configuration Guide published in OHC for the application pack installers.

Does this installation require any Third party Software?

Oracle Financial Services Advanced Analytical Infrastructure Installation And Configuration Guide published in OHC lists the third party software that needs to be installed.

What languages are supported during OFSAA 8.0 Application Pack installation?

US English is the language supported.

What mode of installations OFSAA Application Pack supports? [i.e., Silent, GUI]

OFSAA Application Packs supports both, GUI and Silent Mode.

Does OFSAA 8.0 Application Pack support Multi tier Installations?

OFSAA 8.0 does single tier installation. For more information see the OFSAAI FAQs section.

Does this Application Pack validate all Prerequisites required for this installation i.e., Memory, Disk Space etc.?

Yes. The prerequisite checks are done by the respective application pack installer.

What happens if it aborts during installation of any application with in Application pack?

You must restore the system and re-trigger the installation.

Does this Application pack 'Rolls Back' if any of application installation fails due to errors?

Rollback of installation is not supported.

Does the Application pack installs all applications bundled?

All application pack file system files are installed but there is an option to enable the licensed products.

### How can I re-install any of the Application Pack?

You can re-trigger if there is a failure.

### Does Application pack allow enabling / disabling any of the applications installed?

Yes. You cannot disable once the product is enabled in an environment.

# *I have installed one application in an Application pack and can I install any of new applications within the Application pack later point of time?*

No, installation of additional applications is not required. If you wish to add an application later, you can enable the application at that time.

### How many OFSAA Infrastructures can be installed in a single server?

There is no issue in installing separate OFSAAI installations, each with their own PFT/FTP installations and separate associated database instances and separate Web Server installations on the same server as long as adequate memory is allocated for each instance and as long as each OFSAAI installation is installed using a separate UNIX user and profile. Care should be taken if running multiple OFSAAI installations on a single server. Adequate memory will be required for each installation as several OFSAAI processes (model upload, DEFQ services, etc) take significant amounts of memory. So it depends on your server memory.

*Is it possible to Install OFSAA 8.0 Application pack on any one of the existing 'Infodom' where another OFSAA 8.0 application is installed?* 

Yes. However, the Behavioral Detection Application Pack and Compliance Regulatory Reporting Application Pack are the exceptions. They need to be installed in a different INFODOM.

Can I select an Infodom in Application pack during installation?

Yes. You can select or change the required infodom.

Can I install all Application Packs in a 'Single Infodom'?

Yes. But Behavioral Detection Application Pack and Compliance Regulatory Reporting Application Pack are the exceptions. They need to be installed in a different INFODOM.

*Is it possible to install applications on different Infodom within the Application pack? (That is if you want to install LRM & MR in two infodoms)* 

Applications within application pack have to be installed in the same information domain in the same environment.

### How many Infodoms can be created over a single OFSAA Infrastructure of 8.0.1.0.0?

You can install only one infodom during installation. But after installation, you can create multiple infodoms.

### Does 'Data Model' bundled is Application pack Specific or Specific to individual application?

A merged data model for all applications within the application pack is bundled and uploaded.

### Is it possible to install OFS Enterprise Modeling in later point of time?

OFS Enterprise Modeling is a separate product and can be enabled as an option later from any application pack that bundles Enterprise Modeling.

#### Does Application pack create sandbox automatically for the required applications?

Yes, Sandbox creation is part of application install process.

### Are upgrade Kits available for individual applications or the complete Application Pack?

Maintenance Level (ML) Release / Minor Release upgrades are available across all applications.

#### Can I upgrade AAI only?

Yes, you can upgrade AAI alone.

Can I upgrade one application within the Application Pack? (For example, I want to upgrade LRM in the Treasury Application pack, but not MR.)

No. Not possible Upgrade is applied across packs.

### Is it possible to uninstall any Application from the Application pack?

No, it is not possible to uninstall any Application from the Application Pack.

#### Can I uninstall entire Application Pack?

No, you cannot uninstall the Application Pack.

### Is it possible to uninstall only application and retain AAI in the installed environment?

No, you cannot uninstall only the application and retain AAI in the installed environment.

Can I uninstall entire Application Pack?

No, you cannot uninstall the Application Pack.

*Is it possible to uninstall only application and retain AAI in the installed environment?* 

No, you cannot uninstall only the application and retain AAI in the installed environment.

Does Application Pack contain all Language Packs supported?

Language Packs need to be installed on 8.0 application packs.

Can I install an Application Pack over another Application Pack (that is same infodom or different infodom)?

Yes, you can install an Application Pack over another Application Pack in the same information domain or different information domain. But Behavior Detection Application Pack and Compliance Regulatory Reporting Application Pack, Asset Liability Management Application Pack and Profitability Application Pack are the exceptions. They need to be installed in a different INFODOM.

Can I use an existing manually created schema as information domain for application pack installation?

No. Schemas required by OFSAA applications have to be created using Schema Creator Utility.

### Does OFSAA 8.0 support on WebLogic 10.3.6 with Oracle 12c?

Yes, OFSAA 8.0 will support on WebLogic 10.3.6 with Oracle 12c. WebLogic 10.3.6 supports oracle 12c with some additional configurations. See the link

http://docs.oracle.com/cd/E28280\_01/web.1111/e13737/ds\_12cdriver.htm#JDBCA655 for additional configurations.

What should I do if I get the following error message while running the schema creator utility, "HostName in input xml is not matching with the local hostname"?

One possible reason could be the machine is configured for zonal partitioning. Ensure all the known IP Addresses of the machine are present in the /etc/hosts file.

What are the Java versions supported in OFS ALM Application Pack version 8.0.5.0.0?

OFS ALM Application Pack supports 1.7.x and 1.8.x.

### Is this release of the OFS ALM Application Pack version 8.0.5.0.0 supported on Java 8?

Yes. To install this release of the OFS ALM Application Pack version 8.0.5.0.0 on Java 8. For more information, refer to specific notes mentioned in the sections Installer and Installation Prerequisites

Configurations supported for Java 8. Configuring the Schema Creator Utility, GUI Mode Installation, SILENT Mode Installation.

# Forms Framework FAQs

What should I do when I have large volume of data to be exported?

It is recommended to use BIP reports or OBIEE reports if you have to export large volume of data.

How do I export the columns added to the grid by Field Chooser option?

Perform Grid Export operation to export the columns added to the grid by Field Chooser option.

'Expand All/ Collapse All' button is not visible in the Hierarchy Browser window. What should I do?

Expand All/ Collapse All button is enabled only if the number of hierarchy nodes is less than 50. If it is more than that, it is considered as large hierarchy and the data will be fetched dynamically when you expand each node.

# **Error Dictionary**

This contents of this section has been created with the interest to help you resolve the installation issues if any. There is a compilation of all the possible errors that might arise during the installation process with the possible cause and the resolution to quickly fix the issue and proceed further with the installation.

This section includes the following topics:

- Accessing Error Dictionary
- Error Code Dictionary

## **Accessing Error Dictionary**

Instead of scrolling through the document to find the error code, you can use the pdf search functionality. In the "Find" dialog available in any of the Adobe Acrobat version that you are using to view the pdf document, follow the below instructions to quickly find the error resolution.

- 1. With the Installation pdf open, press Ctrl+F or select Edit > Find.
- 33. The Find dialog is displayed as indicated.
- 34. Enter the error code that is displayed on screen during Infrastructure installation.
- 35. Press Enter. The search results are displayed and highlighted as indicated below.

View the details of the issues, its cause, and resolution specific to the error code. Repeat the step to find an answer to any other errors that you notice during installation. If you are not able to resolve the issue even after following the steps provided in resolution, you can contact support.oracle.com along with log files and appropriate screen shots.

## **Error Code Dictionary**

Error Code	Cause	Resolution
OFSAAI-1001	Unix shell is not "korn" shell.	Change the shell type to "korn". Use chsh UNIX command to change SHELL type.
		Shell type can also be changed by specifying shell path for the Unix user in /etc/passwd file.
		Note: chsh command is not available in Solaris OS.
OFSAAI-1002	No proper arguments are available.	Provide proper arguments. Invoke Setup.sh using either SILENT or GUI mode.
		Example: ./Setup.sh SILENT or ./Setup.sh GUI
OFSAAI-1004	File .profile is not present in \$HOME.	Create .profile in \$HOME, i.e. in the home directory of user.
OFSAAI-1005	File OFSAAInfrastructure.bin is not present in current folder.	Copy OFSAAInfrastructure.bin into installation kit directory.
OFSAAI-1006	File CustReg.DAT is not present in current folder.	Copy CustReg.DAT into installation kit directory.
OFSAAI-1007	File OFSAAI_InstallConfig.xml is not present in current folder.	Copy OFSAAI_InstallConfig.xml into installation kit directory.
OFSAAI-1008	File validateXMLInputs.jar is not present in current folder.	Copy validateXMLInputs.jar into installation kit directory.
OFSAAI-1009	File log4j.xml is not present in current folder.	Copy log4j.xml into installation kit directory.
OFSAAI-1010	Unknown error occurred.	Make sure to provide proper argument (SILENT or GUI) to the Setup.sh file.
OFSAAI-1011	XML validation failed.	Check InfrastructurePreValidations.Log for more details.
OFSAAI-1012	Property file with locale name does not exist.	Copy MyResources_en_US.properties to the setup kit directory and keep en_US in LOCALE tag of OFSAAI_InstallConfig.xml.
OFSAAI-1013	File OFSAAI_InstallConfig.xml/OFSAAI_P ostInstallConfig.xml not found.	Copy OFSAAI_InstallConfig.xml/OFSAAI_PostInstallConfig. xml to the setup kit directory.
OFSAAI-1014	XML node value is blank.	Make sure all node values except SMTPSERVER, PROXYHOST, PROXYPORT, PROXYUSERNAME, PROXYPASSWORD, NONPROXYHOST, or RAC_URL are not blank.
OFSAAI-1015	XML is not well formed.	Execute the command dos2unix OFSAAI_InstallConfig.xml to convert plain text file from DOS/MAC format to UNIX format.
		OR
		Make sure that OFSAAI_InstallConfig.xml is valid. Try to open the file through Internet Explorer for a quick way to check validity. If it is not getting opened, create new OFSAAI_InstallConfig.xml using the XML_Utility.jar.

Error Code	Cause	Resolution
OFSAAI-1016	User installation directory contain blank spaces.	Provide an installation path that does not contain spaces. Check the tag USER_INSTALL_DIR in OFSAAI_InstallConfig.xml file. This path should not contain any spaces.
OFSAAI-1017	User installation directory is invalid.	Provide a valid installation path. Check if you are able to create the directory mentioned in USER_INSTALL_DIR tag value of OFSAAI_InstallConfig.xml file.

# **APPENDIX A**

# Installation of R and Oracle R Enterprise (ORE)

This is an optional step and required only if you intend to use Term Structure Parameter Estimation functionality under Rate Management - Interest Rates, for computing term structure parameters. Both Funds Transfer Pricing and Asset Liability Management applications require term structure parameters for all Monte Carlo engine based calculations (OAS, VaR and EaR).

Following are the prerequisites:

Install R and Oracle R Enterprise Server on the Oracle Database server. See

https://docs.oracle.com/cd/E57012\_01/doc.141/e57007.pdf

• ORE version supported - Oracle R Enterprise (Server) version 1.4.1

# Dependencies

R code of the application requires dependent packages to be installed before the Reporting Line Forecast batch is executed. Usage of the predictive model requires installation of packages - tseries, lattice, and R Oracle. Verify that lattice and R Oracle are compatible with each other.

Package installation instructions can be found at: http://cran.r-project.org/doc/manuals/r-release/R-admin.html#Installing-packages

# Configuration for Oracle R Enterprise

Grant the RQADMIN role to atomic schema.

You can grant the rqadmin role in SQL\*Plus by logging in to the database with DBA privileges and provide the following privilege to Atomic Schema:

RQADMIN **by executing the command:** GRANT RQADMIN TO < atomic schema>;

# Configuration for Oracle R distribution and Oracle R Enterprise (ORE)

This is an optional step. Skip and proceed with the next steps if OFS Enterprise Modeling Application with R scripting is not enabled during installation.

- 1. Install OFSAAIRunner Package. For more information, see Installing OFS AAAI Runner Package. If you have already installed OFSAAIRunner package (as part of a previous installation), uninstall it (For more information, see Uninstalling OFS AAAI Runner Package section), and reinstall the latest available OFSAAIRunner package.
- 2. Log in to the database with dba privileges and provide the following privilege to Configuration Schema:
  - RQADMIN by executing the command:

GRANT RQADMIN TO <config\_schema>;

3. Log in to the database with dba privileges and provide the following privileges to Atomic Schema:

- CREATE UNLIMITED TABLESPACE privilege by executing the command: GRANT CREATE UNLIMITED TABLESPACE TO <atomic schema>;
- CREATE MINING MODEL privilege (to execute the Data Mining models) by executing the command: GRANT CREATE MINING MODEL TO <atomic\_schema>;

## Installing OFS AAAI Runner Package

OFSAAIRunner is an R package built by the OFS Enterprise Modeling Application. It is a prerequisite for executing models developed using R scripts. This package helps in:

- Initializing inputs
- Mapping framework variables to R objects
- Configuring possible outputs of the script
- Storing results back to the Database

OFSAAIRunner package (OFSAAIRunner\_1.0.0.tar.gz) is available under \$FIC\_DB\_HOME/lib.

### Prerequisite

Oracle R & ORE should be installed on the Oracle Database server before installing OFSAAIRunner package.

Refer to the following instructions to install OFSAAIRunner package:

- 1. Log in to the OFSAA Server. Navigate to the folder \$FIC\_DB\_HOME/lib.
- 2. Copy the file OFSAAIRunner\_1.0.0.tar.gz in Binary mode to the Oracle Database Server.
- 3. Log in to the Oracle Database Server with the user using which Oracle Database Server installation is done.
- 4. Navigate to the directory where the file OFSAAIRunner\_1.0.0.tar.gz is copied.
- 5. Install the package by executing the command:

```
ORE CMD INSTALL OFSAAIRunner_1.0.0.tar.gz
Successful installation is indicated in the installation log as:
* DONE (OFSAAIRunner)
Making packages.html ... done
```

Note: The OFSAAIRunner package is installed in /usr/lib64/R/library.

6. Navigate to the directory \$ORACLE\_HOME/R/library and check whether OFSAAIRunner package is listed there by executing the command:

```
ls -l
```

## Uninstalling OFSAAIRunner Package

Refer to the following instructions to uninstall the OFSAAIRunner package:

- 1. Log in to the Oracle Database Server with the same username, using which Oracle Database Server installation is done.
- 2. Enter ORE in command prompt and execute the command:

#ORE

3. Enter the following command to save workspace image:

>remove.packages("OFSAAIRunner")

4. Enter y when prompted to save the workspace image.

q()

- 5. Navigate to the directory *\$ORACLE\_HOME/R/library* and verify the package is not listed there by executing the command:
- 6. Save workspace image? [y/n/c]: y

ls -l

## Configurations for ORE Execution

Follow this step:

1. Add a TNS entry in this names.ora file with this name same as that of value set for ORACLE\_SID in database server.

Note: For RAC database, follow the aforementioned configuration in all machines.

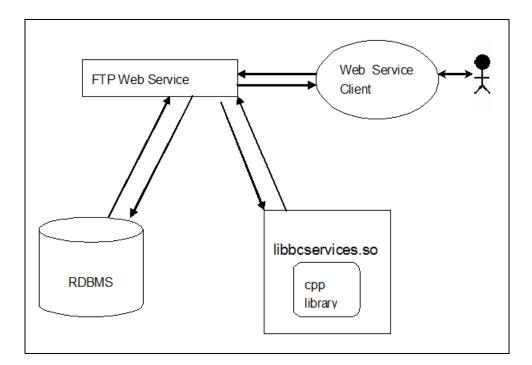
# APPENDIX B FTP Web Service Configuration

The following installation activity describes how to setup FTP web services to support the Breakage Charge Economic Loss calculation. The calculation logic is the same as the FTP Adjustment Rule Breakage Charge calculation. This FTP Economic Loss Web Service is now independent of EXEWebService. Note, other FTP web services are installed automatically and require no further setup.

# Approach

The FTP Web services are designed as a wrapper which will call the FTP Engine for the calculation of Economic Loss. The FTP Web Service is available in its own context and has a specific WSDL for that context.

# Architecture



## Prerequisites

- For WebLogic and WebSphere, Data source should be present with JNDI name as jdbc/FTPWS.
- For Tomcat a separate context entry should be present in server.xml file.

## Log4j configuration

log4j.properties file is already present inside WEB-INF/classed folder of the war file. Logs will be generated inside \$root\_directory\_of\_war/logs/webservice.log file.

## Setup Environment variable - ofsaaws.properties

ofsaaws.properties file is available in *WEB-INF/classes* folder. Specify the cpp\_component name. Place the component libbcservices.so under */ficdb/lib/SGBU*. Add the library location to LD LIBRARY PATH.

**Note:** If Web-services are deployed in an environment other than where OFSAA is deployed, then copy */ficdb/lib/libFSGBU* to web-services environment and set in LIBRARY path.

- cpp\_component= libbcservices.so(libbcservices.o) for AIX
- cpp\_component=bcservices for Solaris
- cpp\_component=bcservices for Linux

### Creating FTPWebServiceAXIS.war

1. Go to the server path in which the application is running.

For Example: \$FIC\_HOME/FTPWebService

2. Run "ant.sh" in this folder. FTPWebServiceAXIS.war will be created in the same folder.

## Deploying FTPWebServiceAXIS.war

### For Tomcat:

- 1. Copy the above WAR file to the webapps folder of apache tomcat directory.
- 2. Go to conf folder of apache tomcat and add a separate context entry in server.xml file with resource name as jdbc/FTPWS.

### Example:

```
<Context path="/FTPWebServiceAXIS" docBase="/<Tomcat_webapps> /FTPWebServiceAXIS"
debug="0" reloadable="false" crossContext="true">
        <Resource auth="Container"
        name="jdbc/FTPWS"
        type="javax.sql.DataSource
        driverClassName="oracle.jdbc.driver.OracleDriver
        username="username"
        password="password" url="jdbc:oracle:thin:@db-ip:dp-port:dbname"
        maxActive="100"
        maxIdle="30"
        maxWait="10000"
        removeAbandoned="true"
        removeAbandonedTimeout="60"
```

```
logAbandoned="true"/>
```

```
rogabandoned- true
```

```
</Context>
```

3. Restart the server.

### For Weblogic and WebSphere:

- 1. Deploy FTPWebServiceAXIS.war from admin console.
- 2. Create data source for database connection with JNDI name as *jdbc/FTPWS*.
- 3. WSDL is present at following URL.

http://ipaddress:port/FTPWebServiceAXIS/services/OFSAAFTPService?wsdl

### Additional Steps for Configuring the FTP Ad hoc Pricing Web Services

Ad hoc pricing web-services (getpricing) are deployed along with OFSAA FTP. Configuring these web services require some minor configuration after installation, steps are mentioned below:

- 1. Goto \$FIC\_HOME/ficweb/webroot/WEB-INF/classes.
- 2. Open of saaws.properties, replace <infodom name> and <userid>(with admin access) and save it.
- 3. Open ofsaawsClient.properties, give OFSAA URL.
- 4. Rebuild the war and deploy.

URL pattern for ad hoc web-services are:

http://<ip>:<port>/<context>/services/DailyQueriesService?wsdl

http://<ip>:<port>/<context>/services/ PricingService?wsdl

**Note:** See the *Oracle Financial Services Funds Transfer Pricing User Guide* for usage of the FTP Ad hoc Pricing Web Services.

# APPENDIX C Additional Configuration

The following topics provide detailed module specific post installation configurations.

This section includes the following topics:

- FTP/SFTP Configuration for File Transfer
- Configuration for Dimension and Hierarchy Management
- Configure Infrastructure Server Memory
- Internet Explorer Settings
- Retrieving Patch Information
- OLAP Data Server Configuration
- Changing IP/ Host name, Ports, Deployed Paths of the OFSAA Instance
- OFSAAI Setup Information Fetching Tool
- Encryption Changer
- Infrastructure LDAP Configuration
- Configure OFSAAI Web Services
- Deploy OFSAAI Web Services
- Configuration to Enable Parallel Execution of DML Statements
- Configure Message Details in Forms Designer
- Clearing Application Cache
- Configuring Password Changes
- Configuring Java Virtual Machine
- Configure Internal Service (Document Upload/ Download)

# FTP/SFTP Configuration for File Transfer

In OFSAA, certain modules require transfer of files from the web application server to the OFSAA server over SSH.

Follow these steps to ensure the OFSAA server recognizes the web application server during file transfers.

- 1. Login to the web application server.
- 2. Type sftp <user>@<OFSAA Server>
- 3. Specify Yes when prompted for permission.

Are you sure you want to continue connecting (Yes/No)?

- 4. This will add an entry into the "known\_hosts" file.
- 5. A confirmation message is displayed:

Permanently added <OFSAA Server> RSA) to the list of known hosts.

## **Configuration for Dimension and Hierarchy Management**

These configuration changes are applicable when Dimension Management features provided in OFSAAI are used. You can open AMHMConfig.properties file present in the *\$FIC\_WEB\_HOME/webroot/conf* directory to set the properties for the following:

This section includes the following topics:

- Configure Member Deletion
- Configure Attribute Default Date Format
- Configure Members Reverse Population
- Configure Hierarchy Reverse Population
- Configure Maximum Levels allowed in Hierarchies
- Configure Node Limit for a Hierarchy Tree

Configuration for Dimension and Hierarchy Management has to be done only after the application/solution installation is done. The properties specific to Information Domain are:

- \$INFODOM\$=<Name of the Information Domain>
- \$DIMENSION\_ID\$=<Dimension ID for which the property to be set>

## **Configure Member Deletion**

This property should be set to allow the user to delete the Members for the Dimension.

Value	Code	Example
# Member Deletion Configuration - VALUE- Y/N	MEMBER_DEL-\$INFODOM\$-\$DIMENSIO N_ID\$=\$VALUE\$	MEMBER_DEL-ORAFUSION-1=Y

#### **Configure Attribute Default Date Format**

This property should be set to display the Default Date Format for Date type Attribute in Attributes window.

Value	Code	Example
# Attribute Default Date Format -	ATTR_DEF_DATE_FORMAT-\$INFODOM\$=	ATTR_DEF_DATE_FORMAT-ORAFUSION=D
DB_DATE_FORMAT:DD-MON-YYYY	\$DB_DATE_FORMAT\$	D/MON/YYYY

#### **Configure Members Reverse Population**

This property should be set for reverse population of Members for the Dimensions in required Information Domains.

Value	Code	Example
# Members Reverse population - VALUE- Y/N	pers Reverse population - VALUE- IMENSION_ID\$=\$VALUE\$ MEMBER_REVERSE_POP-\$INFODOM\$-\$D Y	

#### **Configure Hierarchy Reverse Population**

This property should be set for reverse population of Hierarchies for the Dimensions in required Information Domains.

Value	Code	Example
#Hierarchy Reverse population - VALUE-	HIERARCHY_REVERSE_POP-\$INFODOM\$-	HIERARCHY_REVERSE_POP-ORAFUSION-1
Y/N	\$DIMENSION_ID\$=\$VALUE\$	=Y

#### **Configure Maximum Levels allowed in Hierarchies**

This property is required to set the maximum levels allowed to build the Hierarchies tree structure.

Value	Code	Example
#Hierarchy Maximum level allowed for the hierarchy in particular Information Domain - VALUE - Integer number	MAX_DEPTH-\$INFODOM\$=\$VALUE\$	MAX_DEPTH-FUSION=15

Hierarchies greater than 15 levels are not supported within OFSAA EPM applications (ALM, FTP, PFT, and HM). If the hierarchy data contains more than 15 levels, OFSA\_IDT\_ROLLUP will not be populated. The number of hierarchy levels allowed for OFSAA EPM key dimensions must be less than or equal to 15.

- If the Hierarchy Reverse Population setting is set to "Y" and more than 15 levels exist in the data, then the following alert is displayed "The number of levels exceeds the limit".
- If the maximum level allowed setting is set greater than 15 and Hierarchy Reverse Population is set to "Y", then following error is displayed *"Error occurred in Reverse Populating the hierarchy"*.

#### **Configure Node Limit for a Hierarchy Tree**

This property is required to display the Hierarchy as a small or a large hierarchy. If the tree node limit exceeds the set limit, the Hierarchies are treated as large Hierarchy.

Value	Code	Example
#Tree node limit for the hierarchy - Values is Integer number	TREE_NODE_LIMIT=\$VALUE\$	TREE_NODE_LIMIT=30

## Configure Infrastructure Server Memory

The memory settings for Infrastructure Application Server, Tomcat, WebSphere, and WebLogic can be edited for customizing memory settings and garbage collector settings depending on the available hardware configuration as explained below. These settings are base minimum and has to be incremented considering the deployment metrics into account. The increments are usually handled in multiples of 128mb for heap and 64mb for stack.

#### Infrastructure Application Server Memory Settings

You can configure the Infrastructure Application Memory settings as follows:

- 1. Locate .profile file.
- 2. Edit X\_ARGS field in this file for customizing memory settings and garbage collector settings depends on the hardware configuration.

This has a default value X\_ARGS="-Xms200m" X ARGS=" "\$X ARGS" \$DELIM -Xmx2048m"

**Note:** Modify X\_ARGS\_APP variable in the .profile file to customize Java Memory Settings for Model Upload based on the Data Model size.

For Run and Rule executions, the following value is recommended: X\_ARGS\_RNEXE="-Xms1g -Xmx1g XX:+UseAdaptiveSizePolicy -XX:MaxPermSize=512M -XX:+UseParallelOldGC -XX:+DisableExplicitGC"

X\_ARGS\_RLEXE="-Xms1g -Xmx1g -XX:+UseAdaptiveSizePolicy -XX:MaxPermSize=512M XX:+UseParallelOldGC -XX:+DisableExplicitGC"

## Internet Explorer Settings

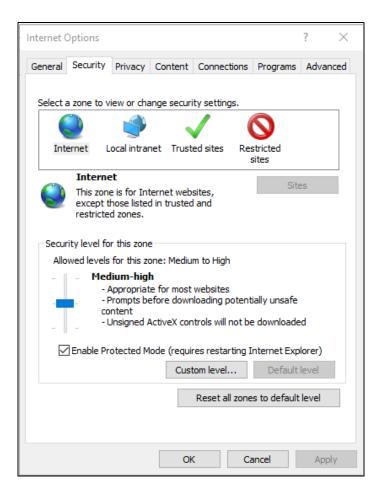
**Note:** OFSAAI supports only default zoom setting in Internet Explorer, that is, 100%. Cookies should be enabled.

The following browser settings have to be specified at every client machine prior to accessing the Infrastructure application.

- 1. Open Internet Explorer. Select Tools > Internet Options. The Internet Options window is displayed.
- 2. Click the Settings button. The Settings window is displayed.
- 3. Select the option Every time I Visit the webpage and click OK.

			Website Data Settings
Seneral Security Privacy C	ontent Connections Programs	s Advanced	Temporary Internet Files History Caches and databases
Home page To create home page	ge tabs, type each address on its	own line.	Internet Explorer stores copies of webpages, images, and media for faster viewing later.
aboutblank			Check for newer versions of stored pages:
			Every time I visit the webpage
		~	Every time I start Internet Explorer
Use curre	nt Use default Use	new tab	Automatically
	one netone Tage	Herr too	Never
<ul> <li>Start with tabs from the</li> <li>Start with home page</li> </ul>	last session		Disk space to use (8-1024/MB) 250
Tabs			Current location:
Change how webpages are	displayed in tabs.	Laps	C: Users  shwwaii \AppData \Local \Microsoft \Windows \Temporary Internet Files \
Browsing history			Move folder View objects View files
Delete temporary files, histo form information.	ory, cookies, saved passwords, a	nd web	OK Cano
Delete browsing history of	on exit		
	Delete	ettings	
Appearance			
Colors Langua	iges Fonts Acc	gssbility	
ſ	OK Cancel	Apply	

- 4. In the Internet Options window, select the **Security** tab and select the **Internet option** under **Select a zone to view or change the security** settings.
- 5. Click Default Level under Security level for this zone.



- 6. Click OK to save.
- 7. In the Internet Options window, select the Privacy tab and select the Turn on Pop-up Blocker option under Pop-up Blocker settings.

Internet Options ?	×
General Security Privacy Content Connections Programs Advan	red Pop-up Blocker Settings X
Settings       Sites       Advanced         Location	Exceptions Pop-ups are currently blocked. You can allow pop-ups from specific websites by adding the site to the list below. Address of website to allow: Add Allowed sites:
	Notifications and blocking level: Play a sound when a pop-up is blocked. Show Notification bar when a pop-up is blocked. Blocking level: Medium: Block most automatic pop-ups
OK Cancel Appl	Learn more about Pop-up Blocker     Close

- 8. Click Settings. The Pop-up Blocker Settings window is displayed.
- 9. Enter the URL of the OFSAA Application in the Address of Website to Allow: field.
- 10. Click Add. The OFSAA URL is displayed in the Allowed Sites section.
- 11. Click Close.
- 12. Click OK in the Internet Options window.

## **Retrieving Patch Information**

To identify the list of patches installed on your OFSAA setup, follow these steps:

- 1. Login to the OFSAA application as a user with Object AdminAdvanced Role.
- 2. Navigate to **Object Administration** tab, expand **Utilities** and click **Patch** Information.
- 3. The window displays the list of patches installed on the OFSAA setup across Applications/ Platform.

# **OLAP Data Server Configuration**

This section is applicable if you are using the OLAP feature of OFSAAI.

The following parameters must be set to ensure that the system limitations are not exceeded at any stage. The values for these OS parameters should be specified based on the expected load at each implementation site.

Example:

Process Memory Limit

Max Thread Stack Size

Max Number of Threads per Process

- Sort Buffer settings: This must be set at the Essbase application level appropriate to the anticipated load.
- Shutdown and Restart: During shutdown of OFSAAI Server that has an instance of Data Services that is communicating with an OLAP Data Server, it is imperative to ensure that the cleanup of the old instance is completed on the OLAP Data Server before restarting the OFSAAI Server. Pause for a period of time based on the load the system was subjected to, before restarting the Data Services subsystem.

## Changing IP/ Host name, Ports, Deployed Paths of the OFSAA Instance

For information on this section, see the OFS Analytical Applications Infrastructure Administration User Guide.

# **OFSAAI Setup Information Fetching Tool**

Executing the SetupInfo.jar file available in the *FIC\_HOME* path will help you retrieve the related information about the OFSAAI Set up such as Operating System Name and version, Database Type and Version, OFSAAI architecture, Log file locations and so on.

To execute SetupInfo.jar in console:

- 1. Navigate to the path \$FIC\_HOME.
- 2. Enter the command:

java -jar SetupInfo.jar

After execution, the output file location is displayed in the console.

# **Encryption Changer**

This utility helps you to regenerate the new AESCryptKey.ext file and encrypt all the encrypted values of the OFSAAI setup according to the new key.

To execute EncryptC.jar in console:

- 1. Navigate to the path \$FIC\_HOME.
- 2. Enter the command:

```
java -jar EncryptC.jar
```

A confirmation message is displayed after execution.

Once executed, you need to create and deploy the EAR / WAR file depending on the configured Web Application Server. For more information, see Creating and Deploying EAR/WAR File.

### Infrastructure LDAP Configuration

For more information on LDAP configuration, see the OFS Analytical Applications Infrastructure Administration User Guide.

### **Configure OFSAAI Web Services**

Web Services in OFSAAI is meant for exposing a web service to "asynchronously" or "synchronously" execute requested tasks offered by OFSAAI. The configuration steps given below are to be done only if you are using the Web Services feature of OFSAAI.

#### Configure DynamicWSConfig.xml File

For each third party web service that needs to be accessed using the OFSAAI Web services framework and the operations to be invoked, corresponding entries are to be made in the DynamicWSConfig.xml template file.

The variable <WebServer> denotes any one of the application server, i.e. WebSphere, WebLogic, or Tomcat.

The DynamicWSConfig.xml file will be available in the *<OFSAAI Installation Directory/EXEWebService/ <WebServer/ROOT/conf* directory. This file can be placed in any directory that is accessible by the application and this location must be specified in the web.xml file, as WSCONFIGFILE parameter.

The DynamicWSConfig.xml template file will be in <*WebServer Deployment Path*>/ *EXEWebService.ear/EXEWebService.war/conf* directory.

#### This template is given below:

```
<XML>
   <WEBSERVICES>
   <WEBSERVICE CODE="$CODE"
   ENDPOINT="$ENDPOINT" TARGETNAMESPACE="$TARGETNAMESPACE"
   XMLNS XSD="$XMLNS XSD" ENCODINGSTYLE="$ENCODINGSTYLE"
   SERVICENAME="$SERVICENAME" PORTTYPENAME="$PORTTYPENAME"
   SESSION MAINTAIN PROPERTY="$SESSION MAINTAIN PROPERTY"
   USERNAME="$USERNAME"
   PASSWORD="$PASSWORD" STYLE="$WEBSERVICESTYLE"
   STUBIMPLEMENTATION="$STUBIMPLEMENTATION">
   <OPERATION CODE="$CODE"
   NAME="$NAME"
   SOAPACTION="$SOAPACTION"
   STYLE="$STYLE"
   PACKAGENAME="$PACKAGENAME">
   <INPUT ORDER="$ORDER"
   PARAMNAME="$PARAMNAME"
   ARGTYPE="$ARGTYPE"
```

```
CLASSNAME="$CLASSNAME"/>
<OUTPUT PARAMNAME="$PARAMNAME"
RETURNTYPE="$RETURNTYPE"
CLASSNAME="$CLASSNAME"/>
</OPERATION>
</WEBSERVICE>
</WEBSERVICES>
```

The DynamicWSConfig.xml has the placeholders as tabulated below. These have to be updated depending on the web service chosen and the mode of accessing it. For each Web service to be accessed, the entire web service tag in the DynamicWSConfig.xml file must be repeated. The placeholders tabulated below should be set in accordance to the parameters published in the third party wsdl files (web-services) to be accessed. The stub class specified must implement the "com.iflex.Oracle Reveleus.execution.webservice.EXEWebIF" interface.

Placeholder	Description
\$CODE	Unique number within the xml file and cannot be 999 or 0.
\$ENDPOINT	soap: address location in the wsdl: service name tag of the wsdl file.
\$TARGETNAMESPACE	The attribute value for the targetNamespace of the wsdl: definitions tag.
\$XMLNS_XSD	The attribute value for the xmlns:s of the wsdl:definitions tag
\$ENCODINGSTYLE	The attribute value for the xmlns:soapenc of the wsdl:definitions tag.
\$SERVICENAME	Name of the service found under the wsdl:service name tag of the wsdl file.
\$PORTTYPENAME	wsdl port type name as mentioned in the wsdl file.
\$SESSION_MAINTAIN_PROPERTY	This could be given as "" also.
\$USERNAME	User name to access the web services. Enter "" if no user name is required.
\$PASSWORD	Password to access the web services. Enter "" if no password is required.
\$WEBSERVICESTYLE	This can take either "rpc" in case of DII mode of invoking web services or "stub" in case of static mode. This is a mandatory parameter.
\$STUBIMPLEMENTATION	Fully qualified class name (package name.classname).

#### Attributes for WEBSERVICE tag

#### Attributes for OPERATION tag

Ensure that the "operation tag attributes" are repeated for each of the operation tags.

Placeholder	Description
\$CODE	Should be unique within the Web service tag.
\$NAME	The name of the Function that is to be called by the wsdl file.
\$SOAPACTION	The URL for the Operation to access. This is associated with the Operation tag of the wsdl file.
\$STYLE	This can take "rpc" if the web services invoking is in DII mode or "stub" if it is in static mode. This is a mandatory parameter.
\$PACKAGENAME	Represents the JAXB package of input object.

#### Attributes for INPUT tag

Placeholder	Description
\$ORDER	The sequential number of the INPUT tag. Should start from 0. This is in line with the input order of the arguments that the API accepts which is called by this operation.
\$PARAMNAME	Input parameter name to be called by the wsdl file.
\$ARGTYPE	Input Parameter Data Type. If the input argument type is complex object, specify \$ARGTYPE as "xmlstring".
\$CLASSNAME	Represents class name of input object parameter.

#### Attributes for OUTPUT tag

Placeholder	Description
\$PARAMNAME	Output parameter name to be returned by the web service.
\$RETURNTYPE	Output parameter Data Type. If the web service response is a complex object, then specify \$RETURNTYPE as "object".
\$CLASSNAME	Represents class name of output object parameter.

#### web.xml Entries

1. This step is optional and required only if the web application server used is Tomcat. In case of any other application server, skip and proceed with next step.

Navigate to *\$FIC\_HOME/webroot/WEB-INF/* and edit the web.xml file. Set parameter value DOCSERVICEAPP to EXEWebServiceAXIS.

2. Navigate to <*OFSAAI Installation Directory*>/*EXEWebService*/<*WebServer*>/*ROOT*/*WEB-INF*/ and edit the web.xml file as explained below.

**Note:** In case of Java 7 when WebLogic is used as web application server replace following line of *<OFSAAI Installation Directory>/EXEWebService/Weblogic/ROOT/WEB-INF/web.xml* file that is

```
<?xml version='1.0' encoding='UTF-8'?>
<web-app id="WebApp_ID" version="3.0"
xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" metadata-complete="true">
```

#### with

```
<?xml version='1.0' encoding='UTF-8'?>
<web-app xmlns="http://java.sun.com/xml/ns/j2ee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

#### **Entry for WSConfig File**

The WSCONFIG file (DynamicWSConfig.xml) is available in the *<WebServer Deployment Path>/ EXEWebService.ear/EXEWebService.war/conf* directory. This file can be placed in any directory that is accessible by the application.

The path where the WSCONFIG file is placed must be specified in place of \$WSCONFIGFILELOCATION\$ in the below block of text in web.xml.

<context-param>
 <description>WebServices Configuration File</description>
 <param-name>WSCONFIGFILE</param-name>
 <param-value>\$WSCONFIGFILELOCATION\$</param-value>
 <!--Specify the Location of DynamicWSConFig.xml-->
</context-param>

#### **Proxy Settings**

Replace the following < param-value > given in bold in the following block of text in web.xml file, with appropriate values.

If no values are required, leave the <param-value> blank.

```
<context-param>
   <description>http Proxy Host</description>
   <param-name>http.proxyHost</param-name>
   <param-value>$PROXYHOST$</param-value>
   <!-- Specify the IP address or hostname of the http proxy server-->
</context-param>
<context-param>
   <description>http Proxy Port</description>
   <param-name>http.proxyPort</param-name>
   <param-value>$PROXYPORT$</param-value>
   <!--Port Number for the Proxy Server-->
</context-param>
<context-param>
   <description>http proxy UserName</description>
   <param-name>http.proxyUserName</param-name>
   <param-value>$PROXYUSERNAME$</param-value>
   <!-- User ID To get authenticated by proxy server-->
</context-param>
<context-param>
   <description>http proxy Password</description>
   <param-name>http.proxyPassword</param-name>
   <param-value>$PROXYPASSWORD$</param-value>
   <!-- User Password To get authenticated by proxy server-->
</context-param>
```

<context-param>

<description>http non-ProxyHosts</description>

```
<param-name>http.nonProxyHosts</param-name>
```

<param-value>\$NONPROXYHOST\$</param-value>

```
<!--Hosts for which the proxy settings should get by-passed (Note: Separate them by "|" symbol) -->
```

```
</context-param>
```

#### **OFSAAI Home Entry**

This entry should point to the Application layer / Web layer of the OFSAAI installation and should be accessible.

```
Replace $FIC_HOME$ in the following block of text in web.xml with <WebServer Deployment
Path>/EXEWebService.ear/EXEWebService.war.
```

```
<context-param>
<description>OFSAAI Web Home</description>
<param-name>FIC_HOME</param-name>
<param-value>$FIC_HOME$</param-value>
<!--OFSAAI Installation Folder-->
</context-param>
<description>OFSAAI Web Home</description>
<param-name>FIC_PHYSICAL_HOME</param-name>
<param-value>$FIC_HOME$</param-value>
<!--OFSAAI Installation Folder-->
</context-param>
```

#### DynamicWSConfig.xml

For each third party web service that needs to be accessed using the OFSAAI Web services framework, and the operation to be invoked, make corresponding entries into this file. This file is to be placed in the location that is specified in the web.xml, as WSCONFIGFILE parameter.

# **Deploy OFSAAI Web Services**

You can deploy OFSAAI Web Services separately if you had not configured OFSAAI Web Services as part of the installation.

- 1. Complete the manual configuration of OFSAAI Web Services.
- 2. Navigate to <OFSAAI Installation Directory>/EXEWebService/<WebServer> and execute the command:

./ant.sh

- 3. This will trigger the EAR/WAR file creation, which is required for the deployment.
- 4. Deploy the generated EXEWebService.EAR/EXEWebService.WAR file into the Web Server.

If you have already configured OFSAAI Web Services as part of the installation, deploy the generated EXEWebService.EAR/ EXEWebService.WAR file into the OFSAAI Deployment area in Web Server profile.

# Configuration to Enable Parallel Execution of DML Statements

A configuration file, OracleDB.conf has been introduced to accommodate any configurable parameter related to operations on oracle database. If you do not want to set a parameter to a specific value, then the respective parameter entry can be removed/commented off form the OracleDB.conf file which resides in the path *\$FIC\_DB\_HOME/conf*.

As of now, the <code>OracleDB.conf</code> file has only one parameter namely <code>CNF\_DEGREE\_OF\_PARALLELISM</code>. This parameter indicates the degree of parallelism to be used for a DML operation if parallel DML is explicitly enabled in the session with the <code>ENABLE PARALLEL</code> DML clause of the <code>ALTER SESSION</code> statement. The default mode of a session is <code>DISABLE PARALLEL</code> DML.If <code>CNF DEGREE OF PARALLELISM</code> is not set, then the default degree, as decided by Oracle will be used.

# Configure Message Details in Forms Designer

You can configure the Message Details in Forms Designer under Data Entry Forms and Queries module by updating the details of mail server in the "NotificationConfig.cfg" file which resides in the path \$FIC\_APP\_HOME/common/FICServer/conf.

Ensure that the "authorized User details" for whom you need to configure the Message details are included in **Administration > Security Management > User Administrator > User Maintenance** window.

Parameter	Description
SMTP_SERVER_IP	Specify the host name or IP address of SMTP Server.
SMTP_DEBUG_MODE	To run SMTP service in Debug mode, set value to 'true', otherwise set value to 'false'.
SMTP_AUTHORIZATION	Set to 'true' if SMTP server requires the client to be authenticated, otherwise set to 'false'.
SMTP_USERNAME	Username required for logging into SMTP server, if authentication is not required use a dummy value.
SMTP_PASSWORD	Password required for logging into SMTP server, if authentication is not required use a dummy value.
SMTP_MAILID	If the Messages has to go from a Particular ID that ID need to be added. Exchange server forces you set a valid ID that is there in the exchange server (Based on Security settings).

Update the following parameters in the "NotificationConfig.cfg" file:

Ensure that the authorized User details are included in Administration > Security Management > User Administrator > User Maintenance window.

# **Clearing Application Cache**

This is applicable to all Web Servers (i.e. WebSphere, WebLogic, and Tomcat).

Prior to the deployment of Infrastructure or Application Service Packs / One-off patches, navigate to the following path depending on the Web Server configured and clear the cache:

- Tomcat: <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp
- WebLogic: <Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/\_WL\_user/<Application name>/qaelce/jsp\_servlet
- WebSphere: <Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>

## **Configuring Password Changes**

This section explains about how to modify the OFSAA Infrastructure Config Schema and Atomic Schema passwords.

#### **OFSAA Infrastructure Config Schema Password Modification**

To change the Config Schema password, perform the following steps:

- 1. Change the Config schema User Password in the database.
- 2. Delete the \$FIC\_HOME/conf/Reveleus.SEC file.
- 3. Shutdown the OFSAAI App service:

```
cd $FIC APP HOME/common/FICServer/bin
```

```
./stopofsaai.sh
```

4. Start the Infrastructure Server in foreground directly on the server or through X-Windows software using the command:

```
./startofsaai.sh
```

At the prompt, enter System Password. Enter the "new Config schema" password. The service will start and initialize itself if it is able to successfully connect to the DB.

5. Post successful startup of the service, if required, the Infrastructure server may be shut down and restarted in the background using nohup mode.

#### **OFSAA Infrastructure Atomic Schema Password Modification**

To change the Atomic Schema password, perform the following steps:

- 1. Change the Atomic schema User Password in the database.
- 2. Login to the application from the browser using SYSADMN account or any user id, which has System Administrator role mapped.
- Navigate to System Configuration > Database Details window. Modify the password as explained in the following steps:
  - a. From the Database Master window, select the connection whose password you want to modify and click button from the tool bar.
  - Click I button corresponding to the Alias Name. The Alias Details window is displayed.
  - Modify the password in the Auth String field.
- 4. If you are using Apache Tomcat as Web server, update the <Context> -> Resource tag details in Server.xml file from the \$CATALINA\_HOME/conf folder. (In case of Tomcat only Atomic <Resource> will exist).
- 5. If you are using WebSphere as Web server:
  - a. Login to the WebSphere Administration Console, from the left side menu.
  - b. Navigate to Resources >JDBC >Data Sources. A list of data sources will be populated on the right side.
  - c. Select the appropriate Data Source and edit the connection details. (In this case, both Config and Atomic data sources will need to be modified).

If you are using WebLogic as Web server:

- a. Login to the WebLogic Administration Console, from the left side menu.
- b. Under Domain Structure list box, expand the appropriate Domain and navigate to Services > JDBC >Data Sources. A list of data sources will be populated on the right side.
- Select the appropriate Data Source and edit the connection details. (In this case, both Config and Atomic data sources need to be modified).
- 6. Restart the OFSAAI services.

## **Configuring Java Virtual Machine**

While running several database intensive tasks in parallel, fetching the database connection from connection pool may face an error. To ensure no such error is encountered, add the line securerandom.source=file:/dev/./urandom in the java.security configuration file available in *\$JAVA\_HOME/jre/lib/security/* path.

This needs to be configured on all the machines or virtual machines where the OFSAAI database components (ficdb layer) are installed.

## Configure Internal Service (Document Upload/ Download)

This step can be ignored if it has already been configured as part of any previous IR/ML installation.

The Document Upload/Download feature has undergone a change and can now be configured to use Internal service for document upload/ download instead of the earlier ExeWebService.

To facilitate Internal service for document upload/ download, perform the following configurations:

- 1. Create the folders download, upload, TempDocument and Temp in the local path of Web application server and provide Read/Write permission.
  - To find the exact location, execute the following query in CONFIG schema: select localpath from web server info
  - To create folders with Read/Write permission, execute the command:

mkdir -m 777 download upload TempDocument Temp

- 2. Create DocStorage folder in the FTPSHARE location of APP tier and provide Read/Write permission.
  - To find the exact location, execute the query in CONFIG schema:

select ftpdrive from app\_server\_info

■ To create folder with Read/Write permission, execute the command:

```
mkdir -m 775 DocStorage
```

By default, the parameter **DOCUMENT\_SERVICE\_TYPE\_EXTERNAL** value is set to **FALSE** in the Configuration table in CON-FIG schema and hence the application "ExeWebService" will not be used. It is recommended that the value to be set to **FALSE** and use the Internal service for document upload/ downloads. If you intend to continue using the External ExeWeb-Service, set the value to **TRUE**.

Navigate to *\$FIC\_HOME/EXEWebService/<WEBSERVER\_TYPE>* directory of WEB tier and type **./ant.sh**. This triggers the creation of EAR/WAR file EXEWebService.ear/.war. The EAR/WAR file EXEWebService.ear/.war will be created in *\$FIC\_HOME/EXEWebService/<WEBSERVER\_TYPE>* directory of WEB tier. Redeploy the generated EAR/WAR file onto your configured web application server.

# APPENDIX D Cloning an OFSAA Instance

There is a consistent need for a faster and effective approach of replicating an existing OFSAA instance for further project developments, that is, setting up OFSAA instances that are exact copies of the current OFSAA instance. For more information on cloning, see OFSAA Cloning Reference Guide.

#### Appendix D—Cloning an OFSAA Instance

# APPENDIX E Migration for Excel Upload

This appendix provides detailed instructions to migrate for excel upload.

## Prerequisites

The following are the prerequisites for migration:

- Data model in ATOMIC schemas should be same on the source and target setups.
- OFS AAI (platform) patch level version should be same on the source and target setups.
- PL/SQL Developer to connect and query the database.
- WinSCP to connect and access server file system.

## Migration for Excel Upload

To migrate, follow these steps:

- 1. Open PL/SQL Developer and log in to the source setup's configuration (CONFIG) schema by entering the appropriate username and password.
- 2. In a new SQL window query the data of table EXCEL\_MAPPING\_MASTER.
- 3. Open a new session in PL/SQL developer and log in to the target setup's configuration (CONFIG) schema by entering the appropriate username and password.
- 4. Insert the records from Step 1 above in to this table.
- 5. In V\_INFODOM column of EXCEL\_MAPPING\_MASTER table update the infodom name with the target infodom name.

**Note:** If all the mappings can work out of the single target Infodom, update same Infodom value across all rows. If only few mappings will work out of the target infodom, update the infodom value for selective records. Excel upload mappings will work only if the target infodom has same data model entities as used in the mappings defined on source setup.

6. Update V\_CREATED\_BY column with the name of any user present in the target setup that has appropriate roles to perform Excel Upload tasks.

Note: It is mandatory to update values for V\_INFODOM and V\_CREATED\_BY columns.

- 7. Open WinSCP and login a new session by entering the host name, port number, user name and password to access the source setup.
- 8. Navigate to the folder referred as FTPSHARE.
- 9. Copy the excel-entity mapping xml file(s) which are located in this folder according to their folder structure on to your desktop. For example: /ftpshare /STAGE/ExcelUpload/\$SOURCE\_INFODOM\_NAME/\$EXCEL\_FILE\_NAME.xml

**Note:** Actual file name of Excel Sheet is mentioned in the V\_EXCEL\_NAME column of EXCEL\_MAPPING\_MASTER table.

10. Copy the excel templates (.xls/ .xlsx) file(s) which are located in this folder according to their folder structure on to your desktop. For example: /ftpshare/STAGE/ExcelUpload/TEMPLATE/\*.xls or \*.xlsx

Note: Ignore this step if files are not present at the location.

- 11. Login a new session in WinSCP by entering the host name, port number, user name and password to access the target setup.
- 12. Copy the xml file(s) from Step3 to the below location in the target setup. For example: /ftpshare/STAGE/ExcelUpload/\$TARGET\_INFODOM\_NAME/\$EXCEL\_FILE\_NAME.xml

**Note:** \$TARGET\_INFODOM\_NAME should be target setup infodom in which you have uploaded the appropriate data model and the name should be same as the V\_INFODOM column value updated in EXCEL\_MAPPING\_MASTER table.

13. Copy the xls/ xlsx file(s) from Step 3 to the below location in target setup. For example: /ftpshare/STAGE/ExcelUpload/TEMPLATE/\*.xls or \*.xlsx

Note: Ignore this step if files are not present at the location.

# **APPENDIX F**



# Data Visibility

Data visibility refers to the data control established on the results fetched by reports depending on the user logged in.

For each user, only those accounts which are directly handled or are handled by a subordinate are visible.

If the logged in user is an RM, then only those accounts which are associated to that user's organizational hierarchy will be fetched. This is achieved through FSI\_M\_USER\_MANAGER\_MAP table.

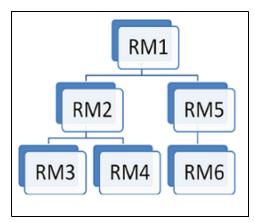
If a user is Relationship Manager (RM), then the particular log in ID and the manager code from DIM\_MANAGEMENT table have to be populated into FSI\_M\_USER\_MANAGER\_MAP table. Also, the table FCT\_ACCOUNT\_MGR\_REL should have the necessary details for the relationship manager to account mapping.

A user logging in without any associated Manager code should have access to the entire data available.

The entries to  $FSI_M_USER_MANAGER_MAP$  table have to be manually inserted. It has two columns,  $V\_USERNAME$  and  $V\_MANAGER\_CODE$ . The  $V\_USERNAME$  has to be inserted with the login username created in OBIEE and  $V\_MANAGER\_CODE$  has to be inserted with the manager code of the corresponding user from DIM\_MANAGEMENT table.

#### Example

The following diagram depicts a hierarchy of Relationship Managers:



The data visibility for each of the Relationship Managers, starting from the top of the hierarchy is as follows:

- RM1 user has control over the data associated to that user along with the data associated to the immediate subordinates, that is, RM2, RM5, and their subordinates till the end of the hierarchy.
- RM2 user has control over the data associated to that user along with the data associated to the immediate subordinates, that is, RM3, RM4, and their subordinates till the end of the hierarchy.
- RM5 user has control over the data associated to that user along with the data associated to the immediate subordinate, that is, RM6 and his subordinates till the end of the hierarchy.

If the logged in user is a Sales Representative (SR), the data associated with the opportunities managed by the respective Sales Representatives are visible. Each Sales Representative will have unique skey values and accounts related to those skeys are displayed in reports.

# **Report Visibility**

The Report's visibility are restricted as per below.

Application Role	Dashboards Available
Business Analyst	Summary
	Customer Summary
	Cross-Sell
	Top 10 Opportunities
	Opportunities
	Activities
	Customer Performance
	Product Performance
	Line of Business Performance
	Balance Sheet
Relationship Manager	Opportunities
	Activities
	Relationship Manager Performance
Sales Representative	Opportunities
	Activities
Administrator	All Reports

The Reports visibility for the different roles has to be handled by setting proper catalog Permissions. The steps to setup these permissions are described in Setting Up Dashboard Visibility under Configure Roles and Groups of this document.

# Metadata Visibility

Accessibility to presentation layer objects for creating ad-hoc reports varies from user-to-user depending on the application role the user is allocated.

The following are the requirements for viewing the Metadata in RPD:

Application Role	Tables for Ad-hoc Reporting			
Business Analyst role	Fact-Account Summary			
	Fact Account Profitability			
	Fact Opportunity			
	Fact Opportunity Activity			
	Fact Management Forecast			
	Fact Customers			
Relationship Manager role	Fact Relationship Manager Contribution			
	Fact Relationship Manager Profitability			
	Fact Opportunity			
	Fact Opportunity Activity			
Sales Representative role	Fact Opportunity			
	Fact Opportunity Activity			
	Fact Sales Representative Compensation			
Administrative role (WebLogic)	All tables			

# APPENDIX G Removing OFSAA

This chapter includes the following sections:

- Uninstalling OFSAA Infrastructure
- Output State of the state of
- O Uninstalling EAR Files in WebLogic
- Uninstalling WAR Files in Tomcat

## Uninstalling OFSAA Infrastructure

This section will guide you through the necessary steps to uninstall the OFSAA Infrastructure product.

Before you start the uninstallation process, ensure that no open connections exist to the OFSAA Infrastructure Config and Atomic Schemas and Infrastructure services are brought down.

To uninstall OFSAA Infrastructure:

- 1. Log in to the system as non-root user.
- 2. Navigate to the \$FIC\_HOME directory and execute the command:

./Uninstall.sh

3. Enter the password for OFSAAI Configuration Schema when prompted as shown in the following figure.



#### Figure 3. Uninstalling OFSAA Infrastructure

**Note:** Uninstallation does not remove the Infrastructure application from the Web Application Server. This has to be done manually.

The entries in the .profile file will have to be removed manually.

The files/ folders under the file system staging area (ftpshare) have to be deleted manually.

All the Database objects from Atomic Schemas have to be dropped manually.

# Uninstalling EAR Files in WebSphere

Following are the steps to uninstall any previously deployed application:

- 1. Open the URL in the browser window: http://<ipaddress>:<Administrative Console Port>/ibm/console (https if SSL is enabled). The Login window is displayed.
- 2. Login with the user id that has admin rights.
- 3. Expand Applications > Application Types > WebSphere enterprise applications from the LHS. The Enterprise Applications window is displayed with all the deployed applications.

Jse t	prise Applications his page to manage installed applications. A single applicat eferences	ion can be deployed onto multiple servers.
Sta	rt Stop Install Uninstall Update Rollout Update	Remove File Export Export DDL Export File
C	D # \$	
ielec	t Name 🔿	Application Status 💁
You	can administer the following resources:	
	DefaultApplication	*
	ivtApp	*
	suery	*
	upgs73	*

#### Figure 4. Enterprise Applications

- 4. Select the check box adjacent to the application to be uninstalled and click **Stop**.
- 5. Click **Uninstall** to display the **Uninstall Application** window.

nstall Application	
	illowing application(s). If you do not want to remove the applications, click Cancel to retu
o the previous page.	
£1	
Name	

#### Figure 5. Uninstall Application

- 6. Click **OK** to confirm.
- 7. Click **Save** to save the master file configuration.

# Uninstalling EAR Files in WebLogic

On the machine that hosts WebLogic, perform the following steps to uninstall any previously deployed application:

- 1. Open the URL in the browser window: http://<ipaddress>:<admin server port>/console (https if SSL is enabled). The Login window of the WebLogic Server Administration Console is displayed.
- 2. Login with the WebLogic user credentials having administrator privileges.
- 3. From the **Domain Structure** LHS menu, click **Deployments** to display the **Summary of Deployments** screen.

ntrol	Monitoring						
redeploy	yed), or deleted from	the domain	ations and stand-slone application modules that have been by first selecting the application name and using the conto deployment to targets in this domain, click the Install butto	ols on this pa		stalled applications and module	es can be started, stopped, upda
eploym	ize this table						
eploym		Start ~	Stop v			s	having 1 to 1 of 1 Previous   1
eploym	update Delete	Start ~	When work completes	State	Health		
eploym install	nents	Start ~		State	Health	S Type Enterprise Application	bowing 1 to 1 of 1 Previous   N Deployment Order

#### Figure 6. Summary of Deployments

- 4. Select the check box adjacent to the application to be uninstalled and click **Stop > Force Stop Now**.
- 5. Click Yes in the confirmation dialog to stop the selected deployment.

amary	of Deployments				
ntrol	Monitoring				
recepto	oyed), or deleted from the domain by first selecting the a				
custor	il a new application or module for deployment to targets nize this table ments Update Delete Start & Stop &	n this domain, click the Install button.		Sh	owing I to 1 of 1 Previous   1
eploy	nize this table ments	n this domain, click the Install button.	Health	Sh Type	owing 1 to 1 of 1 Previous   1 Deployment Order

#### Figure 7. Summary of Deployments- Messages

- 6. Select the check box adjacent to the application and click **Delete** to delete the selected deployment.
- 7. Click **Yes** in the confirmation dialog to remove the selected deployment from the domain configuration.

# Uninstalling WAR Files in Tomcat

On the machine that hosts Tomcat, perform the following steps to uninstall any previously deployed application:

1. Comment out Context path section from server.xml file in \$CATALINA\_HOME/conf directory to avoid conflict during undeploy and re-deploy of the WAR file.

Place comment <!-- --> in between the context path section. For example:

```
<!--
<Context path ="/pr2test" docBase="/home/perfuser/tomcat-7.0.19/webapps/pr2test"
debug="0" reloadable="true" crossContext="true">
<Resource auth="Container"
name="jdbc/PR2ATM"
type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
username="pr2atm"
password="pr2atm"
url="jdbc:oracle:thin:@10.184.74.99:1521:PERFTEST"
maxActive="100"
maxIdle="30"
maxWait="10000"/>
</Context>
-->
```

Restart the Tomcat service by doing the following:

- a. Login to the "Unix server" through a terminal emulator.
- b. Navigate to \$catalina\_home/bin directory.
- c. Stop the tomcat services using the following command:

./shutdown.sh

d. Start the tomcat services using the following command:

./startup.sh

- 2. Open the URL in a browser window: http://<IP address>:<Tomcat server port>. (https if SSL is enabled). The Tomcat home window is displayed.
- 3. Click the Manager App. The Connect to window is displayed.
- 4. Login with the user credentials having admin rights. The Tomcat Web Application Manager window is displayed with the list of all applications deployed in Tomcat.

http://www.apache.org/									
		Tomea	Theo App	neaton manager					
Manager		107210 110000							
List Applications		HTML Mana	ger Heip	Manager Help Server Stat					
Applications	A MARKAN MARKAN								
Path	Display Name	Running	Sessions	Commanda					
				Start Stop Reload Undeploy					
£	Welcome to Tomcet	true	2	Expire sessions with kile a 30 minutes					
				Start Stop Reload Undeploy					
/doca	Tempat Decumentation	true	2	Expire sessions with lide a 30 minutes					
				Start Stop Reload Underloy					
/examples	Serviet and JSP Examples	true	2	Expire sessions with Idle a 30 minutes					
				Start Stop Reliced Undeploy					
/host-menager	Terricat Manager Application	true	٩	Expire sessions with lote a 30 minutes					
				Start Stop Reload Undeploy					
(manager	Tomcat Manager Application	true	٩	Expire sessions with idle a 30 minutes					
(ofseeigt	Reveleus web Application	true	1	Start Stop Reload Undeploy					

#### Figure 8. Tomcat Web Application Manager

5. Click the **Undeploy** link against the deployed Infrastructure application. A confirmation message is displayed on the application /Infrastructure being uninstalled.

## **APPENDIX H**

# Upgrading an Existing OFSAA 8.0.x Java 7 Instance to Java 8

This appendix explains the configurations required to upgrade an existing OFSAA 8.0.x Java 7 instance to Java 8. It consists of the following topics:

- Prerequisites
- Steps for upgrading OFSAA 8.0.x Java 7 instance to Java 8
- Web Application Server Configurations
- OFSAA Generic Configurations
- OFSAA Configurations for New Web Application Server Installation

## Prerequisites

The following are the prerequisites for upgrading OFSAA 8.0.x Java 7 instance to Java 8:

- Java 8 should be installed on the OFSAA server and Web Application Server.
- Oracle WebLogic Server should be 12.1.3.0 or above. Download and install patch 18729264 from http://support.oracle.com/.

Note: IBM WebSphere 8.5.x (Full Profile) on Java 8 is not available.

## Steps for upgrading OFSAA 8.0.x Java 7 instance to Java 8

To upgrade OFSAA 8.0.x Java 7 instance to Java 8, follow these steps:

- 1. Configure Web Application Server to Java 8. For more information, see Web Application Server Configurations.
- 2. Configure the OFSAA instance to Java 8. For more information, see OFSAA Generic Configurations. For a newly installed Web Application Server, see OFSAA Configurations for New Web Application Server Installation.
- 3. Restart the OFSAA services. For more information, see Start/Stop OFSAA Infrastructure Services section.
- 4. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, see Creating and Deploying EAR/WAR File.

# Web Application Server Configurations

This section describes the changes to be made in the Web Application Server. Following are the two options to perform Web Application Server Configurations which are listed as follows:

- Upgrade the existing Web Application Server installation to Java 8
- Install a new instance of the Web Application Server with Java 8

This section consists of the following topics:

- Oracle WebLogic Server Updates
- Apache Tomcat Server Updates

#### **Oracle WebLogic Server Updates**

Perform the following configurations to upgrade the existing WebLogic server instance to Java 8:

- 1. Navigate to <WLS\_HOME>/Middleware/Oracle\_Home/wlserver.
- 2. Edit the product.properties file. Set JAVA\_HOME, WLS\_JAVA\_HOME, JAVAHOME properties to the new Java path and java.vm.version to the new Java version. For example:

```
JAVA_HOME=/usr/java/jre1.8.0_45
WLS_JAVA_HOME=/usr/java/jre1.8.0_45
JAVAHOME=/usr/java/jre1.8.0_45
```

java.vm.version=1.8.0\_45

3. Navigate to <WLS\_HOME>/Middleware/Oracle\_Home/user\_projects/domains/<domain>/bin. Update SUN\_JAVA\_HOME, DEFAULT\_JAVA\_HOME, JAVA\_HOME in the setDomainEnv.sh file to point to the new Java path. For example:

```
SUN_JAVA_HOME="/usr/java/jre1.8.0_45"
DEFAULT_SUN_JAVA_HOME="/usr/java/jre1.8.0_45"
JAVA HOME="/usr/java/jre1.8.0_45"
```

4. Clear the Application cache. Navigate to the following path and delete the files:

<Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/\_WL\_user/<Application name>/qaelce/jsp\_servlet

If you want to install a new instance of the Oracle WebLogic Server, follow these steps:

- 1. Install Oracle WebLogic Server 12.1.3.x on Java 8.
- 2. Perform the configurations for the newly installed WebLogic server. For more information, see Configure Resource Reference in WebLogic Application Server.

**Note:** While creating WebLogic Domain, the Listen Port should be set same as that of the existing Domain. Note down the new Domain path to perform OFSAA Configurations.

#### **Apache Tomcat Server Updates**

Perform the following configurations to upgrade the existing Apache Tomcat Server from Java 7 to Java 8:

- 1. Login to the Apache Tomcat Server as a non-root user.
- Edit the user .profile. Update the value for JAVA\_HOME from JRE 1.7 to JRE 1.8. For Example: JAVA\_HOME=/usr/java/jre1.8.0\_45
- Clear the Application cache. Navigate to the following path and delete the files:
   <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp

If you wish to install a new instance of the Apache Tomcat Server, follow these steps:

- 1. Install Apache Tomcat Server 8 with Java 8.
- 2. Perform the configurations for the newly installed Tomcat server. For more information, see Configure Resource Reference in Tomcat Application Server.

**Note:** Update the Connector Port in /apache-tomcat-8.0.21/conf/server.xml file to that of the existing Tomcat instance. Note down the new deployment path to perform OFSAA Configurations.

### **OFSAA Generic Configurations**

#### **User .profile Settings**

Perform the following configurations:

- 1. Login to the OFSAA Server as a non-root user.
- 2. Edit the user .profile. Update the value for PATH variable from JRE 1.7 to JRE 1.8. For Example,

```
PATH=/usr/java/jre1.8.0_45/jre
JAVA_BIN=/usr/java/jre1.8.0_45/jre/bin
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/java/jre1.8.0_45/jre/lib/amd64/server
```

# **OFSAA Configurations for New Web Application Server Installation**

This configuration is required only if you have freshly installed Oracle WebLogic 12.1.3 or Apache Tomcat Server 8.0. Follow these steps:

- 1. Modify the following parameters in the Configuration table present in the Config Schema with the new Domain Path in case of WebLogic or with the new deployment path in case of Tomcat:
  - DeFiHome
  - REV\_IMG\_PATH
  - EMBEDDED\_JSP\_JS\_PATH
- 2. Login to the OFSAA Server as a non-root user.
- 3. Navigate to \$FIC\_HOME/ficweb/webroot/WEB\_INF and update the following parameters in the web.xml file with the new Domain path in case of WebLogic or with the new deployment path in case of Tomcat:
  - FIC\_PHYSICAL\_HOME\_LOC
  - FIC\_HOME
  - ICC SERVLET LOG FILE
- 4. Navigate to *\$FIC\_HOME/ficweb/webroot/conf* and update the Domain path in case of WebLogic or with the new deployment path in case of Tomcat:
  - OFSAALogger.xml
  - MDBLogger.xml
  - RevLog4jConfig.xml
  - RFDLogger.xml
  - ExportLog4jConfig.xml
  - RFDLogger.xml
  - PR2Logger.xml

# JDBC Jar Files

**APPENDIX** 

The ojdbc<version>.jar file should be copied based on Database and Java version. Refer to the following table for details:

Oracle Database version	JDK/JRE Version supported	JDBC Jar files specific to the release
12.1 or 12cR1	JDK 8, JDK 7 and JDK 8	ojdbc7.jar for JDK 7/JDK 8
11.2 or 11gR2	JDK 7 supported in 11.2.0.3 and 11.2.0.4	ojdbc6.jar for JDK 7

#### Appendix I—JDBC Jar Files

**APPENDIX J** 

# Configuring Application Pack XML Files

# OFS\_PFT\_PACK.xml

The  $OFS\_PFT\_PACK.xml$  file holds details on the various products that are packaged together in Profitability Application Pack.

This section details the various tags/ parameters available in the file and the values that need to be updated. Prior to installing the Profitability Application Pack in SILENT mode, it is mandatory to update this file.

Note: If you are installing in the GUI mode, then this file need not be updated.

```
<APP_PACK_CONFIG>
              <APP_ID PREREQ="" DEF_SEL_FLG="YES" ENABLE="YES">OFS_AAI</APP_ID>
<APP_NAME>Financial Services Analytical Applications Infrastructure</APP_NAME>
<APP_DESCRIPTION>Base Infrastructure for Analytical Applications</APP_DESCRIPTION>
<VERSION>8.0.0.0.0</VERSION>
               <APP>
               </APP>
              <APP>
                             <APP_ID PREREQ="OFS_AAI" ENABLE="YES">OFS_PFT</APP_ID>
<APP_NAME>Financial Services profitability Management</APP_NAME>
<APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
<VERSION>8.0.0.0</VERSION>

               </APP>
              <APP>
                             <APP_ID PREREQ="OFS_AAI" ENABLE="YES">OFS_FTP</APP_ID>
<APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
<APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
<VERSION>8.0.0.0</VERSION>
               </APP>
               <APP:
                             <VERSION>8.0.0.0.0</VERSION>
               </APP>
               <APP>
                             <APP_ID PREREQ="OFS_AAI" ENABLE="YES">OFS_RPA</APP_ID>
<APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
<APP_DESCRIPTION>Application for Retail Performance Analytics</APP_DESCRIPTION>
<VERSION>8.0.0.0.0</VERSION>
              </APP>
<APP>
                            <APP_ID PREREQ="OFS_AAI" ENABLE="YES">OFS_EFPA</APP_ID>
<APP_NAME>Financial Services Enterprise Financial Performance Analytics</APP_NAME>
<APP_DESCRIPTION>Application for Enterprise Financial Performance Analytics</APP_DESCRIPTION>
<VERSION>8.0.0.0.0</VERSION>
</APP>
</APP_PACK_CONFIG>
```

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
APP_PACK_ID	Unique Application Pack Identifier	Y	Unique Seeded Value	DO NOT modify this value.
APP_PACK_NAME	Unique Application Pack Name	Y	Unique Seeded Value	DO NOT modify this value.

#### OFS\_PFT\_PACK.xml Appendix J—Configuring Application Pack XML Files

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
APP_PACK_DESCRIPTIO N	Unique Application Pack Description	Y	Unique Seeded Value	DO NOT modify this value.
VERSION	Unique release version	Y	Unique Seeded Value	DO NOT modify this value.
АРР	Unique Application Entries	Y	Unique Seeded Value	DO NOT remove these tags.
APP_ID	Unique Application Identifier	Y	Unique Seeded Value	DO NOT modify this value.
APP_ID/ PREREQ	Prerequisite Application/ Product	Y	Unique Seeded Value	For most applications Infrastructure would be the prerequisite set. For certain other applications, an appropriate Application ID would be set.
				DO NOT modify this value.
APP_ID/ DEF_SEL_FLAG	Default Selected Flag	Y	Default - YES	In all Application Packs, Infrastructure would have this value set to "YES".
				DO NOT modify this value.
APP_ID/ ENABLE	Enable Application/ Product	YES if installing in SILENT mode.	Default - YES for Infrastructure NO for Others	Set this attribute-value to YES against every APP_ID which is licensed and should be enabled for use.
			Permissible - YES or NO	Note: Application/ Product once enabled cannot be disabled. However, Application/ Product not enabled during installation can be enabled later through the Administration UI.
APP_NAME	Unique Application/ Product Name	Y	Unique Seeded Value	DO NOT modify this value.
APP_DESCRIPTION	Unique Application/ Product Name	Y	Unique Seeded Value	DO NOT modify this value.
VERSION	Unique release version	Y	Unique Seeded Value	DO NOT modify this value.

## Configuring OFS\_PFT\_SCHEMA\_IN.xml

Creating database schemas, objects within schemas and assigning appropriate grants are the primary steps in the installation process of OFSAA Applications. The OFS\_PFT\_SCHEMA\_IN.xml file contains details on the various application schemas that should be created prior to the Application Pack installation.

**Note:** This file should be configured only if OFS Profitability Application Pack installation for **RDBMS ONLY** target.

The following table gives details about the various tags/ parameters available in the file and the values that need to be updated. Prior to executing the schema creator utility, it is mandatory to update this file.

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<app_pack_id></app_pack_id>	Seeded unique ID for the OFSSAA Application Pack	Y	Seeded	DO NOT modify this value.
<jdbc_url></jdbc_url>	Enter the JDBC URL. Note: You can enter RAC/ NON-RAC enabled database connectivity URL.	Y	Example: jdbc:oracle:thin:@ <host ip="">:<p ORT&gt;:<sid> or jdbc:oracle:thin:@/ /[HOST][:PORT]/SERVICE or jdbc:oracle:thin:@(DESCRIPTION= (ADDRESS_LIST=(ADDRESS=PROT OCOL=TCP)(HOST=[HOST])(port=[ PORT]))(ADDRESS=(PROTOCOL=T CP)(HOST=[HOST])(PORT=[PORT]) )(LOAD_BALANCE=yes)(FAILOVER =yes))(CONNECT_DATA=(SERVICE NAME= For example: jdbc:oracle:thin:@//dbhost.serve r.com:1521/scan-1 or jdbc:oracle:thin:@(DESCRIPTION= (ADDRESS_LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=dbhost1.server .com)(port-1521))(ADDRESS=(PR OTOCOL=TCP)(HOST-dbhost2.serv er.com)(PORT-1521))(LOAD_BALA NCE=yes)(FAILOVER=yes))(CONNE CT_DATA=(SERVICE_NAME=servic e1)))</sid></p </host>	Ensure to add an entry (with SID/ SERVICE NAME) in the tnsnames.ora file on the OFSAA server. The entry should match with the SID/ SERVICE NAME used in the JDBC URL.

## Configuring OFS\_PFT\_SCHEMA\_IN.xml Appendix J—Configuring Application Pack XML Files

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<jdbc_driver></jdbc_driver>	By default this driver name is seeded. <b>Note</b> : Do not edit this attribute value.	Y	Example: oracle.jdbc.driver.OracleDriver	Only JDBC Thin Driver is supported. DO NOT modify this value.
<host></host>	Enter the Host name/ IP Address of the system on which you are installing the OFSAA components.	Y	Host Name/ IP Address	
<setupinfo>/PREF IX_SCHEMA_NAME</setupinfo>	Identifies if the value specified in <setupinfo>/NAME attribute should be prefixed to the schema name.</setupinfo>	Ν	YES or NO Default value is YES.	
<setupinfo>/NAM E</setupinfo>	Enter the acronym for the type of implementation. This information will be displayed in the OFSAA Home Page. <b>Note</b> : On executing the schema creator utility, this value will be prefixed with each schema name. For example: dev_ofsaaconf, uat_ofsaatm.	Ŷ	Accepts strings with a minimum length of two and maximum of four. Example: DEV, SIT, PROD	This name would appear in the OFSAA Landing Page as "Connected To: xxxx". The schemas being created would get this prefix. For example, dev_ofsaaconf, uat_ofsaaconf, etc.
<password>/DEF AULT*</password>	Enter the password if you want to set a default password for all schemas. <b>Note</b> : You also need to set APPLYSAMEFORALL attribute as Y to apply the default password for all the schemas.	Ν	The maximum length allowed is 30 characters. Special characters are not allowed.	

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<password>/APPL YSAMEFORALL</password>	Enter as Y if you want to apply the password specified in DEFAULT attribute for all the schemas.	Y	Default - N Permissible - Y	<b>Note</b> : Setting this attribute value is mandatory, if DEFAULT attribute is set.
	If you enter as N, you need to provide individual passwords for all schemas.			
	Note: In case you have entered Y in APPLYSAMEFORALL attribute and also have specified individual passwords for all the schemas, then the specified individual passwords will take precedence.			
<schema>/TYPE</schema>	The different types of schemas that are supported in this release are ATOMIC, CONFIG, SANDBOX, and ADDON. By default, the schemas	Y	ATOMIC/CONFIG/SANDBOX/ADD ON Note: SANDBOX and ADDON schemas are not applicable for OFS PFT Application Pack.	Only One CONFIG schema can exist in the file. This schema identifies as the CONFIGURATION schema that holds the OFSAA setup detains and other Metadata information.
	types are seeded based on the Application Pack.			Multiple ATOMIC/SANDBOX/ADDON schemas can exist in the file.
	<b>Note</b> : Do not edit this attribute value.			ATOMIC schema refers to the Information Domain schema. SANDBOX schema refers to the SANDBOX schema. ADDON schema refers to other miscellaneous schema (not applicable for this Application Pack).
				<b>Note</b> : The Profitability Pack supports only one Atomic Schema.

## Configuring OFS\_PFT\_SCHEMA\_IN.xml Appendix J—Configuring Application Pack XML Files

Tag Name/		Mandatory		
Attribute Name	Description	(Y/ N)	Default Value/ Permissible Value	Comments
<schema>/NAME</schema>	Be default, the schema names are seeded based on the Application Pack.	Y	The permissible length is 15 characters and only alphanumeric characters are allowed. No special characters allowed except	SETUPOINFO/NAME attribute value would be prefixed to the schema name being created.
	You can edit the schema names if required.		underscore '_'.	For example, if name is set as 'ofsaatm' and setupinfo as 'uat', then schema being created would be
	Note: The Schema Name will have a prefix of the SETUPINFO/NAME attribute.			'uat_ofsaatm'. NAME should be same where APP_GRP=1 for all SCHEMA tags (Not
	SCHEMA NAME must be same for all the ATOMIC Schemas of the applications within an Application Pack.			applicable for this Application Pack).
<schema>/PASSW ORD</schema>	Enter the password of the schema to be created.	Ν	The maximum length allowed is 30 characters. Special characters are not allowed.	<b>Note</b> : You need to mandatorily enter the password if you have set the
	Note: If this attribute is left blank, then the password specified in the <password>/DEFAULT attribute is applied as the Schema Password.</password>			<password>/APPLYSAMEF ORALL attribute as N.</password>
<schema>/APP_ID</schema>	By default, the Application ID is seeded based on the Application Pack.	Y	Unique Seeded Value	Identifies the Application/ Product for which the schema is being created. DO NOT modify this value.
	<b>Note</b> : Do not edit this attribute value.			Do Not mouly this value.
<schema>/DEFAUL TTABLESPACE</schema>	Enter the available default tablespace for DB User.	Ν	Default - USERS Permissible - Any existing valid tablespace name.	Modify this value to associate any valid tablespace with the schema.
	<b>Note</b> : If this attribute is left blank, then USERS is set as the default tablespace.			
<schema>/TEMPT</schema>	Enter the available	Ν	Default - TEMP	Default - TEMP
ABLESPACE	temporary tablespace for DB User.		Permissible - Any existing valid temporary tablespace name.	Permissible - Any existing valid temporary tablespace
	<b>Note</b> : If this attribute is left bank, TEMP is set as the default			name.
	tablespace.			

Tag Name/ Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<schema>/QUOTA</schema>	Enter the quota to be set on DEFAULTTABLESPACE attribute for the schema/ user. By default, the quota size is set to 500M. Minimum: 500M or Unlimited on default Tablespace.	Ν	Example: 600M/ m 20G/ g UNLIMITED/ unlimited	Modify this value to grant the specified quota on the mentioned tablespace to the user.
<schema>/INFOD OM</schema>	Enter the name of the Information Domain to associate this schema. The schema creator utility automatically derives an Information Domain Name based on the Application Pack if no value is specified for this attribute.	Ν	Permissible length is 16 characters and only alphanumeric characters are allowed. No special characters are allowed.	

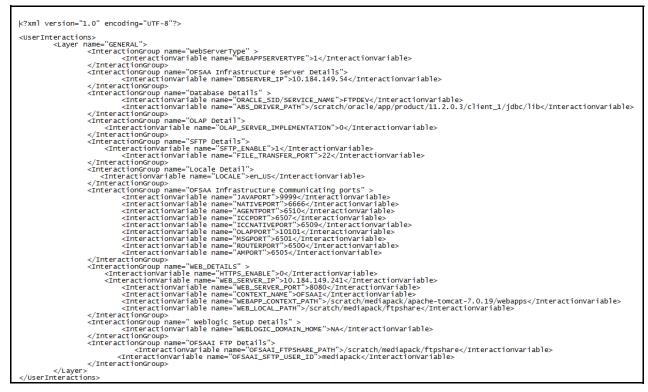
## Configuring OFS\_PFT\_SCHEMA\_IN.xml Appendix J—Configuring Application Pack XML Files

## **APPENDIX K**

# Configuring OFSAAI\_InstallConfig.xml File

To configure the OFS InstallConfig.xml file:

- 1. Navigate to OFS\_PFT\_PACK/OFS\_AAI/conf/ folder.
- 2. Open the file OFSAAI InstallConfig.xml in text editor.



3. Configure the OFSAAI\_InstallConfig.xml as mentioned in the below table:

You need to manually set the InteractionVariable parameter values as mentioned in the table. If a value is not applicable, enter **NA** and ensure that the value is not entered as NULL.

InteractionVariable Name	Significance and Expected Value	Mandatory
<layer name="GENERAL"></layer>		
WEBAPPSERVERTYPE	Identifies the web application server on which the OFSAA Infrastructure web components would be deployed.	Yes
	The below numeric value should be set depending on the type:	
	Apache Tomcat = 1	
	IBM WebSphere Application Server = 2	
	Oracle WebLogic Server = 3	
	For example, <interactionvariable name="WEBAPPSERVERTYPE"&gt;3</interactionvariable 	
DBSERVER_IP	Identifies the host name or IP address of the system on which the Database Engine is hosted.	Yes
	Note: For RAC Database, the value should be NA.	
	For example, <interactionvariable name="DBSERVER_&lt;br&gt;IP">14.15.16.17</interactionvariable> or	
	<interactionvariable name="DBSERVER_&lt;br&gt;IP">dbhost.server.com</interactionvariable>	
ORACLE_SID/SERVICE_NA	Identifies the Oracle DB Instance SID or SERVICE_NAME	Yes
ME	Note: The Oracle_SID value should be exactly the same as it is mentioned in JDBC_URL.	
	For example, <interactionvariable name="ORACLE_SID/SERVICE_&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;NAME">ofsaser</interactionvariable>	
ABS_DRIVER_PATH	Identifies the directory where the JDBC driver (ojdbc <version>.jar) exists. This would typically be the</version>	Yes
	\$ORACLE_HOME/jdbc/lib	
	For example, <interactionvariable name="ABS_DRIVER_&lt;br&gt;PATH">"&gt;/oradata6/revwb7/oracle</interactionvariable>	
	Note: See JDBC Jar Files for identifying the correct "ojdbc <version>.jar" version to be copied.</version>	
OLAP_SERVER_ IMPLEMENTATION	Identifies if the OFSAA Infrastructure OLAP component needs to be configured depending on whether you intend to use the OLAP feature. The below numeric value should be set depending on the choice:	No
	YES - 1	
	NO - 0	
Note: If value for OLAP_SER	VER_IMPLEMENTATION is set to 1, it checks for following environment varia	bles are set in .profile:
ARBORPATH, HYPERION_HO	ME and ESSBASEPATH.	

InteractionVariable Name	Significance and Expected Value	Mandatory
SFTP_ENABLE	Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The below numeric value should be set depending on the choice:	Yes
	SFTP - 1	
	FTP - 0	
because SFTP is considered	SFTP_ENABLE is 1, which signifies that SFTP will be used. Oracle recomment more secure. However, a client may choose to ignore this recommendation ction may be changed later by using the OFSAAI administration interface.	
FILE_TRANSFER_PORT	Identifies the port used for the file transfer service. The default value specified is 22 (SFTP). Specify value as 21 or any other PORT value if value for SFTP_ENABLE is 0.	Yes
	For example, <interactionvariable name="FILE_TRANSFER_&lt;br&gt;PORT">21</interactionvariable> .	
LOCALE	Identifies the locale information to be used during the installation. This release of the OFSAA Infrastructure supports only US English.	Yes
	For example, <interactionvariable name="LOCALE"&gt;en_US</interactionvariable 	
in the installation. If you inte	sed internally by the various OFSAA Infrastructure services. The default valuend to specify a different value, update the parameter value accordingly and and the respective port is enabled.	
JAVAPORT	9999	Yes
NATIVEPORT	6666	Yes
AGENTPORT	6510	Yes
ICCPORT	6507	Yes
ICCNATIVEPORT	6509	Yes
OLAPPORT	10101	Yes
MSGPORT	6501	Yes
ROUTERPORT	6500	Yes
AMPORT	6505	Yes
	ABLE is set to 1, ensure you have a valid certificate available from a trusted lication server. For more details on configuring your setup for HTTPS.	CA and the same is
HTTPS_ENABLE	Identifies if the UI should be accessed using HTTP or HTTPS scheme. The default value set is 0. The below numeric value should be set depending on the choice:	Yes
	YES - 1	
	NO - 0	
	For example, <interactionvariable name="HTTPS_ENABLE"&gt;0</interactionvariable 	

## Appendix K—Configuring OFSAAI\_InstallConfig.xml File

InteractionVariable Name	Significance and Expected Value	Mandatory
WEB_SERVER_IP	Identifies the HTTP Server IP/ Host name or Web Application Server IP/ Host name, to be used for accessing the UI. This IP would typically be the HTTP Server IP.	No
	If no separate HTTP Server is available, the value should be Web Application Server IP/Host name.	
	For example, <interactionvariable name="WEB_SERVER_&lt;br&gt;IP">10.11.12.13</interactionvariable>	
	or	
	<interactionvariable name="WEB_SERVER_&lt;br&gt;IP">myweb.server.com</interactionvariable>	
WEB_SERVER_PORT	Identifies the Web Server Port. This would typically be 80 for non SSL and 443 for SSL. If no separate HTTP Server exists, the value should be the port configured for Web Server.	No
	Note: The port value will not be accepted as 80 if HTTPS_ENABLE is 1 and as 443, if HTTPS_ENABLE is 0.	
	For example, <interactionvariable name="WEB_&lt;br&gt;SERVER_PORT">80</interactionvariable>	
CONTEXT_NAME	Identifies the web application context name which will be used to build the URL to access the OFSAA applications. The context name can be identified from a URL as below:	Yes
	<scheme>://<host>:<port>/<context-name>/lo gin.jsp</context-name></port></host></scheme>	
	Sample URL:	
	https://myweb:443/ofsaadev/login.jsp	
	For example, <interactionvariable name="CONTEXT_&lt;br&gt;NAME">ofsaadev</interactionvariable>	
WEBAPP_CONTEXT_PATH	Identifies the absolute path of the exploded .ear file on the web application server.	Yes
	For Tomcat, specify the Tomcat directory path till	
	/webapps, such as	
	/oradata6/revwb7/tomcat/webapps/.	
	For WebSphere, enter the WebSphere path as	
	<websphere directory="" profile="">/installedApps/</websphere>	
	<nodecellname>. For example,</nodecellname>	
	/data2/test//WebSphere/AppServer/profiles/	
	<profile_< td=""><td></td></profile_<>	
	Name>/installedApps/aix-imfNode01Cell. Where aix-imf is Host name.	
	For WebLogic, provide the WebLogic home directory path as / <weblogic directory="" home="" path="">/bea/wlserver_10.3</weblogic>	
	Note: For WebLogic, value specified for this attribute is ignored and value provided against attribute WEBLOGIC_DOMAIN_HOME is considered.	

InteractionVariable Name	Significance and Expected Value	Mandatory
WEB_LOCAL_PATH	Identifies the absolute path to any directory on the web application server that can hold temporary files being uploaded as part of the applications usage. User can set this in FTPSHARE location to avoid the confusion.	Yes
	<b>Note</b> : In case of a clustered deployment, ensure this path and directory is same on all the nodes.	
WEBLOGIC_DOMAIN_HO ME	Identifies the WebLogic Domain Home. Specify the value only if WEBSERVERTYPE is set as 3 (WebLogic).	Yes. Specify the value only if WEBSERVERTYPE is set
	For example, <interactionvariable name="WEBLOGIC_DOMAIN_&lt;/td&gt;&lt;td&gt;as 3 (WebLogic)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;HOME">/home/weblogic/bea/user_ projects/domains/mydomain</interactionvariable>	
OFSAAI_FTPSHARE_PATH	Identifies the absolute path to the directory identified as file system stage area.	Yes
	<b>Note</b> : The directory should exist on the same system on which the OFSAA Infrastructure is being installed (can be on a separate mount).	
	The user mentioned in APP_SFTP_USER_ID parameter below should have RWX permission on the directory.	
	For example, <interactionvariable name="APP_FTPSHARE_PATH"&gt;"&gt;/oradata6/revwb7/ftpshareonVariable&gt;</interactionvariable 	
OFSAAI_SFTP_USER_ID	Identifies the user who has RWX permissions on the directory identified under parameter APP_FTPSHARE_PATH above.	Yes
HIVE_SERVER_PORT		Not applicable
HIVE_SERVER_FTPDRIVE		Not applicable
HIVE_SERVER_FTP_USERI D		Not applicable
HIVE_SERVER_FTP_PROT OCOL		Not applicable

## Appendix K—Configuring OFSAAI\_InstallConfig.xml File

## APPENDIX L

# Configuring Resource Reference Web Application Servers

This appendix includes the following topics:

- Configure Resource Reference in WebSphere Application Server
- Configure Resource Reference in WebLogic Application Server
- Configure Resource Reference in Tomcat Application Server

## Configure Resource Reference in WebSphere Application Server

This section is applicable only when the Web Application Server is WebSphere.

This section includes the following topics:

- Create JDBC Provider
- Create Data Source
- J2C Authentication Details
- JDBC Connection Pooling

## **Create JDBC Provider**

1. Open the WebSphere admin console in the browser window:

http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login
window is displayed.

- 2. Login with the user ID that has admin rights.
- 3. Expand the **Resources** option in the LHS menu and click **JDBC** > **JDBC** Providers to display the JDBC Providers window.

DBC	providers		
npler	mentation class for access to th	JDBC provider. The JDBC provider object en e specific vendor database of your environ ides a list of task steps and more general	ment. Learn more about this task in a
Sco	Scope specifies the level at	de05Cell. Node=GX5150REV-Zone2Node0 which the resource definition is visible. For is and how it works, see the scope settings	detailed
		2Node05, Server=server1 💌	
Pre	ferences		
New	Delete		
B	6 # 9		
elect	Name 🗘	Scope 🗘	Description ()
rou c	an administer the following res	ourcesi	
	Derby JDBC Provider	Node=GXS150REV- Zone2Node05.Server=server1	Derby embedded non-XA JDBC Provider
	FICMASTER	Node=GXS150REV- Zone2Node05,Server=server1	Oracle JDBC Driver
	Oracle 3DBC Driver	Node=GXS150REV- Zone2Node05.Server=server1	Oracle JDBC Driver
	BORFFW	Node=GXS150REV- Zone2Node05.Server=server1	RORFFW
	BOBENC	Node=GXS150REV- Zone2Node05,Server=server1	RORPNC
	UPGSPFT	Node=GXS150REV- Zone2Node05.Server=server1	UPGSPFT
	UPGSROR	Node=GXS150REV- Zone2Node05.Server=server1	UPGSROR
		Node=GXS150REV-	UPGSSAND

Figure 1: JDBC Providers

- 4. Select the **Scope** from the drop-down list. Scope specifies the level at which the resource definition is visible.
- 5. Click **New** to add new JDBC Provider under the **Preferences** section. The **Create new JDBC provider** window is displayed.

Step 1: Create new JDBC provider	Create new JDBC provider
Step 2: Enter database class path information	Set the basic configuration values of a JDBC provider, which encapsulates the specifi- vendor JDBC driver implementation classes that are required to access the database The wizard fills in the name and the description fields, but you can type different values.
Step 3: Summary	Scope cells:GXS150REV- Zone2Node05Cell:nodes:GXS150REV- Zone2Node05:servers:server1
	Oracle     V
	Provider type Oracle JDBC Driver
	Implementation type     Connection pool data source
	Name     Oracle JDBC Driver
	Description
	Oracle JDBC Driver

Figure 2: Create a new JDBC Provider

- 6. Enter the following details:
  - Database Type Oracle
  - Provider Type- Oracle JDBC Driver
  - Implementation Type- Connection pool data source
  - Name- The required display name for the resource
  - Description The optional description for the resource
- 7. Click Next.

	Step 1: Create new JDBC provider	Enter database class path information
•	Step 2: Enter database class path information Step 3: Summary	Set the environment variables that represent the JDBC driver class files, which WebSphere(R) Application Server uses to define your JDBC provider. This wizard page displays the file names; you supply only the directory locations of the files. Use complete directory paths when you type the JDBC driver file locations. For example: Cr\SQLLB\java on Windows(R) or /home/db2inst1/sqllib/java on Linux(TM). If a value is specified for you, you may click Next to accept the value.
		Class path: s(ORACLE_JOBC_ORIVER_PATH)/ojdbc6.jar
		Directory location for "ojdbc6.jar" which is saved as WebSphere variable \$(ORACLE_DBC_ORIVER_PATH) [/oracle/oraidbc/app/oraidbc/product/11.2.0/client_1/idbc/lib

Figure 3: Enter database class path information

- Specify the directory location for "ojdbc<version>.jar" file. Ensure that you do not use the trailing slash file separators.
   The Oracle JDBC driver can be downloaded from the following Oracle Download site:
  - The oracle soble arriver can be downloaded from the following oracle bo
  - Oracle Database 11g Release 2 (11.2.0.4) JDBC Drivers
  - Oracle Database 12c Release 1 (12.1.0.1) JDBC Drivers

Once downloaded, you need to copy the file in the required folder on the server.

Note: See JDBC Jar Files for identifying the correct ojdbc<version>.jar version to be copied.

Once downloaded, you need to place the file in the required folder in your system. While creating the JDBC Provider, ensure that the path to the jar file in the folder is specified in the **Classpath** field in the previous window.

9. Click Next to display the Summary window.

Cre	ate a new JDBC Provider			
	Step 1: Create new JDBC provider Step 2: Enter database class path information Step 3: Summary	Summary Summary of actions:		
•		Scope	cells:GXS150REV-Zone2Node05Cell:nodes:GXS150REV- Zone2Node05:servers:server1	
		JDBC provider name	Oracle JDBC Driver	
		Description	Oracle JDBC Driver	
			Class path	\${ORACLE_JDBC_DRIVER_PATH}/ojdbc6.jar
		s(ORACLE_JDBC_DRIVER_PATH)	/oracle/orajdbc/app/orajdbc/product/11.2.0/client_1/jdbc/lib	
		Implementation class name	oracle.jdbc.pool.OracleConnectionPoolDataSource	

Figure 4: Summary

- 10. Verify the details and click **Finish** to create the JDBC Provider.
- 11. The options to Save and Review are displayed. Click Save.

## **Create Data Source**

The steps given below are applicable for both CONFIG and ATOMIC data source creation.

1. Open the WebSphere admin console in the browser window:

http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login
window is displayed.

- 2. Login with the user id that has admin rights.
- 3. Expand the **Resources** option in the LHS menu and click **JDBC > Data sources** option to display the **Data sources** page.

Scope specifie	plication with connection ty provides a list of tas	wree that is associated with you ons for accessing the database. Ik steps and more general info	Learn more al		atasource
Scope specifie	plication with connection ty provides a list of tas	ons for accessing the database.	Learn more al		atasource
Cell=GX5150		and a second s	mation about		
Scope specifie		II. Node=GXS150REV-Zone2Nod			
			and a server -s		
information o		he resource definition is visible.			
	in what scope is and h	ow it works, see the scope setti	ngs help.		
Node=GXS	150REV-Zone2Node05	5. Server=server1 💙			
ences					
elete Test	connection Man	age state			
# ¥					
		A			
4	~	scope O	Moninger C	Description Q	Category Q
efault ataxource	DefaultDatasource	Node=GX\$150REV- Zone2Node05,Server=server1	Provider	Datasource for the WebSphere Default Application	
CMASTER	Jdbc/FICMASTER	Node=GXS150REV- Zone2Node05.Server=server1	FICMASTER	New JDBC Datasource	
ORFFW	jdbc/RORFFW	Node=3X\$150REV- Zone2Node05,Server=server1	RORFFW	New JDBC Datasource	
ORPNC	Jdbc/RORPNC	Node=GXS150REV- Zone2Node05.Server=server1	RORPIIC	New JDBC Datasource	
PGSPFT	Jdbc/UPGSPFT	Node=GXS150REV- Zone2Node05.Server=server1	UPGSPFT	New JDBC Datasource	
PGSROR	jdbc/UPGSROR	Node=GXS150REV- Zone2Node05.Server=server1	UPGSROR	New JDBC Datasource	
	elete Test elete Test for the control of the cont	Intes elete Test connection Man elete Test connection Man me © 3NDI name © administer the following resources idsuitDatasource fastource DefaultDatasource CMASTER Jdbc/RORFFW CBEPUC Jdbc/RORFFW CBEPUC Jdbc/RORFFW CBEPUC Jdbc/UPGSPFT	Intes  alete Test connection Manage state  alete Test connection Manage state  me O JNDI name O Scope O  administer the following resources:  fault administer the following resources:  fault administer the following resources:  CMASTER Jdbc/FICMASTER Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/RORFFW Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/RORFFW Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/RORFFV Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/UPQSPF Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/UPQSPF Node=0X\$150REV- Zone2Node05,Server=server1  28550 Jdbc/UPQSPF Node=0X\$150REV- Zone2Node05,Server=server1  2015	Intest       alate     Test connection     Manage state       Ital connection     Manage state       Ital connection     Manage state       Ital connection     Scope ()     Provider ()       administer the following resources:     Ital connection     Derby 3DBC       Ital connection     DefaultDatasource     Node=0X\$150REV- Zone2Node05.Server=server1     Derby 3DBC       CMATTER     Jdbc/FICMASTER     Node=0X\$150REV- Zone2Node05.Server=server1     FICMASTER       285FW     Jdbc/RORFFW     Node=0X\$150REV- Zone2Node05.Server=server1     RORFFW       285FW     Jdbc/RORFFIC     Node=0X\$150REV- Zone2Node05.Server=server1     RORFFW       X058FT     Jdbc/UPOSPFT     Node=0X\$150REV- Zone2Node05.Server=server1     RORFFIC       X058FDS     Jdbc/UPOSPFT     Node=0X\$150REV- Zone2Node05.Server=server1     UPOSPFT	Intest       alate     Test connection     Manage state       Image: state     Image: state       Image: state

Figure 5: Data Sources

- 4. Select the **Scope** from the drop down list. Scope specifies the level at which the resource definition is visible.
- 5. Click **New** to display the **Create a Data Source** window.

Step 1: Enter basic data source	Enter basic data source information
information	Set the basic configuration values of a datasource for association with your JDBC
Step 2: Select JDBC provider	provider. A datasource supplies the physical connections between the application server and the database.
Step 3: Enter database specific properties for the	Requirement: Use the Datasources (WebSphere(R) Application Server V4) console pages if your applications are based on the Enterprise JavaBeans(TM) (EJB) 1.0 specification or the Java(TM) Servlet 2.2 specification.
data source	Scope
Step 4: Setup	cells: GXS150REV- Zone 2Node05Cell:nodes: GXS150REV-
security aliases	Zone 2Node05:servers:server1
Step 5: Summary	Data source name
	AtomT
	• JNDI name
	jdbc/DRYMOCK

Figure 6: Create a data source

6. Specify the Data Source name and JNDI name for the new "Data Source".

The **JNDI** and **Data Source name** are case sensitive. Ensure that JNDI name is same as the "Information Domain" name.

7. Click Next to display the Select JDBC provider window.



Figure 7: Select JDBC provider

8. Select the option **Select an Existing JDBC Provider** and select the required JDBC provider from the drop-down list. Click **Next**.

	Step 1: Enter basic data source	Enter database specific properties for the data source			
	information Step 2: Select JDBC provider		c properties, which are required by the database vendor connections that are managed through the datasource.		
•	Step 3: Enter	Name	Value		
	database specific properties for the data source	+ URL	10.184.108.91:1521:ord11g		
		Data store helper class name			
	Step 4: Setup security aliases	Oracle11g data store helper 🤟			
	Step 5: Summary	Use this data source i	Use this data source in container managed persistence (CMP)		

Figure 8: Enter database specific properties

9. Specify the database connection URL.

For Example: jdbc:oracle:thin:@<DB\_SEREVER\_IP>:<DB\_SERVER\_PORT>:<SID>

10. Select Data Store Helper Class Name from the drop-down list and ensure that the checkbox Use this data source in container managed persistence (CMP) is selected.

Note: For RAC configuration, provide the RAC URL specified during installation.

For Example:

```
jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=10.11.12.
13)(port=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=10.11.12.14)(PORT=1521))(LOAD_BALANCE=n
o)(FAILOVER=yes))(CONNECT DATA=(SERVICE NAME=pqadb)))
```

11. Click Next.

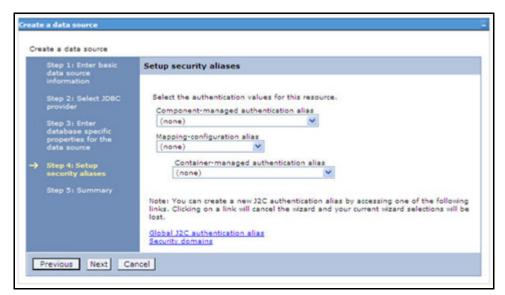


Figure 9: Setup security aliases

12. Map the J2C authentication alias, if already created. If not, you can create a new J2C authentication alias by accessing the link given (**Global J2C authentication alias**) or you can continue with the data source creation by clicking **Next** and then **Finish**.

Step 1: Enter basic data source	Summary	
information	Summary of actions:	
Step 2: Select JDBC provider	Options	Values
Step 3: Enter	Scope	cells:GXS150REV-Zone2Node05Cell:nodes:GXS150REV- Zone2Node05:servers:server1
database specific properties for the	Data source name	AtomT
data source	JNDI name	jdbc/DRYMOCK
Step 4: Setup security aliases	Select an existing JOBC provider	Oracle JDBC Driver
Step 5: Summary	Implementation class name	oracle.jdbc.pool.OracleConnectionPoolDataSource
	URL	jdbcioracleithin:@10.184.108.91:1521:ord11gr2
	Data store helper class name	com.ibm.websphere.rsadapter.Oracle10gDataStoreHelper
	Use this data source in container managed persistence (CMP)	true
	Component-managed authentication alias	(none)
	Mapping-configuration alias	(none)
	Container-managed	(none)

Figure 10: Summary

You can also create and map J2C authentication alias after creating the data source.

13. You must create another Data source by following the above procedure with jdbc/FICMASTER as JNDI name pointing to the "configuration schema" of Infrastructure.

## **J2C Authentication Details**

The steps given below are applicable for creating both config and atomic J2C Authentication.

To create J2C Authentication details:

1. Select the newly created Data Source and click JAAS - J2C authentication data link under Related Items.

	sources > Default Datasource > JAAS ies a list of user identities and passwor		
e p	refix new alias names with the node na	ime of the cell (for compa	itibility with earlier releases)
Apply	7		
	_		
Pre	ferences		
New	Delete		
IB I	0 = 9		
	Alias O	User ID 🗘	Description 🗘
You c	can administer the following resources:		1
	GXS150REV- Zone2Node05/FICMASTER	upgsconf	FICMASTER
	GXS150REV-Zone2Node05/RORFFW	rorffw	
	GXS150REV-Zone2Node05/RORPNC	rorphs	
	GXS150REV-Zone2Node05/UPGSPFT	upgspft	upgspft
	GXS150REV- Zone2Node05/UPGSPRCD	upgsprod	upgsprod
	GXS150REV- Zone2Node05/UPGSROR	upgaror	upgaror
	GXS150REV- Zone2Node05/UPGSSAND	upgssand	upgssand
	GX\$150REV-Zone2Node05/VASTEST	upgsconf	upgsconf

Figure 11: JAAS- J2C authentication data

2. Click New under the Preferences section.

Data sources	
Data sources > Default Datasource > JAAS - J2C authentication data > New	
Specifies a list of user identities and passwords for Java(TM) 2 connector security to use.	
General Properties	
+ Alias	
Atm	
User ID	
upgs73	
Password	
••••••	
Description	
Atomic Instance	
Apply OK Reset Cancel	

Figure 12: JAAS- J2C authentication data- New

- 3. Enter the Alias, User ID, Password, and Description. Ensure the following:
  - User ID is the Oracle user ID created for the respective CONFIG and ATOMIC Schema for the "Information Domain".
  - Specify the CONFIG database user ID and password information for the jdbc/FICMASTER data source, and specify the ATOMIC database user ID and password information for the ATOMIC schema data source that you created earlier.
- 4. Click Apply and save the details.

## **JDBC Connection Pooling**

To define the JDBC connection pooling ensure that you have created JDBC Provider and Data source to access the data from the database.

- 1. Expand the **Resources** option in the LHS menu and click JDBC > Data sources option to display the Data sources page.
- Click the newly created Data Source \$DATA\_SOURCE\$ and navigate to the path Data sources > \$DATA\_SOURCE\$ > Connection pools.

ight warrant changin		values carefully; your application requirements
onfiguration		
General Properties		
Scope		Additional Properties
	de01Cellinodes:ipa26dorNode01:se	ervers:server1 = Advanced connection pool
+ Connection time	out	properties
þ	seconds	Connection pool
+ Maximum conne	ctions	custom properties
100	connections	
+ Minimum conne	tions	
10	connections	
* Reap time		
100	seconds	
+ Unused timeout		
1800	seconds	
+ Aged timeout		
0	seconds	
Purge policy		
EntirePool	×	

**Figure 13: Connection Pools** 

- 3. Set the values for the following:
  - Connection timeout to 0 seconds
  - Maximum connections to 100 connections
  - Minimum connections to 10 connections

You can also define Reap Time, Unused Timeout, and Aged Timeout as required.

## Configure Resource Reference in WebLogic Application Server

This section is applicable only when the Web Application Server is WebLogic.

This section includes the following topics:

- Create Data Source
- Create GridLink Data Source
- Configure Multi Data Sources
- Advanced Settings for Data Source
- JDBC Connection Pooling

In WebLogic, you can create "Data Source" in the following ways:

- For a Non RAC Database instance, Generic Data Source has to be created. For more information, see Create Data Source.
- For a RAC Database instance, Gridlink Data Source has to be created. For more information, see Create GridLink Data Source.
- When Load Balancing/Fail over is required, Multi Data Source has to be created. For more information, see Configure Multi Data Sources.

## **Create Data Source**

The steps given below are applicable for both config and atomic data source creation.

1. Open the WebLogic admin console in the browser window:

http://<ipaddress>:<administrative console port>/console. (https if SSL is enabled). The Login
window is displayed.

2. Login with the Administrator Username and Password.

ORACLE WebLogic Server® 11g Administration Console	
2112	Welcome Log in to work with the Welcogic Server domain Username: Paseword: Logm
Weblangi: Server Wesleri (10.3.5.0 Capyright & 2095):200, Sanka and/or Ib efficies. All rights reserved. Oracle & a seguilated trademark. of Deale Corporation and/or Ib efficies. Other names may be trademark	As al their respective pomers.

Figure 14: Welcome

 From the LHS menu (Domain Structure), click Services > Data Sources to display the Summary of JDBC Data Sources window.

Thange Center	🖨 Home Log-Out Pheferences 🚂 R	lected Help	Welconse, manager Connected to: H		
New changes and restarts	Hote chemisary of XDBC Data Series				
Configuration editing is enabled. Future dranges will automatically be activated as you modify, add or delete items in this domain.	Summary of XOC Data Sources				
Iomain Structure	A XIIC data source is an elast bound to the XEI tree that provides database connectivity through a pool of XIIC connections. Applications can look up a data source on the XEI tree and then borrow a database connection from a data source.				
tudbil A B Chrissment - Depkonents B Senius B Pessaging B-200C	The page summarges the XDC data is Contomize this Lable Data Sources(Filtered - More Cal	source digets that have been created in the daman. Ammes Exist)			
- Data Sources - HultiData Sources	New Delete		Showing 1 to 1 of 1. Previous   N		
- Eata Source Factories Terrotent Stores	Rene in	INGE Name	Targets		
-Parego 26E Providers -Wolk Contents	SI SATOM	stx/DEMON/	AdmitriServer		
- 10% Repúties - 10% frate Carbon	New Delete		Showing   to   of   Previous   5		
toe do L. I	<u> </u>				
Create XDC data rources     Delete XDC data rources					
System Status II	i i i i i i i i i i i i i i i i i i i				
Health of Hunning Servers					
Failed (0) Orbical (0)					
Cverkaded (0)					
Warning (2)					
OK 00					

Figure 15: Summary of JDBC Data Sources

4. Click New and select Generic Data Source option to display the Create a New JDBC Data Source window.

You can also select **GridLink Data Source** or **Multi Data Source** while creating a Data Source. For more information, see Create GridLink Data Source or Configure Multi Data Sources.

<b>JDBC Data Source Proper</b>	lies	
	e used to identify your new 308C data source.	
Indicates required fields	e used to rotenery your men upon, para source.	
What would you like to name y	our new 308C data source?	
🔁 * Name:	ATOMSTSOL	
	to assign to your new JDBC Data Source?	
🛃 JNDI Name:	an analy in the risk see one could	
JNDI Name: jdbc/ATOMSTSOL		
	2	

Figure 16: Create a New JDBC Data Source

5. Enter JDBC data source Name, JNDI Name, and select the Database Type from the drop-down list. Click Next.

Ensure the following:

- The JNDI Name field should be in the format "jdbc/informationdomain"
- Same steps needs to be followed to create a mandatory data source pointing to the "configuration schema" of infrastructure with jdbc/FICMASTER as JNDI name.
- JNDI Name is the same as mentioned in web.xml file of OFSAAI Application.
- Required "Database Type" and "Database Driver" should be selected.

Back Next Front	Cancel
JDBC Data Source P	roperties
The following propertie	s will be used to identify your new JDBC data source.
Database Type:	Orade
What database driver w	ould you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.
Database Driver:	*Oracle's Driver (Thin XA) for Instance connections; Versions:9.0.1 and later
Back Next Froist	[ Annal

#### Figure 17: JDBC Data Source Properties

6. Select the **Database Driver** from the drop-down list. You need to select the Database Driver depending on database setup, that is, with or without RAC. Click **Next**.

Transaction Options         You have selected non-XA 208C driver to preate database connection in your new data source.         Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.         Supports Global Transactions         Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the Logging Last Resource (LR) transaction optimization.         Logging Last Resource         Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the Logging Last Resource (LR) transaction optimization.         Imaging Last Resource         Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using 3TA. Select this option only if your application can	Create a New JDBC Data Source	
You have selected non-XA 208C driver to create database connection in your new data source.         Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.         Image: Supports Global Transactions         Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction optimization.         Image: Logging Last Resource         Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can observate conditions.         Image: Emulate Two-Phase Commit         Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can observate conditions.         Image: Emulate Two-Phase Commit         Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using JTA. Select this option only if your application can observe the emulate participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.         Or Dee-Phase Commit	Back Next Fresh Cancel	
Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.  Supports Global Transactions Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction optimization.  C Logging Last Resource Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using 3TA. Select this option only if your application can be select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using 3TA. Select this option only if your application can be select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using 3TA. Select this option only if your application can be select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the one-phase commit be select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.  O Commit	Transaction Options	
Supports Global Transactions Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the Logging Last Resource (LR) transaction optimization. Logging Last Resource Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can be emulate Two-Phase Commit Elect this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can be emulate Two-Phase Commit Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.  O ConcePhase Commit	You have selected non-XA 3DBC driver to	preate database connection in your new data source.
Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the <i>Lagging Last Resource</i> (LLR) transaction optimization.  C Logging Last Resource Select this option if you want to enable non-XA 208C connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can  benefits the unstance of the source of the source to emulate participation in global transactions using JTA. Select this option only if your application can  benefits the two-Phase Commit Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the one-phase commit  Select this option if you want to enable non-XA 208C connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no  other resources can participate in the global transaction.  O Over-Phase Commit	Does this data source support global transa	ctions? If yes, please choose the transaction protocol for this data source.
Recommended in place of Emulate Two-Phase Commit.	Supports Global Transactions	
Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can blerate heuristic conditions. © Emulate Two-Phase Commit Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction. @ One-Phase Commit	Select this option if you want to enable non Recommended in place of Emulate Two-Pha	XA 208C connections from the data source to pertopate in global transactions using the Logging Last Resource (LLR) transaction optimization, se Commit.
Emulate Two-Phase Commit     Emulate Two-Phase Commit Select this option if you want to enable non-XA JOBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.     One-Phase Commit	O Logging Last Resource	
Select this option if you want to enable non-WA 208C connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.	Select this option if you want to enable non tolerate heuristic conditions.	IXA 208C connections from the data source to emulate participation in global transactions using 3TA. Select this option only if your application can
One-Phase Commit	O Emulate Two-Phase Commit	
Back, Next, Frinn Cancel	One-Phase Commit	
	Back Next Frish Cancel	
	and here here here here here here here her	

#### Figure 18: Transaction Options

- 7. Select the Supports Global Transactions checkbox and the One-Phase Commit option.
- 8. Click Next to display the Connection Properties window.

reate a New JDBC Data Source		
Back Next Fresh Cancel		
Connection Properties Define Connection Properties.		
What is the name of the database you would like t	a connect to?	
Database Name:	fsgbu	
What is the name or IP address of the database s	erver?	
Host Name:	10.184.74.80	
What is the port on the database server used to o	onnect to the database?	
Port:	1521	
What database account user name do you want t	use to create database connections?	
Database User Name:	ssatom	
What is the database account password to use to	create database connections?	
Password:	•••••	
Confirm Password:	••••••	
Back Next Front Cancel		

#### Figure 19: Connection Properties

- 9. Enter the required details such as the Database Name, Host Name, Port, Oracle User Name, and Password.
- 10. Click Next to display the Test Database Connection window.

#### Configure Resource Reference in WebLogic Application Server Appendix L—Configuring Resource Reference Web Application Servers

Create a New JDBC Data Source	
Test Configuration Back Next Finish C	ancel
Test Database Connection	
Test the database availability and the connection p	apertes you provided.
What is the full package name of 3DBC driver class up	ed to create database connections in the connection pool?
(Note that this driver class must be in the classpath of	f any server to which it is deployed.)
Driver Class Name:	oracle jdbc.OracleDriver
What is the URL of the database to connect to? The	brmat of the URL varies by 308C driver.
URL:	jdbc oracle thin @10.184
What database account user name do you want to u	e to create database connections?
Database User Name:	ssatom
What is the database account password to use to on	ate database connections?
(Note: for secure password management, enter the	assevend in the Paseward field instead of the Properties field below)
Password:	
Confirm Password:	
What are the properties to pass to the JDBC driver w	en matino database connections?
Properties	
user-spaton	
	10
L	
The set of driver properties whose values are derived	at runtime from the named system property.
System Properties:	
	21 21
What table name or SQL statement would you like to	se to test database connections?
Test Table Name:	
SQL SELECT 1 FROM DUAL	
Test Configuration Back Next Finan C	ncel
Transformer Laws Dear Lings 17	

Figure 20: Test Database Connection

11. Verify the details and click **Test Configuration** and test the configuration settings.

A confirmation message is displayed stating "Connection test succeeded."

12. Click Finish. The created "Data Source" is displayed in the list of Data Sources.

Note: "User ID" is the Oracle user ID that is created for the respective "Information Domain".

"User ID" to be specified for data source with "FICMASTER" as "JNDI" name should be the Oracle user ID created for the CONFIG schema.

13. Select the new Data Source and click the Targets tab.

Back Reet Targets Select Targets You can select one or more targets to deploy your new JOBC data source. If you don't select a target, the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed. You will need to deploy the data source will be created but not deployed.
at a later time.
Servers       Ø       AdminServer

Figure 21: Select Targets

14. Select the AdminServer option and click Finish.

## **Create GridLink Data Source**

If you have selected the option, **New > GridLink Data Source** while creating the "Data Source", you can directly specify the JDBC URL as indicated.

reate a New JDBC GridLink			
Each Next Frish Ca	incel		
3DBC GridLink Data Source	e Properties		
The following properties will be Indicates required fields	e used to identify your new JDBC Gri	durk data source.	
What would you like to name y	our new 308C GridLink data source?		
🔁 * Name:	xyz		
Nhat 3400 name would you like	e to assign to your new 308C GridUni	k data source?	
JNDI Name:			
jdbo/xyz			
What database type would you	u like to select?	-	
Database Type:	Oracle		
Is this XA driver?			
XA Driver			

Figure 22: Create a New JDBC GridLinkData Source

1. Enter Data Source Name, and JNDI Name.

Ensure that the "JNDI Name" field is specified in the format "jdbc/infodomname" and the **XA Driver** checkbox is not selected. Click **Next**.

database connections?	
se connections?	
	te database connections?

Figure 23: JDBC GridLinkData Source- Connection Properties

2. Specify **Complete JDBC URL**, **Database User Name**, and **Password**. Click **Finish**. The created "Data Source" is displayed in the list of Data Sources.

## **Configure Multi Data Sources**

A JDBC multi data source is an abstraction around a group of data sources that provides load balancing and failover between data sources. As with data sources, multi data sources are also bound to the JNDI tree. Applications can look up a multi data source on the JNDI tree and then reserve a database connection from a data source. The multi data source determines from which data source to provide the connection.

When the database used is Oracle RAC (Real Application Clusters) which allows Oracle Database to run across a set of clustered servers, then group of data sources can be created for instances running on a set of clustered servers and a JDBC multi data source can be created so that applications can look up a multi data source on the JNDI tree to reserve database connection. If a clustered server fails, Oracle continues running on the remaining servers.

1. Open the WebLogic admin console in the browser window:

http://<ipaddress>:<administrative console port>/console. (https if SSL is enabled). The Login
window is displayed.

- 2. Login with the "User ID" that has admin rights.
- In the LHS menu (Domain Structure), select Services > JDBC > Multi Data Sources to display the Summary of JDBC Multi Data Sources window.

to the 2	C multi data source is an 2001 tree. Applications to provide the connect	can look up a multi data source on the 3400 tree -	provides load balancing and fallover between data source and then reserve a database connection from a data source	s. As with data sources, multi data sources are ce. The multi data source determines from which	aiso bound h data
ise the	is page to create or view	n multi data sources in your domain.			
Instead	unting Phis Pable				
	omize this table Data Sources(Filteres	d - Hore Columns Exist)			
tulti D		d - Hore Columns Exist)		Showing 1 to 2 of 2 Prev	rious   Nex
tulti D	Data Sources(Filtered	d - Hore Columns Exist) JND1 Name	Algorithm Type	Showing 1 to 2 of 2 Prev Targets	ious   Nex
New	Data Sources(Filterer		Algorithm Type Load-Balancing		vious   Neo

Figure 24: Summary of JDBC Multi Data Sources

4. Click New to display the New JDBC Multi Data Source screen.

**Note:** Ensure that the Data Sources which needs to be added to new JDBC Multi Data Source has been created.

reate a New JDBC Hulti Data Sou	rce	
Tech Next Front Cancel		
Configure the Hulti Data Source		
The following properties will be used	to identify your new 308C multi data source.	
What would you like to name your new	308C multi data source?	
de Name:	JDBC Multi Data Source-0	
What 34DE name would you like to ass	ign to your new 308C multi data source?	
jdbo/infodomname		
What algorithm type for this 308C Mu	ti Data Source mould you like to select?	
Algorithm Type:	Load-Balancing 💌	
Sack Next Frist Cancel		

#### Figure 25: Configure the Multi Data Source

5. Enter the JDBC Source Name, JNDI name, and select the Algorithm Type from the drop-down list. Click Next.

**Note:** The JNDI Name has to be specified in the format jdbc/infodomname.

JNDI Name of the Data Sources that will be added to new JDBC Multi data source should be different from the JNDI name specified during Multi Data Source.

Same steps needs to be followed to create a mandatory data source pointing to the "configuration schema" of infrastructure with jdbc/FICMASTER as JNDI name for Data Source.

Same steps needs to be followed to create a mandatory data source pointing to the "configuration schema" of infrastructure with jdbc/FICMASTER as JNDI name for Data Source.

JNDI Name provided in multi data source should be the same name that will be mentioned in the web.xml file of OFSAAI Application.

You can select the Algorithm Type as Load-Balancing.

Back         Frank         Cancel           Select Targets         You can select one or more targets to deploy your new 208C Multi Data Source.           Servers         Servers           ✓ AdminServer         Servers	Create a New JDBC Hulti Data Source		
You can select one or more targets to deploy your new 328C Multi Data Source. Servers	Back Next Finit Cancel		
Servers			
	You can select one or more targets to deploy your new 208C MUIS Data	a Source.	
AdminServer	Servers		
	AdminServer		
	Back Next Frish Cancel		

#### Figure 26: Select Targets

6. Select the **AdminServer** check box and click **Next**.

Create a New JDBC Hulti Data Source	
Back, Next, Front, Cancel	
Select Data Source Type	
Please select type (VA or Non-VA) of data source you would like to add to your new XDBC Multi Data Source.	
O XA Driver	
③ Non-XA Driver	
Back, Next, Trink Cancel	

#### Figure 27: Select Data Source Type

7. Select the type of data source which will be added to new JDBC Multi Data Source. Click Next.

Back Tiest Frish Can	241		
Add Data Sources			
What JOBC Data Sources you	Id you like to add to your new 308C !	Multi Data Source?	
Data Sources:			
Available	Chosen		
RCR2 RUSION1 RUSION2 RUSIONRH	> RORI		
Create a New Data Source			
Create a New Data Source			

#### Figure 28: Add Data Sources

8. Map the required Data Source from the Available Data Sources. Click **Finish**.

The New JDBC Multi Data Source is created with added data sources.

## **Advanced Settings for Data Source**

- 1. Click the new Data Source from the **Summary of JDBC Data Sources** window. The Settings for *<Data Source Name>* window is displayed.
- 2. Select the Connection Pooling tab given under Configuration.
- 3. Go to the **Advanced** option at the bottom of the page, and check the **Test Connection of Reserve** checkbox (Enables Weblogic Server to test a connection before giving it to a client).
- 4. To verify if the data source is valid, select "Data Source name". For example, FICMASTER.

onfiguration	in in year	riomorning	Control	Security	rigges	
tatistics	Testing					
lise this pag	ge to test data	soase connectio	ns n ths A	JOL CASA SOU	rce.	
Customize	e this table Source (Filte	ered - Hore Co			rce.	
Customize est Data 1 Test Data	e this table Source (Filte				rce.	State

Figure 29: Settings for <Data Source Name>

5. Select the server and click **Test Data Source**.

A message is displayed indicating that the test was successful.

- 6. Once the "Data Source" is created successfully, the following messages are displayed:
  - All changes have been activated. No restart is necessary.
  - Settings updated successfully.

If not, follow the steps given above to recreate the data source.

## **JDBC Connection Pooling**

To define the JDBC connection pooling, ensure that you have created JDBC Provider and Data source to access the data from the database.

- 1. Click the newly created Data Source \$DATA\_SOURCE\$ and navigate to the path Home >Summary of Services: JDBC >Summary of JDBC Data Source >JDBC Data Source -<INFODDOM\_NAME>
- 2. Set the values for Initial Capacity to 10, Maximum Capacity to 100, Capacity Increment by 1, Statement Cache Type to LRU, and Statement Cache Size to 10.
- 3. Click Save.

## Configure Resource Reference in Tomcat Application Server

This section is applicable only when the Web Application Server is Tomcat.

This section includes the following topics:

- Create Data Source
- JDBC Connection Pooling
- Class loader configuration for Apache Tomcat

Copy the Oracle JDBC driver file, ojdbc<version>.jar from <Oracle Home>/jdbc/lib and place it in <Tomcat Home>/lib.

Note: See Appendix S for identifying the correct ojdbc<version>.jar version to be copied.

## **Create Data Source**

To create "data source" for OFSAA application, navigate to <Tomcat Home>/conf and edit the following block of text by replacing the actual values in server.xml.

**Note:** The User-IDs for configuration/ atomic schemas have the prefix of setupinfo depending on the value set for PREFIX\_SCHEMA\_NAME in <<APP Pack>>\_SCHEMA\_IN.XML file of Schema Creator Utility.

For example: if the value set for PREFIX\_SCHEMA\_NAME is DEV and the schema name was mentioned as ofsaaconf, then the actual schema created in the database would be DEV\_ofsaaconf.

```
<Context path ="/<context name>" docBase="<Tomcat Installation
Directory>/webapps/<context name>" debug="0" reloadable="true" crossContext="true">
<Resource auth="Container"
   name="jdbc/FICMASTER"
   type="javax.sql.DataSource"
   driverClassName="oracle.jdbc.driver.OracleDriver"
   username="<user id for the configuration schema>"
   password="<password for the above user id>"
   url="jdbc:oracle:thin:@<DB engine IP address>:<DB Port>:<SID>"
   maxActive="100"
   maxIdle="30"
   maxWait="10000"/>
<Resource auth="Container"
   name="jdbc/< INFORMATION DOMAIN NAME >"
type="javax.sql.DataSource"
   driverClassName="oracle.jdbc.driver.OracleDriver"
   username="<user id for the atomic schema>"
   password="<password for the above user id>"
```

```
url="jdbc:oracle:thin:@<DB engine IP address>:<DB Port>:<SID>"
maxActive="100"
maxIdle="30"
maxWait="10000"/>
</Context>
```

**Note:** The <Resource> tag must be repeated for each Information Domain created. After the above configuration, the "WAR" file has to be created and deployed in Tomcat.

## **JDBC Connection Pooling**

To define the JDBC connection pooling, do the following:

1. Copy \$ORACLE\_HOME/jdbc/lib/ojdbc<version>.jar to the path \$TOMCAT\_DIRECTORY/lib/.

Note: Refer JDBC Jar Files for identifying the correct "ojdbc<version>.jar" version to be copied.

2. Edit the server.xml present under the path *\$TOMCAT\_DIRECTORY/conf/* with the below changes, which is required for connection pooling.

```
<Context path="/ $CONTEXTNAME$" docBase=" $APP_DEPLOYED_PATH$ " debug="0"
reloadable="true" crossContext="true">
    <Resource auth="Container"
    name="jdbc/ $INFODOM_NAME$"
    type="javax.sql.DataSource"
    driverClassName="oracle.jdbc.driver.OracleDriver"
    username=" $ATOMICSCHEMA_USERNAME$"
    password="$ATOMICSCHEMA_PASSWORD$"
    url="$JDBC_CONNECTION_URL"
    maxActive="100"
    maxIdle="30"
    maxWait="10000"
    removeAbandoned="true" removeAbandonedTimeout="60"
    logAbandoned="true"/>
    <//context>
```

#### Note the following:

- \$APP\_DEPLOYED\_PATH\$ should be replaced by OFSAAI application deployed path.
- \$INFODOM\_NAME\$ should be replaced by Infodom Name.
- \$ATOMICSCHEMA\_USERNAME\$ should be replaced by Atomic schema database user name.
- \$ATOMICSCHEMA\_PASSWORD\$ should be replaced by Atomic schema database password.
- \$JDBC\_CONNECTION\_URL should be replaced by JDBC connection string jdbc:Oracle:thin:<IP>:<PORT>:<SID>. For example, jdbc:oracle:thin 10.80.50.53:1521:soluint
- The User-IDs for configuration/ atomic schemas have the prefix of setupinfo depending on the value set for PREFIX\_SCHEMA\_NAME in <<APP Pack>>\_SCHEMA\_IN.XML file of Schema Creator Utility.

For example: if the value set for PREFIX\_SCHEMA\_NAME is DEV and the schema name was mentioned as ofsaaconf, then the actual schema created in the database would be DEV ofsaaconf.

## **Class loader configuration for Apache Tomcat**

Edit the server.xml available in *\$TOMCAT\_HOME/conf/* folder.

Add tag <Loader delegate="true" /> within the <Context> tag, above the <Resource> tag. This is applicable only when the web application server is Apache Tomcat 8.

**Note:** This configuration is required if Apache Tomcat version is 8.

## **APPENDIX M** Post Deployment Configuration

This chapter covers the following topics:

- Deploying the Application
- Logging as System Administrator
- Creating Application Users
- Mapping Application User(s) to User Group
- Change ICC Batch Ownership
- Mapping ICC Batch Execution Rights to User
- Saving Post- Load Change Transformations

## Deploying the Application

## **Deploying FTP Application**

The Oracle Financial Services Analytical Applications Infrastructure Application Server is started using reveleusstartup.sh. This file can be edited for setting customized memory settings, garbage collector settings depending on the available hardware configuration. Please raise an SR in support.Oracle.com if you have any queries related to EPM applications.

Once the installation of Oracle Financial Services Funds Transfer Pricing Management Product is completed, you must perform the following steps:

- 1. Check the Log file.
- Add the below mentioned entries in excludeURLList.cfg file located in the path *\$FIC\_WEB\_HOME/webroot/conf/*. These entries are required for Asset and Liability Management, Funds Transfer pricing, Profitability Management and Hedge Management/ IFRS:

```
[SQLIA]./fsapps/common/batchCreate.action
[SQLIA]./fsapps/common/batchEdit.action
```

**Note:** Copy the above information into notepad, and then copy it from notepad into cfg file. Take extra care to avoid copying formatting characters into the cfg file.

3. For Administrative Reports (Admin BI) configuration follow the steps mentioned in Oracle Financial Services Administrative Reports on OBIEE 11g v8.0.2.0.0 - Configuration Note.docx under *\$FIC\_HOME/adminbi/*.

**Note:** You can also find the Oracle Financial Services Administrative Reports on OBIEE 11g v8.0.2.0.0 - Configuration Note on OHC.

4. The web.xml under the path *\$FIC\_WB\_HOME* \*webroot*\*WEB-INF*\ should have Resource tag, if not present add the tag and replace ORDEMO with the INFODOM name.

<resource-ref> <description>DB ConnectionORDEMO</description> <res-ref-name>jdbc/ORDEMO</res-ref-name> <res-type>javax.sql.DataSource</res-type> <res-auth>Container</res-auth> </resource-ref>

**Note:** Copy the above information into notepad, and then copy it from notepad into cfg file. Take extra care to avoid copying formatting characters into the cfg file.

5. Execute below script as a post installation step:

\$FIC HOME/scripts/atomic/create/indexes.sql

Note: This may display some ORA errors, those can be ignored.

- 6. If there are ICC batch processes created having roll\_portfolio and rebalance\_portfolio DTs as the tasks, the parameter list of the DTs are to be updated as:
  - If the parameters for roll portfolio are '70001', 'TP', 'TP USER1', change the parameters as : ",",",",", '70001', 'TP', 'TP USER1'.
  - If the parameters for re-balance portfolio are '70001', '2', 'TP USER1', 'TP' change the parameters as: ",",",",",70001', '2', 'TP USER1', 'TP'.

Task Definition					۲
Batch Maintenance > Ta	ask Definition (Add)				
☆ Task Definition					
Task ID	Task1		Description		
Components	TRANSFORM DATA				,
* Dynamic Param	eters List				
Property			Value		
Datastore Type			EDW	*	
Datastore Name			EPM62DEV	*	
IP Address			10.184.134.17	*	
Rule Name			Roll Portfolio	~	
Parameter List			",",",",",70001', 'TP', 'TP USER1'		

An example as of Merge Portfolio is given below:

- Run ID: when running via ICC batch and Simplified batch process, this parameter can be passed as ".
- Process ID: when running via ICC batch and Simplified batch process, this parameter can be passed as "
- Execution ID: when running via ICC batch and Simplified batch process, this parameter can be passed as "
- Run Surrogate Key: when running via ICC batch and Simplified batch process, this parameter can be passed as "
- Pattern Code, for example, '70001'
- FTP User, for example, 'TP USER 1'

- Application ID, for example, 'TP' (this is a static value)
- When to merge (roll versus rebalance): when running via ICC batch and Simplified batch process, this parameter should always be 'N'. Maturity date identifying maturing strips to be merged on roll : when running via ICC batch and Simplified batch process, this parameter should always be "

These parameters would appear as follows in the simplified batch parameter input block:

",",",",",'70001', 'TP USER 1', 'TP', 'N', "

oThe parameter pattern to be used when RP batches are scheduling from the Run Rule Framework. When executing from the Run Rule Framework, the user does not have to pass the Run ID, Process ID, Execution ID, and Run Surrogate Key, as the framework itself passes these values along with the Batch ID and MISDATE. The parameters would appear as follows:

"70001","TP USER 1","TP","N",""

- 7. Transfer the ownership of batches to the required User.
  - a. Login to config user.
  - b. Execute the Following anonymous pl/sql block to execute procedure "AAI\_OBJECT\_ADMIN.TRANSFER\_BATCH\_OWNERSHIP".

```
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP('fromUser','toUser','infodom');
end;
OR
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP('fromuser','touser');
end;
```

Parameter details:

- fromUser: indicates the user who currently owns the batch
- to User: indicated the user to which the ownership has to be transferred.
- infodom: optional parameter , if specified the ownership of batches pertaining to that Infodom will be changed.
- 8. If the web application server is hosted on a machine other than where pack is installed, then perform the following step.
  - Generate RSA key for the machine where Web application server is hosted.
  - Add the generated RSA key to the authorized keys list of the machine where Pack s installed.

## **Deploying PFT Application**

The Oracle Financial Services Analytical Applications Infrastructure Application Server is started using reveleusstartup.sh. This file can be edited for setting customized memory settings, garbage collector settings depending on the available hardware configuration. Please raise an SR in support.Oracle.com if you have any queries related to EPM applications.

Once the installation of Oracle Financial Services Profitability Management Product is completed, you must perform the following steps:

- 1. Check the Log file.
- Add the below mentioned entries in excludeURLList.cfg file located in the path *\$FIC\_WEB\_HOME/webroot/conf/*. These entries are required for Asset and Liability Management, Funds Transfer pricing, Profitability Management and Hedge Management/ IFRS:

[SQLIA]./fsapps/common/batchCreate.action

[SQLIA]./fsapps/common/batchEdit.action

- 3. For Administrative Reports (Admin BI) configuration follow the steps mentioned in Oracle Financial Services Administrative Reports on OBIEE 11g Configuration Note.docx under *\$FIC\_HOME/adminbi*.
- 4. The web.xml under the path *\$FIC\_WB\_HOME* \*webroot*\*WEB-INF*\ should have Resource tag, if not present add the tag and replace ORDEMO with the INFODOM name.

```
<resource-ref>
<description>DB ConnectionORDEMO</description>
<res-ref-name>jdbc/ORDEMO</res-ref-name>
<res-type>javax.sql.DataSource</res-type>
<res-auth>Container</res-auth>
</resource-ref>
```

**Note:** Copy the above information into notepad, and then copy it from notepad into cfg file. Take extra care to avoid copying formatting characters into the cfg file.

5. Execute below script as a post installation step:

\$FIC\_HOME/scripts/atomic/create/indexes.sql

Note: This may display some ORA errors, those can be ignored.

- 6. Transfer the ownership of batches to the required User.
  - a. Login to config user.
  - b. Execute the Following anonymous pl/sql block to execute procedure "AAI\_OBJECT\_ADMIN.TRANSFER\_BATCH\_OWNERSHIP".

```
begin
```

```
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP('fromUser','toUser','infodom');
```

```
end;
```

OR

```
begin
```

```
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP('fromuser','touser');
```

end;

Parameter details:

- fromUser: indicates the user who currently owns the batch
- to User: indicated the user to which the ownership has to be transerred.
- infodom: optional parameter , if specified the ownership of batches pertaining to that Infodom will be changed.

- 7. If the web application server is hosted on a machine other than where pack is installed, then perform the following step.
  - Generate RSA key for the machine where Web application server is hosted.
  - Add the generated RSA key to the authorized keys list of the machine where Pack s installed

## **Deploying EFPA/ IPA/ RPA Applications**

Ensure that the Oracle Business Intelligence version 11.1.1.7.1 is available.

**Note:** After Installation, patch 16556157 is recommended for all the customers who are using Oracle Business Intelligence Enterprise Edition 11.1.1.7.0. This patch can be downloaded from Oracle support site.

1. Set the <Oracle BI Instance Home> directory> =>.

For example: /u01/OBIEE11G/instances/instance1

- 2. Start Weblogic AdminServer.
  - a. Set the < BI Domain Home> directory> => e.g.

/u01/OBIEE11G/user\_projects/domains/bifoundation\_domain.

- b. Navigate to < BI Domain Home >/bin and run 'nohup ./startWebLogic.sh &'
- c. Bringing up this service may take a few minutes depending on your environment. Check the logs using the command 'tail -f nohup.out'
- 3. Start Node Manager.
  - a. Set the < WebLogic Server Home > directory> => e.g.
    - /u01/OBIEE11G/wlserver\_10.3.
  - b. Navigate to <WebLogic Server Home>/server/bin and run 'nohup ./startNodeManager.sh &'.
- 4. Start Weblogic Managed Server(bi\_server1).
  - a. Login onto *http://localhost:7001/console* using your Administrator credentials created during platform install (Replace the hostname based on your setup).
  - b. Under Environment block (mid of page, towards left side), click on Servers link.



c. The bi\_server1 line should show as shutdown state at this point.

Server 🗞	Machine	State	Status of Last Action
AdminServer(admin)	laliv-lap	RUNNING	None
bi_server1	laliv-lap	SHUTDOWN	TASK COMPLETED

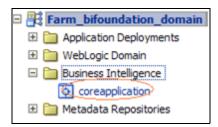
d. Click on control page tab.

Summary of Se	ervers
Configuration	Control

- e. Select the bi\_server1 line by clicking on the left tick box,
- f. Click start button at the top of the list and confirm starting this service

5	Servers (Filtered - More Columns Exist)									
	Start Resume Suspend V Shutdown V Restart SSL									
		Server 🗞	Machine	State						
		AdminServer(admin)	laliv-lap	RUNNING						
	<b>&gt;</b>	bi_server1	laliv-lap	SHUTDOWN						
<	Start Resume Suspend > Shutdown > Restart SSL									

- g. State will update to "RUNNING" mode after a few minutes.
- 5. Start BIEE services and login.
  - a. Starting services From EM screen.
    - i. Log in to the EM administration screen using the url *http://localhost:7001/em* (Replace the hostname and port number based on your setup). Use the login you created in BIEE installation to log in.
    - ii. Expand 'Business Intelligence' node on the left and choose Coreapplication.



iii. Click on the Overview Tab.

Change Center:   PLock and Edit Configuration							
Overview Capacity Management	Diagnostics Secu	urity Deployment					
System Shutdown & Startup							
(h)	100%	∎ <sup>Up</sup> (5)					
s	System Components						
System Status	Manage Sys	tem					
All components are available	Start	Stop Restart					

- iv. Click on blue button 'Restart' (or green button 'Start' ) under the Manage System category, middle of screen.
- v. Click yes on dialog box to confirm the move. Wait for message that confirms successful restart.
- b. If starting using EM is not successful and complaining about OPMNCTL not up, Follow starting process with OPMNCTL.
  - i. Open a command prompt, navigate to *Oracle BI Instance Home>/bin*.
  - ii. run "./opmnctl status, this will show you status of all the OBIEE core services.
  - iii. run "./opmnctl startall" or "./opmnctl stopall" depending on your need.
- 6. Deploy RPD and webcat file(s).
  - a. Copy OFS\_PFT\_PACK.rpd from *\$FIC\_HOME/OFSPFTPACKBI/OBIEE11G* of Web layer to windows machine where the OBIEE windows administration client is installed.

Copy these catalog files to the local folder, where OFS\_PFT\_PACK.rpd has been copied.

- b. Login to OBIEE Enterprise Manager URL (*http://<ip address>:<port>/em*).
  - i. Click on hyperlink 'coreapplication' from 'Business Intelligence' tab on left hand side.
  - ii. Under 'coreapplication', select the tab 'Deployment' and in that select sub-tab 'Repository'.
  - iii. Click 'Lock and Edit Configuration' button located below title 'coreapplication'. Following screen is displayed.

	Coreapplication  Conservation  Conservation	Logged in as webling Page Refreshed May 14, 2012 13-34-33 AM 25T <sup>1</sup>	
Activate Changes	Change Center P 🔄 Activate Changes 🔰 Release Configuration 🛕 Restart to apply recent changes	3	
	Overview Capacity Management Diagnostics Security Deployment		
	Presentation Repository Scheduler Harleting Hal		
	BI Server Repository This section shows the current installed RPO. You can use this section to configure a shared RPO location. Default RPO DevicitME (Jackgebefmst.RMsharges_BI3120 Share Repository Shared Location	Acely	Apply Button
	Upload BI Server Repository		
	Use this section to upload a new RVD and its password to your BS Server domain. You may also use this section to re-enter the password if a mist Repository File  Repository Password  Currhim Password  Currhim Password	take was made on a previous upload.	
	BI Presentation Catalog		
Catalog location	This section shows the current location of the catalog used by Presentation Services. Use this section to change the location of the catalog, or to location. Catalog Location gOBACLE_INSTANCE_Information/Or adetOnesentationServicesComponent/\$COMPORENT_INAME.locationgL	s share the catalog by pointing to a shared	

- iv. **RPD Deployment**: Select 'Browse' button available under 'Upload BI Server Repository' section and select OFS\_PFT\_PACK.rpd file from the local folder. Enter Repository password Admin123.
- v. Web catalog Deployment:
  - Open the analytics OBIEE URL-(http://<ipaddress>:<port>/analytics) and login with the credentials.
  - Click "Catalog" link available on the top right corner.

Search All		-	Ø	Advanced	Administration	Help 🗸	Sign Out 📿
Home	Catalog	Favorites 🗸	Dashboards 🗸	New 🗸	🛛 🔁 Open 🗸 🚽	Signed In /	As weblogic ~

• Click "Shared Folders" and then "Un-Archive".

ORACLE	Business In
Catalog	
User View 💌 🍄 🗸	· 🔁 🕞 🎦 🕬 🔜 ·
Folders	۲. 🖓
H My Folders	
Shared Fo	ders 1
Tasks	
Shared Fold	arc
Expand	Archive
RSS	Unarchive 2
X Delete	Upload
Сору	(XXE) Properties
tename	Permissions
P Create Shortcu	t

Browse the path where "OFS\_PFT\_PACK.catalog" is copied in the local folder. Select the file and click "Open". Then click "OK".

Unarchive		×
Archive file	Financial Reporting.ca	Browse
Replace	None	-
ACL	Inherit	•
Help	(	OK Cancel

• Click on "Shared Folders" and then on Un-Archive. Browse the path where "OFS\_PFT\_PACK.catalog" is copied in the local folder. Select the file and click "Open". Then click "OK" as shown in below diagram.

Unarchive		×
Archive file	Management Reporting	Browse
Replace	None	•
ACL	Inherit	-
Help	(	OK Cancel

• Two new catalogs are available on the left hand side.

• Click "Dashboard" and click on any of the reports to ensure that all the reports are available.

Search	All		Advanced Administration Help -	Sign Out
Home	Catalog	Favorites 🗸	Dashboards 🗸 🛛 🗳 New 🗸 🛛 🗁 Open 🖌 🛛 Signed In As	weblogic 🗸
			Im Most Recent(Income Statement - Income Statement)	
			My Dashboard	
			Financial Reporting	
			Financial Reporting	
			Management Reporting	
			Balance Sheet	
			Income Statement	
			Key Trends	
			Reformance Measures	

vi. Steps to restart all services in OBIEE "Enterprise Manager".

Open the EM OBIEE URL- (http://<ipaddress>:<port>/em) and login with the credentials.

• Click "coreapplication" link.

CONTRACTOR IN	arm bifoundation domain.g			
m Mondation do Aplastic Dakement	tura Brioradhacoa Googleu S			
	Depayments	■ Np (24)		) I have hidden an
	Inc.	5045 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Target Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere Autochere	Nex

Click the "Restart" button.

	Manager 11g Fusion Middleware Co	ntrol		
📑 Farm 👻 🔒 Topology				
<b>□</b> •	☆ coreapplication			
E 🕂 Farm_bifoundation_domain	📀 Business Intelligence Instance 🕶			
Application Deployments				
WebLogic Domain	Change Center: Dock and Edit C	onfiguration		
Business Intelligence     Oreapplication	Overview Availability Capacity M	anagement Diagnostics	Security Deployment	
coreapplication     Metadata Repositories	2			
	System Shutdown & Startup			
			100%	Up (5)
			System Components	
	System Status	Manage System		
	All components are available	🚺 Start 🔲 Sto	p 🖸 Restart 3	
	Diagnostics			

• Click "Yes" to restart all BI components.

(A) Confirmation			
Are you sure you want to restart all BI compon	ents?		
	Yes	No	

A message is displayed as follows:

(9) Processing
Restart All - In Progress.
${}$ This operation cannot be cancelled. It will continue even if the browser window is closed.

• Once restart is done, a confirmation message is displayed as follows:

Confirmation	
Restart All - Completed Successfully	
Done	
	Close

- 7. Configure tnsnames.ora file.
  - a. Open "tnsnames.ora" file under the folder < Oracle Home>/network/admin/ folder.
  - b. Make sure an entry is made in the tnsnames.ora to connect to atomic schema of OFSAA application.

- c. Save the tnsnames.ora file.
- 8. Configure ODBC data source to connect to Oracle BI Server.
  - a. Go To Control Panel>Administrative Tools>Data Sources (ODBC).
  - b. Select the 'System DSN' tab and click 'Add' Button.
  - c. Select a driver specific to (Oracle BI Server 11g) and click 'Finish' Button.
  - d. Enter 'Name' and 'Server' details (Specify the Host Name or IP Address of the BI Server and click 'Next').
  - e. Enter Oracle BI Server login id and password (Enter User Name and Password created at the time of OBIEE installation). Click 'Next'.
  - f. Click 'Finish'.
- 9. Modify RDBMS connection pool and set the properties.
  - a. Open the OBI Administration tool.
  - b. Select Start > Programs > Oracle Business Intelligence > BI Administration.
  - c. Select File > Open > Online and select 'OFS\_PFT\_PACK.rpd' file from the Open dialog box.
  - d. Enter Repository password as 'Admin123'.
  - e. In the "Physical" layer, double-click the "OFSEFPA Connection Pool" to open its properties.
  - f. In the 'General' tab, edit/ check the following entries:
    - i. Call Interface: (OCI 10g/11g).
    - ii. Data source name: <tnsnames.ora entry created in the step 7.b connecting to OFSAA atomic schema>.
    - iii. User name: <enter atomic db user name>.
    - iv. Password: <enter atomic db user password>.
  - g. Confirm password and Click 'OK' to close the window and click 'Save' to save the RPD file.
  - h. Click 'No' for the Global Consistency Message.
  - i. Repeat the steps from 9.f to 9.l to set the connection properties for "OFSEFPA Init Block".
  - j. Close the RPD file (File / Exit).
- 10. In case RPD deployment is done on Essbase then modify ESSBASE connection pool and set the properties.

Note: This is applicable only for EFPA.

- a. Open the OBI Administration tool.
- b. Select Start > Programs > Oracle Business Intelligence > BI Administration.
- c. Select File > Open > Online and select the cube rpd file created as mentioned in the 3rd step (RPD Deployment On Essbase Cubes) of section Post-Deployment Activities of OFSEFPA 8.0.5.0.0, from the Open dialog box.
- d. Enter Repository password as 'Admin123'.
- e. In the "Physical" layer, double-click the "Connection Pool" under Essbase, to open its properties.
- f. In the 'General' tab, edit / check the following entries:
  - i. Call Interface: (Essbase).
  - ii. Essbase Server: IP Address of Essbase server.
  - iii. User name: <enter Essbase console user name>.

- iv. Password: <enter Essbase console user password>. g. Confirm password and Click 'OK' to close the window and click 'Save' to save the RPD file.
- g. Click 'No' for the Global Consistency Message.
- h. Close the RPD file (File > Exit).
- 11. Login into OFSEFPA Application using the URL: *http://localhost:9704/analytics*. (Replace the port number based on your setup).
- 12. Once the OBIEE Environment is up and running, the OBIEE url needs to be updated in the table 'AAI\_MENU\_B' for an end user to access the respective Business Intelligence Analytics Application.

```
Following update statement needs to be executed in the config schema:
   UPDATE AAI MENU B
   SET V_MENU URL = '<URL>'
   WHERE V MENU ID IN ('<List of enabled BI Analytical Links for a particular Media Pack
   >')
   /
   COMMIT
   /
   For PFT Media Pack as an example:
   UPDATE AAI MENU B
   SET V MENU URL = 'http://ofss222798:7001/analytics/'
   WHERE V MENU ID IN ('OFS EFPABI LINK')
   UPDATE AAI MENU B
   SET V MENU URL = 'http://ofss222799:7001/analytics/'
   WHERE V MENU ID IN ('OFS RPABI LINK', 'OFS IPABI LINK')
   /
   COMMIT
   1
```

(Replace the IP address and port number based on your setup.)

13. Execute the following in atomic schema to view the T2T mappings in Metadata browser(object view):

```
declare
result number;
begin
result:=fn_mdb_t2t_view;
dbms_output.put_line(result);
exception
when others then
dbms_output.put_line(SQLERRM);
end;
```

### Jersey 2.x Package changes in web.xml File

Weblogic 12.2.x will not support jersey 1.x packages, so it is recommended to consider the following changes to those customers using Weblogic 12.2.x in their environment:

1. Replace the web.xml entries for Jersey 1.x with jersey 2.x

```
Entry for PA Metrics Servlet should be as below:

<<servlet>

<servlet-name>PAMetricsServlet</servlet-name>

<servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-class>

<init-param>

<param-name>jersey.config.server.provider.packages</param-name>

<param-value>com.oracle.ofsaa.pa.metric.api</param-value>

</init-param>

<init-param>

<param-name>jersey.config.server.provider.classnames</param-name>

<param-value>com.oracle.ofsaa.pa.metric.api.ProcessJSON</param-value>

</init-param>

</servlet>
```

2. Replace list of jersey 1.x jars used with jersey 2.x jars and it's dependencies in the following folder:

```
/../../webapps/ofsaa/WEB-INF/lib
```

## Post-deployment Activities of OFSEFPA v8.0.5.0.0

The following activities have to be done after installing and deploying OFSEFPA v8.0.5.0.0:

**OBIEE** Configuration:

1. Evaluate Support Level

```
Evaluate function is used in filters of many reports. To support the evaluate function in reports, the value of EVALUATE_SUPPORT_LEVEL in NQSConfig.INI file of the OBIEE server needs to be set as 2.
```

#### Path for 11G

\$OBIEEHOME\instances\instance1\config\OracleBIServerComponent\coreapplication obis1

For 12C

\$OBIEEHOME/user\_projects/domains/bi/config/fmwconfig/biconfig/OBIS

Changes: Set EVALUATE\_SUPPORT\_LEVEL = 2 from EVALUATE\_SUPPORT\_LEVEL = 0;

#### 2. Session Variable Setting

'ENTITY' by default picks the lowest of Legal Entities in the alphabetical order.

select min(v entity name) from dim org structure

This query fetches the default legal entity that will be displayed in the obiee reports (Legal Entity drop-down) at on load of the report.

Users can also set the default value for Entity, by following these steps:

#### a. Open the RPD online.

- b. Under Manage Menu go to Variables and select session variable 'ENTITY'.
- c. Set the default value in default initialize section with any one of the available entity name from DIM\_ORG\_STRUCTURE table in single quotes. For example: '<Entity Name>'
- d. Save and check the global consistency of the RPD.

#### 3. Repository Variable Setting

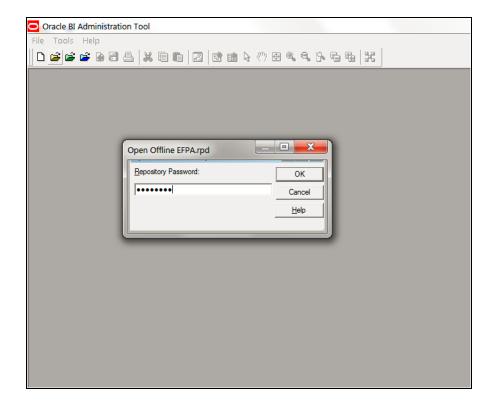
- a. Open the RPD online.
- b. Under Manage Menu go to Variables. Set Static Repository variables 'RV\_Reporting\_Currency' and 'RV\_Base\_Currency'.
- c. Save and check the global consistency of the RPD.

#### 4. RPD Deployment On Essbase Cubes(Optional)

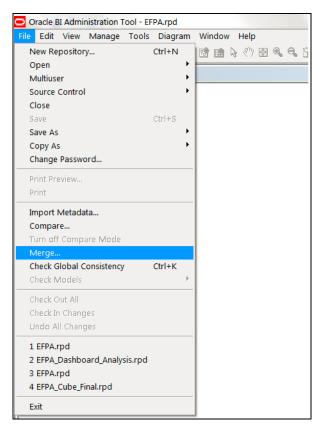
- a. During deployment use "Admin123" as OFS\_PFT\_PACK.rpd repository password.
- b. Deployment of RPD on ESSBASE cubes will be done through an xml patch (EFPA\_Cube\_Patch.xml). The xml has been provided as a part of installation and will be present at \$FIC\_HOME/ EFPA/repository folder.
- c. Provide connection details of RDBMS in 'OFSEFPA Connection Pool' and 'OFSEFPA Init Block'. This is required to show LCY Label in the reports, for the legal entity selected in the prompt.
- d. The steps to be followed for creating cube related RPD is mentioned in the following procedure:
  - i. Create a folder "xmlpatch" in your system and copy the EFPA.rpd (Its RDBMS RPD) & EFPA\_Cube\_Patch.xml files.
  - ii. Open the EFPA Repository (EFPA.rpd) in offline mode.

P		
Oracle BI Administration Tool		The second second second
File Tools Help		
D 🖆 📽 🖨 🖨 📇   X 🖬 🆿 🛛 😫 🗞 🕫 🔍	5 5 6 6 X	
Open		
Look in: 🗼 xmlpatch 💌	🧿 🏂 📂 🎞 🕶	
Name A	▼ Date modified	
Name A	9/27/2014 3:38 PM	
Recent Places		
Desktop		
Libraries		
Computer		
File name: EFPA.rpd Files of type: Repository Files (*.rpd)	Open	
Files of type: Repository Files (*.rpd)	Cancel	

iii. Give the repository password as "Admin123".



iv. Choose "Merge" option from File Menu.



v. On the Merge Repository Wizard screen, choose option as "Patch Repository Merge".

	Administration Tool - EFPA.rpd		And be a real of the country would be	
	View Manage Tools Diagram Window Merge Repository Wizard - Select Input File		x	_ <b>D</b> X
Presentation	1 Calest Jacob Film		tory Merge 🕷 Patch Repository Merge	Select
Balanc     Balanc     G     Fnanc     Fnanc     G     fnanc     fnanc     fnanc     fnanc     fnanc	2 Define Merge Strategy	Original Master Repository:	Repository Password:	Select •
		Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBJEE_T2T\xmlpatch\EFPA.rpd Repository Password:	S <u>e</u> lect: →
		Patch File:	Patch Password:	Select
		Save Merged Repository as:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBJEE_T2T\xmlpatch\EFPA(1).rpd       Repository Password:	Sele <u>c</u> t →
		🔽 Equalize during merge		
	Help		Back Next Finish	Cancel
	For Help, press F1			

Oracle BI Administration Tool - EFPA.rpd e Edit View Manage Tools Diagram Win	deu Itels	The same as the support was the	and the second
) 🗃 🗃 Merge Repository Wizard - Select Input			
esentation Select Input Files	Merge Type: O Full Repos	ory Merge 🔞 Patch Repository Merge	/sical
Baland     Select Input Files     Financ     Financ     Income	Original Master Repository:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd	Select
	Modified Repository:	Select Original Repository Look in: Lo	Select →
	Patch File:	Recent Places	Select
	Save Merged Repository as:	Desktop	Selegt +
	IZ Equalize during merge	Libraries	
		Computer Fle name: EFPArpd Open	
		Files of type: Repository Files (* rpd) Cancel	
Help		Back Next	Finish Cancel
For Help, press F1			

vi. Select the Original Master Repository as "EFPA.rpd" from xmlpatch folder by clicking select option.

vii. Give "Admin123" as password for Original repository.

Oracle BI	Administration Tool - EFPA.rpd		No. 1 and the Property and the second second second		
File Edit V	View Manage Tools Diagram Window	Help			
🗅 🚔 🚔	Merge Repository Wizard - Select Input Files				<b>_</b> ]
Presentation		Merge Type: C Full Reposi	ory Merge 🛛 🖗 Patch Repository Merge		rsica
Balance     Generation	2 Define Merge Strategy	Original Master Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd	Select +	
E M Incom			Repository Password:		
		Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd	Sglect →	
			Repository Password:		
		Patch File:		Select	
			Patch Password:		
		Save Merged Repository as:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA(1).rpd	Sele <u>c</u> t •	
			Repository Password:		
					н.
		🔽 Equalize during merge			н.
	Help		Back Next Finish	Cancel	
	For Help, press F1				

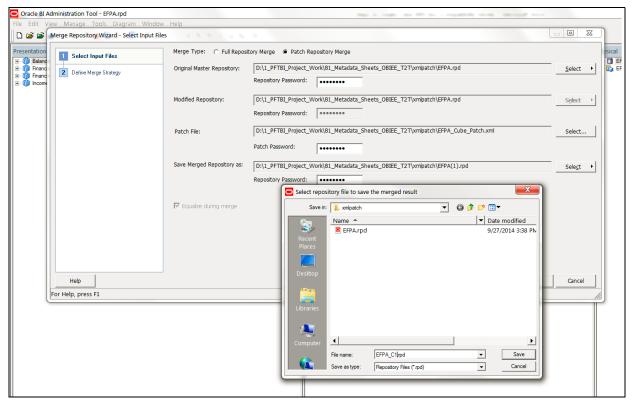
viii. Select the xml patch file from the saved path (xmlpatch folder).

Oracle BI A	Administration Tool - EFPA.rpd										
File Edit V	iew Manage Tools Diagram Window	Help									
🗅 🚔 🚔	Merge Repository Wizard - Select Input File	s essesses								23	
Presentation	1 Select Input Files	Merge Type: C Full Reposi	itory Merg	ie 🔎 Patch Rej	oository Merge						/sical
E ··· () Balanc E ·· () Financ E ·· () Financ E ·· () Income	2 Define Merge Strategy	Original Master Repository:	1	PFTBI_Project_W tory Password:	ork\81_Metadat	a_Sheets_OBIEE_T2T\xm 	lpatch\EFPA.rpd		Select	•	EFPA_E
		Modified Repository:	D:\1_	PFTBI_Project_W	1	a_Sheets_OBIEE_T2T\xm	lpatch\EFPA.rpd		Select	÷	
			Reposit	ory Password:	•••••						
		Patch File:	Patch I	Password:		-			Select.		
		Save Merged Repository as:	D:\1_	Select The F	atch File		• 0 🖻 🖻	<b>X</b>	Selegt	۰	
			Repos	S A	Name A	ne. Datch vml	_	Date modified 9/27/2014 3:38 PN			
		✓ Equalize during merge		Recent Places				3/21/2024 3.30 FW			
				Desktop							
	Help			Libraries					nish Cance		
	For Help, press F1			Computer	•			×			J
				Computer	File name: Files of type:	EFPA_Cube_Patch.xml XML Files (*.xml)	  	Open			
			l			Prove race ( Mill)					

ix. Give "Admin123" as Patch file password.

Merge Repository Wizard - Select			
ation Balanc Select Input Files	Merge Type: C Full Repo	sitory Merge 📧 Patch Repository Merge	(Si
Finance 2 Define Merge Strategy	Original Master Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd	Select •
Incom		Repository Password:	
	Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd	Select →
		Repository Password:	
	Patch File:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_Cube_Patch.xml	Select
		Patch Password:	
	Save Merged Repository as:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA(1).rpd	Sele <u>c</u> t →
		Repository Password:	
	Equalize during merge		
	The second contract to the first		
Help		Back Next Finish	Cancel
Help			Cancel

x. Change the name of the merged repository to "EFPA\_C1.rpd".



xi. Click on Next.

Oracle BI Administrat			the stand of the standard and there	
	age Tools Diagram Window pository Wizard - Select Input Files			- • ×
Presentation Balanc	elect Input Files		cory Merge <ul></ul>	Select
⊞-∭ Incom		Modified Repository:	Repository Password:         •••••••           D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA.rpd           Repository Password:         ••••••••	<u>Select</u> →
		Patch File:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_Cube_Patch.xml       Patch Password:	Select
		Save Merged Repository as:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1.rpd Repository Password:	Select •
		I Equalize during merge		
He	elo		Back Next Finish	Cancel
For Help,				

**Note:** If "Merge Repository Wizard – Define Merge Strategy" window opens up then skip the below steps and proceed from "Step: xxiii" onwards. In this case the final Cube Rpd name will be "EFPA\_C1.rpd". Otherwise proceed ahead with the below steps.

xii. Check for global consistency by clicking on "Check Global Consistency Ctrl+K" under "File" menu.

Oracle BI Administration Tool - E	FPA_C1.rpd		
File Edit View Manage Tools	Diagram	Window	Help
New Repository	Ctrl+N		<b>\$</b> 87
Open	•	<u> </u>	
Multiuser	•		
Source Control	•		
Close			
Save	Ctrl+S		
Save As	•		
Copy As	•		
Change Password			
Print Preview			
Print			
Import Metadata			
Compare Turn off Compare Mode			
Merge			
Check Global Consistency	Ctrl+K		
Check Models	Þ		
Check Out All			
Check In Changes			
Undo All Changes			
1 EFPA_C1.rpd			
2 EFPA_patched.rpd			
3 EFPA.rpd			
4 EFPA_Dashboard_Analysis.rpd			
Exit			
0		3	

xiii. It should result in no errors. Click on "OK" button.



xiv. In "xmlpatch" folder copy "EFPA\_C1.rpd" and paste so that a new duplicate rpd gets created "EFPA\_C1 - Copy.rpd".

		EE_T2T ▶ xmlpatch ▶		
le Edit View Tools Help				
rganize 👻 Include in library 👻 Share with	Burn New folder			
51_InstallationOf_61_And_ML 52 GSH Issues	Name	Date modified	Туре	Size
53_Translation_Config_Schema_Dump	EFPA.rpd	9/27/2014 3:38 PM	RPD File	181 KE
	EFPA.zip	9/27/2014 3:38 PM	zip Archive	74 KE
54_Performance_Tuning 55_RepLine_DT	EFPA_C1 - Copy.rpd	10/8/2014 7:00 PM	RPD File	179 K
55_KepLine_D1 56_All_documentation_Verification	EFPA_C1.rpd	10/8/2014 7:00 PM	RPD File	179 KE
57_2_Adjustments_Project	EFPA_Cube_Patch.xml	9/27/2014 3:38 PM	XML File	313 KI
57_2_Adjustments_Project	🗟 EFPA_patched.merge_log.csv	10/8/2014 7:00 PM	Microsoft Office Ex	7 KE
58_EFPA_11.1.1.7.0_Qualification	🕙 Steps_to_create_Cube_RPD.doc	10/8/2014 7:00 PM	Microsoft Office W	2,737 KI
59_Disaster_Recovery_and_Issues				
60_EFPA_RPD_And_Catalog_Cleanup				
61_EFPA_MergeStatementGenerate				

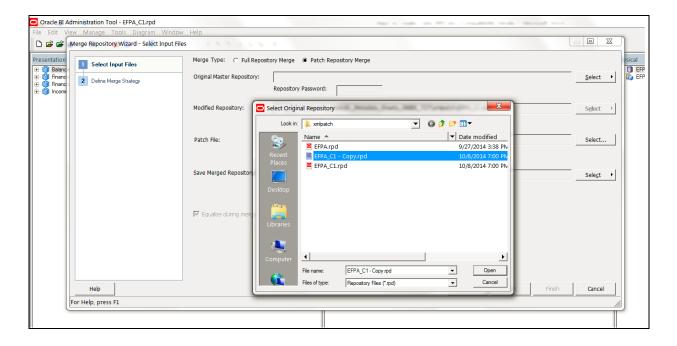
xv. In the currently opened "EFPA\_C1.rpd" click on "Merge..." under "File" menu.

Oracle BI Administration Too	ol - EFPA_C1.rpd
File Edit View Manage To	ools Diagram Window He
New Repository	Ctrl+N 🛛 😭 🏥 😓 🗧
Open	+
Multiuser	• <u> </u>
Source Control	•
Close	
Save	Ctrl+S
Save As	•
Copy As	•
Change Password	
Print Preview	
Print	
Import Metadata	
Compare	
Turn off Compare Mode	
Merge	
Check Global Consistency	Ctrl+K
Check Models	•
Check Out All	
Check In Changes	
Undo All Changes	
1 EFPA_C1.rpd	
2 EFPA_patched.rpd	
3 EFPA.rpd	
4 EFPA_Dashboard_Analysis.	rpd
Exit	
0	

xvi. On the Merge Repository Wizard screen, choose option as "Patch Repository Merge".

ation	ut Files Merge Type: C Full Repo	sitory Merge 🔞 Patch Repository Merge	
Select Input Files	Original Master Repository:	Select Select	Ŀ
	Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1.rpd Sglext: Repository Password:	Þ
	Patch File:	Select	
	Save Merged Repository as:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmipatch\EFPA_C1(1).rpd Select Repository Password:	·
	🗹 Equalize during merge		

xvii. Select the Original Master Repository as "EFPA\_C1 - Copy.rpd" from xmlpatch folder by clicking select option.



xviii.Give "Admin123" as password for Original repository.

Oracle BI Administration Tool - EFPA_C1.rpd File Edit View Manage Tools Diagram Window D 🕸 🍘 Merge Repository Wizard - Select Input File			- • X	Ŋ
Presentation	Merge Type: C Full Repos Original Master Repository:	tory Merge  Patch Repository Merge D:\1_PFTBI_Project_Work\81_Metadata_Sheets_O8IEE_T2T\xmlpatch\EFPA_C1 - Copy.rpd Repository Password:	<u>S</u> elect ▶	rsical
	Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBJEE_T2T\xmipatch\EFPA_C1.rpd Repostory Password: •••••••	S <u>e</u> lect →	
	Patch File:	Patch Password:	Select	
	Save Merged Repository as:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1(1).rpd Repository Password:	Sele <u>c</u> t →	
	I Equalize during merge			
Heb For Help, press F1		Back Next Finish	Cancel	

xix. Select the xml patch file from the saved path (xmlpatch folder).

	Administration Tool - EFPA_C1.rpd		The same as the second way that are		
	/iew Manage Tools Diagram Window			_ <b>0</b> X	
	Merge Repository Wizard - Select Input File	IS IN INCOME			í
Presentation	1 Select Input Files	Merge Type: C Full Repos	tory Merge 🔎 Patch Repository Merge		/sical
E M Finance		Original Master Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1 - Copy.rpd	<u>S</u> elect →	EF
E 1 Income			Repository Password:		
		Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1.rpd	Select →	
			Repository Password:		
		Patch File:		Select	
			Patch Password:		
		Save Merged Repository as:	Select The Patch File	Sele <u>c</u> t +	
			Look in: 🗼 xmlpatch 🔍 🌀 🎓 🖽 🕶		
		🔽 Equalize during merge	Name A Date modified		
		I™. Equaize during merge	Recent EFPA_Cube_Patch.xml 9/27/2014 3:38 PM		
			Places		
			Desktop		
				1 1	
	Help		Libraries	Cancel	
	For Help, press F1				IJ
			Computer		
			File name: EFPA_Cube_Patch xml    Open		
			Files of type: X/ML Files (* xml)  Cancel		

xx. Give "Admin123" as Patch file password.

1 Select Input Files	Merge Type: C Full Repo	sitory Merge 🛛 🙃 Patch Repository Merge	
C Define Merge Strategy	Original Master Repository:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBJEE_T2T\xmlpatch\EFPA_C1 - Copy.rpd Repository Password:	Select +
	Modified Repository:	D:\1_PFTBL_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmipatch\EFPA_C1.rpd Repository Password:	Sglect →
	Patch File:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmipatch\EFPA_Cube_Patch.xml	Select
	Save Merged Repository as:	Patch Password:  D:(1_PFTBI_Project_Work)81_Metadata_Sheets_OBJEE_T2T\xmlpatch\EFPA_C1(1).rpd Repository Password:	Sele <u>c</u> t +
	🔽 Equalize during merge	Nepusiuly reservulu.	

xxi. Change the name of the merged repository to "EFPA\_Cube.rpd".

Oracle BI Administration Tool - EFPA_C1.rpd	The same as the sound that we do not be	
File Edit View Manage Tools Diagram Window		
🗋 🗃 🗃 Merge Repository Wizard - Select Input File		
Merge Repository Wizard - Select Input Files  Presentation		ical
Help For Help, press F1	Back Next Finish Cancel	

xxii. Click on Next.

on 1 Select Input File	Merge Type: O Full Rep	ository Merge 🔞 Patch Repository Merge	
and and and and ome		D:\1_PFTBI_Project_Work\B1_Metadata_Sheets_OBJEE_T2T\xmlpatch\EFPA_C1 - Copy.rpd Repository Password:	<u>S</u> elect +
	Modified Repository:	D:\1_PFTBI_Project_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_C1.rpd Repository Password:	Select →
	Patch File:	D:\1_PFTBLProject_Work\81_Metadata_Sheets_OBIEE_T2T\xmlpatch\EFPA_Cube_Patch.xml Patch Password:	Select
	Save Merged Repository as		Select +
	I∕ Equalize during merge		
Help		Back Next Finish	Cancel

xxiii. The wizard asks for the confirmation for deletion. Please select option "Current" under Decision dropdown.

Brance       Image: Presentation Column       Year-to-Date       Deleted from Current       Current         B: Image: I	Presentation	Merge Repository Wizard - Define Merg  Select Input Files	conflicts:	et a lical sical s
Original repostory       Original repostory       Current repostory         Original repostory       Original repostory       Original repostory         EFPA_C1 - Copy.rpd       EFPA_C1_equalized_again.rpd       EFPA_C1 - Copy_patched.rpd         Differences:       Original repostory:       Original repostory:         Original repostory       Original repostory:       Original reporting Original reporting Original reporting Original reporting Original repostory:         Original repostory       Original repostory       Original repostory       Original reporting Original r	<ul> <li>Image: Book of the second seco</li></ul>	2 Define Merge Strategy	Presentation Column Year-to-Date     SLogical Table Source FCT_LEDGER_STAT	Deleted from Current Current Deleted from Current Current
			EFPA_C1 - Copy.rpd	Current repository
Logical Table Source : "Management Reporting"."Fact - Management Reporting"."FCT_MGMT_REPORTING" : Active Source			Check consistency of the merged RPD	

xxiv. Click on Finish.

resentation 1 Select Input Files	rge Strategy Conflicts:		🍓 🔈 🔲 🖥 😭 🗖 Show qualif	fied names //sical
Orecuttigat riss     Orecuttigat riss	Type     Type     Presentation Column Year-to-De     Colocal Table Source FCT_LED     Logical Table Source FCT_MGM	GER_STAT	Description Decis Deleted from Current Current Deleted from Current Current Deleted from Current Current	ion A
	Original repository Comparison of the second secon	Modified repository RTING FCT_MGMT_REPORTING ADPAMINE FFPA_C1_equalzed_again.rpd	Current repository	SMS
	Following objects were deleted from the		<u>}</u>	
Help	Reporting"."Fact - Management Reporting"."	FCT_MGMT_REPORTING" : Active Source	Back Next Finish (	Cancel

This creates a merged repository (EFPA\_Cube.rpd) under xmlpatch folder.

Take the "EFPA\_Cube.rpd" file and deploy it using EM console on the environment where Data is to be fetched from ESSBASE Cubes.

**Note:** Provide connection details of RDBMS in 'OFSEFPA Connection Pool' and 'OFSEFPA Init Block'. This is required for LCY Label in the OBIEE reports.

#### 5. OFSAAI Startup

OFSAAI servers need to be restarted, in order to see the transformations in the Post Load Transformation screen.

#### 6. Security Roles

Security roles are created in OBIEE to allow or disallow certain users to see selective dashboards and data. To accomplish these user roles can be created in OBIEE. This step is optional and the procedure to create user roles is mentioned below (in this procedure LoB stands for Line of Business):

- a. Open Admin Console of OBIEE.
- b. Click on Security Realms under Domain Structure.

c. Click on myrealm under Realms.

ORACLE WebLogic Server®	Administration Console		Ģ
Change Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: bifoundation_dom
View changes and restarts	Home >Summary of Security Realms >myrealm >Users	and Groups >BusinessAnalyst >Summary of Security Realm	ns >myrealm >Summary of Security Realms
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Security Realms		
Lock & Edt Release Configuration	security realms in a WebLogic Server domain, but o	nly one can be set as the default (active) realm.	s, and security providersthat are used to protect WebLogic resources. You can have multiple in. Click the name of the realm to explore and configure that realm.
Domain Structure			
bifoundation_domain Environment	Customize this table		
Deployments	Realms (Filtered - More Columns Exist)		
Security Realms	Click the Lock & Edit button in the Change Center	to activate all the buttons on this page.	
	New Delete		Showing 1 to 1 of 1 Previous   Next
	Name 🏟	Default Realm	
	myrealm	true	
	New Delete		Showing 1 to 1 of 1 Previous   Next
How do I			
Configure new security realms			
Delete security realms			
Change the default security realm			
System Status			
System Status  Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0) OK (1)			
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. Al	I rights reserved.		
	on and/or its affiliates. Other names may be trademarks of their	respective owners.	

d. Click on 'User and Groups' and then on 'Groups'.

Home Log Out Preferences	Record Help	Welcome, weblogic Connected to: bifoundation_do
Home >Summary of Security Realms	>myrealm >Users and Groups >BusinessAnalyst >Summary of Security Realms >myrealm >Sum	mary of Security Realms >myrealm
Settings for myrealm		
Configuration Users and Grou	Roles and Policies Credential Mappings Providers Migration	
Users Groups		
This page displays information ab	out each group that has been configured in this security realm.	
Customize this table		
New Delete		Showing 1 to 10 of 14 Previous   Nex
🔲 Name 🗇	Description	Provider
AdminChannelUsers	AdminChannelUsers can access the admin channel.	DefaultAuthenticator
Administrators	Administrators can view and modify all resource attributes and start and stop ser	vers. DefaultAuthenticator
AppTesters	AppTesters group.	DefaultAuthenticator
BankGlobalCFO		DefaultAuthenticator
BIAdministrators	BI Administrators Group	DefaultAuthenticator
BIAuthors	BI Authors Group	DefaultAuthenticator
BIConsumers	BI Consumers Group	DefaultAuthenticator
CrossDomainConnectors	CrossDomainConnectors can make inter-domain calls from foreign domains.	DefaultAuthenticator
Deployers	Deployers can view all resource attributes and deploy applications.	DefaultAuthenticator
LoBManager		DefaultAuthenticator
New Delete		Showing 1 to 10 of 14 Previous New
	Kons >Summary of Security Realms Settings for myrealm Configuration Users Groups This page displays information ab Customize this table Groups New Jete New Jete Administrators Administrators BAdministrators BIAdministrators BIA	None > Summary of Security Radima > myrealm > Users and Groups > BudinessAnalytet > Summary of Security Radima > myrealm > Sum Settings for myrealm Configuration Users and Groups Roles and Policies Credential Mappings Providers Migration Users Groups This page displays information about each group that has been configured in this security realm. Configuration Users Customize this table Course New Perform Administrators Administrators Administrators Administrators Administrators BitAdministrators BitAdministrato

e. Click on 'New' and create two new groups with the names 'Business Analyst' and 'LoBManager'.

	dministration Console	2			ç			
Change Center	Home Log Out Pre	ferences 🚵 Record Help	Q	Welcome, weblogic	Connected to: bifoundation_dom			
View changes and restarts	Home >Summary of Sec	urity Realms >myrealm >Users and Gr	oups >BusinessAnalyst >Summary of Sec	urity Realms >myrealm >Summary of Security Realms >myrealm				
Click the Lock & Edit button to modify, add or delete items in this domain.	Create a New Group							
Lock & Edit	Lock & Edt OK Cancel							
Release Configuration	Group Properties							
Domain Structure	The following properti * Indicates required field	es will be used to identify your new ds	Group.					
bifoundation_domain 	What would you like to	name your new Group?						
B-Services Security Realms B-Interoperability	* <mark>Name:</mark>	Business Analyst						
B Diagnostics	How would you like to o	lescribe the new Group?		1				
	Please choose a provid	er for the group.	7					
How do L	OK Cancel	DefaultAumenticator	1					
Create groups	Un Cance							
Modify groups								
Delete groups     Create users								
Manage users and groups								
System Status								
Health of Running Servers								
Failed (0) Critical (0) Overloaded (0)								
Warning (0) OK (1)								
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All ri Oracle is a registered trademark of Oracle Corporation :	ights reserved. and/or its affiliates. Other nar	mes may be trademarks of their respect	tive owners.					

f. Click on newly created 'Business Analyst' group for assigning parent group.

Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: bifoundation_dom
Contract The Contract of Contr		f Security Realms >myrealm >Summary of Security Realms >myrealm >BankGlobalCFO >Business Analyst
View changes and restarts		
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for Business Analyst	
Lock & Edit	General Membership	
	Save	
Release Configuration	Save	
Domain Structure	Use this page to add groups to other groups.	
bifoundation_domain		
Deployments	Parent Groups: Available: Chosen:	This group can be a member of any of these parent groups. More Info
+-Services	Available: Chosen: AdminChannelUsers A BIAuthors	
Security Realms Interoperability	Administrators	
E Diagnostics	AppTesters	
	BIAdministrators	
	BIConsumers	
	BankGlobalCFO 🚳	
	CrossDomainConnectors *	
How do L	Save	
Create groups		
Modify groups		
Delete groups		
System Status		
Health of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0) Warning (0)		
OK (1)		
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. Al		

g. Create two new users under 'Users' tab of 'Users and Groups'. One user for Business Analyst and another for LoB Manager.

Change Center	Home Log	g Out Preferences 🔤 R	ecord Help	Q			Welc	ome, weblogic Connected to: bifoundation_dom
View changes and restarts	Home >Users	and Groups >BusinessAnaly	vst >Summary of Secu	rity Realms >myrealm >Su	mmary of Sec	urity Realms >myre	alm >BankGlobalCFO >Business Ar	alyst >myrealm >Users and Groups
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for a	myrealm						
Lock & Edit	Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration		
	Users Gro	oups						
Release Configuration								
Domain Structure	This page di	isplays information about e	each user that has be	en configured in this sec	urity realm.			
bifoundation_domain								
Deployments	Customize	e this table						
Services     Security Realms	Users							
Interoperability	New	elete						Showing 1 to 7 of 7 Previous   Next
⊡-Diagnostics	Name	- A	Descr	intion				Provider
		ilobalCFO1		ipcion				DefaultAuthenticator
		temUser	07.0	em User				DefaultAuthenticator
	LoBMa		DI SYSI	em üser				DefaultAuthenticator
		anager2						DefaultAuthenticator
How do I		SystemUser	Orade	application software sys	tem user			DefaultAuthenticator
Manage users and groups		nalHead1	ordae		cent doer t			DefaultAuthenticator
Create users	i weblog							DefaultAuthenticator
Modify users		Delete						Showing 1 to 7 of 7 Previous   Next
Delete users		0.010						Showing 10 yor y freedom freeze
System Status								
Health of Running Servers								
Failed (0)								
Critical (0)								
Overloaded (0) Warning (0)								
OK (1)								
WebLogic Server Version: 10.3.5.0								
Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	rights reserved. and/or its affiliates	. Other names may be trade	marks of their respecti					

Change Center	Home Log Out Pre	ferences 🚵 Record	Help	Welcome, weblogic Connected to: bifoundation_domain
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System Status	1			
Health of Running Servers				
Failed (0)				
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h. Map the newly created users to respective groups.

Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: bifoundation_domai
View changes and restarts	Home >BusinessAnalyst >Summary of Security Realms >myrealm >Summary of Security Realms >m	yrealm >BankGlobalCFO >Business Analyst >myrealm >Users and Groups > <b>businessanalyst1</b>
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Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (1)		

- i. Close the Admin Console of OBIEE.
- j. Open Enterprise Manager of OBIEE.
- k. Navigate to CoreApplication > Security > Singe Sign On > Configure and Manage Application Roles.

Farm 🗸 🔒 Topology		
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<ul> <li>WebLogic Domain</li> <li>Business Intelligence</li> </ul>	Change Center: PLock and Edit Configuration	(3
coreapplication	Overview Availability Capacity Management Diagnostic Security Deployment	
🛅 Metadata Repositories	Secure Sockets Layer Single Sign On	
	Single Sign On (SSO)	Appl
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	Enable SSO	
	SSO Provider Custom	
	The SSO Provider Logon URL	
	The SSO Provider Logoff URL	
	Security Realm	
	Go to the Oracle WebLogic Server Administrator Console to configure and manage the WebLogic security realm.	
	Application Policies and Roles	
	Configure and Manage Application Policies	
	Configure and Manage Application Roles	

I. Create a new application roles with the name 'Business Analyst Role' with display name as 'Business Analyst Role' and 'LoBManager' with display name as 'LoB Manager Role'.

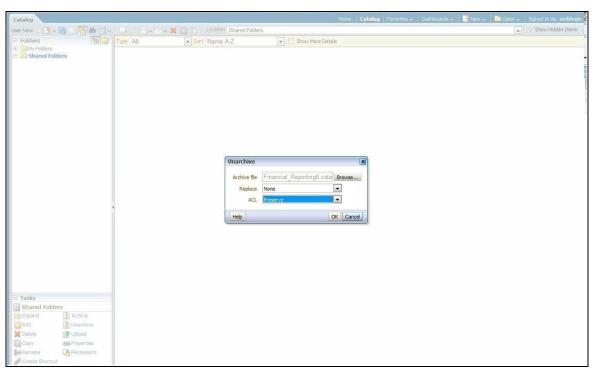
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	for role name to query roles defined by this application.	Use application stripe to search if application uses a stri	ipe that is differerent from application name.
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BIAuthor	BI Author Role		
BIConsumer	BI Consumer Role		
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LoBManager	LoB Manager Role		
RegionalHead	Regional Head Role		
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## m. Assign Business Analyst Group to its role and similarly 'LoB Manager' group to its respective role.

#### Deploying the Application Appendix M—Post Deployment Configuration

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	* Role Name Business A	nalyst Role				
	Display Name					
	Description					
		Add Principal				
	Members	Specify criteria to search and sele Search	ect the application roles that	you want to grant permissions to.		
	An application role may need to be	Type	Group		tation roles.	
	Add 2% Delete	Principal Name				
	A State of the state of the			V	-	
	Name No groups or application roles as	Searched Principals			Туре	
	No groups of application roles at	Principal	Display Name	Description		
		CrossDomainConnectors		can make inter- domain calls from foreign domains.		
		BIAuthors		BI Authors Group		
	4	AppTesters		AppTesters group.		
	4	Business Analyst				
		LoBManager				
		AdminChannelUsers		AdminChannelUsers can access the admin channel.		
		BIAdministrators		BI Administrators Group		
		OracleSystemGroup		Oracle application software system		
		< [	III	•		
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		4		OK Cancel		

n. Unarchive the catalogs by selecting ACL as 'Preserve'.



- o. After un-archiving the catalogs (Financial Reporting.catalog & Management Reporting.catalog) configure the physical tables in database PFTBI\_USER\_LOB\_MAP to create LoB Manager and LoB mapping.
- p. Step 16: Login with corresponding LoB Manager User Id to verify if the respective LoBs are being selected. To verify all the reports, login with Business Analyst user id.

#### Metadata Browser Batches:

UMM Metadata (Hierarchies, Datasets, Measures, Dimensions) can be seen in Metadata Browser by executing the Metadata Browser Batches (MDB batches) from the Batch Execution screen of OFSAAI. The batch names are mentioned below:

- 1. <INFODOM>\_MDB
- 2. <INFODOM>\_MDB\_OBJECT\_APPLN\_MAP

#### Additional Configuration:

- 1. After deploying the latest Web catalog and RPD from the server, the default reporting periods have to be set based on users requirements. The default value has to be set at the Reporting Period prompts by editing the dashboard and choosing a specific value for the reporting period prompt. Following are the dashboard pages where the default time period is to be selected:
  - a. Financial Reporting>Income Statement>Time\_Hierarchy Prompt
  - b. Management Reporting>Balance Sheet> Time Hierarchy Prompt
  - c. Management Reporting>FTP Reports> Time Hierarchy FTP Prompt
  - d. Management Reporting>Income Statement> Time Hierarchy Prompt
  - e. Management Reporting>Key Trends>Time Hierarchy Prompt
  - f. Management Reporting>KeyTrends>Balance Trends> Time\_Hierarchy\_Month Prompt
  - g. Management Reporting > Performance Measures> Time Hierarchy Prompt
- 2. Create an entry in Setup\_Master table to configure the identity codes that are required for Financial Reporting dashboard reports.

```
V_COMPONENT_DESC as "IDENTITY_CODE_PFTBI_FR_UNALLOCATED_DATA" having Identity Code value in V_COMPONENT_CODE and V_COMPONENT_VALUE columns.
```

3. If OFSEFPA 6.1.1.0.0 is deployed on Oracle ESSBASE Cubes, then the hierarchies would need to be resaved in the Business Hierarchy link of OFSAAI. Subsequently, rebuild the Oracle ESSBASE Cubes.

### Instrument Table Validation

Run the Instrument Table Validation. For more information, see the Doc ID 1457511.1 and Data Model Utility Guide.

Check the FSI\_MESSAGE\_LOG file after running Instrument Table Validation to verify that tables are classified correctly.

# Logging as System Administrator

Post installation, the first login into Infrastructure is possible only for a System Administrator through user id "sysadmn". This ID is created at the time of installation with the password provided during installation. Enter login id "sysadmn" and password that was provided during installation. Click Login.

## System Administrator

System Administration refers to a process of managing, configuring, and maintaining confidential data in a multi-user computing environment. System Administration in Security Management involves creating functions, roles, and mapping functions to specific roles. System Administration also involves maintaining segment information, holiday list, and restricted passwords to ensure security within the Infrastructure system.

You can access System Administrator in LHS menu of Security Management. The options available under System Administrator are:

- Function Maintenance
- Role Maintenance
- Segment Maintenance
- Holiday Maintenance
- Restricted Passwords

### **Function Maintenance**

A function in the Infrastructure system defines the privileges to access modules or components and to define or modify Metadata information associated. Function Maintenance allows you to create functions for users to ensure only those functions are executed which are specific to the user's role.

You can access Function Maintenance by expanding System Administrator section within the tree structure of LHS menu. The Function Maintenance window displays the function details such as Function Code, Function Name, Description, and the number of Roles Mapped to the function. The Function Maintenance window also facilitates you to view, create, modify, and delete functions within the system.

You can also make use of Search and Pagination options to search for a specific function or view the list of existing functions within the system.

### **Role Maintenance**

A role in the Infrastructure system is a collection of functions defined for a set of users to execute a specific task. You can create roles based on the group of functions to which users are mapped.

You can access Role Maintenance by expanding **System Administrator** section within the tree structure of LHS menu. The Role Maintenance window displays the role details such as Role Code, Role Name, Role Description, and the number of Users Mapped to the role. The Role Maintenance window also facilitates you to view, create, modify, and delete roles within the system.

You can also make use of Search and Pagination options to search for a specific role or view the list of existing roles within the system.

### **Segment Maintenance**

Segment is used to control access rights on a defined list of objects. It is mapped to an information domain.

Segment Maintenance in the Infrastructure system facilitates you to create segments and assign access rights. You can have different segments for different Information Domains or same segments for different Information Domains.

User scope is controlled by segment/ folder types with which the object is associated.

- Objects contained in a public folder will be displayed irrespective of any user.
- Objects contained in a shared folder will be displayed if user belongs to a user group which is mapped to an access type role with the corresponding folder.
- Objects contained in a private folder will be displayed only to the associated owner.

You can access Segment Maintenance by expanding System Administrator section within the tree structure of LHS menu. The Segment Maintenance window displays a list of available segments with details such Domain, Segment Code, Segment Name, Segment Description, Segment/Folder Type, Owner Code, and the number of Users Mapped to the segment. You can view, create, modify, and delete segments within the Segment Maintenance window.

You can also make use of Search and Pagination options to search for a specific role or view the list of existing roles within the system.

### **Holiday Maintenance**

**Note:** As part of OFSAAI 7.3.3.0.0 release, this feature will not be available if Authentication is configured to SSO Authentication and SMS Authorization.

Holiday Maintenance facilitates you to create and maintain a schedule of holidays or non-working days within the Infrastructure system. On a holiday, you can provide access to the required users and restrict all others from accessing the system from the User Maintenance window.

You can access Holiday Maintenance by expanding System Administrator section within the tree structure of LHS menu. The Holiday Maintenance window displays a list of holidays in ascending order. In the Holiday Maintenance window you can create and delete holidays.

### **Restricted Passwords**

**Note:** As part of OFSAAI 7.3.3.0.0 release, this feature will not be available if Authentication Type is selected as SSO Authentication and SMS Authorization from System Configuration> Configuration.

Restricted Passwords facilitates you to add and store a list of passwords using which users are not permitted to access the Infrastructure system.

You can access Restricted Passwords by expanding System Administrator section within the tree structure of LHS menu. The Restricted Passwords window displays a list of restricted passwords and allows you to add and delete passwords from the list.

You can also make use of Search and Pagination options to search for a specific password or view the list of existing passwords within the system. For more information, refer Pagination and Search & Filter.

Note: While searching for any pre defined restricted password, you have to key in the entire password.

# **Creating Application Users**

Create the application users in the OFSAA setup prior to use.

Note: This step may not be required if you have already setup users in the OFSAA setup.

For more information refer user creation section from the Oracle Financial Services Analytical Applications Infrastructure User Guide.

## Mapping Application User(s) to User Group

Starting the OFSAA 8.0 release, with installation of Profitability Application Pack, pre-configured application user groups are seeded. These user groups are unique to every OFSAA Application Pack and have application roles pre-configured.

Map the application user(s) to the respective Application User Group(s) and subsequently authorize the entitlements by logging in as SYSAUTH (System Authorizer) user.

For more information on seeded User Groups, refer to User Group Mapping.

## Change ICC Batch Ownership

All the seeded Batches in PFT Applications Pack will be automatically assigned to SYSADMN user during Installation. If one user who wants to see the Batches in Batch Maintenance Menu, He needs to execute the following Queries in Config Schema of the Database.

#### Syntax:

```
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromUser','toUser','infodom');
end;
OR
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromuser','touser');
end;
Where from User indicates the user who currently owns the batch, to User indicated the user
to which the ownership has to be transferred. Infodom is optional parameter, if specified
the ownership of batches pertaining to that Infodom will be changed.
Eg.
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('SYSADMN','PFTOP','OFSPFTINFO');
end;
```

# Mapping ICC Batch Execution Rights to User

Login as SYSADMN and navigate to **Identity Management > System Administrator > Function-Role Map**. Map the User-Batch Execution Mapping Screen function to RLPFTADMIN role.

Now any user who is mapped under PFT Admin User Group will have the access to the **Batch execution rights** Menu under **Operations** list.

	es Analytical Application	ons	_	_		
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elect Applications	Common Object Maintenan	ce > Operations > Batc	h Execution Rights			
inancial Services Profitability Management						
Common Object Maintenance			User Group - B	atch Execution Ma	p	0
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2% Expressions	EPMINFO_201067_EXEC		null			
Rate Management	EPMINFO_235648_EXEC		null			
Operations	EPMINFO_235664_EXEC		null			
Batch Maintenance	EPMINFO_235693_EXEC		null			
Batch Execution	EPMINFO_ACCOUNT_IN	DEX_HIST_POPULATE	This is used to load data from STG_ACCOUNT_INDEX_HIST to FSI_ACCOUNT_INDEX_HIST for given AsOfDate			
Batch Monitor	EPMINFO_ACCOUNT_M	ANAGER_REL	STG_ACCOUNT_REL_MGR_MAP to FCT_ACCOUNT_REL_MGR_MAP			
Batch Cancellation	EPMINFO_ACCOUNT_PO	SITION	Load FCT_ACCOUNT_POSITION			
Batch Scheduler	EPMINFO_ACCOUNT_SU	JMM_DE_REF	Derived Entity Refresh for Integrated Account Summary			
View Log	EPMINFO_ACCT_CUST_	RELATIONSHIP	STG_CUSTOMER_RELATIONSHIP to FCT_ACCT_CUST_RELATIONSHIP			
Simplified Batch	EPMINFO_ALM		Data Quality batch for	ALM tables		
Batch Execution Rights	EPMINFO_Account_Dime	nsion_SCD	Account Dim Batch			
Processing Report	EPMINFO_Account_Value	_Forecast_Model	Account Value Foreca			
E Process Tuning	EPMINFO_Account_Value	_Forecast_RPA	Account Value Foreca	ast Model		
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Application Preferences	EPMINFO_BROKEN_ACC	COUNT_TD_R		ind Partial Accounts Term De	posits	
Rule Specification	EPMINFO_CAMPAIGN		Data Quality batch for	CAMPAIGN tables		
Allocation History	EPMINFO_CASH_FLOW_	LOADER	Cash Flow Loader			
	EPMINFO_COLLATERAL		Data Quality batch for			
	EPMINFO_COLLECTION			Collection and Recovery tab	les	
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bout Oracle Contact Us Legal Notices Terms Of	EPMINFO_Channel_SCD		SCD for DIM_CHANN	IEL	Copyright © 2017 Oracle and/or its affiliate	

# Saving Post- Load Change Transformations

After creating users, Login to Infrastructure as any user who is mapped to PFT Admin or PFT Analyst group. Navigate to **Data Management Framework >> Post Load Changes**.

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A New window will be displayed. Click on Each Transformation from Transformations List & Click on Stored Procedure in the Right Panel, Click on Edit in the Top Right Menu and Click on Finish Button in Bottom.

Transformation Process Fig.	*				10 10 10
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**Note:** All the Transformation Stored Procedures are required to be edited and saved (Finish Button) once for getting it is available.