Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack

Installation Guide Release 8.0.5.0.0 March 2018



DOCUMENT CONTROL

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1.0	Created: March 2018	Document contents are categorized to appropriate sections and structured considering all the 8.0.5.0.0 features.
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Executive Summary

The document consists of all the installation, Pre and Post configuration procedures which have been structured considering all the 8.0.5.0.0 features. You can find the latest copy of this document in <u>OHC</u> Documentation 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 Oracle Support Portal with the required login credentials to quickly notify us for any specific issues. You can obtain one by contacting <u>Oracle Support Services</u>.

Oracle Financial Services Software



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Preface

Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack (OFS REG REP US Treasury) enables the banks to comply with TIC regulations. It provides integrating risk data reporting systems and enhances the accuracy of reporting in banks. OFS Risk Regulatory Reporting (RRR) helps in achieving the objectives by enabling preset steps based on the generalization of a set of solutions. This is made possible by:

- Providing a centralized data storage for risk data through relevant subject areas of Financial Services Data Foundation (FSDF)
- Interfacing with a third party reporting tool Lombard Risk Reporter Portal to build necessary template reports to meet the regulatory expectations
- Managing accuracy of risk reporting through Data Governance Studio (DGS)

This document provides step-by-step instructions to install the Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack (OFS REG REP US Treasury) Release 8.0.5.0.0.

This chapter discusses the following topics:

- Audience
- <u>Scope</u>
- Prerequisites for the Audience
- Documentation Accessibility
- Related Documents
- <u>Conventions Used</u>

Audience

This document is meant for Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack System Administrator. It provides step-by-step instructions necessary for installing the OFS REG REP US Treasury application components.

Scope

This document provides a step-wise instruction to install Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack.

Prerequisites for the Audience

Following are the expected preparations before starting the actual installation:

- The document assumes you have experience in installing Enterprise components.
- Basic knowledge about the Oracle Financial Services Data Foundation Application Pack components, OFSAA Architecture, UNIX commands, Database concepts and Web Server/ Web Application Server is recommended.

Documentation Accessibility

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



Access to Oracle Support

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

Related Documents

This section identifies additional documents related to Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack. You can access Oracle documentation online from Documentation Library (<u>OHC</u>):

- Oracle Financial Services Regulatory Reporting for US Treasury Lombard Risk Integration Pack Release 8.0.5.0.0 User Guide
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.5.0.0 Java 7 and Java 8
- Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide (present in this <u>OHC</u> Documentation Library)

Conventions	Description
References to section	ons or chapters in the manual are displayed in Italics.
Screen names are d	isplayed in the following manner: Introduction screen
Options and buttons	are displayed in Bold.
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure
	Application Pack
RHEL	Red Hat Enterprise Linux
Atomic Schema	Database schema where the application data model is uploaded.
Config Schema	Database schema which contains setup related configurations and metadata.
OFS REG REP	Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk
US Treasury	Integration Pack

Conventions and Acronyms



1 Hardware and Software Requirements and Specifications

This section describes the various Operating System, Database, Web Server, and Web Application Server version and other variant details on which this release of the OFS Regulatory Reporting for US Treasury – Lombard Risk Integration Pack (OFS REG REP US Treasury) application has been qualified.

NOTE: You can refer to <u>Technology Matrix</u>, for Hardware and Software Requirements.

1.1 Configurations Supported for Java 7

The following table shows the minimum hardware and software requirements for OFS REG REP US Treasury (Java 7) application on each machine.

Requirement	Sub-Category	Value		
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit Note: Same versions of RHEL are supported.		
	Shell	KORN Shell (KSH)		
Note: If the operat as root user: • yun • yun	ing system is RHEL, install the package 1s n install redhat-lsb-core n install redhat-lsb	b_release using one of the following commands by logging in		
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit			
Oracle Database Server and Client	Oracle Database Server Enterprise Edition without partitioning option Oracle Database Server Enterprise Edition without partitioning option Oracle Client 11g Release 2 (11.2.0.3.0+) Oracle Client 12c Release 1 (12.1.0.1.0+) Oracle 11g Release 2 (11.2.0.3+) JDBC du Oracle 12C Release 1 (12.1.0.1+) JDBC du Oracle 12C Release 1 (12.1.0.1+) JDBC du Note : Ensure that the following patches are appl Oracle Server 12c, v12.1.0.1 – 17082699 Oracle Server 12c, v12.1.0.2 - 19392604, Also for latest information, refer http://supp	n 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ n 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ - 64 bit - 64 bit river (Oracle thin driver) lriver (Oracle thin driver) ied: 19649591 port.oracle.com/, 12.1.0.2 Bundle Patches for Engineered		



Requirement	Sub-Category	Value		
	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		
OLAP	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 For Oracle OLAP, ensure that you have co	is required only if you are using the OLAP feature of OFSAAI.		
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux	 Oracle HTTP Server 11.1.1.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server Oracle WebLogic Server 12.1.2+ (64 bit) IBM WebSphere Application Server 8.5+ with bundled IBM Java Runtime (64 bit) Apache Tomcat 8.0.x (64 bit) 		
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.			
	Operating System	MS Windows 7/ Windows 8/ Windows 8.1		
Desktop Requirements	Browser	MS Internet Explorer 9 , 10(Compatibility Mode) and 11 (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings.		
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 or above		
	Screen Resolution	1024*768 or 1280*1024		
	-	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.		
Directory Services	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.			



1.2 Configurations Supported for Java 8

The following table shows the minimum hardware and software requirements for installing OFS REG REP US Treasury pack on each machine.

Requirement	Sub-Category	Value	
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	 Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit Note: Same versions of RHEL are supported. 	
	Shell	KORN Shell (KSH)	
Note: If the operat as root user: • yun • yun	ing system is RHEL, install the package lsb_rele n install redhat-lsb-core n install redhat-lsb	ase using one of the following commands by logging in	
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux	Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit	
Oracle Database Server and Client	 Oracle Database Server Enterprise Editiwith/ without partitioning option Oracle Database Server Enterprise Editiwith/ without partitioning option Oracle Client 11g Release 2 (11.2.0.3.0.) Oracle Client 12c Release 1 (12.1.0.1.0.) Oracle 11g Release 2 (11.2.0.3+) JDBC Oracle 12C Release 1 (12.1.0.1+) JDBC Note: Ensure that the following patches are applied: Oracle Server 12c, v12.1.0.1 – 1708269 Oracle Server 12c, v12.1.0.2 - 19392604 Also for latest information, refer http://sueengineeredSystems and DB In-Memory 	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 2C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) that the following patches are applied: Oracle Server 12c, v12.1.0.1 – 17082699 Oracle Server 12c, v12.1.0.2 - 19392604, 19649591 Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)	
	Oracle Hyperion Essbase V V	V 11.1.2.1+ (Server and Client) with Oracle 11g Database V 11.1.2.3+ (Server and Client) with Oracle 12c Database	
OLAP	Oracle OLAP V	11.2.0.3+ with Oracle 11g Database 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 OF 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 HTTP Server 11.1.1.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server • Oracle WebLogic Server 12.1.3+ (64 bit) • Apache Tomcat 8.0.x (64 bit) Note: IBM WebSphere 8.5.x (Full Profile) on Java 8 is not available.		
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.			
	Operating System	MS Windows 7/ Windows 8/ Windows 8.1		
Desktop Requirements	Browser MS Internet Explorer 9 , 10(Compatibility Mode) (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more in refer <u>Internet Explorer Settings</u> .			
	Office Tools MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 or above			
	Screen Resolution	1024*768 or 1280*1024		
	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.		
Other Software	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.			

OFS REG REP US Treasury application recommends the following software combinations for deployment.

Recommended Software Combinations

Operating System	Database	Web Application Server	Web Server
Oracle Linux 5.3 up to 5.10 /	Oracle Database	Oracle WebLogic Server /	Oracle HTTP Server /
6.0 and above		Apache Tomcat Server	Apache HTTP Server



1.3 Verifying the System Requirements

To verify that 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.

The system environment verification is an integral and automated part of the installation of this software product. However, 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* (<u>OHC Documentation Library</u>).



2 Preparing for Installation

This chapter provides necessary information to review before installing the OFS REG REP US Treasury Application v8.0.5.0.0. This chapter includes the following topics:

- Obtaining the Software
- Prerequisites for Installation
- <u>Configuration for GUI Mode Installation</u>
- <u>Copying and Extracting the Software</u>

2.1 Obtaining the Software

This release of OFS REG REP US Treasury 8.0.5.0.0 can be downloaded from the Oracle Software Delivery Cloud (<u>https://edelivery.oracle.com</u>). You need to have a valid Oracle account in order to download the software.

2.2 Prerequisites for Installation

The following are the prerequisites to install OFS REG REP US Treasury application:

- Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 8.0.5.0.0 patch (25873206)
- Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 8.0.5.0.1 (one-off patch 26589735)
- Oracle Financial Services Data Foundation (FSDF) 8.0.5.1.0 patch (27197750)
- AgileREPORTER version **1.15.6-b1293**
- AgileREPORTER Templates version **ARforTIC_v1.0.0.2**
- Ensure that you have executed .profile before you trigger the installation
- Ensure that the FIC Server is up and running before you trigger the installation. For information on restarting the services, Refer OFS AAI Release 8.0.5.0.0 Installation Guide (<u>OHC</u> Documentation Library) for more information.

2.3 Configuration for GUI Mode Installation

To install OFS REG REP US Treasury 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 desktop system from which the installation is triggered.
- Configure DISPLAY variable.

Ensure to set the DISPLAY variable on the system on which the OFSAA is installed, to point to the 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 desktop system and n is the sequence number (usually 0).

For example, 10.11.12.13:0.0 or myhostname:0.0



2.4 Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFS REG REP US Treasury application components will be installed.

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

- Download the unzip utility (OS specific) unzip_<os>.z, and copy it in Binary mode to any directory and include the directory 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:** In case 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 OFS REG REP US Treasury 8.0.5.0.0 in the Download Directory installer archive file using the following command:

unzip OFS_REG_REP_USTRE_8.0.5.0.0_<os>.zip

NOTE: DO NOT rename the Application 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 755 OFS_REG_REP_USTRE



3 GUI Mode Installation

The OFS REG REP US Treasury installer can be installed in both GUI and silent mode.

For executing the installer in silent mode, refer to the section <u>Silent Mode Installation</u>.

For running in GUI mode, follow these steps:

- 1) Log in to the system as non-root user
- 2) Execute the user .profile
- 3) Navigate to installer location OFS_REG_REP_USTR/bin
- Run the installer in GUI Mode by executing the command: ./setup.sh GUI



Installation Splash Screen



1. The **Introduction** screen displays the prerequisites for installation. Ensure that the prerequisites are satisfied before you proceed.



Introduction Screen

2. Choose the **Log Mode** for this installer. If you select, **Debug**, the Passwords will be printed in the Log File.







3. In the **Pre-Setup Information** screen specify the existing Infodom name to be used for the application installation and click **Next**.

		Pre-Setup	Information
 Introduction Pre-Install Configuration Pre-Install Summary Installing Install Complete 	Infodom Name FSDFINFO Specify the Reg Reporting US Treasury Segment USTRSEG	L	
FINANCIAL SERVICES			
InstallAnywhere Cancel <u>H</u> elp		<u>P</u> revious	Next

Pre Setup Information Screen – Infodom Type

4. In the **Pre-Setup Information** screen, select **New application/source pair** to create a new ETL application and click **Next**.



Pre-Setup Information – ETL Application Selection Screen



5. In the **Pre-Setup Information** screen, enter the **ETL Application Name & Description** as you wish and **ETL Source Name & Description** as you wish. Then click **Next**.

			Pre-Setup I	nformation
Introduction	ETL Applicat	ion Details		
Pre-Install Configuration	Name	USTR_APP		
O Pre-Install Summary	Description	US Treasury Application		
O Install Complete	ETL Source I	Details		
	Name	USTR_SRC		
	Description			
	Description			
ORACLE				
FINANCIAL SERVICES				
InstallAnywhere				
Cancel <u>H</u> elp			<u>P</u> revious	<u>N</u> ext

Pre-Setup Information – ETL Application Details Screen

6. In the Pre-Setup Information screen, enter the OFSAAI User ID and click Next.



Default Value is: SYSADMN

Pre-Setup Information – OFSAAI User ID Screen



7. The Pre-Install Configuration (Please Wait) screen is displayed.



Pre-Install Configuration – Please Wait Screen



8. Review the settings in the Pre-Installation Summary screen and click Install.

Pre-Installation Summary Screen



9. The following message is displayed. Select **Yes** to begin the installation process.



10. The Installing SolutionSetup screen is displayed.



Installing SolutionSetup Screen



11. The Install Complete screen is displayed.



Install Complete Screen

- 12. Refer to the log file created in the path /OFS_REG_REP_USTR/logs of installer directory for any error messages.
- 13. Click **Done**. Installation is complete.



4 Silent Mode Installation

Silent installation is achieved via a properties file [Silent.props] that must be updated with proper values, before attempting to install using the silent mode. Follow the below steps to install the product in Silent Mode:

- 1. The installer folder contains the template file "Silent.template".
- 2. Create a copy of this file and rename the copy as "Silent.props".
- 3. Edit the file "Silent.props" and specify the parameters as per the requirements.

Property Name	Description of Property	Permissible Values	Comments
LOG_MODE	Mode for logging	0 = Debug 1= General	Optional; Default : 0
INFODOM_NAME	Specify name of Information Domain (Infodom) into which you wish to install.	For example: OFSBFNDINFO	Mandatory. Specify Infodom Name Value where FSDF Application is got installed
APPFTP_LOG_PATH	Specify the Infodom App Maintenance log path	For example: /home/ftpshare/OFSBFNDINFO/logs	Mandatory. Path value must be same as the path which was given during FSDF installation
DBFTP_LOG_PATH	Specify the Infodom DB Maintenance log path	For example: /home/ftpshare/OFSBFNDINFO/logs	Mandatory. Path value must be same as the path which was given during FSDF installation
SEGMENT_1_CODE	Specify the US Treasury Segment Code	For example: USTRSEG	Mandatory
ETL_APPSRC_TYPE	Please specify if you want create new ETL App/Src pair or use an existing one.	0 = If you want to create a new ETL app/src pair 1 = If you want to use an existing pair	Mandatory



ETL_APP_1_NAME	Specify the ETL Application Name where the Definitions will be deployed.	For example: USTRE	Mandatory
ETL_SRC_1_1_NAME	Specify the ETL Source Name into ETL Area Definitions will be deployed	For example: PROCESSING	Mandatory
ETL_APP_1_DESC	Please give description for the ETL Application	For example: USTRE Application	Mandatory when ETL_APPSRC_TYPE = 0
ETL_SRC_1_1_DESC	Please give description for the ETL Source	For example: USTRE Processing Source	Mandatory when ETL_APPSRC_TYPE = 0

- 4. Log in to the system as **non-root** user
- 5. Execute the user **.profile**
- 6. Navigate to installer location OFS_REG_REP_USTR/bin
- 7. Run the installer in SILENT Mode with the following command:

./setup.sh SILENT

8. Refer to the console log [or the preinstall.log file] for any error messages.



5 Post Installation Activities

Perform the following instructions after successful installation:

- Refer to the log file in the /OFS_REG_REP_USTR/logs directory to ensure that there are no errors reported.
- Restart all the OFSAAI Servers. Refer *OFS AAI Release 8.0.5.0.0 Installation Guide* (<u>OHC</u> Documentation Library) for more information.
- Execute all the batches to Re-save the Derived Entities:
 - o <<infodom>>_reg_rep_ustre_de_resave
- Execute the following batch:
 - <<INFODOM>>_USTRE_RUNEXE_RESAVE

The Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack is now ready for use. If you encounter any problems during set up, contact OFSAA Support at <u>Oracle</u> <u>Support Services</u>.

5.1 Deploying the Reporter Portal Package Configuration

The folder Config_Package, in the installer folder (OFS_REG_REP_USTR/Config_Package/) contains the file OFSAA_REG_REP_USTRE_80500.zip.

After saving the derived entities, proceed to deploy the product configuration on Reporter Portal using the package OFSAA_REG_REP_USTRE_80500.zip bundled inside Config_Package folder of the installer.

Refer to the Lombard Package Configuration document for details on configuring the file. Refer to the *Lombard Reporter Portal Installation Guide v1.15*, for more details on installing Product Configuration on Reporter Portal.

The OFS Regulatory Reporting for US Treasury – Lombard Risk Integration Pack is now ready for use. If you encounter any problems during set up, contact OFSAA Support at <u>Oracle Support</u>.



6 Creating and Deploying EAR/ WAR File

This chapter describes the steps to create and deploy the EAR/ WAR file.

- <u>Creating EAR/WAR File</u>
- Deploying EAR/WAR File

6.1 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 "Total time" 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. For OFSAA configured on Tomcat installation, **<contextname>.war** will be created.

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6.2 Deploying EAR/WAR File

This section includes the following topics:

- Deploying EAR/WAR Files on WebSphere
- Deploying EAR / WAR File on 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).

6.2.1 Deploying EAR/WAR Files on WebSphere

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

 Start WebSphere Profile by navigating to the path /<Websphere_Installation_Directory>/IBM/WebSphere/AppServer/profiles/<P rofile_Name>/bin/ and execute the command:

./startServer.sh server1

2. Open the following URL in the browser: http://<ipaddress>:<Administrative Console Port>/ibm/console. (https if SSL is enabled). The login screen is displayed.

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

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**. The *New Application* window is displayed.

New App	lication	
New A	Application page provides links to create new applications of different types.	
Insta	a New Application	
х	New Enterprise Application	
х	New Business Level Application	
	New Asset	

New Application

5. Click **New Enterprise Application**. The *Preparing for the application installation* window is displayed.

pecify the EAR, WAR, JA	R, or SAR module to upload and install.	
Path to the new appl	cation	
Local file system		
Full path		
	Browse	
Remote file system		
Full path		
/scratch/oracle/wa	855/profiles/TEST80AAI/AAI8(Browse	

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**.



How do you wa	ant to install the application?	
Fast Path - P	rompt only when additional information is required.	
🔊 Detailed - Sh	ow all installation options and parameters.	
Choose to gen	erate default bindings and mappings	

Installation Options

7. Select the Fast Path option and click Next. The Install New Application window is displayed.

specify options for maturing er	terprise applications and modules.
 Step 1: Select installation options 	Select installation options
Step 2 Map	Specify the various options that are available for your application.
	Precompile JavaServer Pages files
<u>Step 3</u> Summary	Directory to install application
	Application Build ID Unknown Allow dispatching includes to remote resources Allow servicing includes from remote resources Business level application name Create New BLA Create New BLA Asynchronous Request Dispatch Type Disabled Asynchronous Request Dispatch Type Disabled Disploy client modules Client deployment mode Isolated Validate scheme

Install New Application



8. Enter the required information and click Next. The Map Modules to Servers window is displayed.

Step 1 Select	Map mo	dules to se	rvers	
installation options → Step 2: Map modules to servers <u>Step 3</u> Summary	Specify contain servers configu Cluste WebS	targets such ed in your ap Also, speci ration file (pl ers and serve phere:cell=c	n as application se plication. Modules fy the Web servers ugin-cfg.xml) for e: rs: fss2311701Node	rvers or clusters of application servers where you want to install the modules that are can be installed on the same application server or dispersed among several application as targets that serve as routers for requests to this application. The plug-in ach Web server is generated, based on the applications that are routed through. D2Cell,node=ofss2311701Node02,server=server1
		Module	URI	Server
	Select			

Map Modules to Servers

9. Select the **Web Application** and click **Next**. The *Map Resource References to Resources* window is displayed.

<u>Step 1</u> Select installation options	Map r	esource refere	nces to	resources			
· <u>Step 2</u> Map modules to servers ➔ Step 3: Mapresource	Each n	esource reference sql.DataSource Set Multiple 1ND	that is d	efined in your applicat	ion must be mapped to a re	source.	Properties
references to resource		Sec Holopie Step.	r rednies				Tropertiesti
<u>Step 4</u> : Map virtual hosts to Web modules	Q	0					
<u>Step 5</u> : Summary	Select	Module	Bean	URI	Resource Reference	Target Resource JNDI Name	Login configuration
	=	OFSAAI Web Application		AAI80.war,WEB- INF/web.xml	jdbc/OFSALMINFO	jdbc/OFSALMINFO Browse	Resource authorization: Container Authentication method: None
	٥	OFSAAI Web Application		AAI80.war,WEB- INF/web.xml	jdbc/FICMASTER	jdbc/FICMASTER Browse	Resource authorization: Container Authentication method: None
		OFSAAI Web Application		AAI80.war,WEB- INF/web.xml	jdbc/OFSCAPADQINFO	jdbc/OFSCAPADQINFO Browse	Resource authorization: Container Authentication method: None

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**. The *Map Virtual hosts for Web Modules* window is displayed.



Step 1 Select	Map vi	Map virtual hosts for Web modules			
installation options <u>Step 2</u> Map modules to servers <u>Step 3</u> Map resource references to resources	Specif in you them E Ap	Specify the virtual host where you want to install the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts. Apply Multiple Mappings			
→ Step 4: Map virtual	Select	Web module	Virtual host		
hosts for Web modules	1000				

Map Virtual host for Web Modules

13. Select the **Web Application** check box and click **Next**. The *Summary* page is displayed.

Specify options for installing	enterprise applications and modules.	
Step 1 Select	Summary	
installation options	Summary of installation options	
<u>Step 2</u> Map modules to servers	Options	Values
	Precompile JavaServer Pages files	No
<u>Step 3</u> 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
Previous Finish Ca	ancel	

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.

6.2.1.1 To Start the Application

To start the application, follow these steps:

1. Expand **Applications > Application Type > WebSphere enterprise applications**. The *Enterprise Applications* window is displayed.

interp Use the Pre	o <mark>rise Applications</mark> his page to manage installed applications. A single application can be herences	e deployed onto multiple servers.		
Sta	rt Stop Install Uninstall Update Rollout Update	Remove File Export Export DDL Export File		
D				
Select	Name 🗘	Application Status 💁		
You	can administer the following resources:			
	AAI80	*		
	DefaultApplication	•		
1	ivtApp	\$		

Enterprise Applications

- 2. Select the installed application and click **Start**.
- **NOTE:** <profilename> is the profile name given while creating the WebSphere profile. <cellname> is the cell name given during profile creation <contextname> is the context name given during installation.

6.2.2 Deploying EAR / WAR File on WebLogic

To deploy the Infrastructure application that is created during installation, follow these steps:

- 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 the Infrastructure Server by executing ./reveleusstartup.sh command.



- 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**. The *Summary of Deployments* window is displayed.

Change Center	Home	Log Out Preferences 🛃 Record He	ip	Q	Welcome, u	pg7273 Connected t	
View changes and restarts Configuration editing is enabled. Future	Home >St	Home >Summary of Deployments					
changes will automatically be activated as you modify, add or delete items in this domain.	Summary	Summary of Deployments					
Domain Structure	Control	Monitoring					
Environment Deployments	This pag domain.	e displays a list of Java EE applications Installed applications and modules can	and stand-alone application be started, stopped, update	modules the d (redeploy	at have been ins red), or deleted	stalled to this from the domain by	
Services Security Realms Trateroperability Diagnostics	first sele To instal Custon Deployr	ecting the application name and using th II a new application or module for deploy nize this table ments	e controls on this page. ment to targets in this doma	in, click the	Install button.		
Service Security Realms Theroperability Diagnostics	first sele To instal Custon Deployr	I a new application name and using th a new application or module for deploy nize this table ments	e controls on this page. ment to targets in this doma	in, click the Sł	Install button.	1 Previous Next	
€-Services Security Realms ⊕-Interoperability ⊕-Diagnostics	first sele To instal Custom Deployn Install	ecting the application name and using th II a new application or module for deploy nize this table ments Vpdate Delete Start Stop Name &	 e controls on this page. ment to targets in this doma State 	in, dick the Si Health	Install button.	1 Previous Next Deployment Order	
How do L	Custon Deployn	I a new application name and using th I a new application or module for deploy nize this table ments Vpdate Delete Start Stop Name Coupg7273	e controls on this page. ment to targets in this doma State Active	in, dick the SI Health & OK	Install button.	1 Previous Next Deployment Order 100	

Summary of Deployments

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

6.2.2.1 Explode EAR

To explode EAR, follow these steps:

- 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>/applicat
 ions/<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



- 6. Create a directory <context_name>.war under <WEBLOGIC_INSTALL_DIR>/Bea/user_projects/domains/<DOMAIN_NAME>/applicat ions/<context_name>.ear
- 7. Copy <\$FIC_WEB_HOME/<context_name>.war file to <WEBLOGIC_INSTALL_DIR>/Bea/user_projects/domains/<DOMAIN_NAME>/applicat ions/<context_name>.ear/<context_name>.war
- 8. Explode the <context_name>.war file by executing the following command to get the directory structure:

jar -xvf <context_name>.war

6.2.2.2 Install Application

To install the Application, follow these steps:

1. Open the Install Application Assistant.

stall Application Assistant	
Eack Next Finish	ancel
Locate deployment to ins	tall and prepare for deployment
Select the file path that repre the application directory or file	sents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of in the Path field.
Note: Only vaid file paths are	displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.
Path:	/oradata2/wl1035/Oracle/Middleware/user_projects/domains/upg7273/applications
Recently Used Paths:	/oradata2/w11035/Oracle/Middleware/user_projects/domains/upg7273/applications
Current Location:	10.184.134.147 / oradata2 / wl1035 / Orade / Middleware / user_projects / domains / upg7273 / applications
🔿 🗖 upg7273.ear (ope	in directory)
Rivel Next Frint Co	annal
DOUL NEAL	a ce

Install Application Assistant

2. Click Next.

istall Application Assistant
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 application
Back Next Finish Cancel

Install Application Assistant

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



Bank Have mar	and a second
Back Next Fini	an Cancei
Optional Settings	
You can modify these	e settings or accept the defaults
General	
What do you want to	name this deployment?
name.	upg7273
Security	
What security model o	o you want to use with this application?
0.0001.00	
OD Only: Use o	my roles and policies that are defined in the deployment descriptors.
Custom Palas	lice roles that are defined in the Administration Concole: use policies that are defined in the deployment
descriptor.	ose roles diacare denned in die Administration console, use policies diacare denned in die deployment.
O Custom Roles	and Policies: Use only roles and policies that are defined in the Administration Console.
Custom Roles	and Policies: Use only roles and policies that are defined in the Administration Console.
 Custom Roles Advanced: Use 	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page.
 Custom Roles Advanced: Use Source accessibility 	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity
Custom Roles Advanced: Use Source accessible How should the source	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity : files be made accessible?
Custom Roles Advanced: Use Source accessibi	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible?
Custom Roles Advanced: Use Source accessibil How should the source Use the defau	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets
Custom Roles Advanced: Use Source accessible How should the source O Use the defau Recommended selects	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets on.
Custom Roles Custom Roles Custom Roles Source accessibil How should the source Custom default Recommended selective	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets ph.
Custom Roles Cust	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets pn. ication onto every target for me
Custom Roles Custom Roles Custom Roles Custom Roles Custom Recommended selectiv Copy this appl During dealowment #	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity t files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be coverd automatically to the managed servers to which the application is targeted.
Custom Roles Custom Roles Custom Roles Custom Roles Custom Recommended selectiv Copy this appl During deployment, the	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be copied automatically to the managed servers to which the application is targeted.
Custom Roles Custom Roles Custom Roles Custom Roles Custom Roles Custom Recommended selectiv Copy this appl During deployment, th I will make the	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be copied automatically to the managed servers to which the application is targeted. e deployment accessible from the following location
Custom Roles Custom Roles Custom Roles Custom Roles Custom Recommended selection Custom Recommended selection Custom Custom Roles Cust	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be copied automatically to the managed servers to which the application is targeted. e deployment accessible from the following location
Custom Roles Custom Roles Custom Roles Custom Roles Custom Recommended selection Curing deployment, th Turing deployment, th Turing deployment, th Custom:	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be copied automatically to the managed servers to which the application is targeted. e deployment accessible from the following location [/oradata2/wil1035/Oracler/Middleware/user_projects/domaii
Custom Roles Custom Roles Custom Roles Custom Roles Course accessibilities Course accessibilities Custom Recommended selection Custom Roles Custom	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity files be made accessible? Its defined by the deployment's targets on. ication onto every target for me e files will be copied automatically to the managed servers to which the application is targeted. e deployment accessible from the following location [/oradata2/wil1035/Oracle/Middleware/user_projects/domail
Custom Roles Cust	and Policies: Use only roles and policies that are defined in the Administration Console. e a custom model that you have configured on the realm's configuration page. lity e files be made accessible? Its defined by the deployment's targets the deployment's targets custom onto every target for me e files will be copied automatically to the managed servers to which the application is targeted. e deployment accessible from the following location [/oradata2/wil1035/Oracler/Middleware/user_projects/domail on 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

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. The Deployment Summary window is displayed.



nstall Application A	ssistant	
Back Next Fin	ish Cancel	
Review your choi	ces and click Finish	
Click Finish to comple	ete the deployment. This may take a few moments to	complete.
 Additional config 	guration	
In order to work succ	essfully, this application may require additional config	ration. Do you want to review this application's configuration after completing this assistant?
Yes, take me	to the deployment's configuration screen.	
🔘 No, I will revie	w the configuration later.	
- Summary		
Deployment:	/oradata2/wl1035/Oracle/Middleware/user_proj	ects/domains/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 def	ned in the deployment descriptors.
Target Summary		
Components 🗠		Targets
upg7273.ear		AdminServer
Back Next Fin	ish Cancel	

Deployment Summary

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



erview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes		
Save								1		
Use this pa the end of	ige to view the gener the page lists the mo	ral configuration o idules (such as W	of an Enterp eb applicatio	ise applicat ns and E3B	ion, such a s) that are	s its name, contained i	the physical pa n the Enterpris	th to th applica	e application files, the associated deployment plan, and so on. The table at atom. Click on the name of the module to view and update its configuration.	
lame:		upg7273							The name of this Enterprise Application. More Info	
Path:		/ oradata2/w1035/ Oracle/ Middleware/ user_projects/ domains/ upg7273/ applications/ upg7273. ear						7273/ The path to the source of the deployable unit on the Administration Server. More Info		
Deployme	ployment Plan: (no plan specified)						The path to the deployment plan document on Administration Server. More Info			
Staging M	ode:	(not speafied)							The mode that specifies whether a deployment's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More Info	
Security P	lodel:	DDOnly							The security model that is used to secure a deployed module. More Info	
🔁 Deploy	ment Order:	100						An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. More Info		
街 Deploy Name:	ment Principal								A string value that indicates what principal should be used when deploying the file or archive during startup and shutdown. This principal will be used to set the current subject when calling out into application code for interfaces such as Application. If explicitly call the principal name is specified, then the anonymous principal will be used. More Info	
Save Modules a	and Components									
Name									Showing 1 to 1 of 1 Previous Nex	
name vy									Enterprise	
E upg72	73								Application	
ELEX	s StateLessCacheBear	nBean							B	
C Mo	dules								Web Application	
E Mo	/upg7273							_		
E Mo	/upg7273 beancache.jar								EJB Module	
E Mo	Jupg7273 beancache.jar b Services								EJB Module	

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**. The Summary of Deployments window is displayed.



Summary	of Deployments					
Control	Monitoring					
This pag (redeplo To instal Custon Deployr	te displays a list of Jar yed), or deleted from II a new application or nize this table ments	va EE applications and stand-alone application modules the the domain by first selecting the application name and us module for deployment to targets in this domain, click the	at have been installed to th ing the controls on this pag Install button.	is domain. Ins je,	tailed applications and module	s can be started, stopped, updated
Install	Update Delete	Start V Stop V			s	howing 1 to 1 of 1 Previous Next
	Name 谷	Servicing all requests Servicing only administration requests	State	Health	Туре	Deployment Order
	🗈 🔂 upg7273		Active	✓ ok	Enterprise Application	100
Install	Update Delete	Start v Stop v			S	howing 1 to 1 of 1 Previous Next

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.

nmary	of Deployments				
ontrol	Monitoring				
redeplo	oyed), or deleted from the domain by first selecting the applica	ion name and using the controls on this pay	ge.		
To insta Custon eploy:	all a new application or module for deployment to targets in this nize this table ments	domain, click the Install button.			
To insta Custon reployr instal	all a new application or module for deployment to targets in this nize this table ments Update Delete Start V Stop V	domain, click the Install button.		S	howing 1 to 1 of 1 Previous N
To insta Custon leployr instal	all a new application or module for deployment to targets in this mize this table ments Update Delete Start × Stop × Name ŵ	domain, click the Install button.	Health	5 Туре	howing 1 to 1 of 1 Previous N Deployment Order

Summary of Deployments

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



6.2.3 Deploying WAR Files on Tomcat

Before deploying the WAR files, ensure that the previously deployed applications of Infrastructure are uninstalled.

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

1. Copy the <context-name>.war file from \$FIC_WEB_HOME/ <context-name.war> to <Tomcat Installation Directory>/webapps/ directory.



Tomcat Home Page

- 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**. The *Tomcat Web Application Manager* window is displayed with the list of all the applications deployed.



reparate formater.e.	10.0_45000	own websatants me	LAND	20.22-400.211.13	100001000_04	amuo4	wares over in that the	10.104.1.
Torncal Version	JVM Version	JVM Vendor	OS Name	OS Ven	Non	OS Architecture	Hostname	IP Adds
Server Information								
Find leaks	This diagnostic check	k will tripper a full garbage collection. Use	e it with extreme caution o	n production systems.				
Check to see if a web apple	ation has caused a memory la	eak on stop, reload or undeploy						
Diagnostics								_
		Dabiol						
		Select WAR file to upload		Dowse				
makine to cepicy		An element of the second		(0)				
WAR file to dealer			Constant					
		strak or Dr	Dening Ord, Salaweonio	CASH CHEST CHEST STATE				
		XML Configurat	don the URL:		72			
		Context Pat	th (required): Johsaai					
Deploy directory or WAR file	located on server							
Deploy								
						Construction of the second sec		
imenager	None specified	Tomcat Manager Application		tue	1	Expire sessions with idle a	0 minutes	
						Start Stop Reload Undeploy		
thest-manager	None specified	Torncat Host Manager Application		tue	Q.	Expire sessions were use a	10 minutes	
	T.					Start Stop Reload Undepi	24.0	
/examples	None specified	Seniel and JSP Examples		tue	0	Expire sessions with idle a	30 minutes	
				1 Sector 1		Start Stop Reload Undepl	ay .	
CHICH	None specined	Tomcal Documentation		THE	*	Expire sessions with idle a	30 minutes	
1000	And a second second	Transfer Street Street		17444-2		Start Stop Reload Undepi	29	

Tomcat Web Application Manager

- 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.

If you encounter any problems during deployment, contact OFSAA Support at Oracle Support.



7 Appendix

7.1 Additional Information

This section includes the following topics:

- Internet Explorer Settings
- Infrastructure LDAP Configuration

7.1.1 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 Everytime I Visit the webpage and click OK.

rnet Options		Website Data Settings		X
eneral Security Privacy Content Connections Prog	grams Advanced	Temporary Internet Files	History Caches and databases	
Home page To create home page tabs, type each address	on its own line.	Internet Explorer stores of for faster viewing later.	opies of webpages, images, and media	
about:blank	*	Check for newer versions © Every time I visit th	of stored pages: ne webpage	
	*	🔘 Every time I start I	nternet Explorer	
	Una ann tab	Automatically		
	Use new tab	🔘 Never		
Startup		Disk space to use (8-1024 (Recommended: 50-250	₩B) 250 🔹	
Start with home page		Current location:		
Tabs Change how webpages are displayed in tabs.	Tabs	C:\Users\shwwali\AppData Internet Files\	a\Local\Microsoft\Windows\Temporary	
Browsing history		Move folder	View objects View files	
Delete temporary files, history, cookies, saved password form information.	ds, and web			ancel
Delete browsing history on exit				
Delete	Settings			
Appearance				
Colors Languages Fonts	Accessibility			

- 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**.



	Security	Privacy	Content	Connections	Programs	Advanced
Select	a zone to v	riew or cha	inge secur	ity settings.		
					\mathbf{O}	
Int	ernet	.ocal intra	net Trust	ed sites Re	stricted sites	
-	Interne	et			Sib	+<
0	This zon except t restricte	e is for Int hose listed d zones.	ernet web I in trusted	sites, 1 and		
Secu	rity level fo	r this zone				
Alle	owed levels	for this zo	one: Mediu	m to High		
-	- Mec	lium-higl Appropriat Prompts be Intent Jnsigned 4	n e for most efore dowr ActiveX cor	websites nloading potent ntrols will not be	ially unsafe e downloade	d
			Cust	tom level	Default	level
				<u>R</u> eset all zone	s to default	level

- 6. Click OK to save.
- 7. Click Internet Explorer >> Tools >> Compatibility View Settings.
- 8. Enter the OFSAA setup URL in the Add this website field.
- 9. Click Add.
- 10. Ensure the URL is listed under Websites you've added to Compatibility View.
- 11. In the Internet Options window, select the **Privacy** tab and select the **Turn on Pop-up Blocker** option under **Pop-up Blocker** settings.



eneral Security Privacy Content Connections Programs	Advanced Temporary Internet Files History Caches and databases
Home page To create home page tabs, type each address on its ow about:blank Use gurrent Use default Use new Start with tabs from the last session Image of tabs Image of tabs Change how webpages are displayed in tabs. Image of tabs Image of tabs Change how webpages are displayed in tabs. Image of tabs Image of tabs Change how webpages are displayed in tabs. Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Change how method tabs Image of tabs Image of tabs Delete temporary files, history, cookies, saved passwords, and tabs Image of tabs Image of tabs Delete browsing history on exit Image of tabs Image of tabs Image of tabs Colors Languages Fonts Access	Internet Explorer stores copies of webpages, images, and media for faster viewing later. Internet Explorer stores copies of webpages, images, and media for faster viewing later. Internet Explorer stores copies of webpages. Internet Explorer viewing later. Internet Explorer stores copies of webpages. Internet Explorer viewing later. Internet Explorer viewing later. Internet Explorer Automatically Never Disk space to use (8-1024MB) (Recommended: 50-250MB) Current location: C: Users Showwall AppData Local Microsoft Windows (Temporary Internet Files \ Move folder View objects OK Cance

- 12. Click **Settings**. The Pop-up Blocker Settings window is displayed.
- 13. Enter the URL of the OFSAA Application in the Address of Website to Allow: field.
- 14. Click Add. The OFSAA URL is displayed in the Allowed Sites section.
- 15. Click Close.
- 16. Click **OK** in the Internet Options window.

7.1.2 Infrastructure LDAP Configuration

This provides you with the option of using LDAP (Lightweight Directory Access Protocol) authentication or Infrastructure SMS authentication for logging on to Infrastructure.

If you are using the Infrastructure authentication, the user and user group details, profile creation, function and role maintenance and other mappings can be done through the Infrastructure Administration module under Security Management. The data in this case, will be updated in the CSSMS table.

However, if you wish to use LDAP for user authentication, then you have to ensure that the LDAP server is installed and configured. Also make sure that OPEN LDAP 2.2.29+ is installed and configured in Windows machine. Before doing the following configuration, it is required to select the "Authentication type" as LDAP in the *Configuration* screen of Infrastructure. This screen can be accessed by selecting *System Configuration* > *Configuration* in the LHS menu of Infrastructure. In the Windows machine in which LDAP Server is installed, go to the OpenLDAP installation directory through the command prompt and execute the command "slapd -d 1" to start the LDAP server.



7.1.2.1 Configure Infrastructure "Configuration Schema"

In the Infrastructure "configuration schema", ensure the following entries in Configuration Table.

PARAMNAME	Description	PARAM Value Example
AUTHENTICATIONTYPE	Authentication type	3 - AUTHENTICATIONTYPE value must be 3 for LDAP
ROOTCONTEXT	The Root Context for the LDAP Directory	dc= <ofsaa>, dc=<com></com></ofsaa>
ROOTDN	The Root dn for LDAP directory	cn= <manager>, dc=<reveleus>, dc=<com></com></reveleus></manager>
ROOTPASS	Password for the Root	<secret></secret>
LDAPURL	LDAP URL	<ldap: 10.11.12.13.1234=""></ldap:>
LDAP_SSL_MODE	LDAP in SSL Mode	N for non - SSL and Y for SSL
HASHPASS	Should the user password be Hashed	FALSE or TRUE. When HASSPASS is set as FALSE, we need to have the ROOTDN value as "uid=ORCLADMIN, ou =Users, dc=OFSAAI, dc=com". ORCLADMIN is a dummy user, it will be replaced dynamically with the logged in user. When HASSPASS is set as TRUE, we need to have the ROOTDN value as "cn=orcladmin, cn=Users, dc=i-flex,dc=com" and proper oracladmin LDAP password as ROOTPASS. First OFSAAI connects to LDAP directory using orcladmin user and fetches the login user details and verifies the entered password.
RETRIEVE_DN	To retrieve Distinguished Name	TRUE

NOTE: ROOTCONTEXT, ROOTDN, and ROOTPASS entries should be same as in the slapd.conf file.



7.1.2.2 Configure OpenLDAP Files

- 1. Copy the reveleusSchema.schema from <Infrastructure Installation Directory> /ficapp/common/FICServer/conf/LDAP LDIF folder to LDAPServer Schema folder.
- 2. Copy the Domains.ldif and Reveleus.ldif files from <Infrastructure Installation Directory>/ficapp/common/FICServer/conf/LDAP_LDIF folder to OpenLDAPServer folder.
- **NOTE:** Make sure that the ROOTCONTEXT in the Domains.ldif and Reveleus.ldif files are the same as slapd.conf file.
 - 3. Provide the appropriate entries for ROOTDN, ROOTPASS, and ROOTCONTEXT in slapd.conf file in the OpenLDAPServer folder.
 - 4. Add the text "include schema/reveleusSchema.schema" as the first line of the slapd.conf file.
- **NOTE:** The above steps of the configuration are for OpenLDAP Server only. If you need to configure Infrastructure for any other LDAP Server, you will have to make the changes appropriately.
 - 5. In the command prompt, navigate to the LDAP installation directory and execute the command "ldapadd -D"ROOTDN" -w ROOTPASS -f/data/Reveleus.ldif"
 - 6. This is for creating the entries for Users, User Groups, Functions, Profiles, Segments, Domains, Roles, and HolidayMaster in the Data information Tree of LDAP.
 - 7. Make an entry in the Domains.ldif file for each Information Domain that is created through the Infrastructure UI.

To add an entry corresponding to the new Information Domain to the Domains.ldif file, add the following block of text with the appropriate values:

NOTE: DSNID refers to Information Domain name.

```
dn: DSNID=<DSN ID>,ou=Domains,@LDAP_DIRECTORY_ROOTCONTEXT@
changetype: add
mappedsegments: <Mapped segments/~>
dsnid: <DSN ID>
infodomname: < Information Domain Name>
objectClass: Infodom
objectClass: top
infodomdescription: < Information Domain Description>
Example:
dn: DSNID=FUSIONMOCK, ou=Domains, dc=FTP1,dc=com
mappedsegments: ~
dsnid: FUSIONMOCK
```



infodomname: FUSIONMOCK

objectClass: Infodom

objectClass: top

infodomdescription: FUSIONMOCK

Then, navigate to LDAP installation directory and execute the command "D"ROOTDN" -w ROOTPASS -f/data/Domains.ldif"

NOTE: You can add entries for multiple Information Domains at the same time.

7.1.2.3 Migrate Data from CSSMS Tables to LDAP Server

If you are using LDAP authentication, it is required to migrate all the details from the CSSMS table, which contains the information entered using the Infrastructure Administration module under Security Management to the LDAP Server.

To migrate data from CSSMS tables to LDAP server:

9. Invoke the LDAP_Migration.sh file in \$FIC_HOME/MigrationUtilities/Migration_LDAP/bin folder. The Select Source & Destination for Migration window is displayed with the option to migrate the data from SMS to LDAP or vice versa.

Select Sou	irce & Dest	ination for Migration-
	O LDAP	To SMS
	O SMS T	O LDAP
	Ok	Close

Select Source and Destination for Migration

10. Select the SMS to LDAP option and click OK. The Select Entities to Migrate window is displayed.



-Select	Entities To Migrate
	🖌 User
	🗹 User Group
	Function
	🔲 Role
	Segment
	Profile
	🔜 Holiday
	Function - Role Map
	🔲 User - User Group Map
	🔲 User Group - Role Map
	🔲 User Group - Domain Map
	Migrate Close
	Close

Select Entities to Migrate

- You can select the data that you wish to migrate such as Users, User Groups, Functions, Roles, Segment, Profiles, Holiday Master, Function Role Maps, User - User Group Maps, User Group Role Map, and User Group- Domain Map.
- 12. Select the entities that you wish to migrate and click Migrate. The data is migrated and a confirmation dialog is displayed.
- 13. You can verify the data migrated to LDAP server through the LDAP Browser.
- **NOTE:** You should also enter the passwords for all the users as passwords are not migrated in migration process.





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