

Oracle Financial Services
Analytical Applications
Infrastructure

Language Pack Installation &
Configuration Guide

Version 7.3.3.2.0



DOCUMENT CONTROL

Version Number	Revision Date	Changes Done
Draft	December 2013	Created document to capture OFSAAI 7.3.3.2.0 Language Pack Release update.
Version 1.0	February 2014	Added instructions to install patches post installation of 7.3.3.3.0 ML.
Version 2.0	April 2014	Added instruction to install the patch 17972526 post installation on 7.3.3.2.0 ML.
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Executive Summary

This document includes the necessary instructions to install / uninstall the OFSAAI 7.3.3.2.0 Language Pack and perform the required post upgrade configurations. You can find the latest copy of this document in [OTN library](#) which includes all the recent additions/revisions (if any) done till date.

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1 OFSAAI Release 7.3.3.2.0 Language Pack

This document describes the necessary steps to install and configure 7.3.3.2.0 Language Pack, and to support OFSAAI in different languages in addition to US-English. The languages supported in this release are Simplified Chinese, Traditional Chinese, French, German, Indonesian, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Thai, Turkish, Hebrew, Arabic, and Vietnamese.

Conventions and Acronyms

Conventions	Description
Screen actions are indicated in Bold	
IR	Interim Release
ML	Maintenance Level Release
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
AIX	Advanced Interactive eXecutive
NLS	National Language Support
OS	Operating System
EAR / WAR	Enterprise Archive / Web Archive
J2EE	Java 2 Enterprise Edition
OTN	Oracle Technology Network
Atomic Schema	Database schema where the application data model is uploaded.
Configuration (Config) Schema	Database schema which contains setup related configurations and metadata.

1.1 Prerequisites

- You should have **7.3.3.2.0 ML** as the minimum patch set level.
- If you have upgraded your OFSAAI environment from **7.2.x** to **7.3** version and installed **7.3.3.2.0 ML**, ensure that the current database instance has the following NLS (National Language Support) parameter settings.
 - NLS_CHARACTERSET = AL32UTF8
 - NLS_LENGTH_SEMANTICS = CHAR

If NLS parameters are not set as mentioned above, create a new database instance with the required NLS settings and move the existing schemas to the new database instance

before installing this Language Pack. For more details on migration of OFSAAI data, see [Migrating OFSAAI Schema across Database Instance](#).

1.2 How to Apply this Language Pack?

Refer to the following instructions to install the contents of this Language Pack.

1. Log in to <https://support.oracle.com/> and search for 18014608 under the *Patches & Updates* tab.
2. Download the 7.3.3.2.0 Language Pack archive file and copy it to your AAI server in **Binary** mode.

In case of a multi-tier deployment, the Language Pack needs to be copied and installed on the OFSAAI tiers in the following order:

- APP tier
- WEB tier

Note that the terminology “tier” referenced in this document refers to the different components of AAI installed on any box. For example, DB tier would mean the box on which the “ficdb” components of AAI are installed, and does not mean the physical DB engine. Similarly, the WEB tier would mean the box on which the “ficweb” components of AAI are installed, and does not mean the physical web server/J2EE engine. APP tier would mean the box on which the “ficapp” components of AAI are installed.

3. Stop all the OFSAAI Services. For more information, refer to the *Start/Stop Infrastructure Services* section in [OFSAAI 7.3 Installation and Configuration Guide](#).
4. If you have Unzip utility, skip to the next step. Download the Unzip utility (OS specific) **unzip_<os>.Z** from the location <https://updates.oracle.com/unzips/unzips.html> 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 language pack archive file.

- 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 administrator.

- Give EXECUTE permission to the file using the command:

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

For example, `chmod 751 unzip_sparc.Z`

5. Extract the contents of the 7.3.3.2.0 Language Pack archive file using the following command:

```
unzip_<os> <name of the file to be unzipped>
```

For example, `unzip_aix OFSAAI_7.3.3.2.0_LanguagePack.zip`

6. Give EXECUTE permission to the Language Pack installer script. Navigate to *LanguagePack* directory and execute the command:

```
chmod 755 InstallLang.sh
```

7. The Language Pack installation is supported in both **GUI Mode** and **Silent Mode**. Begin the Language Pack installation by executing **InstallLang.sh** file in either of the following options:

- **./InstallLang.sh GUI** - The GUI Mode of installation requires Hummingbird Exceed to be running to bring up the installation wizard `/panel`. In GUI mode of installation, enter the installation parameters through the wizard. For more information, refer [GUI Mode Installation](#) section.
- **./InstallLang.sh SILENT** - The SILENT mode of installation does not require a simulator. Set the installation parameters in the **installer.properties** file in the *LanguagePack* folder and execute the command. For more information, refer [Silent Mode Installation](#) section.

For information on Language Pack *Code* and its *Properties*, refer to the [Supported Language Pack Details](#) section.

Note the following:

- An Installation log is generated in the path `/LanguagePack/OFSAAILocale_Installation_time_stamp.log`, where *time_stamp* is of `mm.dd.yyyy hh:mi:ss` format. You can ignore ORA-00942 and ORA-00955 errors in log file. In case of any other errors, contact Oracle Support.
- You should not use process-interrupting commands like Ctrl+C or Ctrl+Z, which may terminate the process abruptly.
- If you get an error "*Validation Failed: 7.3.3.2.0 or higher version patch is not present*" while installing this Language Pack, perform the following steps:
 - I. Connect to the config schema of the OFSAA instance.
 - II. If the table `infodom_patches` has the last record as patch installed for Bug **18157182**, delete the record.
 - III. Proceed with Language Pack installation.
 - IV. On successful installation, reinsert the deleted record mentioned in step II.

8. See the additional configurations explained in the [Post Installation Configuration](#) section to complete the installation of this Language Pack.
9. Generate **EARWAR** file and redeploy the application onto your configured web application server. For more information, refer to the *Post Installation Configuration* section in [OFSAAI 7.3 Installation and Configuration Guide](#).
10. After successful installation of the Language Pack, restart all the OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in [OFSAAI 7.3 Installation and Configuration Guide](#).

1.2.1 GUI Mode Installation

When you are installing this Language Pack in GUI mode, ensure the following:

- The GUI mode of installation requires Hummingbird Exceed to be running to bring up the installation Wizard/ Panel. Navigate to the directory where **InstallLang.sh** has been copied and set the Display Environment Variable to point to the client on which Hummingbird Exceed is running. For more information, see the *Configuring the DISPLAY variable for GUI mode* section in [OFSAAI 7.3 Installation and Configuration guide](#).

NOTE: Executing **InstallLang.sh** without any argument will invoke the Language Pack installation in SILENT mode by default.

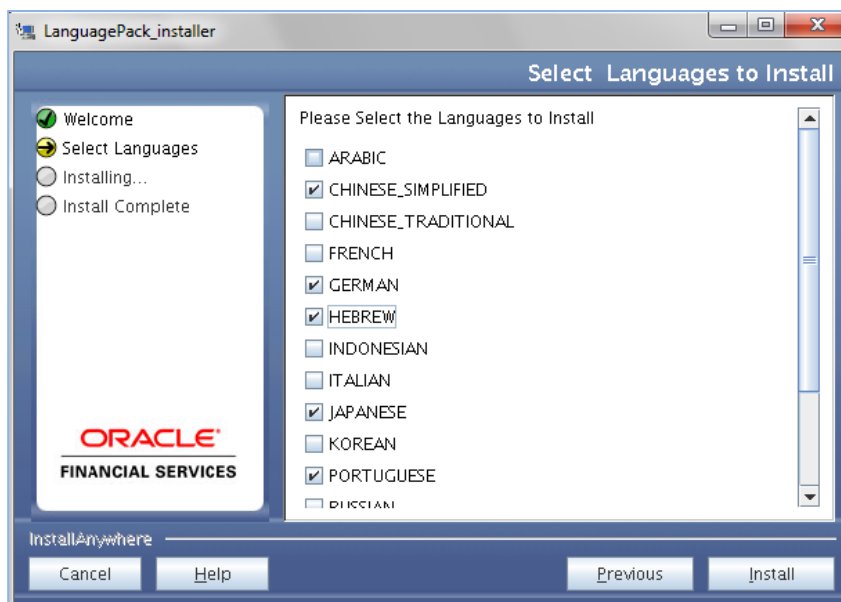
To install the Language Pack in GUI mode:

1. Execute the **InstallLang.sh** file with argument as **./InstallLang.sh GUI**.

After initialization, the *License Agreement* screen is displayed.



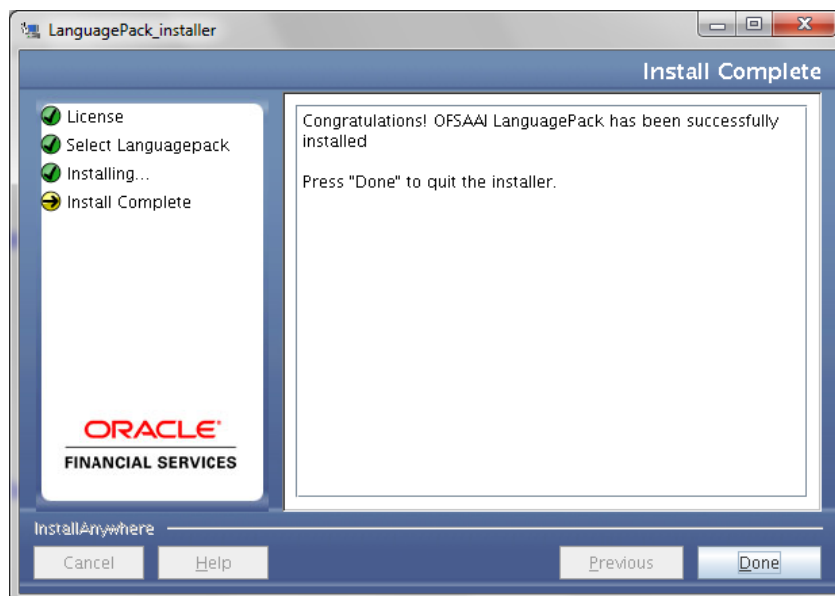
2. Select the **I accept the terms of the License Agreement** option and click **Next**.



NOTE: If you are upgrading from 7.3.2.1.0 Language Pack, the languages already installed will be automatically selected. If you want to install additional languages, select the checkboxes adjacent to the corresponding languages.

3. Select the checkboxes adjacent to the languages you want to install and click **Install**. For information on Language Pack Code and its *Properties*, refer to the [Supported Language Pack Details](#) section.

The progress of installation is displayed and on completion, a confirmation message is displayed.



4. Click **Done** to close and exit the installation wizard.

1.2.2 Silent Mode Installation

To install the Language Pack in Silent mode:

1. Modify the *installer.properties* file present in the *LanguagePack* folder to specify the required languages to be installed. Set the value to **1** against the desired languages to install or **0** to skip installation of the language. You can set the value **1** against multiple languages.

For example:

LOCALE_FRENCH=1 to install French Language.

LOCALE_GERMAN=1 to install German Language.

LOCALE_CHINESE_SIM=0 to skip the installation of Simplified Chinese Language.

NOTE: If you are upgrading from 7.3.2.1.0 Language Pack, it is not required to set the value to **1** for the installed languages. The installed languages will be automatically upgraded. If you want to add new languages, set the value of the language to **1** in the *installer.properties* file.

For information on Language Pack *Code* and its *Properties*, refer to the [Supported Language Pack Details](#) section.

2. Launch the installer in SILENT mode by executing the command:

```
./InstallLang.sh SILENT
```

NOTE: Executing **InstallLang.sh** without any argument will invoke the Language Pack in SILENT mode.

1.3 Post Installation Configuration

Post successful installation of 7.3.3.2.0 Language Pack, perform the additional configurations as explained in the following sections.

1.3.1 Applying Patches

Download the following one-off patches available at <https://support.oracle.com/> and install them by following the instructions in the Readme.txt packaged with them.

- 18292402- This patch is to view the *UMM- Import Model* screen in non-English locales. This step is required only if the patch set level of your system is 7.3.3.3.0 and above.
- 18302718- This patch populates DSN ID column in MDB locale table with relevant infodomain details. This step is required only if the patch set level of your system is 7.3.3.3.0 and above.

- 17972526 - This patch displays the LHS menu in Object Migration UI for all installed languages. This step is required only if the patch set level of your system is 7.3.3.2.0 and above.

1.3.2 Enable UTF-8 Encoding in Tomcat Server

If you have configured Tomcat as your web application server, you need to set the **URIEncoding** attribute on the `<Connector>` element in **server.xml** to UTF-8 as indicated in the following example.

```
For HTTP: <Connector port="8899" protocol="HTTP/1.1"  
connectionTimeout="20000" redirectPort="8443" URIEncoding="UTF-8"/>>
```

```
For HTTPS: <Connector port="8443" protocol="HTTP/1.1"  
SSLEnabled="true" maxThreads="150" scheme="https" secure="true"  
clientAuth="false" sslProtocol="TLS" URIEncoding="UTF-8"/>>
```

1.3.3 Set NLS_LANG Parameter Property

The `NLS_LANG` parameter has three components namely *language*, *territory*, and *character set*. You will need to set the `NLS_LANG` parameter property in user `.profile` file on the OFSAAI [DB tier](#) to UTF-8 character set.

For example:

```
NLS_LANG=AMERICAN_AMERICA.UTF8  
export NLS_LANG
```

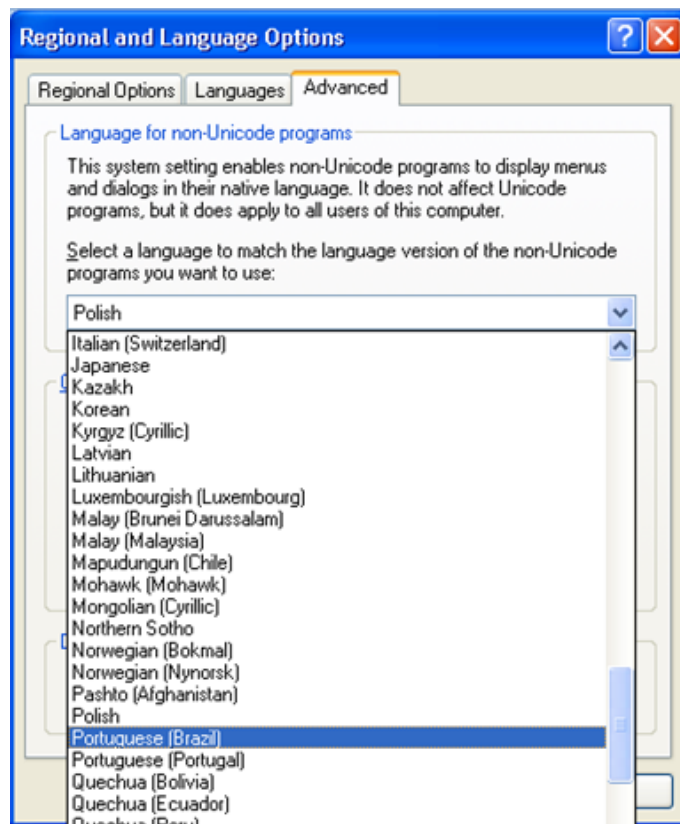
1.4 User Desktop Settings

Post successful installation of Language Pack, you need to set the following parameters on every User Desktop “Operating System” and “Browser”, before accessing the OFSAAI application.

1. Follow the below steps to enable the settings in Operating System level.

For **Windows XP**:

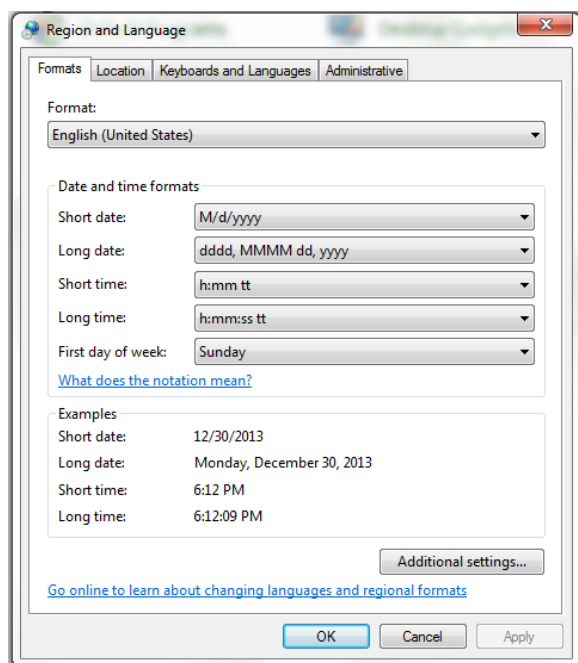
- Navigate to **Start > Control Panel > Regional and Language Options**.
- Under the **Advanced** tab, choose the desired language from the drop-down list for **Language for non-Unicode programs**.



- Click **Apply** and click **OK**.

For **Windows 7**:

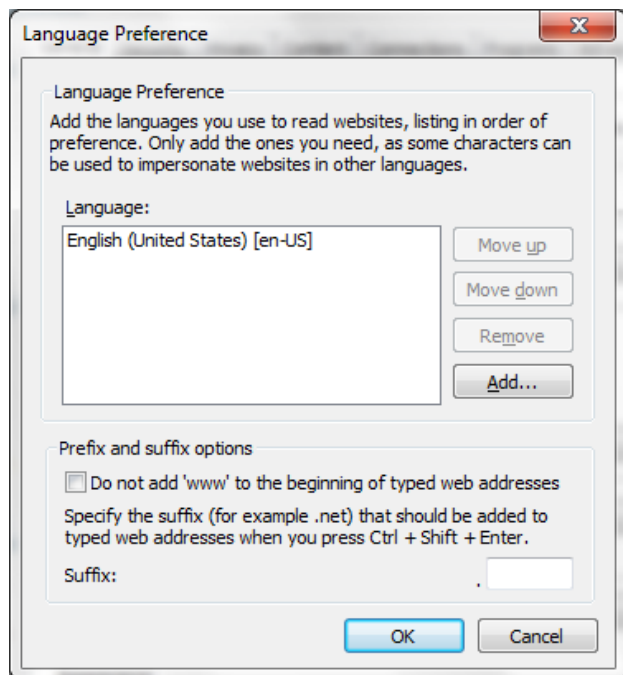
- Navigate to **Start > Control Panel > Regional and Language Options**.
- Under the **Formats** (default) tab, choose the desired language from the **Format** drop-down list.



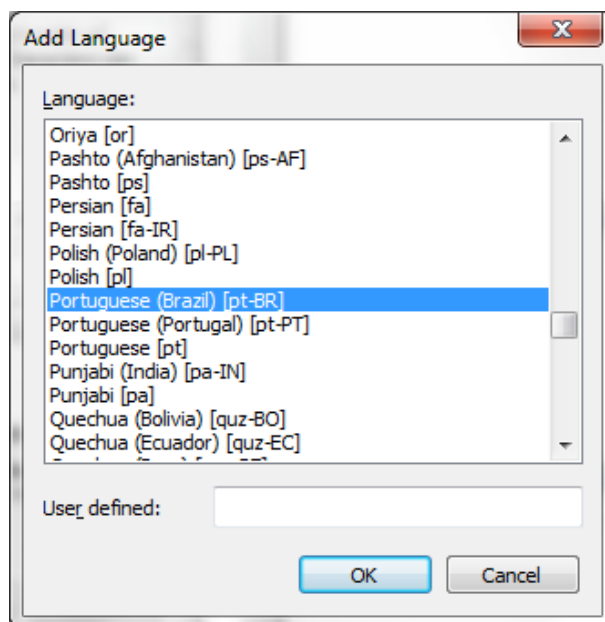
- Click **Apply** and click **OK**.

2. Perform the following steps to enable the settings in Browser (Internet Explorer).

- Navigate to **Tools > Internet Options**.
- Under the **General** tab, Click **Languages**. The *Language Preference* window is displayed.



- Click **Add**. The *Add Language* window is displayed.



- Select the installed Language Pack from the list. You can press and hold **Ctrl** key for multiple selections. For information on Language Pack *Code* and its *Properties*, see [Supported Language Pack Details](#). Click **OK**.
 - Click **OK** in the *Language Preference* window and again click **OK** in *Internet Options* window to save the settings and exit.
3. Restart the user machine for the above changes to take effect.

1.5 Language Pack Uninstallation

NOTE: Uninstalling Language Pack is not supported in GUI mode.

To uninstall 7.3.3.2.0 Language Pack:

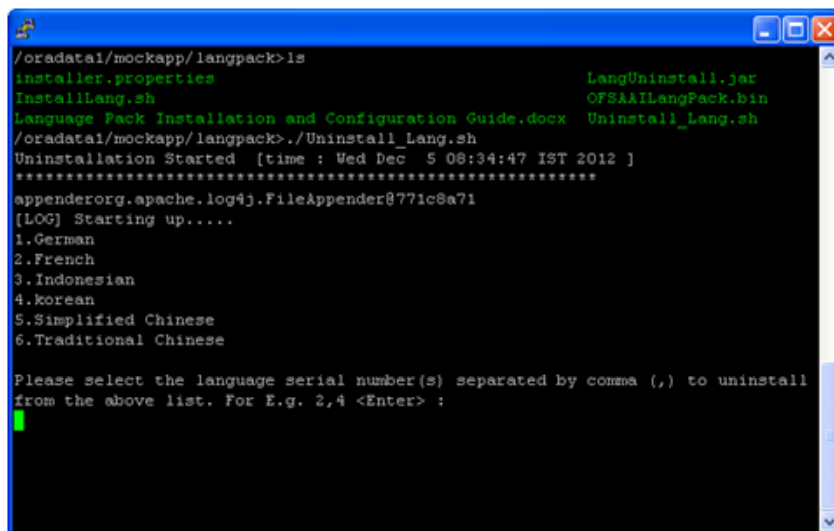
1. Navigate to the *LanguagePack* folder and execute the command:

```
./Uninstall_Lang.sh.
```

In case of a multi-tier deployment, the order of Language Pack uninstallation should be as follows:

- WEB tier
 - APP tier
2. At the prompt, enter the language serial number displayed on the console separated by comma(,) and press **ENTER** key.

The displayed list indicates the installed Language Packs in a sequence.



```
/oradata1/mockapp/langpack>ls
installer.properties           LangUninstall.jar
InstallLang.sh                OFSAAILangPack.bin
Language Pack Installation and Configuration Guide.docx  Uninstall_Lang.sh
/oradata1/mockapp/langpack>./Uninstall_Lang.sh
Uninstallation Started [time : Wed Dec 5 08:34:47 IST 2012 ]
*****
appenderorg.apache.log4j.FileAppender@771c8a71
[LOG] Starting up.....
1.German
2.French
3.Indonesian
4.korean
5.Simplified Chinese
6.Traditional Chinese

Please select the language serial number(s) separated by comma (,) to uninstall
from the above list. For E.g. 2,4 <Enter> :
█
```

For example, if you want to uninstall *German* and *French* language Packs, enter the serial numbers as **1, 2** and press **Enter**.

On successful uninstallation, a confirmation message is displayed.

2 References

This section of the document consists of information which is common to all the sections and is referenced wherever required. You can refer to the details based on your need.

2.1 Supported Language Pack Details

The following table lists all the supported languages in OFSAAI 7.3.3.2.0 Language Pack along with their code and properties available for selection.

Sl. No.	Language Pack	Locale	Locale as displayed in “Regional and Language Options” list	Code	Properties 1 = Install 0 = Don't Install
1	Simplified Chinese	LOCALE_CHINESE_SIM	Chinese (PRC)	zh_CN	0 and 1
2	Traditional Chinese	LOCALE_CHINESE_TRAD	Chinese (Taiwan)	zh_TW	0 and 1
3	French	LOCALE_FRENCH	French (France)	fr_FR	0 and 1
4	German	LOCALE_GERMAN	German (Germany)	de_DE	0 and 1
5	Indonesian	LOCALE_INDONESIAN	Indonesian	id_ID	0 and 1
6	Italian	LOCALE_ITALIAN	Italian (Italy)	it_IT	0 and 1
7	Japanese	LOCALE_JAPANESE	Japanese	ja_JP	0 and 1
8	Korean	LOCALE_KOREAN	Korean	ko_KR	0 and 1
9	Portuguese	LOCALE_PORTUGUESE	Portuguese (Brazil)	pt_BR	0 and 1
10	Russian	LOCALE_RUSSIAN	Russian	ru_RU	0 and 1
11	Spanish	LOCALE_SPANISH	Spanish (Spain)	es_ES	0 and 1
12	Thai	LOCALE_THAI	Thai	th_TH	0 and 1
13	Vietnamese	LOCALE_VIETNAMESE	Vietnamese	vi_VN	0 and 1
14	Turkish	LOCALE_TURKISH	Turkish	tr_TR	0 and 1
15	Hebrew	LOCALE_HEBREW	Hebrew	iw_IL	0 and 1
16	Arabic	LOCALE_ARABIC	Arabic	ar_EG	0 and 1

2.2 Migrating OFSAAI Schema across Database Instance

To migrate OFSAAI schemas across database instance, perform the following steps to export/import database users:

1. Connect to target database instance with **System** user and create database users with the same *Name* and *Password* as in the existing database instance.

For example, in your setup, if you have two information domains, then create one Config Schema and two Atomic Schemas as in the existing database instance.

2. Grant the following permissions to the newly created database users:

```
grant create SESSION to <DB_USER>;
grant create PROCEDURE to <DB_USER>;
grant create SEQUENCE to <DB_USER>;
grant create TABLE to <DB_USER>;
grant create TRIGGER to <DB_USER>;
grant create VIEW to <DB_USER>;
grant create MATERIALIZED VIEW to <DB_USER>;
grant olap_user to <DB_USER>;
grant select on SYS.V_$PARAMETER to <DB_USER>;
```

NOTE: You need to replace the <DB_USER> with the newly created database user.

3. To export the source Database User, connect to the machine where OFSAAI database tier is installed using CMD/ Putty and execute the following Export (EXP) command.

You can execute the below commands from your desktop if you have Oracle Client installed.

```
exp sourceDBName/Password@SID FILE="<file name>.dmp" LOG="<file name>.log"
```

NOTE: The above command creates a dump file with the specified file name in the directory from where the command is executed.

4. Import the source database user dump, by executing the following Import (IMP) command from the same directory.

```
imp sysDBName/Password@SID FILE=<file name>.dmp FROMUSER= sourceDBName TOUSER=targetDBName IGNORE=N LOG=<file name>.log
```

5. Post migration, you need to ensure that the IP Address, Port and SID are updated as per the newly created database instance. Refer to the following section for more details.

NOTE: The above steps have to be followed for Config and all the Atomic Schemas.

2.2.1.1 Update IP Address/Port/SID

Follow the below steps to update **IP Address/Port/SID** post migrating to new database instance:

1. Update the change of **SID/IP Address/Port** in Database URL in "DEFAULT_CONNECTION_URL" parameter of *\$FIC_HOME/conf/DynamicServices.xml* in OFSAAI APP, DB, and WEB tiers and *\$FIC_WEB_HOME/webroot/conf/DynamicServices.xml* in OFSAAI WEB tier installations.
2. Update the change of SID for \$ORACLE_SID in **.profile** of OFSAAI Database tier.
3. Update **IP Address/Port** for \$ORACLE_URL (if Database is on RAC) and \$DB_DETAIL in **.profile** of OFSAAI Database tier.

NOTE: Perform this step only in case of Multi Tier DB tier installation.

4. Update the Database URL in **JDBC_CONNSTR** column for all the records of "DB_MASTER" table in the Config schema.
5. Update the **SID/IP Address/Port** in *V_DATABASE_NAME/V_SRV_IP_ADDR/V_SRV_PORT* columns of "ETLSOURCEDETAILS" table in Config schema for all the Data Integrator data sources for which there is a change in the values.
6. Update the **TNS Entry** in the machine where OFSAAI DB tier is installed.
7. Update / Recreate the *JDBC Connection Pool / Data Sources* on the Web Application Server (WebSphere / WebLogic) accordingly from the respective Consoles.
8. If the web application server is Tomcat, update the URL attribute of "Resource" tag in *\$CATALINA_HOME/conf/server.xml* with the new **IP Address/Port/SID** for all the JDBC Connections.



OFSAAI 7.3.3.2.0

Language Pack Installation and Configuration Guide

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