Product Installation Manual
Oracle Financial Services Asset Liability Management
Version 6.0

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ORACLE
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About this Manual

Oracle Financial Services Asset Liability Management 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.

Audience

This Manual is meant for use by the Oracle Financial Services Analytical Applications Infrastructure System Administrator. It provides step-by-step instructions necessary for installing the Oracle Financial Services Asset Liability Management v6.0 Product.

Scope

This manual provides a step-wise instruction to install the Oracle Financial Services Asset Liability Management Product in an existing Oracle Financial Services Analytical Applications Infrastructure hosted in RHEL/OEL-5.3/5.5, Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07) - Oracle 11g R2 (11.2.0.2.0) environment.

Note: Linux 6 is not supported for ALM v6.0 even though AAI supports it.

Organization of the Manual

The Installation Manual is organized into the following chapters.

Pre Requisites section identifies the hardware and base software environment that is required for a successful installation & functioning of the Oracle Financial Services Analytical Applications Infrastructure Solution.

Installing Oracle Financial Services Asset Liability Management v6.0 Product section details the pre-installation activities followed by a step-by-step instruction on the various installation options.

Post installation Activities section details the steps that are required to be performed after a successful installation of the Oracle Financial Services Analytical Applications Infrastructure Solution.

Conventions Used in this Manual

References to sections or chapters in the manual are displayed in *Italics*.

Screen names are displayed in the following manner:

Introduction screen

Options and buttons are displayed in **Bold.**

Notes are displayed as follows:

NOTE

- It is important that the password should be 6 characters long. If you do not adhere to this pre-requisite, you will see a system message that reads **Password must be at least 6 characters long**.

Pre-Requisites

The installation process requires certain environmental variables to be set prior to starting the installation. You must ensure that these requirements are met before starting the installation. You are requested to refer to the Release Notes for the latest updates on hardware or software requirements and the OFSAAI Installation Manual for the environment variables.

Environment

Installation of Oracle Financial Services Asset Liability Management v6.0 Product requires the RHEL/OEL-5.3/5.5, Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07), 64 Bit - Oracle 11g R2 (11.2.0.2.0) version of **Oracle Financial Services Analytical Applications Infrastructure v7.3 for RHEL/OEL-5.3/5.5, Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07)**, to be installed in either a single-tier or multi-tier environment. It is implicit that all base software versions and patch levels required by the RHEL/OEL-5.3/5.5, Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07) version of Oracle Financial Services Analytical Applications Infrastructure 7.3 is available and adhered to. The supported web-servers are Tomcat 7.0.19, WebSphere 7.0.0.17 and WebLogic 10.3.5.0.

NOTE

- Linux 6 is not supported for ALM v6.0 even though AAI supports it.
- If you are doing an up-gradation please make sure that OFSAAI has been upgraded from v7.2 (Release no – 7.2.10) to v7.3.
- The Oracle Financial Services Asset Liability Management v6.0 installer download contains only the ERwin XML file that is required for uploading the model. This file is sufficient to install the v6.0 product. However, this XML file cannot be opened in the ERwin Data modeler tool and hence cannot be used for any data model customization. ERwin file is delivered as a patch and need to be downloaded separately. This ERwin file should be used for any customization of the data model. The released ERwin data model supports ERwin 7.1 version. Make sure the XSL version is 7.1 in $FIC_APP_HOME/common/FICServer/conf.

  Reference bug / patch where ERwin file can be downloaded is 13708679 - ALM 6.0 DATA MODEL.

- The following patch should additionally be applied.

  Bug 13712913 - SAVE OF AMHM SHOULD AUTOMATICALLY CREATE A CORRESPONDING UMM PC HIERARCHY DEFINITION

The RHEL/OEL-5.3/5.5, Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07) - Oracle 11g R2 (11.2.0.2.0) version of Oracle Financial Services Analytical Applications Infrastructure v7.3, once installed must be configured.

Front-End Access

- Internet Explorer 8.0/9.0
- Java Plug-in 1.6.0_21
- Acrobat Reader 8.0

- The screen resolutions supported are 1024*768 and 1280*1024

NOTE

  - Ensure that Java Plug-in is enabled in the browser settings.

Installing Oracle Financial Services Asset Liability Management v6.0 Product

Pre-Installation Activities

The following is the Pre Installation checklist to ensure the readiness to start installing Oracle Financial Services Asset Liability Management Product:

- Oracle Financial Services Analytical Applications Infrastructure v7.3 must be successfully installed on RHEL/OEL-5.3/5.5,Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07) - Oracle 11gR2 (11.2.0.2.0).
- If Infrastructure installation is on multitier environment, Execute the following commands in the DB Layer terminal

  chmod -R 777 < ftpshare folder >
- Navigate to ftpshare folder and set the umask shown as follows, this will make sure all the new files created will have 666 file permission.

  cd < ftpshare folder >

  umask 0000
- The Config and atomic schema should be two distinct oracle database users.
- Oracle database User for Atomic schema should have the following grants

  grant create session to <ORACLE_USER>;

  grant create ANY INDEX to <ORACLE_USER>;

  grant create PROCEDURE to <ORACLE_USER>;

  grant create SEQUENCE to <ORACLE_USER>;

  grant DEBUG CONNECT SESSION to <ORACLE_USER>;

  grant create TABLE to <ORACLE_USER>;

  grant create VIEW to <ORACLE_USER>;

  grant create trigger to <ORACLE_USER>;

  grant create type to <oracle_user>;

  grant select on sys.v_$parameter TO <oracle_user>:
- All Infrastructure Configuration Steps should be completed including:
  - Configuring the Database Server
  - Configuring the Application Server
  - Configuring the Web server
  - Configuring Database Details
  - Creating the Information Domain
- Please refer to the Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration Guide for further details on completing the above configuration steps.
- Please copy the entire ALM v6.0 installer download directory to the server location (Including the Data Model directory). Please give read, write and execute permission to all the files present in this directory.

- Please specify the log file path and name in the log4j.xml. Please update the "value" attribute marked in the following picture

```
<!DOCTYPE log4j:configuration SYSTEM "log4j.dtd">
<log4j:configuration xmlns:log4j="http://jakarta.apache.org/log4j/">

<appender name="ConfigReveleusFileAppender" class="org.apache.log4j.RollingFileAppender">
    <param name="file" value="/u02/setupkit/ALM60/log/FTP60.log"/>
    <param name="Append" value="true"/>
```

Figure 1: Log4j.xml file configuration

- Please make sure the path given in the log4j.xml file has read/write/execute permission.
- Please execute the "config_table_privileges_for_atomic_user.sql" script in configuration schema. This file will be present inside $FIC_HOME directory.
- Please make sure FICServer is up and running before proceeding for installation.
- Take a backup of the table REV_OBJECT_DEPENDENCIES before proceeding with installation.
- Rename the <Infodom_name>_FusionMenu.xml located in the $FIC_WEB_HOME/webroot/WEB-INF/props folder to Temp_FusionMenu.xml prior to installation of Apps

Pre-Upgrade Activities

This section is applicable only for customers upgrading from earlier version.

Back-up of Database schema and Files

- *Back-up existing config and atomic schema of the information domain that is being upgraded. This can be used to restore back the application, in case of any failures during upgrade.*
- *Back-up FTPSHARE and $FIC_HOME folders of your existing environment.*

Upgrade from v5.6

The following steps are applicable for customers upgrading from ALM v5.6 and need to be performed by the user before proceeding with installation.

Database changes

1. Create a backup of the table rev_etl_mapping in the config schema.

   create table rev_etl_mapping_60 as select * from rev_etl_mapping;

2. Execute the following scripts in the Config Schema. Data into this table is related to mapping information and will be populated back through the post-installation steps mentioned following.

   delete from rev_etl_mapping;

   commit;

T2T changes

The existing T2Ts will be replaced during upgrade installation. Hence, take a backup of existing T2Ts.

New T2T Definitions in 6.0:

- T2T_RETIREMENT_ACCOUNTS

Modified T2Ts:

- T2T_ANNUITY_CONTRACTS
- T2T_BORROWINGS
- T2T_CASA
- T2T_CREDIT_CARDS
- T2T_FRA_PAY
- T2T_FRA_RCV
- T2T_FUTURE_CONTRACTS
- T2T_FX_CONTRACTS_PAY
- T2T_FX_CONTRACTS_RCV
- T2T_GUARANTEES
- T2T_INVESTMENTS
- T2T_LEASES_CONTRACTS
- T2T_LOAN_COMMITMENTS
- T2T_LOAN_CONTRACTS
- T2T_MERCHANT_CARDS
- T2T_MM_CONTRACTS
- T2T_MODEL_HYPERCUBE
- T2T_MORTGAGES
- T2T_OD_ACCOUNTS
- T2T_OPTIONS_CAPFLOOR
- T2T_OPTION_COLLAR_PAY
- T2T_OPTION_COLLAR_RCV
- T2T_OTHER_SERVICES
- T2T_PAYMENT_SCHEDULE
- T2T_PPMT_CALC_PARAMS
- T2T_SWAPS_CONTRACTS_PAY
- T2T_SWAPS_CONTRACTS_RCV
- T2T_TERM_DEPOSITS
- T2T_TRUSTS

T2T definitions are present in the following folders:

<FTPSHARE_PATH>/STAGE

<FTPSHARE_PATH>/<INFODOM>/erwin/sources

If the user has done any customizations on the earlier T2T's, then they need to be done again on these T2T definitions.

Data model changes

If data model is customized:

1.) Open both the models using ERwin Data Modeler tool.
2.) Go to "Tools" and Select "Complete Compare"
3.) In the Compare window select your existing ALM_Datamodel on Left Model.

4.) Select extracted ALM_Datamodel on Right Model
5.) In "Type Selection" check "Subject Area"
6.) In "Advanced" option un-check ALL except "Auto Close Database/Script Models"
7.) Click "Compare"
8.) Resolve Differences Screen by applying all the changes mentioned in the ALM_Datamodel-5.6-6.0_changes.xls file.

The ALM_Datamodel-5.6-6.0_changes.xls file contains the following sheets:

a. New Table
b. New Columns
c. Dropped Columns
d. Data Type Changes
e. Null Changes

These are the changes from 5.6 to 6.0 upgrade.

9.) Click "Finish" and Close
10.) Save the file as XML in "AllFusion Repository Format" ex:- ALM_Datamodel.xml
11.) Copy the modified existing into the location "ftpshare/*INFODOM*/erwin/erwinXML". (Replace *INFODOM* with the name of the information domain)
12.) Execute the dm_pre_alm_ddl_6_0.sql on the ATOMIC schema before proceeding with installation.

NOTE:

Follow the instructions mentioned in the “Merging Data Model Changes into Existing Model.pdf” for merging the existing data model with 6.0 ALM data model.

Data from following table should be truncated. These tables are being backed up in the dm_pre_alm_ddl_6_0.sql script file.

- FSI_PLAN_MLS
- FSI_PLAN_CD
- STG_CUSTOMER_B_INTF
- STG_COMMON_COA_B_INTF
- STG_GL_B_INTF
- STG_LEASES_CONTRACTS
- STG_ORG_UNIT_B_INTF
- STG_PRODUCTS_B_INTF
- FSI_DISBURS_ACCT_TYPE_MLS
- FSI_FUNDING_STATUS_MLS
- FSI_FUNDING_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_CD
- FSI_FUNDING_STATUS_CD
- FSI_FUNDING_TYPE_CD

- FSI_D_FUTURES
- STG_CARDS

The following tables are repopulated during Post Installation Activities by running the dm_post_alm_ins_6_0.sql:

- FSI_PLAN_MLS
- FSI_PLAN_CD
- FSI_FUNDING_STATUS_MLS
- FSI_FUNDING_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_CD
- FSI_FUNDING_STATUS_CD
- FSI_FUNDING_TYPE_CD

The rest of the above truncated tables should be manually repopulated.
Scripts are not included for re-population of the following client and STG tables as these tables may have been customized with additional user defined dimensions and columns:

- STG_CUSTOMER_B_INTF
- STG_COMMON_COA_B_INTF
- STG_GL_B_INTF
- STG_ORG_UNIT_B_INTF
- STG_PRODUCTS_B_INTF
- FSI_D_FUTURES
- STG_LEASES_CONTRACTS
- STG_CARDS

Upgrade from v5.5 and below

This section mentions the details about applying the 6.0 upgrade on environments that have ALM upgrade 5.5 or below. If certain steps have been executed already during earlier upgrade installation, ignore the steps.

1. Following are the steps related to ATOMIC schema.

    a) ATOMIC schema user must have the following grant.

    GRANT CREATE TYPE TO <ATOMIC_SCHEMA_ORACLE_USER>

    b) Execute the following grant on configuration schema to give privileges to atomic schema user.

    a. grant select on BATCH_MASTER to <ATOMIC_SCHEMA_ORACLE_USER>

    c) Revoke the following privileges from ATOMIC Schema.

    b. REVOKE SELECT ON SYS.V_$PARAMETER FROM <ATOMIC_SCHEMA_ORACLE_USER>

c. REVOKE SELECT ON SYS.DBA_FREE_SPACE FROM <ATOMIC_SCHEMA_ORACLE_USER>
d. REVOKE SELECT ON SYS.DBA_TABLES FROM <ATOMIC_SCHEMA_ORACLE_USER>
e. REVOKE SELECT ON SYS.DBA_TAB_COLUMNS FROM <ATOMIC_SCHEMA_ORACLE_USER>
f. REVOKE SELECT ON SYS.DBA_OBJECTS FROM <ATOMIC_SCHEMA_ORACLE_USER>

2. T2T extract and mapping definitions will be replaced during upgrade installation. Hence, any customizations done on these extract and mappings will be lost. Hence, take a back-up of the following two folders and redo the customization in the new T2T extract and mapping definitions after Upgrade installation.

   <FTPSHARE_PATH>/STAGE
   <FTPSHARE_PATH>/<INFODOM>/erwin/sources

Database Changes

1. Create a backup of the table rev_etl_mapping in the config schema.

   create table rev_etl_mapping_60 as select * from rev_etl_mapping;

2. Execute the following scripts in the Config Schema. Data into this table is related to mapping information and will be populated back through the post-installation steps mentioned as follows.

   delete from rev_etl_mapping;

   commit;

Data model Changes

If data model is customized:

1. Open both the models using ERwin Data Modeler tool.
2. Go to "Tools" and Select "Complete Compare"
3. In the Compare window select your existing ALM_Datamodel on Left Model.
4. Select extracted ALM_Datamodel on Right Model
5. In "Type Selection" check "Subject Area"
6. In "Advanced" option un-check ALL except "Auto Close Database/Script Models"
7. Click "Compare"
8. Resolve Differences Screen by applying all the changes mentioned in the ALM_Datamodel-5.2-6.0_changes.xls file.

9. The ALM_Datamodel-5.2-6.0_changes.xls file contains the following sheets
   a) New Table
   b) Drop Table
   c) New Columns
   d) Drop Column
   e) Data Type Changes
   f) Domain Changes

These are the cumulative changes from 5.2.0 to 6.0 upgrade.

10. Click "Finish" and Close
11. Choose "Fusion - Rate Manager Tables" subject area in the data model.
12. Delete and re-create the relationship between FSI_IRC_RATE_HIST and FSI_IRC_RATE_TERMS as mentioned in step 12 and 13.
13. Click on the relationship between FSI_IRC_RATE_HIST and FSI_IRC_RATE_TERMS. Delete this relationship. This will remove INTEREST_RATE_CD, INTEREST_RATE_TERM/_MULT columns from FSI_IRC_RATE_HIST table.
14. Create a identifying relationship between FSI_IRC_RATE_TERMS and FSI_IRC_RATE_HIST tables by clicking on identifying relationship icon present in Tool Bar and click on parent table FSI_IRC_RATE_TERMS and click on child table FSI_IRC_RATE_HIST. With this, INTEREST_RATE_CD, INTEREST_RATE_TERM/_MULT columns will again be part of the FSI_IRC_RATE_HIST table
15. Save the file as XML in "AllFusion Repository Format" ex:- ALM_Datamodel.xml
16. Copy the modified existing into the location "ftpshare/*INFODOM*/erwin/erwinXML". (Replace *INFODOM* with the name of the information domain)
17. Execute the dm_alm_ddl_pre_5_5.sql and dm_pre_alm_ddl_6_0.sql on the ATOMIC schema.

NOTE:

Following are the changes mentioned in the dm_alm_ddl_pre_5_5.sql files.

a) The table FSI_IRC_RATE_TERMS is moved from the script file to the data model. A table FSI_IRC_RATE_TERMS_5_5 is created to backup data from FSI_IRC_RATE_TERMS. The backup table FSI_IRC_RATE_TERMS_5_5 can be deleted after verifying the data post upgrade installation.

b) The table FSI_IRCS is moved from the script file to the data model. A table FSI_IRCS_5_5 is created to backup data from FSI_IRCS. The backup table FSI_IRCS_5_5 can be deleted after verifying the data post upgrade installation.

c) The table FSI_INTEREST_RATES_AUDIT is moved from the script file to the data model. A table FSI_INTEREST_RATES_AUDIT_5_5 is created to backup data from FSI_INTEREST_RATES_AUDIT. The backup table FSI_INTEREST_RATES_AUDIT_5_5 can be deleted after verifying the data post upgrade installation

Data from following table should be truncated. These tables are being backed up in the dm_pre_alm_ddl_6_0.sql script file.

- FSI_PLAN_MLS
- FSI_PLAN_CD
- STG_CUSTOMER_B_INTF
- STG_COMMON_COA_B_INTF
- STG_GL_B_INTF
- STG_LEASES_CONTRACTS
- STG_ORG_UNIT_B_INTF
- STG_PRODUCTS_B_INTF

- FSI_DISBURS_ACCT_TYPE_MLS
- FSI_FUNDING_STATUS_MLS
- FSI_FUNDING_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_CD
- FSI_FUNDING_STATUS_CD
- FSI_FUNDING_TYPE_CD
- FSI_D_FUTURES
- STG_CARDS

The following tables are repopulated during Post Installation Activities by running the dm_post_alm_ins_6_0.sql:

- FSI_PLAN_MLS
- FSI_PLAN_CD
- FSI_FUNDING_STATUS_MLS
- FSI_FUNDING_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_MLS
- FSI_DISBURS_ACCT_TYPE_CD
- FSI_FUNDING_STATUS_CD
- FSI_FUNDING_TYPE_CD

The rest of the above truncated tables should be manually repopulated.
Scripts are not included for re-population of the following client and STG tables as these tables may have been customized with additional user defined dimensions and columns:

- STG_CUSTOMER_B_INTF
- STG_COMMON_COA_B_INTF
- STG_GL_B_INTF
- STG_ORG_UNIT_B_INTF
- STG_PRODUCTS_B_INTF
- FSI_D_FUTURES
- STG_LEASES_CONTRACTS
- STG_CARDS

T2T Changes

a. Login to the OFSAAI application using the web browser with the "Application user" created for ALM 5.2 installation.
b. Click on Unified Metadata Manager
   Navigate to Data Integrator Framework -> Warehouse Designer -> Database Extracts
c. Delete the following Mapping's and Extract definitions from the source that is used as "Processing" and "Staging" source during 5.2 installation, if they are present.
d. Please follow the following steps to delete the mappings
   i. Click on the left navigator DI Browser, Application -> <Processing>/<Staging> Source

ii. Under Source mapping on the right click the trashcan icon
iii. Under the left navigator DI Browser, choose the Extract, right click on the Extract and click delete

t2t_test_loan
test
t2t_ei_hist
T2T_FACT_ACCOUNT_SUMMARY_LOANS
T2T_FACT_ACCOUNT_SUMMARY_INVESTMENTS
T2T_FACT_ACCOUNT_SUMMARY_CREDITCARDS
T2T_FACT_ACCOUNT_SUMMARY_MORTGAGES
T2T_FACT_ACCOUNT_SUMMARY_LEASES
T2T_FACT_ACCOUNT_SUMMARY_LEDGER_STAT
T2T_FACT_ACCOUNT_SUMMARY_ANNUITY
T2T_FACT_ACCOUNT_SUMMARY_CREDIT_LINES
T2T_FACT_ACCOUNT_SUMMARY_BREAK_FUNDING
T2T_FACT_ACCOUNT_SUMMARY_GUARANTEES
T2T_FACT_ACCOUNT_SUMMARY_MERCHANT_CARDS
T2T_FACT_ACCOUNT_SUMMARY_MM_CONTRACTS
T2T_FACT_ACCOUNT_SUMMARY_MORTGAGE_BACK_SEC
T2T_FACT_ACCOUNT_SUMMARY_OPTIONS
T2T_FACT_ACCOUNT_SUMMARY_FORWARDS
T2T_FACT_ACCOUNT_SUMMARY_FX_CONTRACTS
T2T_FACT_ACCOUNT_SUMMARY_FUTURES
T2T_FACT_ACCOUNT_SUMMARY_MUTUAL_FUNDS
T2T_FACT_ACCOUNT_SUMMARY_SWAPS
T2T_FACT_ACCOUNT_SUMMARY_OTHER_SERVICES
T2T_FACT_ACCOUNT_SUMMARY_CASA
T2T_FACT_ACCOUNT_SUMMARY_BORROWINGS
T2T_FACT_ACCOUNT_SUMMARY_DEPOSITS
T2T_FACT_ACCOUNT_SUMMARY_TRUSTS
T2T_FACT_ACCOUNT_SUMMARY_RETIREMENT
T2T_FACT_AGG_FSA_ACCOUNT_SUMMARY
T2T_OPTIONS
T2T_SWAPS
T2T_FOWARD_CONTRACTS
T2T_FX_CONTRACTS
t2t_contracts_pay
t2t_contracts_rcv
t2t_fra_pay
t2t_fra_rcv
t2t_ircapfloor
t2t_ircollar_pay
t2t_ircollar_rcv
t2t_swaps_pay
t2t_swaps_rcv

2. Following T2T extract and mapping definition files will get replaced during the upgrade installation.

New T2T Definitions since v5.2:

- T2T_BROKEN_ACCOUNT_LOANS_FP
- T2T_BROKEN_ACCOUNT_LOANS_R
- T2T_BROKEN_ACCOUNT_TD_FP
- T2T_BROKEN_ACCOUNT_TD_R
- T2T_STG_MUTUAL_FUNDS
- T2T_STG_LC_GUARANTEES
- T2T_RETIREMENT_ACCOUNTS

Modified T2Ts:

- T2T_ANNUITY_CONTRACTS
- T2T_BORROWINGS
- T2T_CASA
- T2T_CREDIT_CARDS
- T2T_FRA_PAY
- T2T_FRA_RCV
- T2T_FUTURE_CONTRACTS
- T2T_FX_CONTRACTS_PAY
- T2T_FX_CONTRACTS_RCV
- T2T_GUARANTEES
- T2T_INVESTMENTS
- T2T_LEASES_CONTRACTS
- T2T_LOAN_COMMITMENTS
- T2T_LOAN_CONTRACTS
- T2T_MERCHANT_CARDS
- T2T_MM_CONTRACTS
- T2T_MODEL_HYPERCUBE
- T2T_MORTGAGES
- T2T_OD_ACCOUNTS
- T2T_OPTIONS_CAPFLOOR
- T2T_OPTION_COLLAR_PAY
- T2T_OPTION_COLLAR_RCV
- T2T_OTHER_SERVICES
- T2T_PAYMENT_SCHEDULE
- T2T_PPMT_CALC_PARAMS
- T2T_SWAPS_CONTRACTS_PAY
- T2T_SWAPS_CONTRACTS_RCV
- T2T_TERM_DEPOSITS
- T2T_TRUSTS

Oracle Financial Services Asset Liability Management v6.0 Product Installation

The Oracle Financial Services Analytical Applications Infrastructure Product comprises of components that are installed in Web, Application and Database layer. Hence if you have installed Oracle Financial Services Analytical Applications Infrastructure 7.3 in a multi-tier architecture, the Oracle Financial Services Asset Liability Management Product installer must be invoked on each of the machines that host the Oracle Financial Services Analytical Applications Infrastructure tier.

For a Single-tier installation, the installer is required to be invoked only once on the machine that hosts all the Oracle Financial Services Analytical Applications Infrastructure tiers.

This section describes the installation process where the Three Product setup components are installed on separate machines in with the Product installation on separate machines. Machine A will be used to install Product Application Layer components, Machine B will be used to install Product Database Layer components and Machine C will be used to install Product Web Layer components.

NOTE

- *This section holds applicable if Oracle Financial Services Analytical Applications Infrastructure v7.3 is installed on RHEL/OEL-5.3/5. Solaris 5.10 and AIX 5.3 (ML12)/AIX 6.1 (ML07) - Oracle 11g on separate machines A, B and C respectively.*
- *Refer to section on "Silent Installation", if a silent installation is required.*

Machine A – Product App Layer

Step 1

To begin Oracle Financial Services Asset Liability Management product installation, execute Setup.sh.

Figure 2: Installation Splash Screen

Step 2

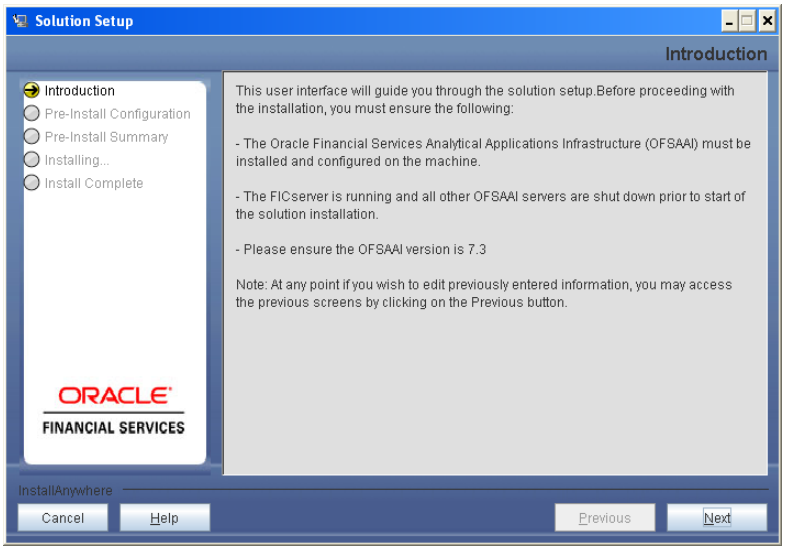

Figure 3: Introduction Screen

Upon invoking the installer, the **Introduction** screen will display the pre-requisites for installation. Ensure that the pre-requisites are satisfied before you proceed.

Step 3

Please choose the log mode for this installer. If, Debug is selected, the Passwords will be printed in the Log File.

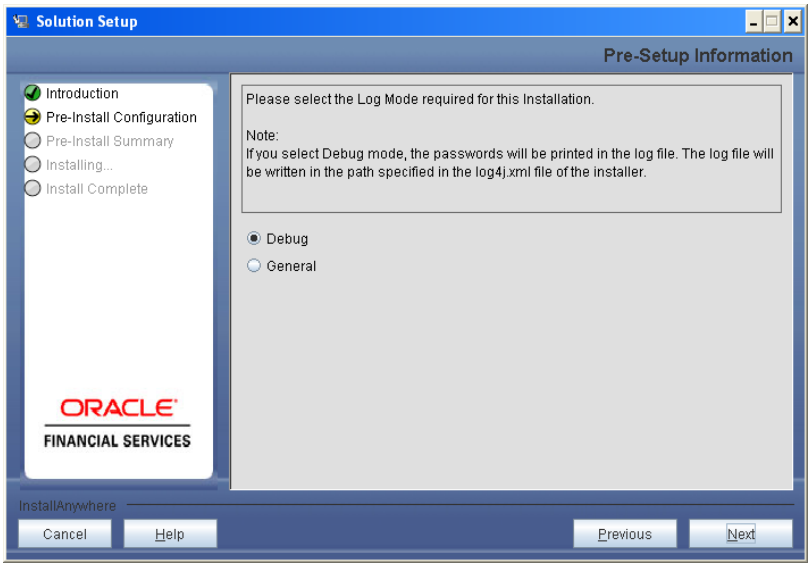

Figure 4: Log Mode Option Screen

Step 4

Please provide the 9 digit Customer Identification number provided during the OFSAAI installation.

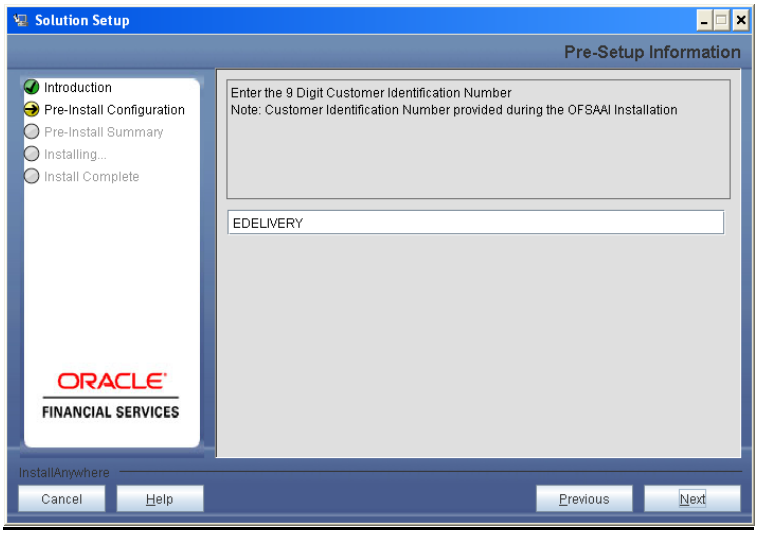

Figure 5: Customer ID Input Screen

Click **Next** to continue.

Step 5

The **Pre Setup Information** screen requests for setup information.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example **AppLayer**

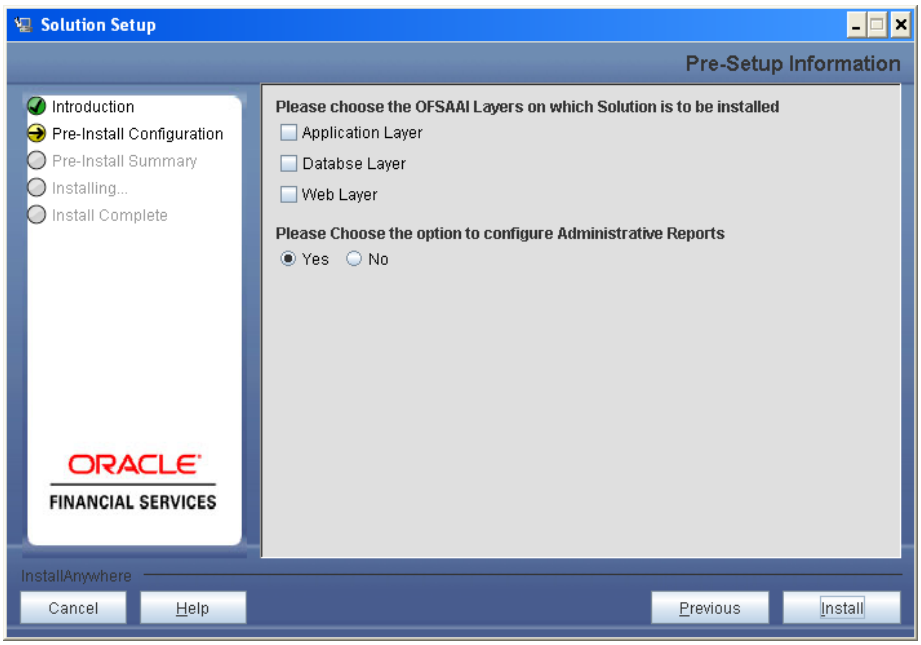

Figure 6: Pre Setup Information Screen – Choose Layer to Install

Along with appropriate Oracle Financial Services Analytical Applications Infrastructure layer choose Administrative Reports to configure the Administrative Reports application.

NOTE

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, you must select App Layer, DB Layer and Web layer. For a multi-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, select the corresponding layer installed on the machine.
- Incase Admin BI is already configured through the previous product installation; the subsequent product installation without Admin BI option may alter the existing Admin BI configuration settings.

Step 6

This panel seeks information on whether a new infodom has to be created or the existing infodom to be used for apps installation. Please choose the required option.

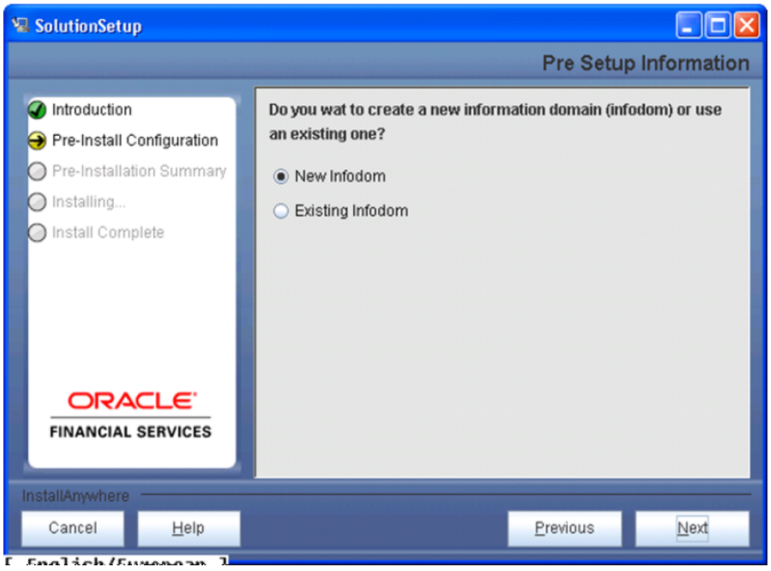

Figure 7: Pre Setup Information Screen – Infodom type

Click **Next** to continue.

Step 7-i

If the option “New Infodom” was chosen in the previous panel then the following panel will be next displayed which will seek information of the following details to create infodom.

Please specify a DB name for the new infodom. Please make a TNS entry with the DB name specified in the tnsname.ora file in the oracle server.

Please enter the newly created atomic schema user name, password, jdbc url in relevant fields.

Click **Next** to continue

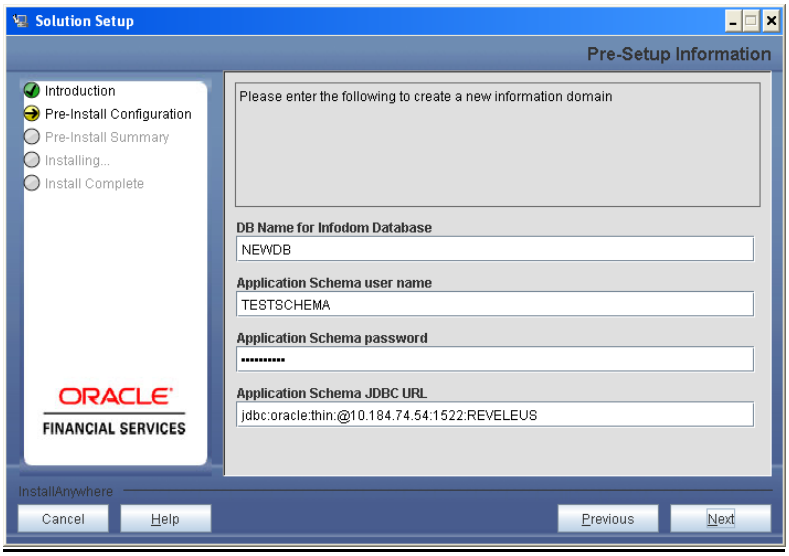

Figure 8: Database details for the new Infodom

Step 7-ii

If the option “New Infodom” was chosen in the previous panel then the following panel will be displayed following the panel 7-i which will seek further information of the following details to create infodom.

Please specify the name and description for the new infodom to be created.

Please specify a segment name to be created.

NOTE: Segment name should not exceed 10 Characters

Also specify the Application server and database server log path for infodom maintenance (to be created)

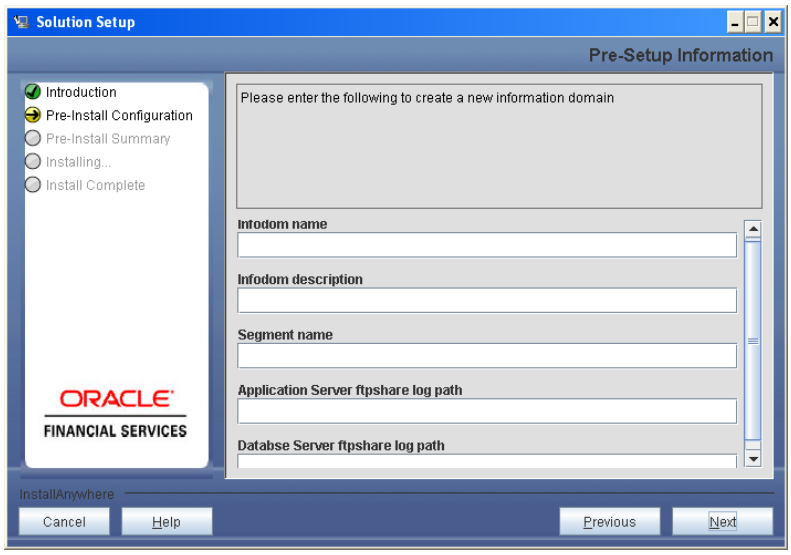

Figure 9: Infodom details for creation of new Infodom

NOTE

- The Oracle Financial Services Analytical Applications Infrastructure user must have a role that is able to perform Add/Modify functions for ALM metadata.

Click **Next** to continue.

Step 7-iii

If the option “New Infodom” was chosen in the previous panel then the following panel will be displayed following the panel 7-ii which will display the pre-infodom creation details. Please check and verify all the details before proceeding to the next step.

NOTE:

Before specifying New Infodom, the following Infrastructure configuration steps must be completed:

- Configuring the Database Server
- Configuring the Application Server
- Configuring the Web server
- Configuring Database Details

Please refer to the *Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration Guide* for further details on completing the above configuration steps.

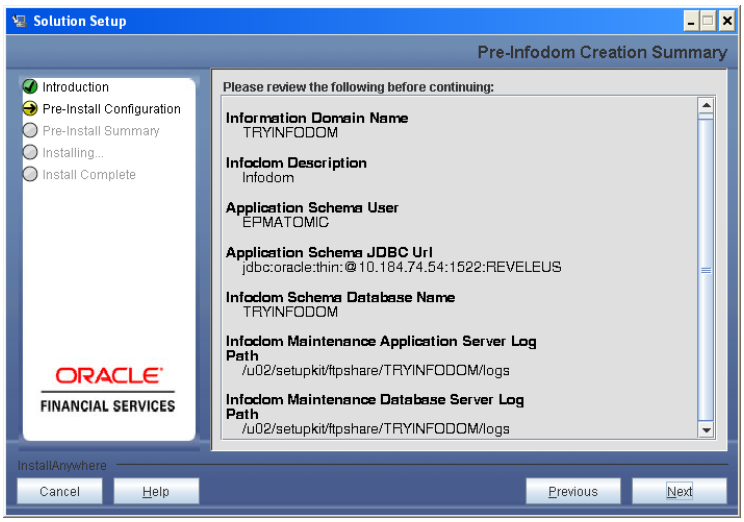

Figure 10: Pre Infodom Creation Summary

Click **Next** to continue creation of information domain. A new information domain will be created on clicking Next.

Step 7-iv

If the option “Existing Infodom” was chosen in the Step 6 then the following panel will be displayed which will prompt to select the infodom from list of infodoms present in the setup, enter segment code and enter the application schema’s TNS name.

Segment code should not exceed 10 characters

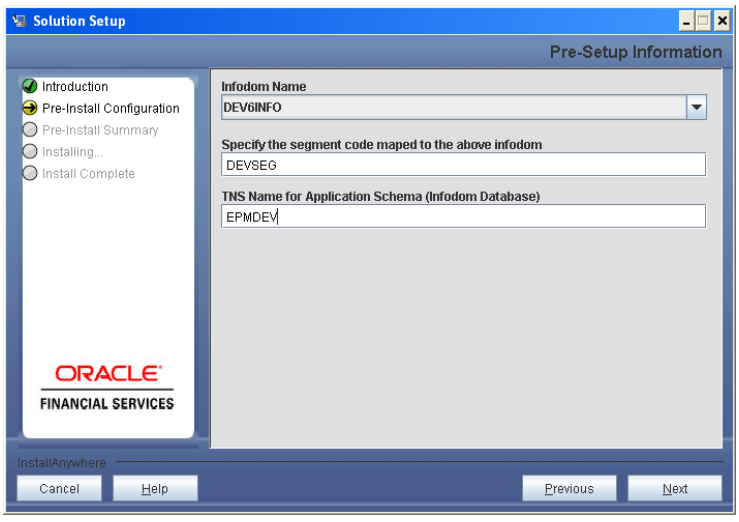

Figure 11: Installation in Progress

Step 8

ALM v6.0 data model is packaged as part of ALM v6.0 product installer and will be installed as part of the upcoming steps, if required.

The following screen prompts the user to opt for model upload process through installer.

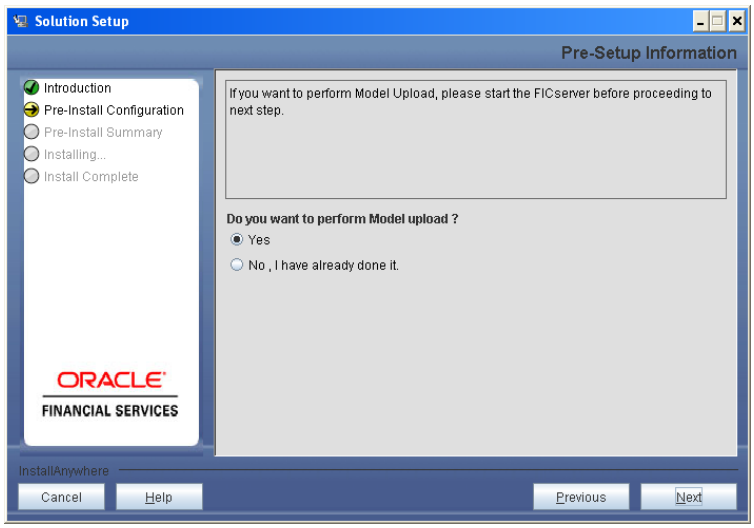

Figure 12: Pre-Setup Information

Clicking 'No' implies that ALM v6.0 model has been uploaded into information domain prior to this installation.

Clicking 'Yes' will proceed with the ALM v6.0 model upload process as part of the installation.

If the user selects "Yes", Step 9 and 10 will be performed. will appear.

Upon selecting "No..", Step 9 to 10 will be skipped.

Click **Next** to proceed.

Step 9

The following panel prompts the user to choose whether the released version of Datamodel or the customized datamodel to be uploaded.

On selecting 'Released Data Model' option, installer uploads the ALM v6.0 data model that is packaged as part of the ALM v6.0 product.

On selecting 'Customized Data Model' option, installer allows the user to select the data model. Select the required option.

Click **Next** to proceed.

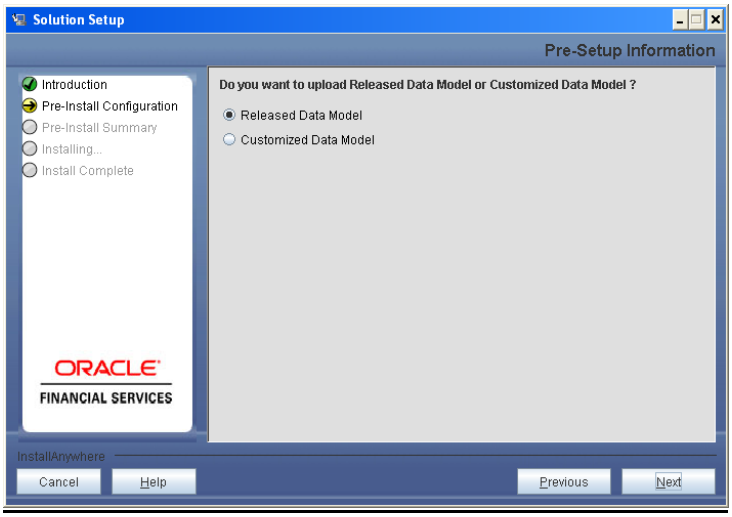

Figure 13: Pre – Setup information

Step 10

If the option “Customized Data Model” was chosen then the following panel will be displayed prompting user to select the customized data model located in the machine.

Please choose the customised datamodel file from the server.

Note:

- *The data model xml file should be available in the server.*
- *If the installation is being performed on an existing information domain, the data model that is planned to be selected in this panel should be merged with the data model that was previously uploaded in the information domain.*

If the installation is being performed on a new information domain, data model that is either customized or merged with other data models can be selected in this panel.

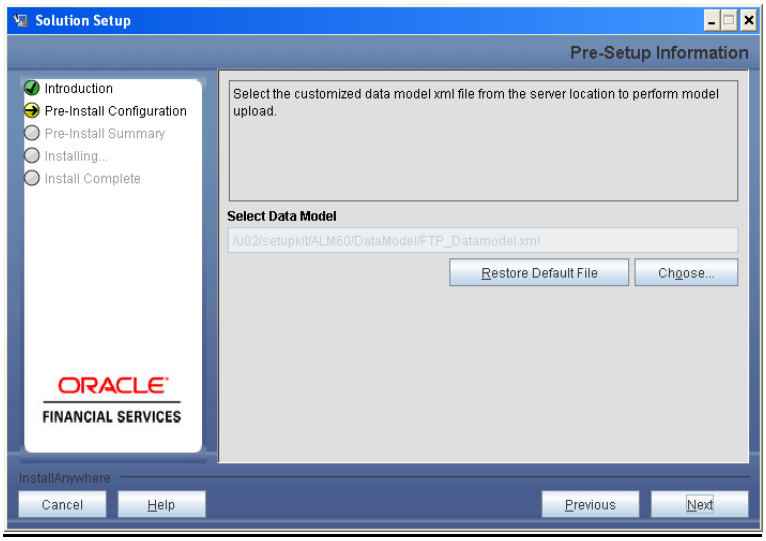

Figure 14: Pre – Setup information

Step 11

The following panel displays pre-model upload details.

Please verify the details before proceeding to the next step.

Click **Next** to proceed for model upload.

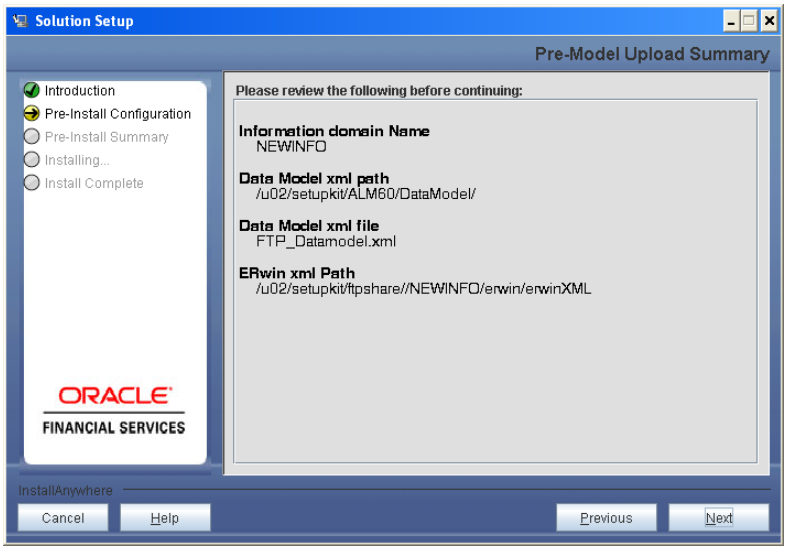

Figure 15: Pre – Model Upload Summary

Clicking on 'Next' will start the model upload process. This process will take some time depending on the size of the data model and available physical memory in the environment. User will not be able to take any further action on the screen, until the model upload process is complete. Also, this step cannot be rolled back.

If the model upload fails, then a pop-up message with relevant error and the log file path will be displayed.

Review errors and take relevant action. Continue with this step until the model upload is successful and the installer takes the user to next step.

NOTE:

Some of the common errors during model upload are,

- *Insufficient heap memory on the client machine*
- *Possible reason/resolution: The java memory settings in "reveleusstartup.sh" located in $FIC_APP_HOME/common/FICServer/bin directory should be increased.*
- *Error while getting the Erwin File path*
- *Possible reason/resolution: Restart the FICServer.*
- *Error in Upload Operation :*
- *"FAILED WHILE SUPER CATEGORY - SUB CATEGORY RELATIONS HANDLINGDELETING".*
- *Possible reason/resolution: Incorrect Erwin.xsl file version in $FIC_APP_HOME/common/FICServer/conf directory.*
- *Incremental/Sliced model upload might give errors if there are NOT NULL columns that are being added to a table that already has rows or if the columns that are being dropped have values. Check the data model changes excel file for any such cases. In such a case, take a backup of the table and truncate the table. Insert records back into the table with a default value for the NOT NULL column.*

Navigate to the previous screen and proceed with the steps mentioned earlier.

Step 12

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

In case of upgrade, if customer selects an existing application/source pair, then existing ETL definitions under the source will be over-written with the packaged definitions. Customer can also choose to create a new application / source pair and then merge the changes between the packaged definition and their existing definitions offline.

Please choose the required option.

Click **Next** to continue

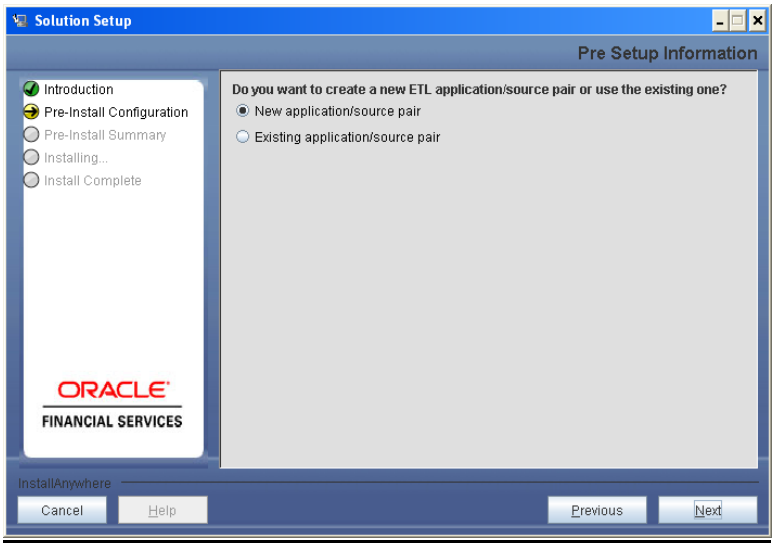

Figure 16: Pre – Setup Information

Step 13-i

If the option ”New application/source pair” was chosen then the following panel will displayed seeking the application and source name for creation of the same.

Please specify all the details required for application and source creation.

Click **Next** to proceed.

Clicking ‘Next’ will create application and source within OFSAAI. Source model will also be generated. This process will take some time depending on the number of entities / attributes in the atomic schema. This step cannot be rolled back.

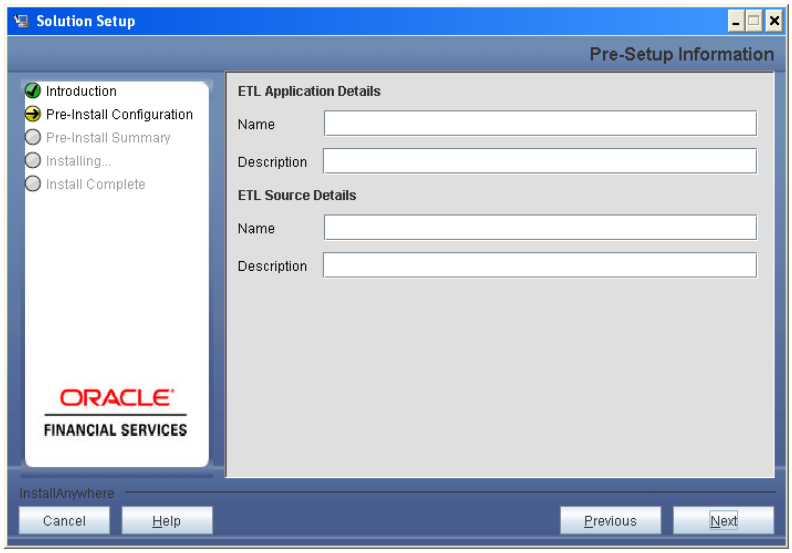

Figure 17: Pre – Setup Information

NOTE:

ETL Source will be created pointing to the information domain (atomic schema) that is specified during the installation.

Step 13-ii

If the option "Existing application/source pair" was chosen the following panel willl be displayed prompting user to select app/source pair from the list of pairs already present.

Please choose the required ETL application/source pair into which ETL definitions will be deployed.

Click **Next** to proceed

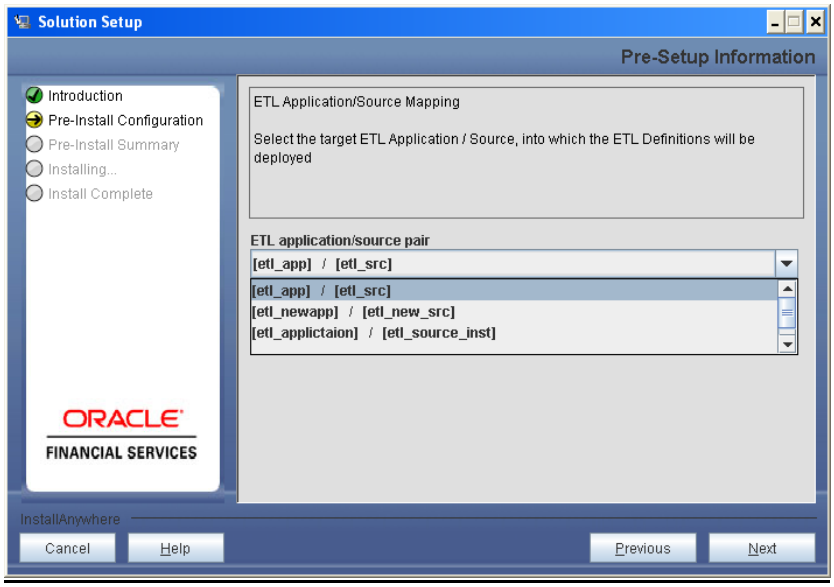

Figure 18: Pre – Setup Information

Step 14

This panel displays all the pre-installation summary. Please verify all details and proceed.

Click **Install** to proceed.

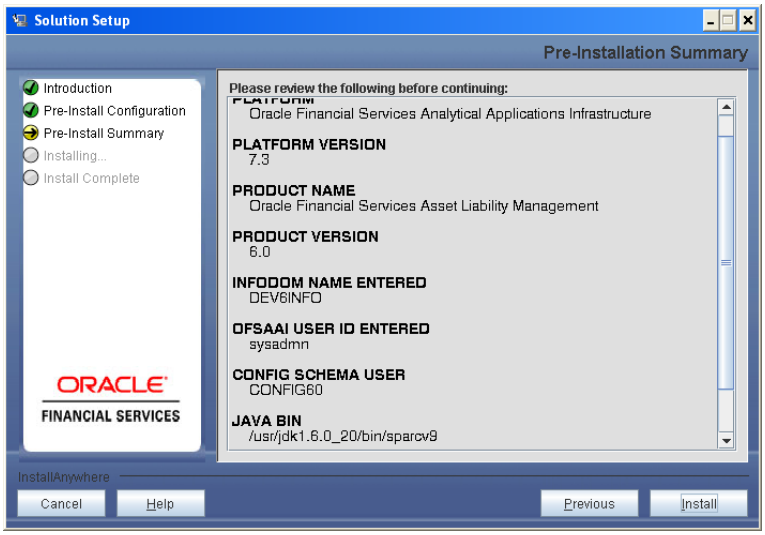

Figure 19: Pre – Install Summary

Step 15

This panel displays the installation process. Please wait until it completes.

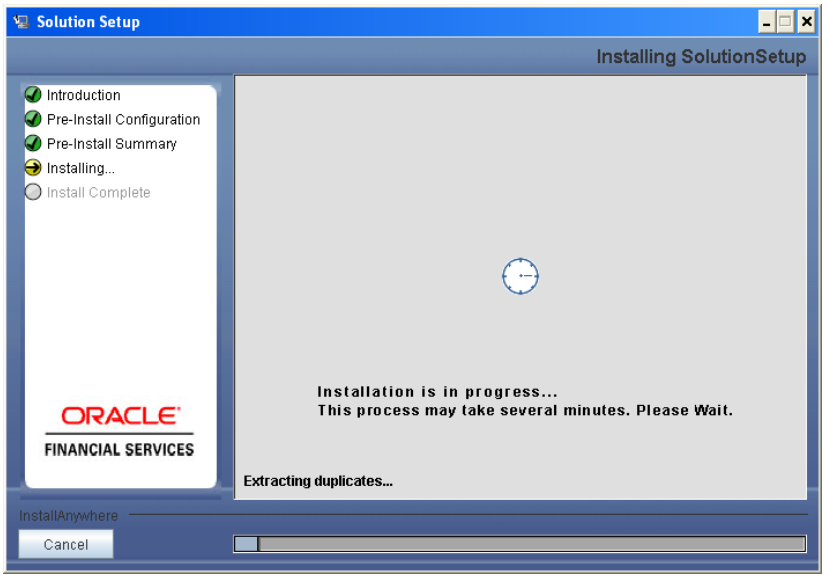

Figure 20: Installation is in progress

Step 16

The following screen displays the completion of installation of the Oracle Financial Services Asset Liability Management Product Setup.

Click **Done** to exit.

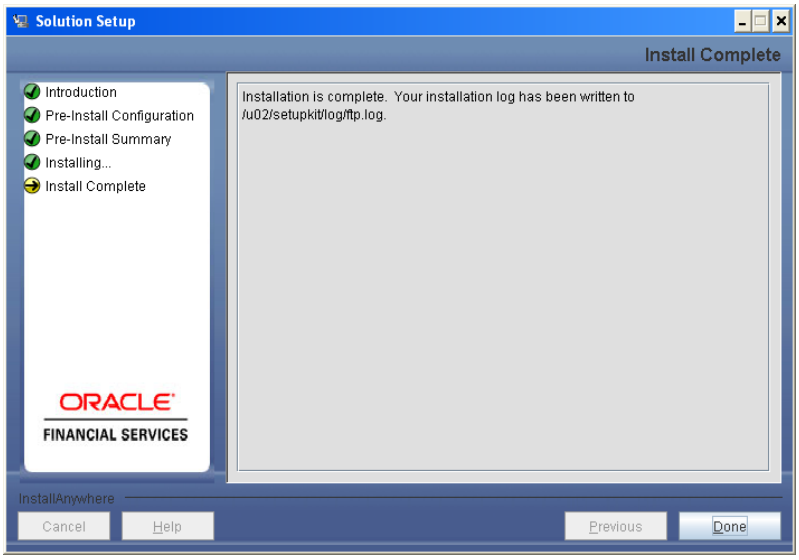

Figure 21: Installation Complete

Machine B – Product Database Layer

Step 1

To begin Oracle Financial Services Asset Liability product installation, execute Setup.sh.

Figure 22: Installation Splash Screen

Step 2

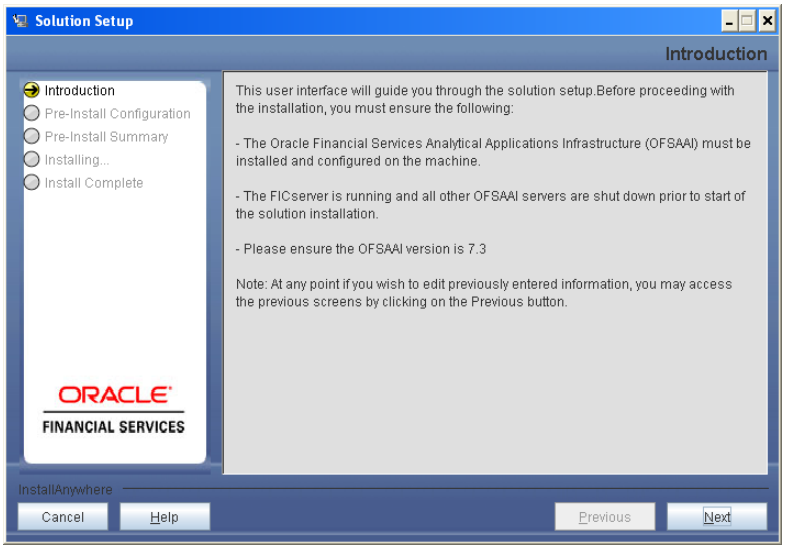

Figure 23: Introduction Screen

Upon invoking the installer, the **Introduction** screen will display the pre-requisites for installation. Ensure that the pre-requisites are satisfied before you proceed.

Step 3

Please choose the log mode for this installer. If Debug is selected, the Passwords will be printed in the Log File.

Click **Next** to proceed.

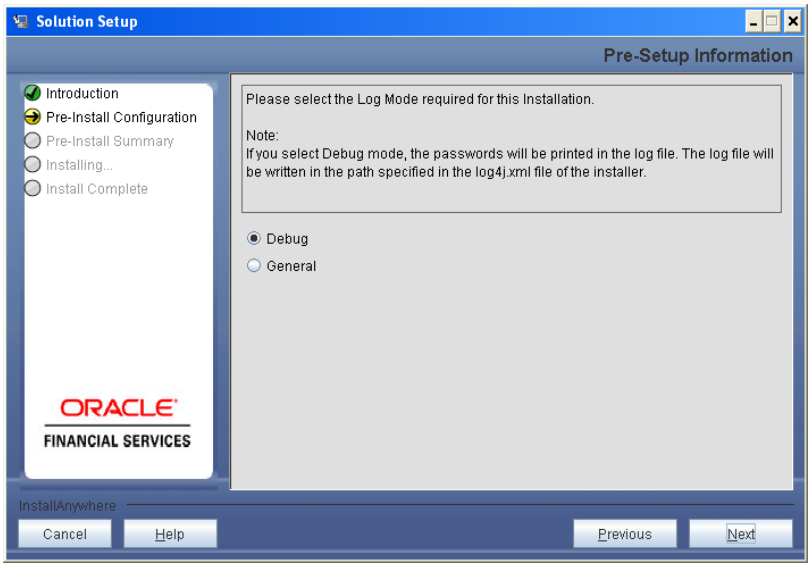

Figure 24: Log Mode Option Screen

Step 4

Please provide the 9 digit Customer Identification number provided during the OFSAAI installation.

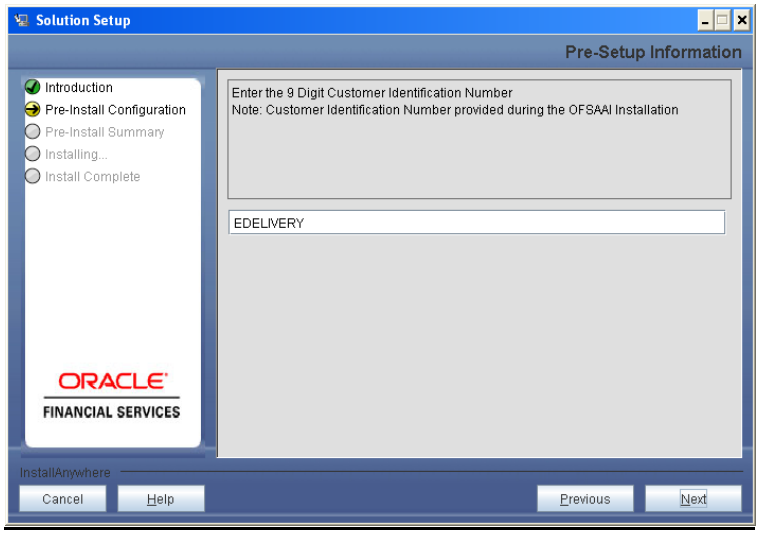

Figure 25: Customer ID Input Screen

Click **Next** to continue.

Step 5

The **Pre Setup Information** screen requests for setup information.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example **Database Layer**

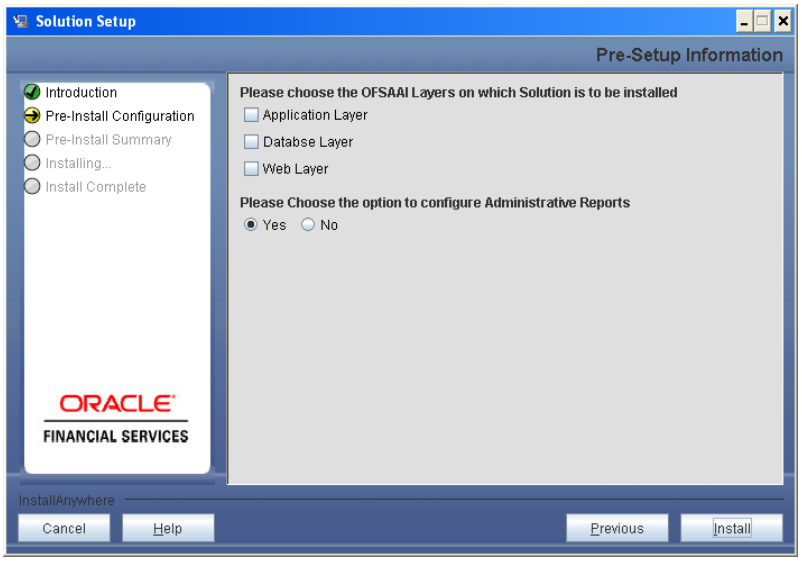

Figure 26: Pre Setup Information Screen – Choose Layer to Install

Along with appropriate Oracle Financial Services Analytical Applications Infrastructure layer choose Administrative Reports to configure the Administrative Reports application.

Click **Install**.

NOTE

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, you must select App Layer, DB Layer and Web layer. For a multi-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, select the corresponding layer installed on the machine.
- Incase Admin BI is already configured through the previous product installation; the subsequent product installation without Admin BI option may alter the existing Admin BI configuration settings.

Step 6

The following panel will be displayed which will prompt to select the infodom from list of infodoms present in the setup. Enter the segment code and the application schema's TNS name.

Segment code should not exceed 10 characters

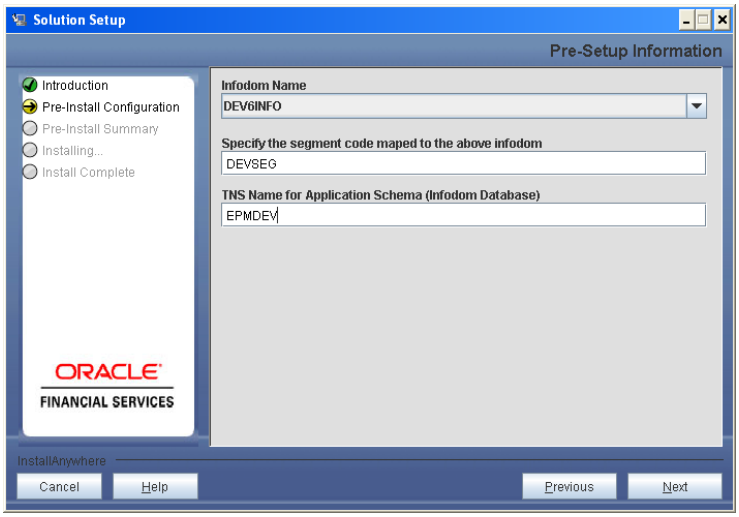

Figure 27: Pre Setup Information Screen

Step 7

Please specify the Tablespace name (Infodom database).

Click **Next** to proceed.

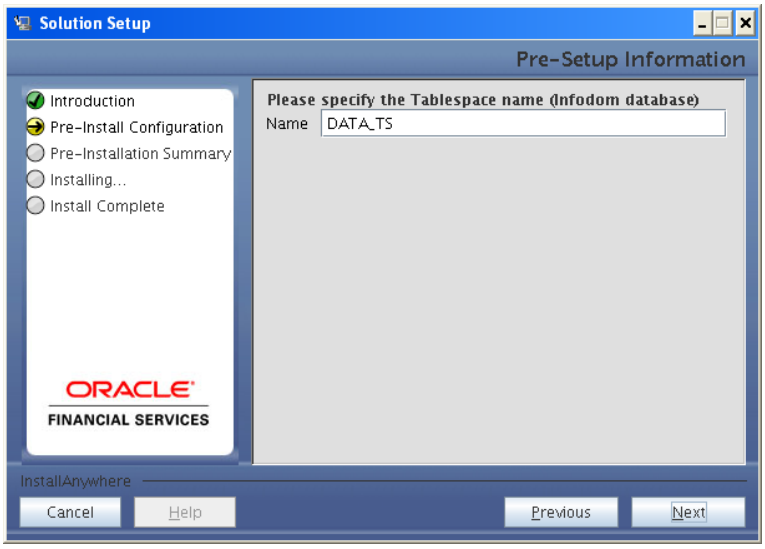

Figure 28: Pre Setup Information Screen

Step 8

This panel displays all the pre-installation summary. Please verify all details and proceed.

Click **Install** to proceed.

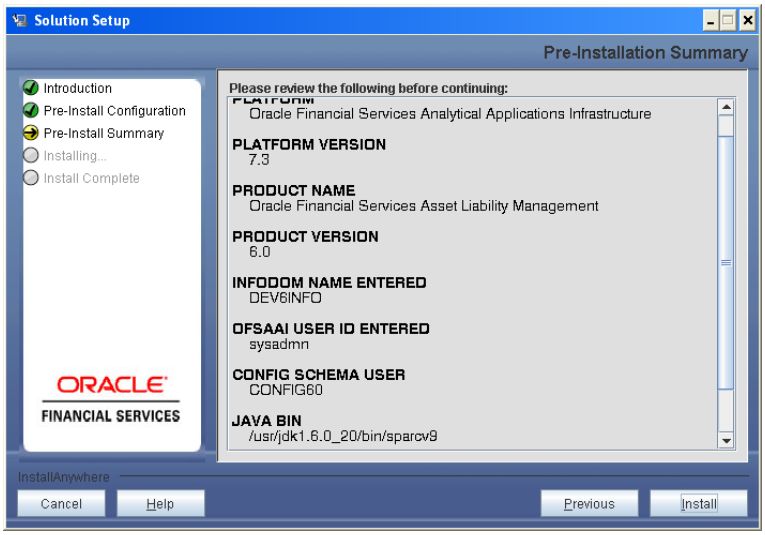

Figure 29: Pre – Install Summary

Step 9

This panel displays the installation process. Please wait until it completes.

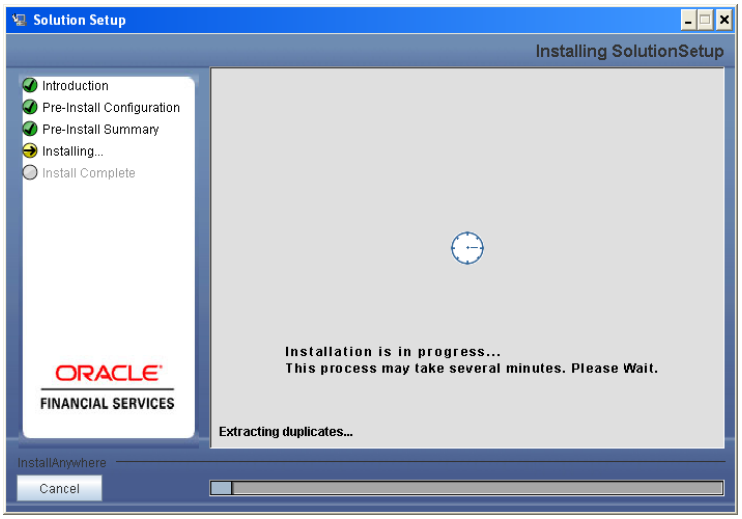

Figure 30: Installation is in progress

Step 10

The following screen displays the completion of installation of the Oracle Financial Services Asset Liability Management Product Setup.

Click **Done** to exit.

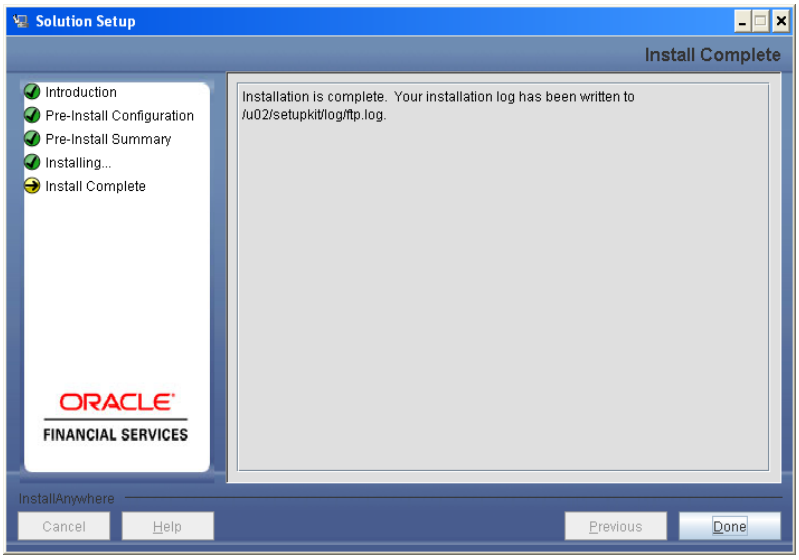

Figure 31: Installation Complete

Machine C – Product Web Layer

Step 1

To begin Oracle Financial Services Asset Liability Management product installation, execute Setup.sh.

Figure 32: Installation Splash Screen

Step 2

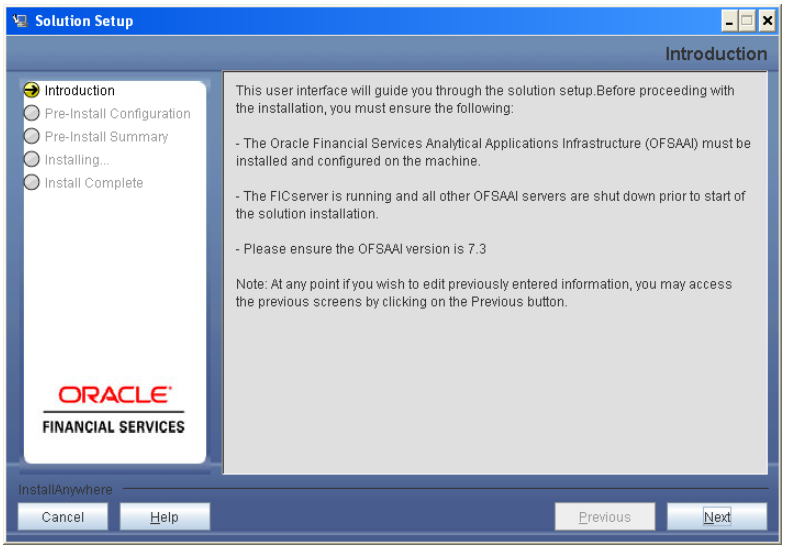

Figure 33: Introduction Screen

Upon invoking the installer, the **Introduction** screen will display the pre-requisites for installation. Ensure that the pre-requisites are satisfied before you proceed.

Step 3

Please choose the log mode for this installer. If Debug is selected, the Passwords will be printed in the Log File.

Click **Next** to proceed.

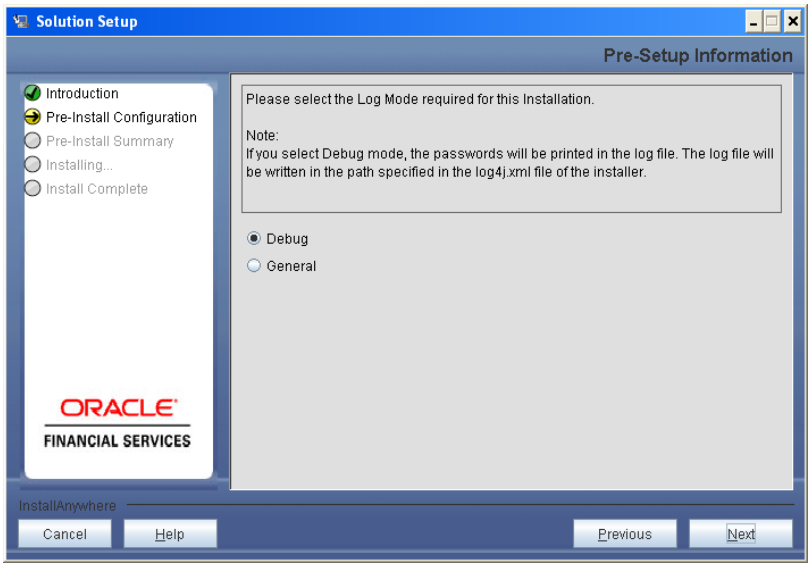

Figure 34: Log Mode Option Screen

Step 4

Please provide the 9 digit Customer Identification number provided during the OFSAAI installation.

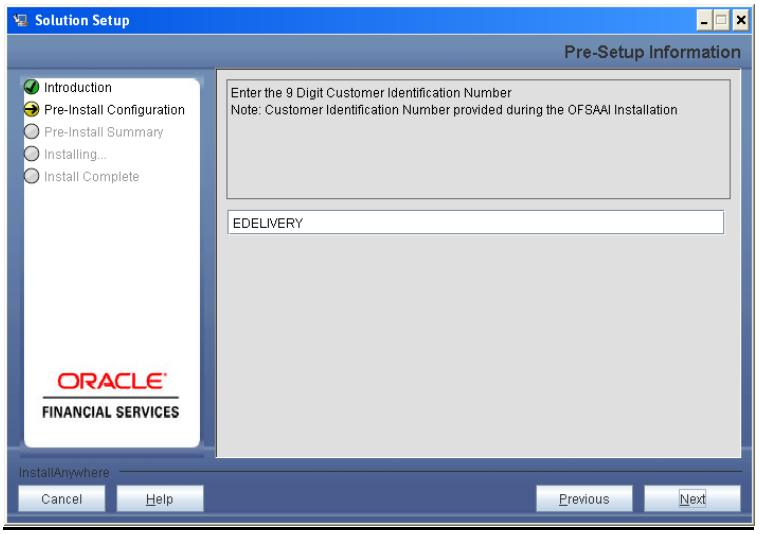

Figure 35: Customer ID Input Screen

Click **Next** to continue.

Step 5

The **Pre Setup Information** screen requests for setup information.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example **Web Layer**

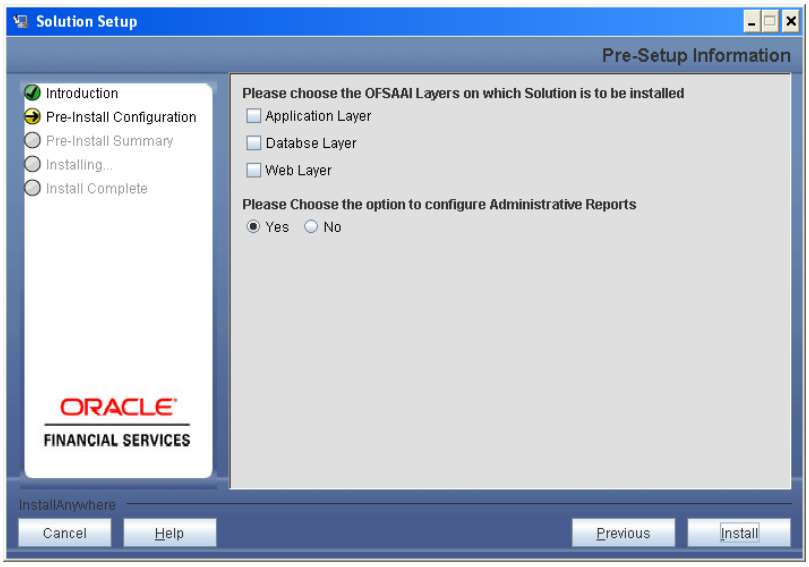

Figure 36: Pre Setup Information Screen – Choose Layer to Install

Along with appropriate Oracle Financial Services Analytical Applications Infrastructure layer choose Administrative Reports to configure the Administrative Reports application.

Click **Install**.

NOTE

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, you must select App Layer, DB Layer and Web layer. For a multi-tier Oracle Financial Services Analytical Applications Infrastructure v7.3 installation, select the corresponding layer installed on the machine.
- If the Admin BI is already configured through the previous product installation, the subsequent product installation without Admin BI option may alter the existing Admin BI configuration settings.

Step 6

The following panel will be displayed, which will prompt to select the infodom from list of infodoms present in the setup. Enter the segment code and the application schema's TNS name.

Segment code should not exceed 10 characters

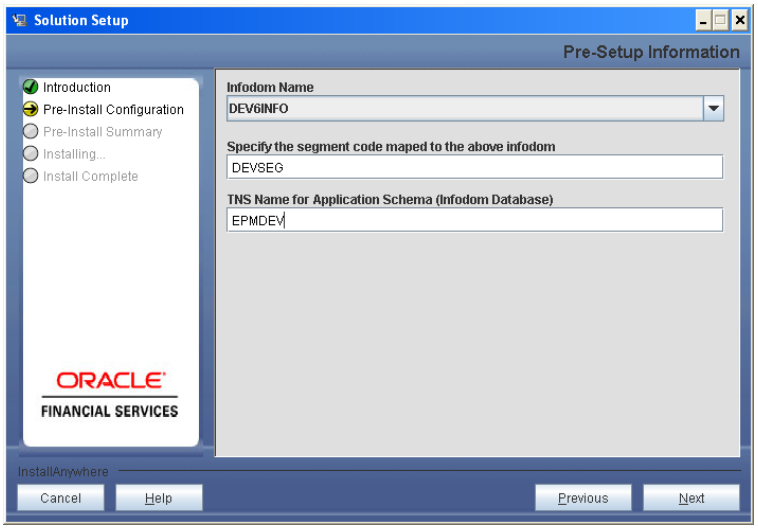

Figure 37: Pre Setup Information Screen

Step 7

The Pre Setup Information screen requests for the Oracle Business Intelligence installed host machine IP, port-number and context name.

Click **Next** to continue.

NOTE

- The Oracle Financial Services Analytical Applications Infrastructure user must have a role that is able to perform Add/Modify functions for ALM metadata

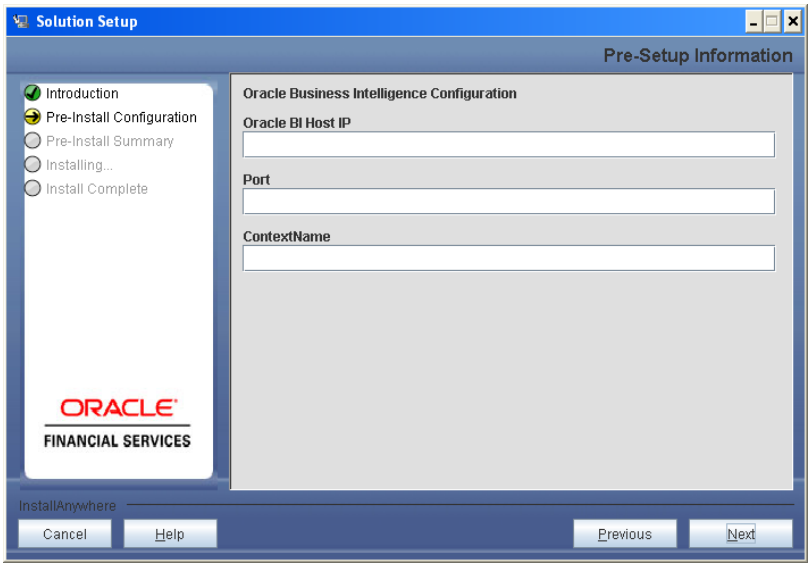

Figure 38: Pre Setup Information Screen

Step 8

This panel displays all the pre-installation summary. Please verify all details and proceed.

Click **Install** to proceed.

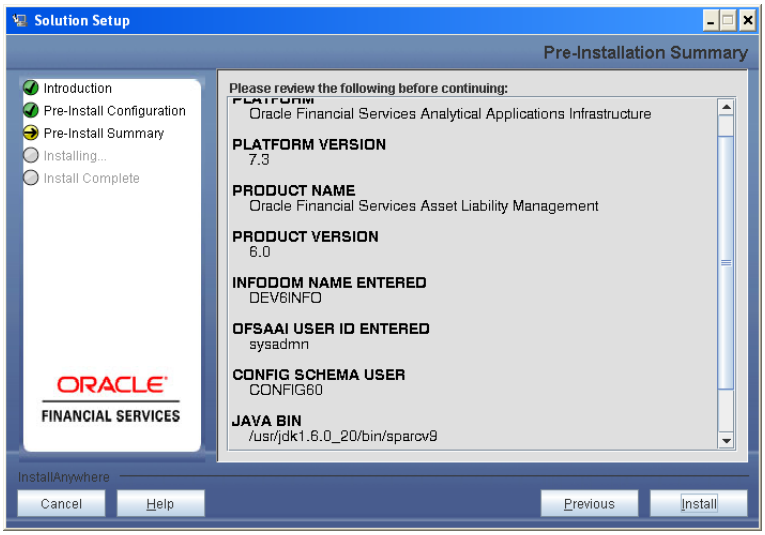

Figure 39: Pre – Install Summary

Step 9

This panel displays the installation process. Please wait until it completes.

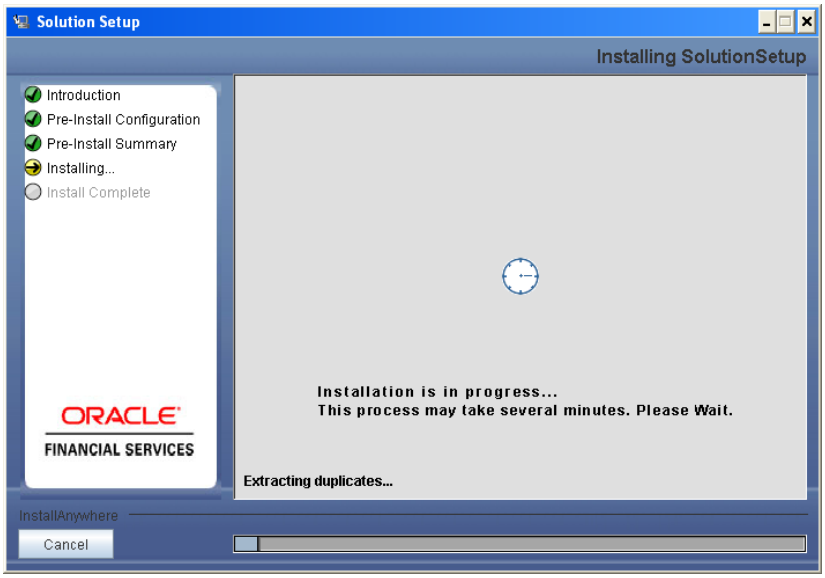

Figure 40: Installation is in progress

Step 10

The following screen displays the completion of installation of the Oracle Financial Services Asset Liability Management Product Setup.

Click **Done** to exit.

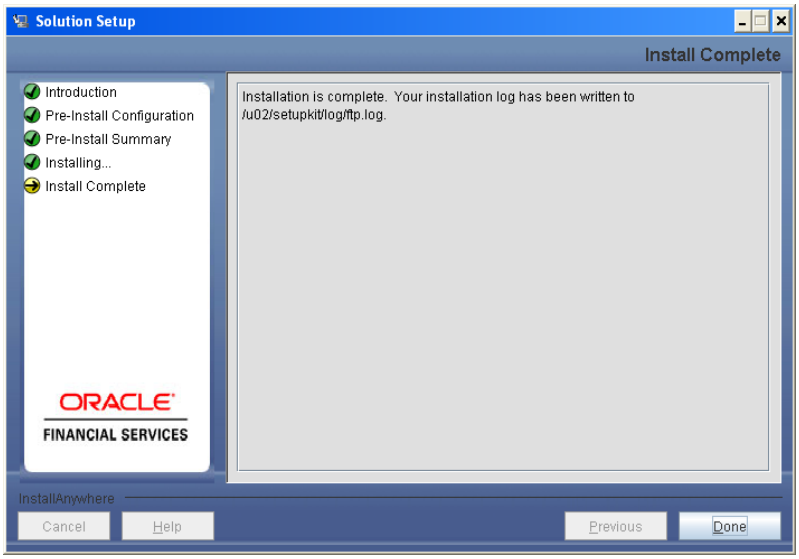

Figure 41: Installation Complete

Silent 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.

The following table lists all the properties that need to be specified:

Property Name	Description of Property	Permissible values	Comments
LOG_MODE	Mode for logging	0 = Debug 1= General	Optional; Default : 0
CUSTOMER_ID	Customer id specified while installing OFSAAI	Not Applicable	MANDATORY
INSTALL_WEB	Install web-tier components	0 = No 1 = Yes	Default : 0
INSTALL_DB	Install database-tier components	0 = No 1 = Yes	Default : 0
INSTALL_APP	Install Application-tier components be installed	0 = No 1 = Yes	Default : 0
INSTALL_ADMIN_BI	Install admin-BI components	0 = No 1 = Yes	Default : 0 Applicable only if INSTALL_WEB=1 OR INSTALL_DB=1
INFODOM_NAME	Information Domain(infodom)	Not Applicable	MANDATORY
SEGMENT_CODE	Segment Code	Not Applicable	MANDATORY Segment Code should not exceed 10 characters
TABLESPACE	Tablespace name	Not Applicable	MANDATORY
INFODOM_TYPE	New Infodom or Existing Infodom	0 = New 1 = Existing	# Specify Infodom Type Mandatory if this an App Layer Installation and option selected for INSTALL_APP=1
APPL_TNS	TNS Name of the Infodom database	Not Applicable	MANDATORY

Property Name	Description of Property	Permissible values	Comments
APPL_USER	User-id of the Database Schema for new Infodom	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
APPL_PWD	Password of the Database Schema for new Infodom	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
APPL_URL	JDBC Connection String of the Database Schema for new Infodom	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
RAC_STATUS	whether the Database Schema for new Infodom is a RAC database	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
INFODOM_DESC	Description for the Database Schema for new Infodom	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
APALM P_LOG_PATH=	Infodom Maintenance log path(to be created) for the new Infodom for applayer	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new

Property Name	Description of Property	Permissible values	Comments
			infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
DBFTP_LOG_PATH	Infodom Maintenance log path(to be created) for the new Infodom for DBLayer	Not Applicable	# Mandatory if this an App Layer Installation and want to create a new infodom # Option selected for INSTALL_APP=1 and INFODOM_TYPE=0
OBI_HOST	Host Name of the OBIEE Server	Not Applicable	Applicable if INSTALL_ADMIN_BI=1
OBI_PORT	Port Number of the OBIEE Server	Not Applicable	Applicable if INSTALL_ADMIN_BI=1
OBI_CONTEXT	Context Name of the OBIEE Server	Not Applicable	Applicable if INSTALL_ADMIN_BI=1
UPLOAD_MODEL	whether you want to perform Model Upload	0 = No 1 = yes	Mandatory if INSTALL_APP=1
MODEL_TYPE	Released data model or Customized data model	0 = released 1 = customized	Mandatory if INSTALL_APP=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
ETL_APP_NAME	The ETL application name	Not Applicable	# Mandatory if this an App Layer installation # Option selected for INSTALL_APP=1

Property Name	Description of Property	Permissible values	Comments
ETL_SRC_NAME	The ETL Source into which the Table-2-Table ETL definitions on staging tables will be deployed.	Not Applicable	This Source must be mapped to the above ETL Application
ETL_APPSRC_TYPE	Create new ETL App/Src pair or use an existing one	0 = New 1 = Existing	# Mandatory if this an App Layer installation # Option selected for INSTALL_APP=1 # 0 = If you want to create a new ETL app/src pair # 1 = If you want to use an existing pair
ETL_APP_DESC	Please give description for the ETL App	Not Applicable	# Mandatory if you want to create new ETL app/src pair # Option selected for ETL_APPSRC_TYPE=0
ETL_SRC_DESC	Please give description for the ETL Src	Not Applicable	# Mandatory if you want to create new ETL app/src pair # Option selected for ETL_APPSRC_TYPE=0

How to install in Silent Mode

The installer folder contains a template file “Silent.template”

- Create a copy of this file and rename the copy as “Silent.props”
- Edit the file “Silent.props” and specify the parameters as per the requirements
- Ensure FIC Server is running and all other OFSAAI servers are shutdown prior to the start of Solution installation.
- On the UNIX Command prompt, execute the following command
    - “Setup.sh SILENT”
- Refer to the console log [or the file preinstall.log] for any error messages.

How to install a Customized Data Model

To support the model upload for customized data model, perform the following steps:

- Rename the customized data model file as ALM_Datamodel.xml.
- Take a back up of the released data model xml file that is packaged with the installer.
- Copy the customized data model into the "DataModel" directory of the extracted location of the installer kit.

- Select released model option in the 'Silent.props' file.
- Perform Silent mode installation.

Post Installation Activities

Oracle Financial Services Analytical Applications Infrastructure Server Memory Configuration

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.

Note: From 7.3 onwards, Setupinfo table inside of Config scheme has all the version details.

Once the installation of Oracle Financial Services Asset Liability Management Product is completed, you must perform the following steps.

- Check the Log file (The path and file name specified in the log4j.xml).
- Ignore the following errors in the log file:

  Error: ORA-02260: table can have only one primary key.

  Error: ORA-00955: name is already used by an existing object.

  Error: ORA-00001: unique constraint (<<UNIQUE KEY NAME>>) violated.

  Error: ORA-02275: such a referential constraint already exists in the table.

  Error: ORA-01430: column being added already exists in table.

  Error: ORA-02303: cannot drop or replace a type with type or table dependents

  Following error is encountered during the installation of 5.6 upgrade to 6.0:

  Error: ORA-01400: cannot insert NULL into ("OFSAAATOMIC"."REV_OBJECT_REGISTER"."OBJECT_GROUP_ID")
- Load the data from backup into REV_OBJECT_DEPENDENCIES.
- For upgrade from 5.6 or below, execute the dm_post_alm_ins_6_0.sql on the ATOMIC schema.
- For upgrade from 5.6 or below, navigate to "$FIC_APP_HOME/common/FICServer/bin" and Execute "./UpgradeConfig.sh".
- This post-installation step is applicable for upgrade from v5.5 and below:

  Restore data into the following tables FSI_D_FX_CONTRACTS, FSI_D_SWAPS, FSI_D_OPTIONS, FSI_D_FORWARD_RATE_AGMTS ,FSI_D_FUTURES from the respective backup tables (FSI_D_FX_CONTRACTS_5_5, FSI_D_SWAPS_5_5, FSI_D_OPTIONS_5_5, FSI_D_FORWARD_RATE_AGMTS_5_5,FSI_D_FUTURES_6_0).

- For Admin BI configuration follow the steps mentioned in Oracle Financial Services Administrative Reports on OBIEE 11g - Configuration Note.docx under $FIC_HOME/adminbi
- 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>

Configuration in WebSphere Application Server

- Create JDBC Provider for the configuration of connection pool for the earlier created Infodom (Refer to: the chapter *Creating the JDBC Provider* of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual).
- Create a data source to access the data from the database. (Refer to: the chapter *Creating the Data Source* of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual)
- After creating a Data Source, Click the newly created Data Source ($DATA_SOURCE$) and navigate to the path

Data sources>$DATA_SOURCE$>Connection pools

Set the values for Connection timeout to 0 seconds, Maximum connections to 100 connections, Minimum connections to 10 connections as shown in the following figure.

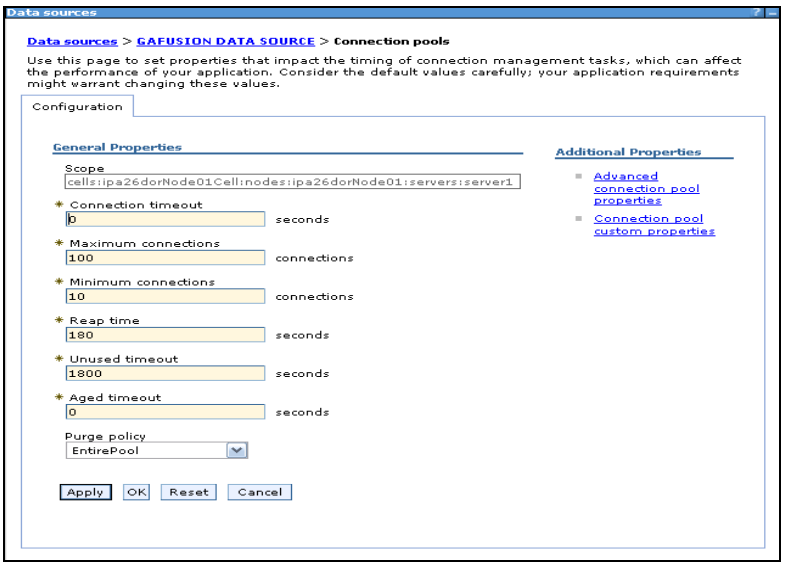

Figure 42:

Expand the **Server Types** under **Servers** option in the LHS menu. Click **WebSphere application servers** option. This will display the **Application Servers** page.

Navigate to the **Web Container** option of the application server, under **Custom properties,** add a new property **com.ibm.ws.webcontainer.invokefilterscompatibility** and set the value to **true** Save the new property. Use following figure for reference

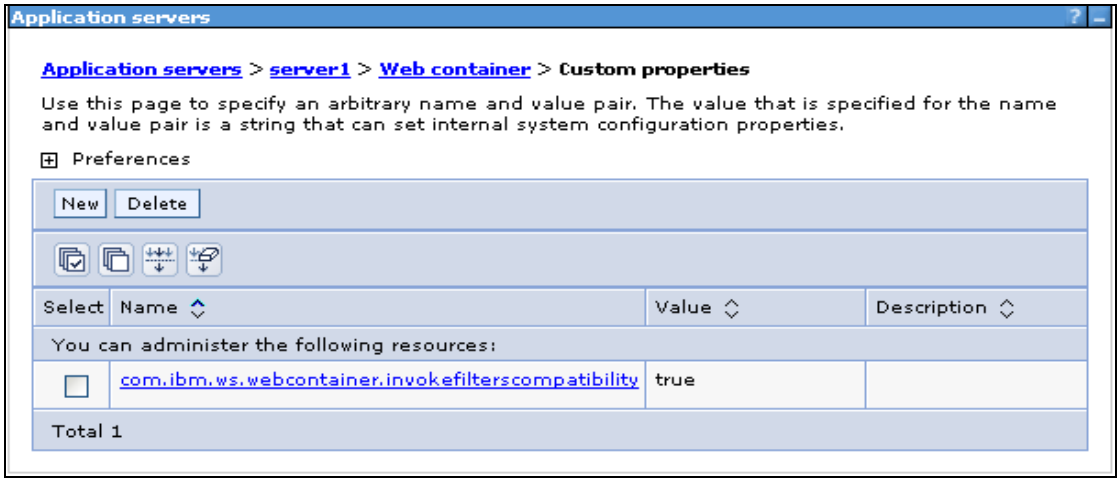

Figure 43:

Configuration in Tomcat Application Server

- Copy $ORACLE_HOME/jdbc/lib/ojdbc6.jar to the path $TOMCAT_DIRECTORY/lib/
- Edit the server.xml present under the path $TOMCAT_DIRECTORY\conf\ with the following 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

- $TOMCAT_DIRECTORY$ should be replaced by Tomcat application installed path
- $CONTEXTNAME$ should be replaced by Oracle Financial Services Analytical Applications Infrastructure context name
- $APP_DEPLOYED_PATH$ should be replaced by the Oracle Financial Services Analytical Applications Infrastructure 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

  Example: jdbc:Oracle:thin:<IP>:<PORT>:<SID>

  jdbc:oracle:thin 10.80.50.53:1521:soluint

Configuration in WebLogic Application Server

- *Create JDBC Provider for the configuration of connection pool and a data source to access the data from the database for the earlier created Infodom (Refer to: the chapter Creating data Source – WebLogic of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual).*
- *After creating a Data Source, Click the newly created Data Source ($DATA_SOURCE$) and navigate to the path*

Home >Summary of Services: JDBC >Summary of JDBC Data Sources >**JDBC Data Source-<INFODDOM_NAME>**

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 as shown in the following figure.

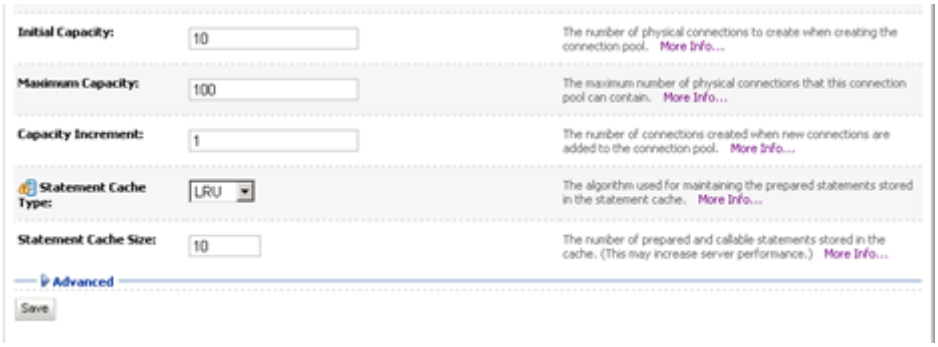

Figure : 44

- *All Oracle Financial Services Analytical Applications Infrastructure v7.3 Servers must be shut down.*
- *Oracle 11g service must be running.*

Deploy the EAR or WAR file

NOTE:

- *If the installation is an upgrade from 5.x version and if there are multiple applications, then be sure that all installed applications are upgraded before attempting the redeployment.*
- *If the Web-Server is Tomcat then re-create and re-deploy the WAR file (OFSAAI war file). (Refer to: Tomcat WAR Files Creation and Tomcat WAR Files Deployment of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual). Ensure that the previously deployed applications in Tomcat are removed before starting the re-deployment. Start all OFSAAI servers. All servers should be directly started in the server.*
- *If the Web-Server is WebSphere re-create and re-deploy the WAR file (OFSAAI war file). (Refer to: WebSphere WAR Files Creation and WebSphere WAR Files Deployment of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual). Ensure that the previously deployed applications in WebSphere are removed before starting the re-deployment. Start all OFSAAI servers. All servers should be directly started in the server.*
- *If the Web-Server is WebLogic re-create and re-deploy the WAR file (OFSAAI war file). (Refer to: Weblogic WAR Files Creation and Weblogic WAR Files Deployment of the Oracle Financial Services Analytical Applications Infrastructure 7.3 Installation Manual). Ensure that the previously deployed applications in WebLogic are removed before starting the re-deployment. Start all OFSAAI servers. All servers should be directly started in the server.*
- *Start all Oracle Financial Services Analytical Applications Infrastructure v7.3 Servers.*

NOTE

- *If you need assistance in starting the servers, then refer to Starting Oracle Reveleus Servers in the Installation Guide Oracle Financial Services Analytical Applications Infrastructure 7.3. .profile should be executed before starting any activity from the console.*

Installation Manual

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Oracle Financial Services Asset Liability Management v6.0 Product

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