Oracle Financial Services Analytical Applications Infrastructure

Installation and Configuration Guide

Version 7.3.4.0.0

DOCUMENT CONTROL

Version Number	Revision Date	Changes Done
Draft	Created: September 2013 Added: November 2013	Captured 7.3.4.0.0 Interim Release enhancement updates. Added Configuration for R and ORE section.
1.0	Revised: May 2014	Added a new prerequisite.
Created by: Gitcy	Reviewed by: Bharath	Approved by: Jeevraj / Surag / Deepthi /Subhashini

Executive Summary

This document includes the necessary instructions to apply 7.3.4.0.0 Interim Release and perform the required post install 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 7.3.4.0.0

This Interim Release (IR) of OFSAAI is cumulative and includes all the enhancements and bug fixes done since the OFSAAI v7.3GA release.

Conventions and Acronyms

Conventions	Description
Actions are indicated in **Bold.** Command or query is indicated in `Courier New font.`	
AIX	Advanced Interactive eXecutive
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
RHEL	Red Hat Enterprise Linux
IR	Interim Release
ML	Maintenance Level
R	Third-party open source software. Open source R is governed by GNU General Public License (GPL).
Oracle R Distribution	Oracle R Distribution is Oracle's free distribution of open source R.
Oracle R Enterprise	Oracle R Enterprise integrates R, the open source scripting language and environment, with Oracle Database.
Atomic Schema	Database schema where the application data model is uploaded.
Config Schema	Database schema which contains setup related configurations and metadata.

1.1 Supported Software Versions

OFSAAI 7.3.4.0.0 version is compatible on RHEL/ Oracle Linux 6.4 and Solaris 11.

In addition to the configurations supported in OFSAAI 7.3 version which are listed in the *Software Environment* section in OFSAAI 7.3 Installation and Configuration Guide, the following configurations are also supported for OFSAAI 7.3.4.0.0 version.

Type	Description
Infrastructure Application Server	**Applicable for all OS :** ▪ Oracle Client 11g R2 (11.2.0.3.0) - 64 bit **For AIX :** ▪ IBM AIX Runtime, Java Technology JRE 1.6.0 (SR14) - 64 bit ▪ IBM AIX Runtime, Java Technology JDK 1.6.0 (SR14) - 64 bit **For RHEL/ Oracle Linux and Solaris:** ▪ Sun JRE Standard Edition 1.6.0_45 - 64 bit ▪ Sun JDK Standard Edition 1.6.0_45 - 64 bit **Note** : OFSAAI 7.3 base installer does not support Java 1.6.0_45 for SOLARIS 11.
Infrastructure Database Server	**Applicable for all OS :** ▪ Oracle Database Enterprise Edition Release 11.2.0.3.0 - 64 bit with or without RAC **For AIX :** ▪ IBM AIX Runtime, Java Technology JRE 1.6.0 (SR14) - 64 bit ▪ IBM AIX Runtime, Java Technology JDK 1.6.0 (SR14) - 64 bit **For RHEL/ Oracle Linux and Solaris:** ▪ Sun JRE Standard Edition 1.6.0_45 - 64 bit ▪ Sun JDK Standard Edition 1.6.0_45 - 64 bit ▪ Oracle Hyperion Essbase 11.1.2.2.0 (Server and Client) ▪ Oracle OLAP v 11.2.0.3.0 **Note**: Oracle Hyperion Essbase and Oracle OLAP are required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database Server with OLAP option.

Type	Description
Infrastructure Web Server	**Applicable for all OS** : ▪ Oracle 11g R2 (11.2.0.3.0) JDBC driver (Oracle thin driver) **For AIX:** ▪ IBM AIX Runtime, Java Technology JRE 1.6.0 (SR14) - 64 bit ▪ IBM AIX Runtime, Java Technology JDK 1.6.0 (SR14) - 64 bit ▪ Apache Tomcat 7.0.19 pointing to IBM AIX Runtime, Java Technology JDK 1.6.0 (SR14)- 64 bit ▪ WebSphere 7.0.0.29 pointing to IBM Runtime, Java Technology JDK 1.6.0 (SR13 FP2 Cumulative) - 64 bit ▪ WebLogic 10.3.6.0 pointing to IBM AIX Runtime, Java Technology JDK1.6.0 (SR14)- 64 bit **For RHEL/ Oracle Linux and Solaris:** ▪ Sun JRE Standard Edition 1.6.0_45 - 64 bit ▪ Sun JDK Standard Edition 1.6.0_45 - 64 bit. ▪ Apache Tomcat 7.0.19 pointing to JDK Standard Edition 1.6.0_45 - 64 bit ▪ WebSphere 7.0.0.29 pointing to IBM Runtime, Java Technology JDK 1.6.0 (SR13 FP2 Cumulative) - 64 bit ▪ WebLogic 10.3.6.0 with JDK Standard Edition 1.6.0_45 - 64 bit or WebLogic 10.3.6.0 with Oracle JRockit 6 - R28.2.7 (1.6.0_45) - 64 bit

1.2 Pre Installation Requirements

- You should have 7.3 GA as the minimum patch set level.
- If this IR is being applied on a fresh installation of OFSAAI, ensure the Post Installation Configuration of OFSAAI 7.3 GA has been completed prior to proceeding with the installation of this IR. If you are applying this IR on an existing working setup of OFSAAI 7.3.x, you may skip this step.
- Execute the below query in CONFIG schema:

```
SELECT DISTINCT(T1.V_BATCH_ID) FROM BATCH_MASTER T1, BATCH_MASTER
T2 WHERE
REPLACE(TRANSLATE(T1.V_BATCH_ID,'`~!@#$%^&*()+=[]{}\\|;"<>?,/-:.
','#'), '#','')
=REPLACE(TRANSLATE(T2.V_BATCH_ID,'`~!@#$%^&*()+=[]{}\\|;"<>?,/-:.
','#'),'#', '') AND T1.V_CREATED_DATE <> T2.V_CREATED_DATE
```

This query returns a list of Batch Names with special characters/space. These characters/ spaces are removed as part of the IR installation. However, few constraints may fail to get enabled. Therefore, if the query returns a list of Batch names, you need to manually remove and recreate the batches without using the special characters/space. For more information on creating batches, refer to the *Operations > Batch Maintenance* section of OFSAAI 7.3.4.0.0 User Manual.

- Provide **create synonym** privileges for atomic schemas. Log in to the database with **dba** privileges and execute the below grant to provide create synonym privilege on all existing atomic schemas.

  ```
  grant create synonym to <atomic_user>
  ```

  NOTE: The list of existing atomic schemas can be retrieved from DB_MASTER table present in config schema by executing this command:
  `select dbuserid from db_master`

- If you do not have permission to create directory in the OFSAAI installation mount, specify the backup location where the installer or patch can create a backup directory for patch deployment in the **params.conf** file present along with installer kit. You should have access rights on the specified backup location.

  For example, BACKUP_LOCATION= /scratch/ofsaaapp/backup

  NOTE: If you have permission to create directory in the OFSAAI installation mount, backup directory will be created in the OFSAAI installation mount, even though you provide another location in the **params.conf** file.

1.3 How to Apply This Interim Release?

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

1. Login to https://support.oracle.com/ and search for 18473328 under the *Patches & Updates* tab.
2. Download the 7.3.4.0.0 IR archive file and copy it to your AAI server in **Binary** mode.

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

   In case of a multi-tier deployment, the IR needs to be copied and installed on each tier:

   - APP tier
   - DB 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" component resides and does not mean the physical web server/ J2EE engine. APP tier would mean the box on which the "ficapp" components reside.

3. Shut down all the OFSAAI Services. For more information, refer to the *Start/Stop Infrastructure Services* section in OFSAAI 7.3 Installation and Configuration Guide.

4. Assign WRITE permission to the files/ folders such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb in the **$FIC_HOME** folder by executing the command:

   ```
   chmod -R 750 *
   ```

   In case of multi-tier installation, repeat this step on all tiers.

5. 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 7.3.4.0.0 IR.

   - 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.

   - Give EXECUTE permission to the file using the command:

     ```
     chmod 751 OFSAAI_73400_<OperatingSystem>.zip.
     ```

6. Extract the contents of the 7.3.4.0.0 IR archive file using the command:

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

   NOTE: The above "**-**a" option is mandatory to unzip the archive file. For example:
   `unzip_aix -a OFSAAI_73400_<OperatingSystem>.zip`

7. Give EXECUTE permission to the IR archive file. Navigate to the path *OFSAAI_73400_<OperatingSystem>.zip* and execute the command:

   ```
   chmod 750 OFSAAIUpdate.sh
   ```

8. Execute **OFSAAIUpdate.sh** file.

Verify if the IR is applied successfully by checking the log file generated in the installation folder. You can ignore ORA-00001, ORA-00955, ORA-02260, and ORA-01430 errors in the log file. In case of any other errors, contact Oracle Support.

NOTE: This IR installation will enable the RRF (Run Rule Framework) module by default. If you have been using the PR2 module, installer validates the existence of PR2 definitions and enables the PR2 module instead of the RRF module. However, post the installation, you can configure and migrate from PR2 to RRF module. For more details, refer to the *PR2 to RRF Migration Guide* available in OTN Library.

9. For information on securing your OFSAA Infrastructure, refer note 1540442.1 in My Oracle Support (MOS).
10. Refer to the additional configuration instructions explained in the *Additional Configuration* section to complete the installation of this IR.
11. Post successful installation of IR, perform the following steps:
    - Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.
      - **Tomcat**:
        <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp
      - **Weblogic**:
        <Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>/qaelce/jsp_servlet
      - **Websphere**:
        <Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>
12. Add umask 0027 in the .profile of the UNIX account which manages the WEB server to ensure restricted access permissions.
13. Make the necessary module specific configurations as mentioned in Module Specific Configurations section. If you wish to make these configurations at a later time, proceed with the next step.
14. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, refer to the *Post Installation Configuration* section in OFSAAI 7.3 Installation and Configuration Guide.

15. After the successful installation of the IR, restart all the OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in OFSAAI 7.3 Installation and Configuration Guide.

1.4 Additional Configuration

1.4.1 Configuration for Oracle R Distribution and Oracle R Enterprise (ORE)

Following are the prerequisites for using R scripting in the OFSAAI modeling framework. Ensure the below sequence is followed:

1. Install Oracle R Distribution and Oracle R Enterprise (Server Components) on the Oracle Database server. See *Oracle® R Enterprise Installation and Administration Guide for Windows, Linux, Solaris, and AIX,* Release 1.3.1 (E36763-17).
   - Oracle R Distribution versions supported- Oracle Distribution of R version 2.15.1, 2.15.2 or 2.15.3.
   - ORE version supported- Oracle R Enterprise (Server) version 1.3.1.

NOTE: Oracle R Enterprise 1.3.1 requires Oracle Database Enterprise Edition 11.2.0.3.

2. Install OFSAAIRunner Package.
3. Log in to the database with **dba** privileges and provide the following privilege to Configuration Schema:
   - RQADMIN by executing the command:

     ```
     grant RQADMIN to <config_schema>;
     ```

4. Log in to the database with **dba** privileges and provide the following privileges to Atomic Schema:
   - `CREATE UNLIMITED TABLESPACE` privilege by executing the command:

     ```
     grant CREATE UNLIMITED TABLESPACE to <atomic_schema>;
     ```

   - `CREATE MINING MODEL` privilege (to execute the Data Mining models) by executing the command:

     ```
     grant CREATE MINING MODEL to <atomic_schema>;
     ```

1.4.1.1 Installing OFSAAIRunner Package

OFSAAIRunner is an R package built by the framework. It is a prerequisite for executing models developed using R scripts within OFSAAI. This package helps in:

- Initializing inputs
- Mapping framework variables to R objects
- Configuring possible outputs of the script

- Storing results back to the Database

OFSAAIRunner package (*OFSAAIRunner_1.0.0.tar.gz)* is available under <OFSAAI Database Installation Directory>/ficdb/bin.

Prerequisite

- R & ORE should be installed on the Oracle Database server before installing OFSAAIRunner package.

Refer to the following instructions to install OFSAAIRunner package:

1. Log in to the OFSAAI DB layer. Navigate to the folder *$FIC_DB_HOME/bin/*.
2. Download the file *OFSAAIRunner_1.0.0.tar.gz* on to your desktop.
3. Log in to the Oracle Database Server with the same username, using which Oracle Database Server installation is done.
4. Copy the file *OFSAAIRunner_1.0.0.tar.gz* in **Binary** mode.
5. Navigate to the directory where the file *OFSAAIRunner_1.0.0.tar.gz* is copied.
6. Install the package by executing the command:

   ```
   ORE CMD INSTALL OFSAAIRunner_1.0.0.tar.gz
   ```

   Successful installation is indicated in the installation log as:

   ```
   * DONE (OFSAAIRunner)
   Making packages.html  ... done
   ```

   NOTE: The OFSAAIRunner package is installed in */usr/lib64/R/library.*

7. Navigate to the directory *$ORACLE_HOME/R/library* and check whether OFSAAIRunner package is listed there by executing the command:

   ```
   ls –l
   ```

1.4.1.2 Uninstalling OFSAAIRunner Package

Refer to the following instructions to uninstall the OFSAAIRunner package:

1. Log in to the Oracle Database Server with the same username, using which Oracle Database Server installation is done.
2. Enter ORE in command prompt and execute the command:

   ```
   #ORE
   >remove.packages("OFSAAIRunner")
   ```

3. To save workspace image, enter the command:

```
q()
```

4. Enter **y** when prompted to save the workspace image.

   ```
   Save workspace image? [y/n/c]: y
   ```

5. Navigate to the directory *$ORACLE_HOME/R/library* and verify the package is not listed there by executing the command:

   ```
   ls –l
   ```

1.4.2 Property "Data File Name" in PR2 and RRF Modules

In case the value for parameter "Data File Name" in the PR2/ RRF Process definitions is "blank", the patch installation log file states "Data File Name not specified for below processes in <Infodom_Name>". You need to take any one of the following actions as the case may be:

1. You need to edit the listed PROCESS definition(s) and specify a DATAFILENAME with <extension>. Process definition can be edited through the PR2 or RRF framework that you use.
2. If there is no explicit file name provided as mentioned above in PR2 or RRF module, you can provide this through a property "Data File Name" in File to Table (F2T) definition.
3. If no explicit file name is provided as mentioned in any of the above 2 cases, the system expects the sourced file name to be <F2T definition name>.dat (lower case extension) by default.

Note the following:

- Ensure that the flat file(s) is henceforth sourced in the same format. UNIX based systems preserve the case-sensitivity (Example: DAT and .dat are not the same).
- This is applicable only for new execution requests raised post installation of this patch.
- Update all the existing flat file extensions, present in the ftpshare/STAGE area before creating any new run requests.

If you are using RRF framework, execute the below queries on CONFIG schema where Run(s) / Rule(s) are defined.

- The below query would return the PROCESS names where the property DATAFILENAME is specified and currently blank. You need to edit the PROCESS definition(s) and specify a DATAFILENAME. For example, STG_FCT_ EXPOSURES.DAT.

process.sql

- The below query would return the RUN names where the property DATAFILENAME is used and currently blank. You need to edit the RUN definition(s) and specify a DATAFILENAME. For example, STG_FCT_EXPOSURES.DAT.


run.sql

1.4.3 Stress Testing Framework Configuration

If you are using the Stress Testing Framework in the Advanced Analytics Infrastructure section, follow the below steps:

- Execute the below query in the Configuration Schema:

```
select prb.v_run_id from pr2_run_b prb where prb.v_seeded_by =
'AAI' and prb.v_infodom_name = '<infodom>';
```

NOTE: Replace <infodom> with the required information domain name(s).

- Execute the below query in the corresponding Atomic Schemas:

```
update dim_run dr set dr.n_run_type_skey = 3 where dr.v_run_id in
('<VAL1>', '<VAL2>','...');
```

NOTE: Replace the above place holders `'<VAL1>', '<VAL2>'` in the insert query with values from the select query result.

The list of existing atomic schemas can be retrieved from the DB_MASTER table present in the Configuration Schema by executing this command:
`select dbuserid from db_master`

1.4.4 BlowFish Algorithm Setting for Solaris 11

OFSAA client call uses blowfish-cbc, 3des-cbc algorithm during SFTP. But BlowFish algorithm is not supported on Solaris 11 operating system. Perform the following steps manually to enable it:

1. Login as a root user.
2. Append the following line to `/etc/ssh/sshd_config`

```
Ciphers aes128-ctr,aes192-ctr,aes256-
ctr,arcfour128,arcfour256,arcfour,blowfish-cbc,3des-cbc
```

3. Restart ssh daemon:

```
svcadm -v restart ssh
```

1.5 Module Specific Configurations

This IR includes the following module and/or feature enhancements done since OFSAAI v7.3 GA release. You may be required to do certain specific configurations (post successful IR update) in order to use these features. For more information on configuration of these features, refer to OFSAAI Administration Guide.

- Dimension Configuration: Alphanumeric and Numeric Codes
- Hierarchy Node Internationalization
- T2T and PR2 Query Performance Optimization
- Configure Data Quality Rule Approval Parameters
- Run Rule Framework Configuration
- Configure Forms xml to Execute Server Side Rule
- Data Element Filters Classification
- Configure Forms Framework Enhancements
- Multiple Language Support (MLS) Utility
- Config Schema Upload/ Download Settings
- Database Password Reset/ Change
- Configure SSO Authentication

Appendix A

Configuration of Internal Service (Document upload/ download)

This step can be ignored if it has already been configured as part of any previous IR /ML installation.

The Document Upload /Download feature has undergone a change and can now be configured to use **Internal** service for document upload / download instead of the earlier ExeWebService.

To facilitate **Internal** service for document upload/ download, perform the following configurations.

1. Create the folders **download**, **upload**, **TempDocument** and **Temp** in the **local path** of Web application server and provide **Read/Write** permission.
   - To find the exact location, execute the query in CONFIG schema:

     ```
     select localpath from web_server_info
     ```

   - To create folders with **Read/Write** permission, execute the command:

     ```
     mkdir -m 777 download upload TempDocument Temp
     ```

2. Create **DocStorage** folder in the FTPSHARE location of APP tier and provide **Read/Write** permission.
   - To find the exact location, execute the below query in CONFIG schema:

     ```
     select ftpdrive from app_server_info
     ```

   - To create folder with **Read/Write** permission, execute the command:

     ```
     mkdir -m 777 DocStorage
     ```

By default, the parameter **DOCUMENT_SERVICE_TYPE_EXTERNAL** value is set to **FALSE** in the Configuration table in CONFIG schema and hence the application "ExeWebService" will not be used. It is recommended that the value to be set to **FALSE** and use the **Internal** service for document upload/ downloads. If you intend to continue using the **External** ExeWebService, set the value to **TRUE.**

Navigate to $FIC_HOME/EXEWebService/<WEBSERVER_TYPE> directory of WEB tier and type **./ant.sh**. This triggers the creation of EAR/WAR file EXEWebService.ear/.war. The EAR/WAR file EXEWebService.ear/.war will be created in $FIC_HOME/EXEWebService/<WEBSERVER_TYPE> directory of WEB tier. Redeploy the generated EAR/WAR file onto your configured web application server.

Appendix B

Frequently Asked Questions

What configurations should I ensure for successful Oracle R executions?

Refer to the Configuration for Oracle R Distribution and Oracle R Enterprise (ORE) section.

What should I do if I get OutOfMemoryError while deploying EAR file in WebSphere application server?

The Java memory needs to be increased in **ejbdeploy.sh** file which is present under <WebSphere Install directory>/AppServer/deploytool/itp

For example,

```
$JAVA_CMD \
-Xbootclasspath/a:$ejbd_bootpath \
 Xms256m -Xmx1024m \
```

Why cannot I view the SQL Rule link under UMM> Data Management Tools?

This feature has restricted access. However, if you want to reinstate access to this feature, refer to Support Note.

Why cannot I view the following links from the OFSAAI homepage post installation of this IR?

- UMM> BMM> Hierarchy Attribute and Computed Measure
- System Configuration> Hierarchy Security
- Operations> Batch Group

These features have restricted access from 7.3.3.0.0 IR release. For more information, please contact Support.

How to grant privileges if a new information domain is created?

If you are creating a new information domain, provide a set of privileges (database permissions) to the new Atomic schema.

- Log into the database as **sys** and connect as **sysdba** user.
- Execute the file **privileges_config_user.sql** available under *$FIC_HOME* directory.
- Enter the database schema for which you want to grant privileges.

When should I run the MLS utility?

See the *Multiple Language Support (MLS) Utility* section in OFSAAI Administration Guide.

What configurations should I ensure if my data model size is greater than 2GB?

In order to upload data model of size greater than 2GB in OFSAAI *Unified Metadata Manager- Import Model*, you need to configure the required model size in **struts.xml** file available in the path *$FIC_WEB_HOME/webroot/WEB-INF/classes*.

NOTE: The size requirements have to be always specified in bytes.

For example, if you need to configure for model size of 2.5GB, then you can approximately set the max size to 3GB (3221225472 bytes) as indicated below, in-order to avoid size constraints during model upload.

<constant name="struts.multipart.maxSize" value="3221225472"/>

After configuring **struts.xml** file, generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, refer to the *Post Installation Configuration* section in OFSAAI 7.3 Installation and Configuration Guide.

What are the optimized memory settings required for "New" model upload?

The below optimization settings are introduced as a part of 7.3.3.0.0 IR.

Model Upload Options	Size of Data Model XML File	X_ARGS_APP Environment Variable in OFSAAI APP layer
Pick from Server	106 MB	"-Xms1024m -Xmx1024m
	336 MB	"-Xms2048m -Xmx2048m
	815 MB	"-Xms4096m -Xmx4096m
	1243 MB	"-Xms6144m -Xmx6144m
Model Upload Utility	106 MB	"-Xms1024m -Xmx1024m
	336 MB	"-Xms2048m -Xmx2048m
	815 MB	"-Xms4096m -Xmx4096m
	1243 MB	"-Xms6144m -Xmx6144m
Save New Erwin File In Server	106 MB	"-Xms1024m -Xmx1024m
	336 MB	"-Xms2048m -Xmx2048m

Model Upload Options	Size of Data Model XML File	X_ARGS_APP Environment Variable in OFSAAI APP layer
	815 MB	"-Xms4096m -Xmx4096m
	1243 MB	"-Xms6144m -Xmx6144m

For additional information, refer to the *Configuration for Model Upload Utility* section in OFSAAI 7.3 Installation and Configuration Guide.

What should I do if my Hierarchy filter is not reflecting correctly after I make changes to the underlying Hierarchy?

In some cases, the Hierarchy Filters do not save the edits correctly if the underlying Hierarchy has been changed. This can occur in hierarchy maintenance, where you have moved a member to another hierarchy branch, and that member was explicitly selected in the Filter and is now a child of a node which is already selected in the Filter.

Please refer to Support Note for the workaround.

What should I do to change context name for a cloned environment?

Refer to Support Note.

Which version of ERwin Data Modeler does OFSAAI support?

OFSAAI now supports ERwin version 9.2 and 9.5 generated xmls in addition to ERwin 4.1, ERwin 7.1, ERwin 7.3 and ERwin 9.0 formats.

What should I do for viewing the log files in Debug level for troubleshooting?

By default, the log level is set as INFO. You need to manually change it to Debug to view the log files in debug level. Based on your requirement, you can change the log level to Warn, Error, or Fatal as well.

1. Navigate to *$FIC_HOME/conf* in the APP layer of your OFSAAI installation.
   - Change the **priority value** to **Debug** in the *RevLog4jConfig.xml* file.

     For example:

     ```
     <root>
       <priority value ="debug" />
       <appender-ref ref="ConsoleAppender1"/>
     </root>
     ```

   - Change the value of **LOGGERLEVEL** in the *DynamicServices.xml* file from **20** to **0**. (**20** is the value for Info and **0** for Debug.)

NOTE: For multi-tier installation, you need to change the log level to Debug in the *DynamicServices.xml* and *RevLog4jConfig.xml* files, which are present in *$FIC_APP_HOME/conf*, *$FIC_DB_HOME/conf*, and *$FIC_WEB_HOME/conf* as well.

2. Navigate to *$FIC_WEB_HOME/webroot/conf* and change the **priority value** to **Debug** in the *ExportLog4jConfig.xml* , *MDBLogger.xml*, and *PR2Logger.xml* files for viewing log files in Debug level for the modules Archive/Restore, Metadata Browser and RRF respectively.
3. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, refer to the *Post Installation Configuration* section in OFSAAI 7.3 Installation and Configuration Guide.
4. Restart the OFSAAI Services (APP and WEB). For more information, refer to the *Start/Stop Infrastructure Services* section in OFSAAI 7.3 Installation and Configuration Guide.

How do you turn off unused information domains (infodoms) from cache?

Follow the below steps to turn off unused infodoms from cache:

Navigate to *$FIC_HOME/conf* in the APP layer of your OFSAAI installation.

1. In the *DynamicServices.xml* file, identify the section for <Service code="20">.
2. Modify the value of parameter CACHE_ON_STARTUP to 0 (default is 1).
3. Repeat the same in the WEB layer too. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, refer to the *Post Installation Configuration* section in OFSAAI 7.3 Installation and Configuration Guide.
4. Restart the OFSAAI Services (APP and WEB). For more information, refer to the *Start/Stop Infrastructure Services* section in OFSAAI 7.3 Installation and Configuration Guide.

NOTE: This setting will cache the Infodom metadata only for the infodoms that get accessed upon user login. Infodoms which do not get accessed, will not be cached.

Sample code is pasted below:

```
<SERVICE CODE="20"
CLASS="com.iflex.fic.metadata.services.MetadataServiceProvider"
NAME="BMD"
SERVERID="DEFAULT" PATH=" " LOGGERNAME="UMMLOGGER" LOGGERLEVEL="10">
<PARAMETERS>
<PARAMETER NAME="CACHE_ON_STARTUP" VALUE="0" />
<PARAMETER NAME="BACKUP_XML" VALUE="1" />
<PARAMETER NAME="MAX_BACKUP_XML" VALUE="2" />
<PARAMETER NAME="PC_NONBI_BI_SWITCH" VALUE="2048" />
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<PARAMETER NAME="HIERARCHY_NODE_LIMIT" VALUE="2000" />
<PARAMETER NAME="ALIAS_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="DATASET_CACHE_SIZE" VALUE="2000" />
<PARAMETER NAME="MEASURE_CACHE_SIZE" VALUE="2000" />
<PARAMETER NAME="HIERARCHY_CACHE_SIZE" VALUE="2000" />
<PARAMETER NAME="DIMENSION_CACHE_SIZE" VALUE="2000" />
<PARAMETER NAME="HIERARCHYATTRIBUTE_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="CUBE_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="RDM_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="BUSINESSPROCESSOR_CACHE_SIZE" VALUE="2000" />
<PARAMETER NAME="DERIVEDENTITY_CACHE_SIZE" VALUE="1000" />
<PARAMETER NAME="LOG_GET_METADATA" VALUE="false" />
<PARAMETER NAME="METADATA_PARALLEL_CACHING" VALUE="0" />
</PARAMETERS>
</SERVICE>
```

OFSAAI
7.3.4.0.0 Installation Guide

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