

# **Oracle Financial Services Analytical Applications Infrastructure**

## **Data Model Management Troubleshooting Guide**

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**ORACLE**  
Financial Services

## OFS AAI Data Model Management Troubleshooting Guide

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# Document Control

Version Number	Revision Date	Change Log
1.2	December 2021	Update the <a href="#">Troubleshoot Database Error Messages</a> Section (33683772).
1.1	April 2021	Added details in the <a href="#">Troubleshoot Database Error Messages</a> section for the following error codes: <ul style="list-style-type: none"><li>• ORA-01758</li><li>• ORA-01452</li><li>• ORA-02437</li></ul>
1.0	October 2020	Created troubleshooting guide for the Data Model Management module in OFS AAI.

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# 1 Troubleshooting Errors During Model Upload

This section details about the common errors faced during the model upload process in the Data Model Management module in OFS AAI and the steps to troubleshoot the problem.

## 1. *In case of any data Model Upload failure, where do I find the logs associated with failure?*

Check for errors in the following log files present in the respective directory:

- `Ftpshare/<INFODOM>/logs`
- `$FIC_HOME/ficapp/common/FICServer/bin/nohup.out`
- `ETLService.log` from `$FIC_HOME/logs`

## 2. *Model Upload failed with the following error, what do I do?*

*“Model Upload Failed. Unable to fetch the necessary stylesheet. Aborting the model upload process”*

You get this error if the Model Upload process is unable to find the correct version of the XSL file required to transform the uploaded ERwin XML file. Check whether the ERwin model version is supported by the current OFSAA version.

Perform the following steps to do further analysis:

1. Open the input `datamodel.xml` file and find the value of the tag `<FileVersion=>`:

For example: If `FileVersion="9.70.2293"`, the ERwin version is 97.

2. Verify whether the respective ERwin version folder exists in the `$FIC_HOME/ficapp/common/FICServer/conf` folder with `Erwin.xml` in it.

For example: `$FIC_HOME/ficapp/common/FICServer/conf/Erwin97/Erwin.xml`

## 3. *Sliced Model Upload is successful; however, column changes are not reflected in the schema. What do I do?*

Sliced Model Upload checks the model version, which is a model level UDP named “VERSION”, to decide whether the sliced model definition should be considered over the base model version for common entities. When the SLICE and BASE models have common tables and if the entity version of the BASE model is higher than that of the SLICE model, then entity in the BASE model is retained.

Correct the “VERSION” model level UDP and proceed with the Model Upload process.

For more information, see the [Model Versioning](#) section in the OFSAAI User Guide.

## 4. *Model Upload session terminated abruptly during Object Registration. How do I re-trigger Object Registration?*

The `RegisterObjects` utility is used to perform the object registration separately if it is failed during the Model Upload process. You can execute the shell script file (`RegisterObjects.sh`) from the command line. The utility is present in the `$FIC_HOME/ficapp/common/FICServer/bin` folder.

To run the utility directly from the console:

3. Navigate to `$FIC_HOME/ficapp/common/FICServer/bin`.
4. Open `RegisterObjects.sh` and enter the following arguments in the file:
  - `<infodom>` - Refers to the DSN name. Change the infodom name to which Object Registration should be performed
5. Execute the script using the command:
 

```
./RegisterObjects.sh
```

**NOTE**

1. Ensure that you are provided with the execute permission.
2. The log file in the `Ftpshare/<INFODOM>/logs` folder is empty. The logs are printed in the console only.

5. *I got the following error, what should I do?*  
*“Model upload failed with OUT OF MEMORY ERROR .....[Java heap Space] . check nohup.out for error”*

Check the XMX value set for `X_ARGS_APP` environment variable in the `.profile` file.

The recommended memory is 10 times the size of the ERwin XML file being uploaded. Alternatively, if your system does not have the required memory size, increase the memory size to the extent possible based on the current system memory available. Retrigger Model Upload.

6. *Sliced Model Upload failed with the following error, what do I do?:*  
*“Base Table version for the table <TABLE\_NAME> is null. The OFSAA entity metadata repository is inconsistent. Please execute object registration before doing model upload to correct the repository data.”*

You get this error when the Version column in the `REV_TABLES_B` table is NULL. The Version column is required to compare the version of a table in the datamodel with that in the database to determine whether the table changes should be applied or not. If the version is lower in the datamodel, the changes are ignored.

Perform the following steps:

1. Trigger Object Registration using the `RegisterObjects.sh` utility. For more details, see [Object Registration](#).
2. Proceed with the Sliced Model Upload.

7. *Model Upload failed with the following error, what do I do?*  
*“There is a duplicate column in this Table ....Column Name is <Column Name>”*

Perform the following steps:

1. Identify the duplicate columns in the ERwin XML file and delete or correct the duplicate column names from the ERwin datamodel.
2. Proceed with the Model Upload process.

**8. Sliced Model Upload failed with the following error, what do I do?**

*“java.lang.Exception: Base Document Object is null for infodom <INFODOM NAME>”*

You get this error if you try to do a Sliced Model Upload prior to New Model Upload. Ensure that you use the New Model Upload option if you are uploading a model for the first time. Sliced Model Upload can be done only for subsequent model uploads.

**9. Model Upload tables are created in Metadom rather than Datadom for Hive Infodom. Why is it so?**

In case of HIVE Information Domain, the Metadom schema points to RDBMS database where all the object registration tables are maintained. The Datadom schema points to Hadoop.

While performing Model Upload for Hive Infodom, verify that the Metadom and Datadom are selected properly during the Infodom creation from the *Information Domain* window.

**10. I triggered Model Upload from UI, but no entry is present in the Model Upload Summary window. Why is it so?**

This error occurs in versions prior to 8.0.6.2 only. This issue is fixed in 8.0.6.2 and higher versions.

Perform the following steps:

1. Check for any allowlisting errors thrown in the `fusionsubsystem logs/catalina.out` file.
2. Input proper values. For example: Name, Filename
3. Re-trigger the Model Upload process.

**11. Sliced/Incremental Model Upload is failing with duplicate constraint name. What do I do?**

This error occurs if your upgrade path is from 7.x to 8.0.2.0.0 or you installed your application using 8.0.2.0.0 full installer.

1. Run the Update Constraints utility released as part of 802 one-off Patch 23251358-Object Registration is failing with duplicate Constraint Names. For more information, see the *Update Constraints Utility* section in [OFSAAI Installation Guide 8.0.2.2.0](#).
2. Re-trigger the Model Upload process.

**12. Sliced/Incremental Model Upload is failing with “<Column\_Name> cannot be deleted as the table has data for this column or the table doesn't exist and might have been dropped manually” message. What do I do?**

To resolve this issue, follow these steps:

1. Clear any existing data in the columns.
2. In case, columns have been manually dropped, recreate them.
3. Re-trigger the Model Upload process.

## 2 Troubleshoot Database Error Messages

Component	SQL Error	Resolution
Object Registration	ORA-00955: name is already being used by existing object	<ol style="list-style-type: none"> <li>1. Check if the bkp tables (REV_TABLES_B_BKP, REV_TAB_COLUMNS_BKP, REV_TAB_REF_CONSTRAINTS_BKP, REV_TAB_CONSTRAINTS_BKP, REV_TABLE_CLASS_ASSIGNMENT_BKP, REV_TABLE_LOG_CLASS_ASMNT_BKP, REV_COLUMN_PROPERTIES_BKP, REV_TAB_COLUMNS_MLS_BKP, REV_VIRTUAL_TABLES_BKP, REV_TAB_CONSTRAINT_COLUMNS_BKP, REV_TAB_PARTITIONS_BKP, REV_TABLES_TL_BKP, REV_TAB_INDEXES_BKP, REV_SYNONYMS_BKP, AAI_DMM_TAB_PARTITIONS_BKP, AAI_DMM_TAB_PART_COLUMNS_BKP, AAI_DMM_TAB_SUBPARTITIONS_BKP, AAI_DMM_TAB_SUBPART_COL_BKP) are created.</li> <li>2. If they exist, drop them and then proceed with Object Registration using the <code>RegisterObjects.sh</code> utility. For more details, see <a href="#">Object Registration</a>.</li> </ol>
Object Registration	ORA-01653: unable to extend table by in tablespace	Add data file to the existing tablespace and proceed with object registration using the <code>RegisterObjects.sh</code> utility. For more details, see <a href="#">Object Registration</a> .
Object Registration	ORA-01400: cannot insert NULL into ("<<schema_name>>".REV_TABLE_CLASS_ASSIGNMENT"."TABLE_CLASSIFICATION_CD")	<ol style="list-style-type: none"> <li>1. Ensure that the REV_TABLE_CLASSIFICATION_B and REV_TABLE_CLASSIFICATION_TL tables are populated during Infodom creation.</li> <li>2. If tables are empty or found with incorrect entries, correct them.</li> <li>3. Re-trigger Object Registration. For more details, see <a href="#">Object Registration</a>.</li> </ol>
Model Upload	ORA-01408: such column list already indexed	<ol style="list-style-type: none"> <li>1. Ensure that the index is created as part of the model upload process. If index is created outside the model upload process, then drop the same.</li> <li>2. Re-Trigger Model upload</li> </ol> <p>Error can come for any database objects being created or maintained as part of Data Model Management. In such cases, ensure that the database (atomic schema) is consistent with the data model. Hence, perform the necessary manipulations such as drop/alter/create at the database end to assure the consistency and proceed with the model upload operation.</p>



Component	SQL Error	Resolution
Model Upload	ORA-00955: name is already used by an existing object	<p>Ensure that the existing table is created via model upload. Else, drop the existing table and re-trigger the Model upload process.</p> <p>Error can come for any database objects being created or maintained as part of Data Model Management. In such cases, ensure that the database (atomic schema) is consistent with the data model. Hence, perform the necessary manipulations such as drop/alter/create at the database end to assure the consistency and proceed with Model Upload process.</p>
Object Registration	Error while executing the query Failed Executing Batch: error occurred during batching: ORA-00001: unique constraint(PK_REV_TABLES_B) violated	<ol style="list-style-type: none"> <li>1. Verify the data model and delete the duplicate tables from ERwin.</li> <li>2. Re-generate the repository XML file from ERwin.</li> <li>3. Trigger Object Registration using the <code>RegisterObjects.sh</code> utility. For more details, see <a href="#">Object Registration</a>.</li> </ol>
Model Upload	ORA-01758: table must be empty to add mandatory (NOT NULL) column	When you modify an existing column from NULL to NOT NULL, ensure that there is no data in the table.
Model Upload	ORA-01452: cannot CREATE UNIQUE INDEX; duplicate keys found	Ensure there is no duplicate record for the columns that are created as part of Unique Index.
Model Upload	ORA-02437: cannot validate - primary key violated	When you try to enable a primary key constraint, ensure that the columns in the primary key do not contain NULL values or duplicates.