

Procedure to merge Oracle Hyperion Financial Close Management Single Node Environment (11.1.2.3) CM and ARM split schema's into 1 single FCM schema

Purpose

This document explains how to merge an 11.1.2.3 Financial Close Management split schema's into a single schema.

Known Limitations:

1. These procedures do not apply to multi-node installations of FCM. A second set of procedures will be published for this use case.
2. This document assumes balance data is loaded from flat files. Additional FDMEE post steps would be required to migrate data load configuration for other source types.
3. Prior to performing these procedures, all ARM Periods must be locked. Administrators can re-open the periods following the schema merge procedure. Workflow can resume on reconciliations once periods have been re-opened.
4. Prior to performing these procedures, all Close Manager Schedules must be locked. Schedules cannot be re-opened once locked. Hence, workflow cannot resume on tasks within cloned Schedules.
5. These procedures were tested on an 11.1.2.3.000 environment. We are aware of no limitations preventing these procedures from being used on 11.1.2.3 patch set updates.

References:

Oracle® Fusion Middleware Administrator's Guide: 16.3 performing a Backup -
http://docs.oracle.com/cd/E14571_01/core.1111/e10105/br_bkp.htm#CEGBGIEG

Financial Close Management Oracle By Example (OBE) for Single Node Document

<http://www.oracle.com/webfolder/technetwork/tutorials/obe/hyp/FCM11.1.2.3-SingleNodeInstall/FCMSingleNodeInstall.htm>

Prerequisites:

Single node environment that has CM and ARM in separate (split) schema's setup by following the OBE reference above.

Environment Assumptions:

It is assumed that your Financial Close Management environment is in proper working order and that your environment was installed using the OBE doc listed above in the references section. For this document we will call your split schema's 'cm' , 'arm' and the single merged schema will be called 'fcm'.

Environment details:

Database Used: Oracle

Single node: 11.1.2.3.000 EPM server

Applications installed: FCM, HSS, FDMEE (Version: 11.1.2.3.000) and SOA (Version: 11.1.1.7.000)

Web server: OHS (Oracle HTTP Server)

Web application server: Weblogic

Deployment: Traditional (Non-Compact)

OS: Windows

High level Sequence of steps:

Ensure your current environment are in proper working order and validator tool is successful. If not successful correct all issues before proceeding.

- 1) Create new schema called 'fcm'
- 2) Backup all databases. FCM, HSS, FDMEE and SOA schemas
- 3) Create a backup of the Middleware and Oracle Inventory directory.
- 4) Export separate (split) schemas 'cm' and 'arm' and Import into single schema called 'fcm'. If you hit an error saying 'S_ROW_ID' and/or 'WL_LLRFINANCIALCLOSE0' table exists, you can ignore it.
- 5) Ensure that we have only one row in S_ROW_ID table (under the data tab).
- 6) The value of the 'NEXT_ID' column should be the larger value of the 2 values in each of the 'cm' and 'arm' schemas.
- 7) Re-run config tool to point to new single schema 'fcm'. Please select to 'Reuse the existing database' option.
- 8) Restart all EPM services.
- 9) Post steps for FDMEE

Detailed Sequence of Steps:

Step 1) Create new schema called 'fcm'.

In your oracle database create a user called 'fcm'.

Step 2) Backup all databases from Server1 - Source. FCM, HSS, FDMEE and SOA schemas

Have your database administrator perform a full database backup using RMAN.

Oracle® Database Backup and Recovery User's Guide:

http://docs.oracle.com/cd/E11882_01/backup.112/e10642/rcmquick.htm#BRADV89346

Step 3) Create a zip of the entire Middleware and Oracle Inventory directories.

Navigate to <Middleware Home> (e.g. C:\Middleware) and use 7zip to zip the Middleware folder. You may also reference the below link for other methods. Make sure that all EPM related services are shutdown before zipping. It will take close to 40 minutes to zip the entire Middleware folder.

Navigate to the Oracle Inventory Location (e.g. C:\Program Files\Oracle) and use 7zip to zip the Oracle folder.

Oracle® Fusion Middleware Administrator's Guide: 16.3 Performing a Backup -

http://docs.oracle.com/cd/E14571_01/core.1111/e10105/br_bkp.htm#CEGBGIEG

It's assumed that your EPMSys11R1 folder is also under your Middleware folder as per instructions in the OBE.

Step 4) Export separate (split) schemas 'cm' and 'arm' and Import into single schema called 'fcm'.

You'll have to export 'cm' and 'arm' and import to newly created schema 'fcm'.

- a) Export CM and ARM Schema(s)

Export Command:

```
expdp <user>/<password> DIRECTORY=data_pump_dir dumpfile=<user.dmp> logfile=exp_user.log
```

Example:

```
expdp cm/password DIRECTORY=data_pump_dir dumpfile=cm.dmp logfile=exp_cm.log
```

```
expdp arm/password DIRECTORY=data_pump_dir dumpfile=arm.dmp logfile=exp_arm.log
```

- b) Import CM and ARM Schemas into FCM.

Import Command:

```
impdp <user>/<password> DIRECTORY=data_pump_dir dumpfile=<DatabaseDumpFile.dmp>  
logfile=import.log REMAP_SCHEMA=<user>:<user1>
```

The REMAP_SCHEMA parameter allows you to import to another schema.

```
impdp cm/password DIRECTORY=data_pump_dir dumpfile=cm.dmp logfile=imp_fcm.log  
REMAP_SCHEMA=cm:fcm
```

```
impdp arm/password DIRECTORY=data_pump_dir dumpfile=arm.dmp logfile=imp_arm.log  
REMAP_SCHEMA=arm:fc
```

These commands will import your 'cm' and 'arm' schemas into a single schema called 'fcm'

If you hit an error saying 'S_ROW_ID' and/or 'WL_LL_R_FINANCIALCLOSE0' table exists, you can ignore it.

Step 5) Ensure that we have only one row in S_ROW_ID table (under the data tab\page).

Please ensure that only 1 row is present in the table called S_ROW_ID (under the data tab\page).

Step 6) The value of the 'NEXT_ID' column should be the larger value of the 2 values in each of the 'cm' and 'arm' schemas.

Example:

If your cm schema shows the value of '10000000004001' in the 'NEXT_ID' column and your arm schema shows the value of '10000000001001' then you must have the larger of the 2 values entered in your fcm schema. In our case the cm value is the larger of the 2 and what should be displayed in our 'NEXT_ID' table in the fcm schema. If necessary please update the table manually.

Step 7) Re-run config tool to point to new single schema 'fcm'. Please select to 'Reuse the existing database' option.

Re-run config tool to point to new single schema 'fcm'. Please select to 'Reuse the existing database' option. Do not select to drop tables.

Step 8) Post steps for FDMEE

You may need to sync up the physical 'cm' and 'arm' schemas to point to the 'fcm' schema. This can be done in ODI studio.

If data is being imported via flat file, you'll need to create ERPI folder via system settings and also copy over the FlatFile.txt used for import.

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