

4.4M0 HF4 – SAS Fraud Management DBMS Package Configuration Instructions

The use of a SAS Fraud Management DBMS package based on a continuous integration mode was introduced in 4.4M0 HF4. After running the SAS Deployment Manager to install the hot fix, these manual steps are required for the initial configuration of the SAS Fraud Management DBMS package.

In the following instructions, `<SASHOME>` refers to your SAS Home directory name. `<SASCONFIG>` refers to your SAS Configuration directory. Substitute these placeholders with the correct values in your environment.

Configuration Steps

1. Log on to the OnDemand Decision Engine (ODE) server as the SAS installation user.

2. Change to the SAS Fraud Management implementation home directory.

```
cd <CONFIGDIR>/Lev1/Applications/SASFraudManagement/4.4/<Auth-Domain>
```

3. Make a new directory named `dbms`.

```
mkdir dbms
```

4. Make 4 subdirectories in the new `dbms` directory.

```
mkdir dbms/bin
mkdir dbms/data
mkdir dbms/etc
mkdir dbms/logs
```

5. Change to the `dbms/bin` directory and copy 3 files from `<SASHOME>` to this location. Rename each file to remove `'.orig'` from the name.

```
cd dbms/bin
```

```
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/bin/mehddl.sh.orig .
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/bin/sorddl.sh.orig .
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/bin/tdrddl.sh.orig .
```

```
mv mehddl.sh.orig mehddl.sh
mv sorddl.sh.orig sorddl.sh
mv tdrddl.sh.orig tdrddl.sh
```

6. Update `mehddl.sh` file to replace tokens with the correct values for your environment.

Token	Replacement Value
@vjr.install.dir@	<SASHOME>/SASVersionedJarRepository
@ose.srv.picklist@	<SASHOME>/SASFraudManagementDecisionEngine/4.4/picklist
@os.localhost.machine.type@	lax
@meh.raptor.db.home.dir@	Database home directory:

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	DB2 example: /opt/ibm/db2/v10.5 Oracle example: /opt/oracle/app/ora12c/product/12.1.0/client_1
@meh.raptor.db.type@	db2 oracle
@javaruntime.install.dir@	<SASHOME>/SASPrivateJavaRuntimeEnvironment/9.4/jre

7. Update `sorddl.sh` to replace tokens with the correct values for your environment.

Token	Replacement Value
@vjr.install.dir@	<SASHOME>/SASVersionedJarRepository
@ose.srv.picklist@	<SASHOME>/SASFraudManagementDecisionEngine/4.4/picklist
@os.localhost.machine.type@	lax
@sor.raptor.db.home.dir@	Database home directory: DB2 example: /opt/ibm/db2/v10.5) Oracle example: /opt/oracle/app/ora12c/product/12.1.0/client_1
@sor.raptor.db.type@	db2 oracle
@javaruntime.install.dir@	<SASHOME>/SASPrivateJavaRuntimeEnvironment/9.4/jre

8. Update `tdrddl.sh` to replace tokens with the correct values for your environment.

Token	Replacement Value
@vjr.install.dir@	<SASHOME>/SASVersionedJarRepository
@ose.srv.picklist@	<SASHOME>/SASFraudManagementDecisionEngine/4.4/picklist
@os.localhost.machine.type@	lax
@tdr.raptor.db.home.dir@	Database home directory: DB2 example: /opt/ibm/db2/v10.5) Oracle example: /opt/oracle/app/ora12c/product/12.1.0/client_1
@tdr.raptor.db.type@	db2 oracle
@javaruntime.install.dir@	<SASHOME>/SASPrivateJavaRuntimeEnvironment/9.4/jre

9. Set permissions on the `bin` directory and its contents.

```
cd ..
chmod -R 755 bin
```

10. Change to the `dbms/etc` directory.

```
cd etc
```

11. Copy the database tablespace files to `dbms/etc` directory.

a. If your database is DB2:

```
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/etc/sasfm.db2.*.xml .
```

b. If your database is Oracle:

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```
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/etc/sasfm.oracle.*.xml .
```

12. Copy other files to `dbms/etc`. Rename the files to remove ``.orig'`.

```
cp <SASHOME>/SASFoundation/9.4/misc/fsmcm/dbms/etc/*.orig .
```

```
mv initialLoad.xml.orig initialLoad.xml
mv meh.properties.orig meh.properties
mv sor.properties.orig sor.properties
mv tdr.properties.orig tdr.properties
mv sasfm.meh.users.xml.orig sasfm.meh.users.xml
mv sasfm.sor.users.xml.orig sasfm.sor.users.xml
mv sasfm.tdr.users.xml.orig sasfm.tdr.users.xml
```

13. Update `meh.properties` file for your environment.

a. Update tokens.

Token	Replacement Value
@meh.raptor.db.schema.name@	Database schema name
@meh.raptor.driver@	DB2: com.ibm.db2.jcc.DB2Driver Oracle: oracle.jdbc.driver.OracleDriver
@meh.raptor.connectionURL@	DB2 Example: jdbc:db2://server.domain:50094/MEHDB Oracle Example: jdbc:oracle:thin:@//server.domain:1522/MEHSID

b. Update contexts value.

If your MEH database is not partitioned, the contexts value should be set as follows:
`contexts=base`

If your MEH database is partitioned, the contexts value should be set as follows:
`contexts=range`

c. Enter the user that has MEH database access. For DB2, this should be a user with DBA authorizations. For Oracle, this should be a user with authorizations to the DBA views and authorizations to create objects.

```
username=
```

d. If password value is set to prompt, then the script will prompt you for the password.

```
password=prompt
```

14. Update `sor.properties` file for your environment.

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- a. Update tokens.

Token	Replacement Value
@sor.raptor.db.schema.name@	Database schema name
@sor.raptor.driver@	DB2: com.ibm.db2.jcc.DB2Driver Oracle: oracle.jdbc.driver.OracleDriver
@sor.raptor.connectionURL@	DB2 Example: jdbc:db2://server.domain:50094/SORDB Oracle Example: jdbc:oracle:thin:@//server.domain:1522/SORSID

- b. Update contexts value.

If your SOR database is not partitioned, the “contexts” value should be set as follows:

contexts=base

If your SOR database is partitioned, the “contexts” value should be set as follows:

contexts=range

- c. Enter the user that has SOR database access. For DB2, this should be a user with DBA authorizations. For Oracle, this should be a user with authorizations to the DBA views and authorizations to create objects.

username=

If password value is set to prompt, then the script will prompt you for the password.

password=prompt

15. Update tdr.properties file for your environment.

- a. Update tokens.

Token	Replacement Value
@sor.raptor.rh.db.schema.name@	Database schema name
@tdr.raptor.driver@	DB2: com.ibm.db2.jcc.DB2Driver Oracle: oracle.jdbc.driver.OracleDriver
@tdr.raptor.connectionURL@	DB2 Example: jdbc:db2://server.domain:50094/TDRDB Oracle Example: jdbc:oracle:thin:@//server.domain:1522/TDRSID

- b. Update contexts value.

If your TDR database is not partitioned, the “contexts” value should be set as follows:

contexts=base

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If your TDR database is partitioned, the “contexts” value should be set as follows:

`contexts=range`

- c. Enter the user that has TDR database access: For DB2, this should be a user with DBA authorizations. For Oracle, this should be a user with authorizations to the DBA views and authorizations to create objects.

`username=`

If password value is set to prompt, then the script will prompt you for the password.

`password=prompt`

16. Update tokens in the `sasfm.meh.users.xml` file with the correct database user credentials in your environment.

Token	User ID Description
@sas.meh.batch.user@	MEH database credentials for batch jobs. DB role=SAS_MEH_BATCH
@sas.meh.ode.user@	Scoring engine user credentials. DB role=SAS_MEH_ODE
@sas.meh.batchadmin.user@	MEH database credentials for special jobs. DB role= SAS_MEH_BATCHADMIN

17. Update tokens in the `sasfm.sor.users.xml` file with the correct database user credentials in your environment.

Token	User ID Description
@sas.sor.app.user@	Web application SOR database credentials. DB role=SAS_SOR_APP
@sas.sor.batch.user@	Database credentials for SOR database batch jobs. DB role=SAS_SOR_BATCH
@sas.sor.ode.user@	Scoring engine SOR database credentials. DB role=SAS_SOR_ODE
@sas.sor.omr.user@	SAS Metadata Repository implementation user administrator credentials. DB role=SAS_SOR_OMR
@sas.sor.batchadmin.user@	Database credentials for SOR database special batch jobs. DB role=SAS_SOR_BATCHADMIN
@sas.sor.tas.user@	Transaction analysis engine SOR database credentials DB role=SAS_SOR_TAS

18. Update tokens in the `sasfm.tdr.users.xml` file with the correct database user credentials in your environment.

Token	User ID Description
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@sas.tdr.app.user@	Web application for TDR credentials. DB role=SAS_TDR_APP
@sas.tdr.batch.user@	Database credentials for TDR batch jobs. DB role=SAS_TDR_BATCH
@sas.tdr.ode.user@	Scoring engine for TDR database credentials. DB role=SAS_TDR_ODE
@sas.tdr.batchadmin.user@	Database credentials for TDR special batch jobs. DB role=SAS_TDR_BATCHADMIN
@sas.tdr.tas.user@	Transaction analysis engine: sampling process database credentials. DB role=SAS_TDR_TAS

19. Update `sasfm.<oracle|db2>.meh.tablespace.xml` with correct tablespace names for your environment.

a. For DB2:

Property Name	Default Value
compression	YES
tbs.data.core.8k	TS CORE 8K
tbs.idx.core	IX CORE 8K
tbs.idx.z.data	IX ZDAT 8K
tbs.idx.v.data	IX VDAT 8K
tbs.data.l.table	TS CORE 8K
tbs.idx.l.table	IX CORE 8K
tbs.data.z.data	TS ZDAT 32K
tbs.data.v.data	TS VDAT 32K

b. For Oracle:

Property Name	Default Value
tbs.data	MEH DATA
tbs.index	MEH INDEX

20. Update `sasfm.<oracle|db2>.sor.tablespace.xml` with correct tablespace names for your environment.

a. For DB2:

Property Name	Default Value
compression	YES
rulesFiredGranularity	WEEK
summaryTableGranularity	MONTH

The `sasfm.db2.sor.tablespace.xml` file contains default values for the tablespace names based on a default partition configuration. Review the comments in the file for information on updating the file.

b. For Oracle:

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Property Name	Default Value
rulesFiredInterval	INTERVAL (NUMTODSINTERVAL (7, 'DAY'))
workTimeSummaryInterval	INTERVAL (NUMTOYMINTERVAL (1, 'MONTH'))
strategySessionInterval	INTERVAL (NUMTOYMINTERVAL (1, 'MONTH'))
tbs.data	SOR_DATA
tbs.index	SOR_INDEX

21. Update `sasfm.<oracle|db2>.tdr.tablespaces.xml` with correct tablespace names for your environment.

a. For DB2:

Property Name	Default Value
compression	YES
granularity	WEEK

The `sasfm.db2.tdr.tablespaces.xml` file contains default values for the tablespace names based on a default partition configuration. Review the comments in the file for information on updating the file.

b. For Oracle:

Property Name	Default Value
Interval	INTERVAL (NUMTODSINTERVAL (7, 'DAY'))
tbs.data	TDR_DATA
tbs.index	TDR_INDEX