Oracle Financial Services

Behavior Detection

Installation Guide

Release 8.1.2.3

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OFS Behavior Detection Installation Guide

Document Control

Table 1 lists the document control.

Table 1: Revision History

Revision Number	Revision Date	Change Log
8.1.2.3.0	December 2022	Captured the Installation and Configuration steps for 8.1.2.3.0 Release.

Table of Contents

1   About This Guide

The Oracle Financial Services Behavior Detection (OFS Behavior Detection) 8.1.2.3.0 Installation Guide provides instructions to install the OFS Behavior Detection 8.1.2.3.0 Maintenance Level (ML) release.

The OFS Behavior Detection 8.1.2.3.0 ML release includes all the bug fixes and minor enhancements done since the GA (General Availability) release, 8.1.2.0.0. This ML also contains forward port of all bugs/enhancements and bug fixes from lower OFS Behavior Detection versions (806, 807, 808, and 811).

For information on the 8.1.2.0.0 installation, see Oracle Financial Services Behavior Detection Release 8.1.2.0.0 Installation Guide.

1.1   How This Guide is Organized

This guide includes the following chapters:

- Pre-Installation Steps & How to Apply This Maintenance Level Release? details the pre-installation requirements and the steps to install this ML release.
- Post-Installation Steps details the post Installation procedure.
- Performance Tuning of Scenarios to enable performance tuning of Scenarios using custom hints.
- JAVA Upgrade describes the procedure to upgrade from JAVA8 to JAVA11.
- APPENDIX A: Files Packed in This Patch describes the Files Packed in this Patch.
- APPENDIX B: OFS BD Version Compatibility List provides compatible versions of OFSAAI, FSDF, and OFS ECM for OFS BD.

1.2   Acronyms

Table 2 lists the Acronyms used in this guide.

Table 2: Acronyms

Acronyms	Descriptions
ML	Maintenance Level Release
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
EAR/WAR	Enterprise Archive / Web Archive
MOS	My Oracle Support.

1.3   Conventions

Table 3 lists the conventions used in this document

Table 3: Convention Used in this Guide

Conventions	Meaning
Italics	- Names of books as references - Emphasis - Substitute input values
Bold	- Menu names, field names, options, button names - Commands typed at a prompt - User input
`Monospace`	- Directories and subdirectories - File names and extensions - Process names - Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text
Hyperlink	Hyperlink type indicates links to the external websites and internal document links to sections
Asterisk (*)	Mandatory fields in User Interface
<Variable>	Substitute input value

2 Pre-Installation Steps & How to Apply This Maintenance Level Release?

This chapter describes the pre-installation requirements and how to apply the maintenance release Oracle Financial Services Behavior Detection Application Pack v8.1.2.0.0 Minor Release #3 8.1.2.3.0.

Topics:

- Pre-Installation Requirements
- How to Apply This Maintenance Level Release?

2.1 Pre-Installation Requirements

This section describes the pre-installation requirements. Refer to the following pre-installation prerequisites:

NOTE	- Before running the patch, perform a backup of the $FIC_HOME and ftpshare directories and the Atomic and Config schemas. - Take a backup of CSA area and truncate all the staging tables before the BD8123 ML application. - Refer to APPENDIX B: OFS BD Version Compatibility List for details on OFS BD Version compatibility with OFSAAI, FSDF, and OFS ECM.

1. Download the OFS Behavior Detection 8.1.2.3.0 archive file from My Oracle Support by searching for Patch ID 34637484 under the Patches & Updates tab. Also, ensure that the mandatory patches mentioned in the Pre-installation Requirements section of the Oracle Financial Services Behavior Detection Release 8.1.2.3.0 Readme are applied before installation.

2. Install OFSBD 8.1.2.0.0 before applying 8.1.2.3.0.

NOTE	Ignore this step if OFS BD 8.1.2.1.0 or OFS BD 8.1.2.2.0 is already installed.

3. Apply patch for Bug 34572960. This is the OFSAAI 8.1.2.0.0 RELEASE #2 (8.1.2.2.0).

2.1.1 PatchConfig.xml

Table 4 lists he Placeholder Values in the PatchConfig.xml File.

Table 4: Placeholder Values in the PatchConfig.xml File

OFS BD Version	OFSAAI Version
##SCHEMA_OUT_XML_PATH##	This attribute refers to the path, which needs to be pointed to OFS_BD_ SCHEMA_OUTPUT.xml, which was generated at the time of installation. For example: /scratch/ofsaaapp/Installer/ OFS_BD_PACK/schema_creator/OFS_BD_SCHEMA_OUTPUT.xml.
##BIG_DATA_ENABLE##	Placeholder to enable Big Data. Enter FALSE.
##SCORING_PROTOCOL_SERVER_P ORT##	This is the URL of the RAOR application till the port number. For example, <PROTOCOL://HOSTNAME:WEB_SERVER_PORT>

2.2 How to Apply This Maintenance Level Release?

This section describes how apply this maintenance release.

To install this Maintenance Level release, follow these steps:

> **NOTE** If the OFS Behavior Detection 8.1.2.3.0 patch is to be installed on OFS Sanctions 8.1.2.0, then follow these steps:
>
> - `Create table KDD_BUS_DMN_SANC` as (select * from `KDD_BUS_DMN`);
> - `UPDATE KDD_BUS_DMN SET TF_BUS_DMN_NM=NULL`; Commit;

1. During OFS Behavior Detection 8.1.2.3.0 patch installation, only the FICServer (<FIC_HOME>/ ficapp/common/FICServer/bin/startofsaai.sh) must be up and running. Stop all other OFSAAI application services (MANTAS, ICC, BD algorithms dispatcher, etc.).

2. Load the .profile and make sure that $FIC_HOME corresponds to the proper environment where the patch application is required.

3. Download and copy 34637484_LINUX.zip/34637484_SOLARIS_SPARC.zip (in Binary mode) to the server where OFSAA is installed.

4. Navigate to <USER_PATCH_DIR> and extract the contents of the patch archive file using the command: `unzip -a <name of the file to be unzipped>`.

   For example: `unzip –a 34637484_LINUX.zip/34637484_SOLARIS_SPARC.zip`

   The following are the contents of the folder when the folder is unzipped:

   - PatchConfig.xml
   - install.sh
   - Setup.bin
   - validateXMLInputs.jar

- Readme_OFSBD_8.1.2.3.0.txt
- BD_FSDM_DataModel.xml
- KYC_DataModel.xml
- FSDF_DataModel.xml
- BD_EXTN.xml

> **NOTE** <USER_PATCH_DIR> is the directory containing the <patch>.zip file. The above "-a" option is mandatory to unzip the patch. In case of error message "unzip: not found [No such file or directory]" is observed when the package is not installed, contact your UNIX administrator to resolve this issue.

5. Navigate to <USER_PATCH_DIR>/34637484/bin and grant execute (755) permission for all executables: `$ chmod 755 *`.

6. Navigate to <USER_PATCH_DIR>/34637484/conf/PatchConfig.xml and provide the following placeholder values:

   a. ##SCHEMA_OUT_XML_PATH## - This attribute refers to the path which needs to be pointed to OFS_BD_SCHEMA_OUTPUT.xml, which was generated at the time of installation.

   b. ##BIG_DATA_ENABLE## - set the value to FALSE.

   c. ##SCORING_PROTOCOL_SERVER_PORT## - provide the server host & port. For example : hostIP:PortNumber.

7. Before Patch installation, execute the statement in Atomic Schema: *DROP INDEX DRVD_ADDR_NVL_IDX*.

> **NOTE** Execute the following query, only if columns: (F_INCLUDE_IN_AUTO_RULE,F_INCLUDE_DECISION) are present in DIM_FR_ACTION table:
>
> ```
> ALTER TABLE DIM_FR_ACTION
> DROP (
> F_INCLUDE_IN_AUTO_RULE,
> F_INCLUDE_DECISION
> );
> ```

8. Execute the following sql script in config schema before applying this patch:

   ```
   update Cssms_Group_Mast t set t.n_precedence=(SELECT MAX(N_PRECEDENCE)+1
   FROM CSSMS_GROUP_MAST) where t.n_precedence=20 and t.v_group_code not in
   ('ALERTOWNFLUG');
   ```

   ```
   commit;
   ```

9. Install the patch by executing the command: `$ ./install.sh`.

10. Check if the patch is applied successfully by verifying the patch install logs under <USER_PATCH_DIR>/34637484/logs.

> **NOTE** Contact My Oracle Support in case of any errors.

11. Replace the parameter @ORION_DB_DBTOOLS_PATH@ with $FIC_HOME/database/db_tools in the file: *$FIC_HOME/database/db_tools/log4j2.xml.*

> **NOTE**   When replacing the param $FIC_HOME, provide the complete FICHOME path in the app server.

12. Delete all files inside the *$FIC_HOME/bdf/classes* and *$FIC_HOME/bdf/src* directories.

> **NOTE**   As a precautionary measure, take a backup of files mentioned above.

13. Perform the following configuration to improve performance of Refresh Temp Utility for Scenarios. These new parameters in the kdd_install_param table are used in the refreshtemptable job to add HINT in the SQL code. Add the following entries in the kdd_install_param table.

   ▪ PARAM_ID: Unique number in the range of 100000 to 199999.

   ▪ PARAM_NM : Name of the View for which the hint must be added.

   ▪ PARAM_VALUE_TX : NULL

   ▪ PARAM_VALUE_TYPE_TX : NULL

   ▪ PARAM_CAT_CD : RefershTempTable (Hardcoded value)

   ▪ ATTR_1_CD: Batch_name (Hardcoded value)

   ▪ ATTR_1_VALUE_TX: <batch_name>

      For example: DLY

   ▪ ATTR_2_CD: Select_Hint (Hardcoded value)

   ▪ ATTR_2_VALUE_TX: <hint> that would be used in the query format /*+ <hint> */

      For example: /*+ PARALLEL(8) */

   ▪ ATTR_3_CD: Insert_Hint (Hardcoded value)

   ▪ ATTR_3_VALUE_TX: <hint> hint to be used in the insert statement format /*+ <hint> */

      For example: /*+ APPEND */

   Sample Insert Statement:

```
insert into KDD_INSTALL_PARAM (PARAM_ID, PARAM_NM,PARAM_CAT_CD,

ATTR_1_CD, ATTR_1_VALUE_TX, ATTR_2_CD,

ATTR_2_VALUE_TX,ATTR_3_CD,ATTR_3_VALUE_TX)

values

(100001, 'TMP_NETACENCU_NT_ACCTADDR_VW', 'RefershTempTable',
'Batch_name',

'DLY', 'Select_Hint','/*+ PARALLEL(8) */','Insert_Hint','/*+ APPEND
*/');

commit;
```

14. Perform this step only if Oracle Financial Services Compliance Studio is installed. Navigate to $FIC_HOME/ficapp/common/FICServer/bin and execute the following executable after replacing the INFODOM placeholder.

```
./RTIImport.sh $FIC_HOME/IPE/KYC/
OFS_KYC_RTIExport_AcceleratedRereview_WithAomalyDetectionML.xml
##AMINFODOM## OFS_KYC false
```

15. Check the DB builder logs for successful execution of mantas8.1.2.3.0_delta.cfg and delta_plat8.1.2.3.0.cfg. If these did not run, then execute them manually. To do so navigate to $FIC_HOME/database/mantas_schema/delta/oracle/8.0 and execute the following command:

```
$FIC_HOME/database/db_tools/bin/run_dbbuilder_utility.sh $FIC_HOME/
database/mantas_schema/delta/oracle/8.0/mantas8.1.2.3.0_delta.cfg
```

This will prompt for Atomic user name and password. Provide the same. Then, navigate to $FIC_HOME/database/bus_mkt_schema/delta/oracle/8.0 and execute the following command:

```
$FIC_HOME/database/db_tools/bin/run_dbbuilder_utility.sh $FIC_HOME/
database/bus_mkt_schema/delta/oracle/8.0/delta_plat8.1.2.3.0.cfg
```

Provide the Atomic user name and password when prompted.

16. Once the patch is applied successfully, navigate to FIC_HOME and execute the file *BD_Duplicate_Jar_Removal_8123ML.sh*.

17. Once the above steps are done, create the following EAR/WAR file and redeploy this new WAR on the web application server. Refer to the Oracle Financial Services Behavior Detection Applications Pack Installation Guide Release 8.1.2.0.0 for steps related to deployment.

   ■ JSONToTablePersistenceUtility

   ■ TabletoJSONService

   ■ InitiateOnboardingService

   ■ GenerateCaseInputService

   ■ OFSAAI

   ■ Navigate to FIC_HOME/raor_processing and run ./ant.sh. Deploy the RAOR war in Web server.

   ■ For OFS Real Time fraud (RTF), redeploy RTFRAUD.ear (war) and RTFCARD.ear (war).

   > **NOTE**
   > - For using Websphere Server, remove all the jackson* Jars from the following folder before creating OFSAAI EAR/WAR file:
   >   *$FIC_HOME/ficweb/webroot/externalib/WEB-INF/lib*.
   > - RTF CARD is not supported on Tomcat in OFS BD 8123 ML.

18. Restart OFSAAI services.

3   Post-Installation Steps

This chapter describes the post-installation steps.

Topics:

- Post-Installation Steps
- Configuring JIT
- Configuring Scenario Wizard and Scenario Manager

3.1   Post-Installation Steps

Refer to the following post-installation steps:

1. To execute the DQ scripts in different FSDF infodom, follow these steps:

    > **NOTE**   Step 1 is not mandatory. Execute Step 1 only when DQ is to be installed in OFSBD with FSDF.

    a. Navigate to *FIC_HOME/database/db_tools/bin* and execute the file *Replace_FSDF_Placeholder.sh* with FSDF infodom and FSDF segments as arguments. For example : *./Replace_FSDF_Placeholder.sh FSDFINFODOM FSDFSEGENT*.

    b. Copy *$FIC_HOME/database/DQScripts* to a local folder.

    c. Log in to FSDF schema and run the following command in SQL developer:

    — define dir="DQFIles_PATH"

        DQFIles_PATH - The directory path where you have copied the DQ files in step b above.

        For example : **define dir="C:\DQScripts"**

    — Execute Execution_Order_DQ.sql

        For example : **@&dir\Execution_Order_DQ.sql**

2. Load scenarios in the Database from the */FIC_HOME/Database/db_tools/bin with sm_load.sh* utility.

    > **NOTE**   Contact My Oracle Support in case of any errors.

    The following scenarios are provided in the patch:

    - In case of Upgrade from OFS BD 8.1.2.0.0 to OFS BD 8.1.2.3.0, load the following scenarios
    — ML-CIBPreviousAverageActivity.116000083.xml
    — ML-EarlyPOCreditProducts.115400011.xml
    — ML-EarlyPOCreditProducts.115400010.xml
    — ML-CIBPreviousAverageActivity.118860023.xml (New scenario)
    — ML-CIBPreviousPeakActivity.118860024.xml (New scenario)

- — ML-HRTransHRGeography.118860022.xml (New scenario)
- — ML-DepWDSameAmts.118860020.xml
- — ML-RoutingMultiLocations.118860012.xml
- — ML-AnomATMBCForeignTrans.116000054.xml
- — ML-HRTransHRGeography.115000049.xml
- — ML-RapidMvmtFundsAllActivity.116000080.xml
- — ML-StructuringAvoidReportThreshold.116000063.xml
- — ML-CashTransPossibleCTR.116000073.xml
- — ML-LargeReportableTrans.115400007.xml
- — ML-StructuringDepWDMixedMIs.118860016.xml
- — ML-HubAndSpoke.118860014.xml
- — ML-HubAndSpoke.118860005.xml
- — ML-FTNCuEnExternal.114000078.xml
- — ML-FTNRecurringOrBe.114000082.xml
- — ML-AnticipateProfileIncome.116000090.xml
- — ML-LgDeprecAcctValue.115200003.xml
- — ML-RapidMvmtFundsAllActivity.116000079.xml
- — ML-TerroristFinancing.114000122.xml
- — ML-TerroristFinancing.114000123.xml
- — ML-AnomATMBCForeignTrans.116000055.xml
- — ML-HRTransFocalHRE.114000060.xml
- — ML-DPGTotalActivity.114697019.xml
- — ML-AnticipateProfileSOF.116000059.xml
- — ML-EnWithMultId-fEN.115000004.xml
- — ML-RoundAmounts.114590030.xml
- — ML-HRTransFocalHRE.114000073.xml
- — ML-StoredValueCards.114000125.xml
- — ML-StoredValueCards.114000126.xml
- — ML-RoutingMultiLocations.118860012.xml (Before loading and executing the scenario, add it to the scnro.cfg file)
- In case of Upgrade from OFS BD 8.1.2.1.0 to OFS BD 8.1.2.3.0, load the following scenarios
  - — ML-AnomATMBCForeignTrans.116000054.xml
  - — ML-HRTransHRGeography.115000049.xml
  - — ML-RapidMvmtFundsAllActivity.116000080.xml
  - — ML-StructuringAvoidReportThreshold.116000063.xml
  - — ML-CashTransPossibleCTR.116000073.xml

- — ML-LargeReportableTrans.115400007.xml
- — ML-StructuringDepWDMixedMIs.118860016.xml
- — ML-HubAndSpoke.118860014.xml
- — ML-HubAndSpoke.118860005.xml
- — ML-FTNCuEnExternal.114000078.xml
- — ML-FTNRecurringOrBe.114000082.xml
- — ML-AnticipateProfileIncome.116000090.xml
- — ML-LgDeprecAcctValue.115200003.xml
- — ML-RapidMvmtFundsAllActivity.116000079.xml
- — ML-TerroristFinancing.114000122.xml
- — ML-TerroristFinancing.114000123.xml
- — ML-AnomATMBCForeignTrans.116000055.xml
- — ML-HRTransFocalHRE.114000060.xml
- — ML-DPGTotalActivity.114697019.xml
- — ML-AnticipateProfileSOF.116000059.xml
- — ML-EnWithMultId-fEN.115000004.xml
- — ML-RoundAmounts.114590030.xml
- — ML-HRTransFocalHRE.114000073.xml
- — ML-StoredValueCards.114000125.xml
- — ML-StoredValueCards.114000126.xml
- — ML-RoutingMultiLocations.118860012.xml (Before loading and executing the scenario, add it to the scnro.cfg file)
- In case of Upgrade from OFS BD 8.1.2.2.0 to OFS BD 8.1.2.3.0, load the following scenarios
  - — ML-LgDeprecAcctValue.115200003.xml
  - — ML-RapidMvmtFundsAllActivity.116000079.xml
  - — ML-TerroristFinancing.114000122.xml
  - — ML-TerroristFinancing.114000123.xml
  - — ML-AnomATMBCForeignTrans.116000055.xml
  - — ML-HRTransFocalHRE.114000060.xml
  - — ML-DPGTotalActivity.114697019.xml
  - — ML-AnticipateProfileSOF.116000059.xml
  - — ML-EnWithMultId-fEN.115000004.xml
  - — ML-RoundAmounts.114590030.xml
  - — ML-HRTransFocalHRE.114000073.xml
  - — ML-StoredValueCards.114000125.xml
  - — ML-StoredValueCards.114000126.xml

      — ML-RoutingMultiLocations.118860012.xml (Before loading and executing the scenario, add it to the scnro.cfg file)

3. For OFS KYC execute the following post installation scripts:

   a. If KYC and ECM are in the in the same DB, execute the following scripts:

      i.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_LOOKUP_ECM for
&&case_schema_owner..FCC_PARTY_PARTY_RLSHP_LOOKUP;
```

      ii.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_ECM for
&&case_schema_owner..FCC_PARTY_PARTY_RLSHP;
```

      iii.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_EVNT_ECM for
&&case_schema_owner..FCC_PARTY_PARTY_RLSHP_EVNT;
```

      iv.
```
create or replace synonym CM_BD_PARTY_PARTY_RLSHP_SKEY_ECM for
&&case_schema_owner..CM_BD_PARTY_PARTY_RLSHP_SKEY;
```

      v.
```
create or replace synonym kdd_case_party_party_rlshp_ECM for
&&case_schema_owner..kdd_case_party_party_rlshp;
```

      vi.
```
create or replace synonym FCC_CASE_PRIORITY_ECM for
&&case_schema_owner..FCC_CASE_PRIORITY;
```

   b. If KYC and ECM are in different DB, execute the following scripts:

      i.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_LOOKUP_ECM for
FCC_PARTY_PARTY_RLSHP_LOOKUP@AMDBLINK;
```

      ii.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_ECM for
FCC_PARTY_PARTY_RLSHP@AMDBLINK;
```

      iii.
```
create or replace synonym FCC_PARTY_PARTY_RLSHP_EVNT_ECM for
FCC_PARTY_PARTY_RLSHP_EVNT@AMDBLINK;
```

      iv.
```
create or replace synonym CM_BD_PARTY_PARTY_RLSHP_SKEY_ECM for
CM_BD_PARTY_PARTY_RLSHP_SKEY@AMDBLINK;
```

      v.
```
create or replace synonym kdd_case_party_party_rlshp_ECM for
kdd_case_party_party_rlshp@AMDBLINK;
```

      vi.
```
create or replace synonym FCC_CASE_PRIORITY_ECM for
FCC_CASE_PRIORITY@AMDBLINK;
```

4. Replace *##atomicSChemaUserName##* variable with the atomic schema user name and execute the following script in config schema

   ■
```
GRANT SELECT ON AAI_WF_APPLICATION_API_B TO ##atomicSChemaUserName##
```

   ■
```
Replace ##configSChemaUserName## variable with the config schema user
name and execute the following script in atomic schema
```

   ■
```
CREATE OR REPLACE EDITIONABLE SYNONYM AAI_WF_APPLICATION_API_B FOR
##configSChemaUserName##.AAI_WF_APPLICATION_API_B
```

5. KYC Onboarding:If EDQ is used for customer screening, refer to the OFS KYC Administration Guide 8.1.2.3.0 for details on switch to EDQ.

6. WLM Post Installation: The table KDD_PRCSNG_BATCH_JRSDCN_MAP has only two columns PRCSNG_BATCH_NM and JRSDCN_CD. It contains mapping between PRCSNG_BATCH_NM and JRSDCN_CD. It is specifically for use by WLM UI. Insert relevant data into the same.

For example:

```
INSERT INTO KDD_PRCSNG_BATCH_JRSDCN_MAP (PRCSNG_BATCH_NM, JRSDCN_CD)

VALUES ('FR', 'EMEA');

INSERT INTO KDD_PRCSNG_BATCH_JRSDCN_MAP (PRCSNG_BATCH_NM, JRSDCN_CD)

VALUES ('SG', 'APAC');

COMMIT;
```

7. Execute the the following scripts to populate TAX ID column for existing records in the FCT_RA and FCT_CUST_RA_HISTRY tables.

> **NOTE**   If the FCT_RA and FCT_CUST_RA_HISTRY tables are empty, do not execute these scripts.

```
UPDATE FCT_RA  SET V_TAX_ID = (

SELECT TAX_ID FROM CUST_SNAPHSOT WHERE CUST_SNAPHSOT.BATCH_RUN_ID =
FCT_RA.V_BATCH_RUN_ID

AND CUST_SNAPHSOT.CUST_INTRL_ID = FCT_RA.V_CUST_NUMBER) WHERE
FCT_RA.V_TAX_ID IS NULL;


UPDATE FCT_CUST_RA_HISTRY  SET V_TAX_ID = (

SELECT TAX_ID FROM CUST_SNAPHSOT WHERE CUST_SNAPHSOT.BATCH_RUN_ID =
FCT_CUST_RA_HISTRY.V_BATCH_RUN_ID

AND CUST_SNAPHSOT.CUST_INTRL_ID = FCT_CUST_RA_HISTRY.V_CUST_NUMBER)
WHERE FCT_CUST_RA_HISTRY.V_TAX_ID IS NULL;

COMMIT;
```

3.2   Configuring JIT

Refer to the following Post Installation steps for configuring JIT:

> **NOTE**   The Purpose of JIT is to manage users from LDAP/SSO. JIT is a one-way sync from LDAP/SSO source to the application. Hence all application users need to be synced through JIT.

1. Login as SYSADMN and update the System Configuration Details. For more information, see Update General Detail for JIT Configuration and Authentication in OFSAAI 8.1.2.0 User Guide.

2. If a new user is added to a group or existing user is removed from a group, in the next login, remapping of the security attributes will be done only if JIT_IS_SYNC_GRP_ENABLED is set to 'Y'. Execute the following statement to enable JIT sync.

   UPDATE CONFIGURATION set paramvalue = 'Y' where paramname ='JIT_IS_SYNC_GRP_ENABLED';

   COMMIT;

3. In the Authentication Server (For example: SAML, LDAP etc.), Application UserGroups and Users mappings must be created.

4. In the Atomic Schema a new table FCC_GROUP_SEC_ATTR_MAP is introduced to configure the Security attributes mapping to the Application User Groups. Login to Atomic Schema and configure security attributes to the User groups.

   a. V_GROUP_CD column need to be populated with the User groups mapped to User.

   b. For OFSBD , valid values for V_SEC_ATTR_CD column are JRSDCN,ORG,BUSDMN,CORR_ID,SCNRO_GRP_ID.

   c. For OFSBD , valid values for V_SEC_ATTR_VAL column are Jurisdiction, Organization, Business domain, Correlation and Scenario Group. These are available in KDD_JRSDCN, KDD_ORG , KDD_BUS_DMN, KDD_CORR_RULE and KDD_SCNRO tables respectively.

5. For Configuring Security Mapping for the Pool Users, FCC_GROUP_SEC_ATTR_MAP table in Atomic Schema has been used:

   a. V_GROUP_CD column has to be populated with the LORG group created

   b. For OFS BD , valid values for V_SEC_ATTR_CD column are JRSDCN,ORG,BUSDMN,CORR_ID,SCNRO_GRP_ID.

   c. For OFS BD , valid values for V_SEC_ATTR_VAL column are Jurisdiction, Organization, Business domain, Correlation and Scenario Group. These are available in KDD_JRSDCN, KDD_ORG , KDD_BUS_DMN, KDD_CORR_RULE and KDD_SCNRO tables respectively.

6. Additional User Attributes:

   a. Alert Own Flag : Create ALERTOWNFLUG group in Authentication Server and map to the User. If Alert Own Flag for a User needs to be Y, then map this group to the User. If Alert Own Flag for a User needs to be N , then make sure it is not mapped to the User.

   b. Reporting/Line Organization : Create a User group with Prefix as ORG_CD (form KDD_ORG table) and suffix as LORG.

      For example: If TestOrgA is the Line organization then create a User group as TESTORGALORG.

NOTE	The above Usergroup is to be created and mapped to Infodom/ Segment and LINEORG Role in the OFSAA Application. It also needs to be created in Authentication Server (For example, SAML , LDAP etc.) and mapped to the User. Make sure for any User only One LORG group is mapped. If the LORG Group is mapped as part of any other Application, then there is no need to map again.

7. Login with the New User in the Application and observe that the Security attributes mapping is done.

8. If User group mapping doesn't have any change and there are only Security attribute mapping changes to be done, then login with Admin user and Navigate to Batch Maintenance and create a Batch. For OFSBD ,add the BD task FN_FCC_JIT_SYNCH to it.

9. To disable a user/users who is disabled on Authentication Server, login with Admin user and Navigate to Batch Maintenance and create a Batch.

   a. For OFSBD ,add the BD task FN_FCC_DISABLE_USR to it.

   b. Edit the Task, Mention the User or User IDs comma separated in the Parameter section. It needs to be enclosed in Single Quotes. For example: 'AMSUP,KYCADMN' where AMSUP,KYCADMN are users that need to be disabled in the KDD_REVIEW_OWNER table.

3.3 Configuring Scenario Wizard and Scenario Manager

For details on configuring the Scenario Wizard and Scenario Manager, refer to the Oracle Financial Services Behavior Detection Installation Guide Release 8.1.2.0.0.

4   Performance Tuning of Scenarios

Customers can enable performance tuning of Scenarios using custom hints in the Customer's environment depending on Customer data volume. Currently this feature is offered for the following seven scenarios:

- 114000122-(ML/AC) Terrorist Financing
- 114000123-(ML/EN) Terrorist Financing
- 115200003-(ML/AC) Large Depreciation of Account Value
- 115400007-(ML/EN) Large Reportable Transactions
- 114000078-(ML/CU) Patterns of Funds Transfers Between Customers and External Entities
- 114000082-(ML/EN) Patterns of Recurring Originators/Beneficiaries in Funds Transfers
- 116000079-(ML/CU) Rapid Movement of Funds - All Activity

To configure this feature, follow these steps:

1. Run the scenario job with TRACE ON.

2. Read the log of job and identify SQL that took more time and needs to be tuned. It could be Primary Rule's SQL or SQL from any Sub-Rule.

3. This SQL will be having QB_NAME keywords with names in used subqueries.

   For example: Take scenario ML-RapidMvmtFundsAllActivity.116000079.xml for analyzing. Assume this Primary Rule's dataset takes time to execute

   <COLUMN NAME="DATASET_ID" TYPE="NUMBER" PK="YES" NULL="NO">114012498</COLUMN>

   <COLUMN NAME="DATASET_NM" TYPE="CHAR" PK="NO" NULL="NO">ML_RapidMvmtFundsAll_CU_Pri_Remm1</COLUMN>

   And Sub Rules dataset takes time to execute

   <COLUMN NAME="DATASET_ID" TYPE="NUMBER" PK="YES" NULL="NO">114012544</COLUMN>

   <COLUMN NAME="DATASET_NM" TYPE="CHAR" PK="NO" NULL="NO">ML_RapidMvmtFundsAll_CU_Wi1m1</COLUMN>

   In SQL below subqueries are named by QB_NAME

   For example:

   a. Primary Rule SQL blocks are as the following:

      wires as (

      select /*+ QB_NAME(WIRE) */

      w.FO_TRXN_SEQ_ID,

      w.BENEF_ACCT_ID,

      w.SCND_BENEF_ACCT_ID,

      w.ORIG_ACCT_ID ...

      from

      @MINER@.WIRE_TRXN w

```
…
----

mitrxn as (
select    /*+ QB_NAME(MI)  */
m.FO_TRXN_SEQ_ID,
m.BENEF_ACCT_ID,
m.SCND_BENEF_ACCT_ID,
m.REM_ACCT_ID …
from
@MINER@.MI_TRXN m
…
---

Cust_Accounts as
(SELECT /*+ QB_NAME(ACCT)  */
c.CUST_SEQ_ID,
ac.PRMRY_CUST_INTRL_ID as CUST_INTRL_ID,
ac.ACCT_INTRL_ID,
c.CUST_EFCTV_RISK_NB,
ac.ACCT_OPEN_DT
FROM
@MINER@.ACCT ac,
@MINER@.CUST c
…
---
```

b. Sub Rule SQL blocks are as the following:

```
SELECT /*+ QB_NAME(WIRE_ORG)  */
c.CUST_INTRL_ID as CUST_INTRL_ID,
w.FO_TRXN_SEQ_ID
FROM
@MINER@.WIRE_TRXN w,
@MINER@.ACCT ac,
@MINER@.CUST c
…
---
```

SELECT /*+ QB_NAME(WIRE_BEN) */

c.CUST_INTRL_ID as CUST_INTRL_ID,

w.FO_TRXN_SEQ_ID

FROM

@MINER@.WIRE_TRXN w,

@MINER@.ACCT ac,

@MINER@.CUST_ACCT ca,

@MINER@.CUST c,

@MINER@.CUST_ACCT_ROLE car

…

These names allow to set the hints for used tables by parameter in KDD_INSTALL_PARAM. For example:

- Based on analysis of Explain plan of the tuned SQL, some hints can significantly improve the performance.

- Say it was concluded after due analysis that hint PARALLEL for ACCT table and FULL hint for WIRE_TRXN must be used in both Primary and Sub-Rule SQL.

- Insert parameter which will add needed hints to code of the dataset.

- The names of subqueries where hints need to be added are /*+ QB_NAME(ACCT) */ and /*+ QB_NAME(WIRE) */ for   primary and /*+ QB_NAME(WIRE_ORG) */ and /*+ QB_NAME(WIRE_BEN) */ for Sub-Rule.

Add the following parameter to KDD_INSTALL_PARAM.

For example: Sample insert query to insert values in KDD_INSTALL_PARAM

Insert into `KDD_INSTALL_PARAM (PARAM_ID, PARAM_NM,ATTR_1_CD, ATTR_1_VALUE_TX,ATTR_2_CD, ATTR_2_VALUE_TX)` values

```
(449, 'DLY', 'rule_matcher.primaryrule.hint.116000079', '/*+
PARALLEL(@ACCT, ac) FULL(@WIRE, w) */
','rule_matcher.subrule.hint.116000079','/*+ PARALLEL(@WIRE_ORG, ac)
FULL(@WIRE_BEN, w) */);
```

```
commit;
```

> **NOTE**   The above used hints are for illustrative purpose only.

4. When these jobs are run again, these hints will be added to scenario SQL. This can be checked in scenario log.

> **NOTE**   Continue this tuning process till the desired result is achieved.

5   JAVA Upgrade

NOTE	1. From BD 8.1.1.1.0 onwards, JAVA11 is supported with the below mentioned web servers:
	■ Weblogic 14.1.x.x
	■ Apache Tomcat 9.0.xx
	2. Existing web servers have to be re-configured/re-installed with JAVA11.

Topics:

- Configuring Existing JAVA8 Environments
- Configuring New JAVA11 Environments

5.1   Configuring Existing JAVA8 Environments

To upgrade from JAVA8 to JAVA11, follow these steps:

5. Install the JAVA11 in the server.

6. Use the following command to list the files and note the file names.

   `grep -r -l '/scratch/jdk1.8.0_161'` (Change the JAVA path accordingly).

NOTE	The above command must be executed in the $FICHOME.

7. Modify the listed files from JAVA8 to JAVA11.

8. Use the following command to change from JAVA8 to JAVA11.
   `grep -r -l 'OLDPATH/jdk1.8.0_161' . | sed "s|^|\"|g" | sed "s|$|\"|g" | xargs sed -i "s|OLDPATH/jdk1.8.0_161|NEWPATH/jdk-11.0.11|g"` (Change the JAVA paths accordingly).

9. Update the JAVA8 path with JAVA11 in the *.profile*.

10. Re-create and re-deploy the OFSAA EAR/WAR file and Restart the OFSAA App Server and Web Server.

5.2   Configuring New JAVA11 Environments

To create new environment with JAVA11, follow these steps:

1. Configure and complete the installation of BD 8.1.2.0.0 with JAVA11.

NOTE	Do not bring up the environment until BD 8.1.2.3.0 is applied and configured.

2. Follow the steps described in Pre-Installation Steps & How to Apply This Maintenance Level Release? for applying BD 8.1.2.3.0.

6   APPENDIX A: Files Packed in This Patch

This chapter describes the files modified and files impacting database due to this Patch.

Topics:

- Files Modified Due to This Patch
- Files Impacting Database
- Files Impacted by This Patch

6.1   Files Modified Due to This Patch

This section lists the files modified due to this Patch.

The following files are modified due to this Patch:

- CTR.jar
- ojctrSolution.js
- aai-ctr.js
- aai-ctr.html
- ML-AnomATMBCForeignTrans.116000054.xml
- ML-AnticipateProfileIncome.116000090.xml
- ML-HRTransHRGeography.115000049.xml
- ML-RapidMvmtFundsAllActivity.116000080.xml
- ML-StructuringAvoidReportThreshold.116000063.xml
- ML-CashTransPossibleCTR.116000073.xml
- ML-LargeReportableTrans.115400007.xml
- ML-StructuringAvoidReportThreshold.116000062.xml
- ML-StructuringDepWDMixedMIs.118860016.xml
- ML-HubAndSpoke.118860014.xml
- ML-HubAndSpoke.118860005.xml
- ML-FTNCuEnExternal.114000078.xml
- ML-FTNRecurringOrBe.114000082.xml
- ML-LgDeprecAcctValue.115200003.xml
- ML-RapidMvmtFundsAllActivity.116000079.xml
- ML-TerroristFinancing.114000122.xml
- ML-TerroristFinancing.114000123.xml
- ML-AnomATMBCForeignTrans.116000055.xml
- ML-HRTransFocalHRE.114000060.xml
- ML-CIBPreviousAverageActivity.116000083.xml
- ML-CIBPreviousAverageActivity.118860023.xml
- ML-CIBPreviousPeakActivity.118860024.xml

- ML-DepWDSameAmts.118860020.xml
- ML-EarlyPOCreditProducts.115400010.xml
- ML-EarlyPOCreditProducts.115400011.xml
- ML-HRTransHRGeography.118860022.xml
- ML-RoutingMultiLocations.118860012.xml
- ML-DPGTotalActivity.114697019.xml
- ML-AnticipateProfileSOF.116000059.xml
- ML-EnWithMultId-fEN.115000004.xml
- ML-StoredValueCards.114000125.xml
- ML-StoredValueCards.114000126.xml

NOTE	Take a backup of the files mentioned above as a precautionary measure; any customizations performed to these files must be re-applied.

6.2 Files Impacting Database

This section lists the files impacting the database.

The following files impact the database:

- FCC_UI_MODULE_CONF.sql
- PR_8.1.2.1.0_34012573.miner.sql
- FCC_UI_MODULE_CONF_8121ML.sql
- BD_FSDM.xml
- P_FCC_JIT_SEC_MAP.sql
- P_JIT_SYNCH_ADHOC_BATCH.sql
- P_JIT_USER_DISABLE.sql
- FN_JIT_SYNCH_ADHOC_BATCH.sql
- FN_JIT_USER_DISABLE.sql
- PLC_FN_JIT_SYNCH_ADHOC_BATCH.sql
- PLC_FN_JIT_USER_DISABLE.sql
- 34332109_MESSAGES_EN_US.sql
- 34332109_FCC_UI_MODULE_CONF
- PKG_KYC_ACTIONS.sql
- PKG_KYC_ACTIONS_BODY.sql
- PKG_PTC_MANUAL_OKYC_BODY.sql
- PKG_PTC_MANUAL_OKYC.sql
- LOAD_FCT_CUST_REVIEW_REASONS.sql
- FN_POPULATE_PRCSNG_KYC.sql

- F_RA_TO_CASE_MNUL.sql
- CUST_IP_SNAPHSOT.sql
- 34637484_APPLN_INSTALL_PARAMS.sql
- CTR_OJET_MENU.sql
- OJF_CTR_CreateCTR.sql
- OJF_CTR_CreateTrxnG.sql
- OJF_CTR_Action.sql
- OJF_CTR_AttchmntG.sql
- OJF_CTR_AttchmntP.sql
- OJF_CTR_Attchmnt_Add.sql
- OJF_CTR_AuditG.sql
- OJF_CTR_AuditP.sql
- OJF_CTR_CommentG.sql
- OJF_CTR_CommentP.sql
- OJF_CTR_Comment_Add.sql
- OJF_CTR_CrtDOEPEfileG.sql
- OJF_CTR_CrtDOEPEfileP.sql
- OJF_CTR_CrtEfileG.sql
- OJF_CTR_CrtEfileP.sql
- OJF_CTR_DEFL_Context.sql
- OJF_CTR_DEFL_Details.sql
- OJF_CTR_Det_Action.sql
- OJF_CTR_DOEPAuditG.sql
- OJF_CTR_DOEPAuditP.sql
- OJF_CTR_DOEPEFile_CTR.sql
- OJF_CTR_DOEPEFile_ErrG1.sql
- OJF_CTR_DOEPEFile_ErrG2.sql
- OJF_CTR_DOEPEFile_ErrP.sql
- OJF_CTR_DOEPEFL_ListG.sql
- OJF_CTR_DOEPEFL_ListP.sql
- OJF_CTR_EFile_CTR.sql
- OJF_CTR_EFile_ErrG1.sql
- OJF_CTR_EFile_ErrG2.sql
- OJF_CTR_EFile_ErrP.sql
- OJF_CTR_EFL_Context.sql
- OJF_CTR_EFL_Details.sql

- OJF_CTR_EFL_ListG.sql
- OJF_CTR_EFL_ListP.sql
- OJF_CTR_EvidenceP.sql
- OJF_CTR_GenDOEPEfile.sql
- OJF_CTR_GenEfile.sql
- OJF_CTR_Inc_CtrsG.sql
- OJF_CTR_Inc_ExmG.sql
- OJF_CTR_ListG.sql
- OJF_CTR_ListP.sql
- OJF_CTR_ReportContext.sql
- OJF_CTR_ReportDetails.sql
- OJF_CTR_Show_AtchmntG.sql
- OJF_CTR_Show_AtchmntP.sql
- OJF_CTR_View_AtchmntG.sql
- OJF_CTR_View_AtchmntP.sql
- OJF_MIT_AddRep.sql
- OJF_MIT_AuditG.sql
- OJF_MIT_DeleteComments.sql
- OJF_MIT_EditRep.sql
- OJF_MIT_ListG.sql
- OJF_MIT_ListP.sql
- OJF_CTR_DOEPEvidenceP.sql
- OJF_CTR_DOEPAttchmntP.sql
- OJF_CTR_DOEPCommentG.sql
- OJF_CTR_DOEPAttchmntG.sql
- OJF_CTR_AccountG.sql
- OJF_CTR_AccountP.sql
- OJF_CTR_CashInG.sql
- OJF_CTR_CashInP.sql
- OJF_CTR_CashOutG.sql
- OJF_CTR_CashOutP.sql
- OJF_CTR_CTRAuditP.sql
- OJF_CTR_DOEPCommentP.sql
- OJF_CTR_EXE_ListG.sql
- OJF_CTR_EXE_ListP.sql
- OJF_CTR_FinCen_AknlP.sql

- OJF_CTR_FinCen_Aknl_PrmG.sql
- OJF_CTR_FinCen_Aknl_SecG.sql
- OJF_CTR_Init_VaditP.sql
- OJF_CTR_Init_Vadit_ErrG.sql
- OJF_CTR_Init_Vadit_WrnG.sql
- OJF_CTR_PerAddressG.sql
- OJF_CTR_PerAddressP.sql
- OJF_CTR_PerAddToCTRG.sql
- OJF_CTR_PerAddToCTRP.sql
- OJF_CTR_PersonsG.sql
- OJF_CTR_PersonsP.sql
- OJF_CTR_Persons_Dtls.sql
- OJF_CTR_Person_TranG.sql
- OJF_CTR_Person_TranP.sql
- OJF_CTR_Per_AcctInG.sql
- OJF_CTR_Per_AcctOutG.sql
- OJF_CTR_Per_AcctP.sql
- OJF_CTR_Per_Addr_Add.sql
- OJF_CTR_Per_Addr_Edit.sql
- OJF_CTR_Per_Inv_edit.sql
- OJF_CTR_Per_Inv_ListB.sql
- OJF_CTR_Per_Inv_ListE.sql
- OJF_CTR_PI_Edit.sql
- OJF_CTR_PrntFI_G.sql
- OJF_CTR_PrntFI_P.sql
- OJF_CTR_RepFinG.sql
- OJF_CTR_RepFinP.sql
- OJF_CTR_TransactionG.sql
- OJF_CTR_TransactionP.sql
- OJF_CTR_Trans_Summary.sql
- OJF_CTR_Trxn_AddG.sql
- OJF_CTR_Trxn_AddP.sql
- OJF_CTR_Trxn_Edit.sql
- OJF_CTR_Xsd_VaditG.sql
- OJF_CTR_Xsd_VaditP.sql
- OJF_CTR_EXE_Create

- OJF_CTR_EXE_Tin_Cust
- OJF_CTR_CustTIN_DET.sql
- OJF_CTR_Cust_DET_P.sql
- OJF_CTR_EXE_AccD.sql
- OJF_CTR_EXE_AccG.sql
- OJF_CTR_EXE_AccP.sql
- OJF_CTR_EXE_Acctin.sql
- OJF_CTR_EXE_Acctin_EX.sql
- OJF_CTR_EXE_Act.sql
- OJF_CTR_EXE_Action.sql
- OJF_CTR_EXE_Context.sql
- OJF_CTR_EXE_CustG.sql
- OJF_CTR_EXE_CustP.sql
- OJF_CTR_EXE_Cust_AcG.sql
- OJF_CTR_EXE_Cust_AcP.sql
- OJF_CTR_EXE_Cust_Adr_Add.sql
- OJF_CTR_EXE_Cust_Edit.sql
- OJF_CTR_EXE_Cust_Ph_Add.sql
- OJF_CTR_EXE_Cu_Adr_Edit.sql
- OJF_CTR_EXE_Cu_Eml_Add.sql
- OJF_CTR_EXE_Cu_Eml_Edit.sql
- OJF_CTR_EXE_Cu_Ph_Edit.sql
- OJF_CTR_EXE_Details.sql
- OJF_CTR_EXE_Info_AddG.sql
- OJF_CTR_EXE_Info_EmlG.sql
- OJF_CTR_EXE_Info_PhnG.sql
- OJF_CTR_EXE_Rel_CTRG.sql
- OJF_CTR_EXE_Rel_CTRP.sql
- OJF_CTR_EXE_TIN_CustG.sql
- OJF_CTR_EXE_TransG.sql
- OJF_CTR_EXE_TransP.sql
- OJF_CTR_EXM_Acc_Dtl.sql
- OJF_CTR_EXM_CONT_INFOP.sql
- OJF_CTR_EXM_Cust_Dtl.sql
- OJF_CTR_PrntFl_Edit.sql
- OJF_CTR_RepFinDetails.sql

- OJF_CTR_RepFinEdit.sql
- OJF_CTR_RepFin_DTL.sql
- OJF_CTR_RepFin_Edit.sql
- OJF_CTR_EXE_CustCmtG.sql
- OJF_CTR_EXE_CustCmtAdd.sql
- OJF_CTR_EXE_CustAtcmntG.sql
- OJF_CTR_EXE_CustAtcmntAdd.sql
- OJF_CTR_EXE_CreateP.sql
- OJF_CTR_EXE_CreateCustG.sql
- OJF_CTR_EXE_AcctCustG.sql
- OJF_CTR_EXE_CustAccG.sql
- OJF_CTR_EXE_CreateAccG.sql
- OJF_CTR_EXE_AccCmtG.sql
- OJF_CTR_EXE_AccCmtAdd.sql
- OJF_CTR_EXE_AccAtcmntG.sql
- OJF_CTR_EXE_AccAtcmntAdd.sql
- OJF_CTR_PlCmtAdd.sql
- OJF_CTR_PlCmtG.sql
- OJF_CTR_PlAtcmntG.sql
- OJF_CTR_PlAtcmntAdd.sql
- OJF_CTR_Eml_Act.sql
- OJF_CTR_EFL_RejActn.sql
- OJF_CTR_EFL_Action.sql
- OJF_CTR_EFL_AckRcvd.sql
- OJF_CTR_DOEPEvidenceP.sql
- OJF_CTR_DOEPEFL_RejActn.sql
- OJF_CTR_DOEPEFL_Action.sql
- OJF_CTR_DOEPEFL_AckRcvd.sql
- OJF_CTR_DOEPCommentG.sql
- OJF_CTR_DOEPComment_Add.sql
- OJF_CTR_DOEPAttchmntG.sql
- OJF_CTR_DOEPAtchmt_Add.sql
- OJF_CTR_EFL_Actn.sql
- OJF_CTR_DOEPEFL_Actn.sql
- OJF_CTR_EFL_Actns.sql
- OJF_CTR_DOEPEFL_Actns.sql

- CTR_AAI_OJFF_MASKING_VIEW_MAPPING.sql
- CTR_AAI_OJFF_MASKING_RULE_DETAILS.sql
- CTR_AAI_OJFF_MASKING_ATTR_VAL_MAP.sql
- CTR_AAI_OJFF_FUNCTION_MASKING_MAP.sql
- CTR_AAI_OJFF_COMP_FUNC_CODE_MAP.sql
- CTR_AAI_AOM_APP_COMP_ATTR_MAPPING_IR.sql
- CTR_AAI_AOM_COMPONENT_INFO.sql
- CTR_AAI_AOM_APP_INFO.sql
- PKG_WORKFLOW.sql
- PKG_WORKFLOW_BODY.sql
- PKG_MITCTR.sql
- PKG_MITCTR_BODY.sql
- **Menu-related Files**
- OJFF_CONV_AAI_MENU_B.sql
- OJFF_CONV_AAI_FF_FORMS_B.sql
- OJFF_CONV_AAI_FF_FORMS_TL.sql
- OJFF_CONV_AAI_FF_FORMS_CONTAINERS_B.sql
- OJFF_CONV_AAI_FF_FORMS_CONTAINERS_TL.sql
- OJFF_CONV_AAI_FF_FORM_CONTROLS_B.sql
- OJFF_CONV_AAI_FF_FORM_CONTROLS_TL.sql
- OJFF_CONV_AAI_FF_CONTROL_PROPERTIES.sql
- OJFF_CONV_AAI_FF_CONTROL_PARAMS.sql
- Horizontal_Menu_Remove_List.sql
- 34637484_CSSMS_GROUP_MAST.sql
- 34637484_CSSMS_GROUP_ROLE_MAP .sql
- 34637484_CSSMS_ROLE_FUNCTION_MAP .sql
- 34637484_CSSMS_ROLE_MAST.sql
- 34637484_CSSMS_USR_GROUP_DSN_SEG_MAP .sql
- CSSMS_GROUP_MAST_PACK.sql
- CSSMS_GROUP_ROLE_MAP_PACK.sql
- CSSMS_ROLE_FUNCTION_MAP_PACK.sql
- CSSMS_ROLE_MAST_PACK.sql
- 34633835_ACCT_SNAPHSOT.sql
- 34633835_CUST_CUST_SNAPHSOT.sql
- 34633835_CUST_ID_DOC_SNAPHSOT.sql
- 34633835_CUST_IP_SNAPSHOT.sql

- 34633835_CUST_SNAPSHOT.sql

- 34633835_FCT_TP_WLS_RESULTS_SNAPHSOT.sql

- 34633835_PARTY_ID_DOC_SNAPHSOT.sql

- 34633835_PARTY_PARTY_RLSHP_SNAPHSOT.sql

- F_RA_TO_CASE_MNUL.sql

- F_CUST_RA_HISTORY_MNUL.sql

- 34637484_ALTER_CUST_SNAPSHOT.sql

- FCT_CUST_RA_HISTRY_INDX.sql

- /Atomic_Schema/Functions/FN_POPULATE_PRCSNG_KYC.sql

- /Config_Schema/DT/FN_POPULATE_PRCSNG_KYC.sql

- AAI_DMT_DEFINITION_34637484

- 34637484_AAI_DMT_MAPPING_DETAILS.sql

- 34637484_AAI_DMT_DEF_SOURCE_ENTITY.sql

> **NOTE** Take a backup of the Atomic and Config schemas as a precautionary measure; any customizations performed to the schema must be re-applied.

6.3   Files Impacted by This Patch

The following is the list of files which impact ficweb due to this patch:

- HTML

- JS Files

- JSP Files

- CSS Files

- Images

- Fonts

- Datamodel

- JAR Files

- Database Script Files

- SH Files

- XML Files

- Datamap Files

- Queries (Ingestion)

- Build-related Files

- Infodom Files

- Build-related Files

- BD Algorithm-related Files

- {FCCM_HOME}/behavior_detection/algorithms/MTS/bin

6.3.1　HTML

The following are the HTML files impacted:

- kyc_onboarding/js/views/algorithmBasedView.html
- kyc_onboarding/js/views/ConfigureServiceParameters.html
- kyc_onboarding/js/views/ConfigureTPGServiceParameters.html
- kyc_onboarding/js/views/fccGrid.html
- kyc_onboarding/js/views/fccGridDialog.html
- kyc_onboarding/js/views/fccGridMessagePopup.html
- kyc_onboarding/js/views/kycOnboardingAssessmentSummary.html
- kyc_onboarding/js/views/kycOnboardingAssessmentSummarySearch.html
- kyc_onboarding/js/views/KYCRelationshipType_AssmntMode.html
- kyc_onboarding/js/views/mapEvaluationView.html
- kyc_onboarding/js/views/mapSourceDestination.html
- kyc_onboarding/js/views/riskAssessmentBasedView.html
- kyc_onboarding/js/views/RiskAssessmentCategory.html
- kyc_onboarding/js/views/riskScoreDefinition.html
- kyc_onboarding/js/views/kycCustomerBasicInfo.html
- kyc_onboarding/js/views/kycCustomerEntity.html
- kyc_onboarding/js/views/obInputJSON.html
- kyc/js/views/ECM_KYC_AccReviewRules.html
- kyc/js/views/ECM_KYC_ApplnParams.html
- kyc/js/views/ECM_KYC_ManageInstall.html
- kyc/js/views/ECM_KYC_RuleBased.html
- kyc/js/views/ECM_KYC_RiskValue.html
- kyc/js/views/KYC_Map_Eval.html
- kyc/js/views/ECM_KYC_RiskCategory.html
- kyc/js/views/ECM_KYC_AccountCustRole.html
- kyc/js/views/ECM_KYC_ModelBased.html
- kyc/js/views/ECM_KYC_RAORCategory.html
- kyc/js/views/fccGrid.html
- kyc/js/views/fccGridDialog.html
- kyc/js/views/fccGridMessagePopup.html
- kyc/js/views/gridView.html
- kyc/js/views/CMG_KYC_RA_SearchNList.html

6.3.2 JS Files

The following are the JS files impacted:

- kyc_onboarding/js/viewModels/fccGrid.js
- kyc_onboarding/js/viewModels/fccGridDialog.js
- kyc_onboarding/js/viewModels/fccGridMessagePopup.js
- kyc_onboarding/js/viewModels/riskScoreDefinition.js
- kyc_onboarding/js/viewModels/riskAssessmentBasedView.js
- kyc/js/main.js
- kyc/js/viewModels/ECM_KYC_AccReviewRules.js
- kyc/js/viewModels/ECM_KYC_ApplnParams.js
- kyc/js/viewModels/ECM_KYC_ManageInstall.js
- kyc/js/viewModels/ECM_KYC_RuleBased.js
- kyc/js/viewModels/ECM_KYC_RiskValue.js
- kyc/js/viewModels/KYC_Map_Eval.js
- kyc/js/viewModels/ECM_KYC_RiskCategory.js
- kyc/js/viewModels/ECM_KYC_AccountCustRole.js
- kyc/js/viewModels/ECM_KYC_ModelBased.js
- kyc/js/viewModels/ECM_KYC_RAORCategory.js
- kyc/js/viewModels/fccGrid.js
- kyc/js/viewModels/fccGridDialog.js
- kyc/js/viewModels/fccGridMessagePopup.js
- kyc/js/viewModels/gridView.js
- kyc/js/viewModels/CMG_KYC_RA_SearchNList.js
- kyc/js/appCommon/appSolution.js
- kyc/js/libs/knockout-postbox/knockout-postbox.js
- kyc/js/libs/knockout-postbox/knockout-postbox.min.js

6.3.3 JSP Files

The following are the JSP files impacted:

- kyc_onboarding/ConfigureServiceParameters.jsp
- kyc_onboarding/ConfigureTPGServiceParameters.jsp
- kyc_onboarding/KYCAlgorithmBasedView.jsp
- kyc_onboarding/KYCRelationshipType_AssmntMode.jsp
- kyc_onboarding/KYCRiskBasedView.jsp
- kyc_onboarding/KYCRiskScoreDefinition.jsp

- kyc_onboarding/KYCMapEvaluation.jsp
- kyc_onboarding/KYCMapSourceDestination.jsp
- kyc_onboarding/RiskAssessmentCategory.jsp
- kyc_onboarding/KYC_OnBoarding.jsp
- kyc_onboarding/KYCOBMessageConstants.jsp
- kyc/ECM_KYC_AccReviewRules.jsp
- kyc/ECM_KYC_ApplnParams.jsp
- kyc/ECM_KYC_ManageInstall.jsp
- kyc/ECM_KYC_RuleBased.jsp
- kyc/KYCMessageConstants.jsp
- kyc/KYCMessageConstantsUI.jsp
- kyc/ECM_KYC_RiskValue.jsp
- kyc/KYC_Map_Eval.jsp
- kyc/ECM_KYC_RiskCategory.jsp
- kyc/ECM_KYC_ModelBased.jsp
- kyc/ECM_KYC_RiskCategory.jsp
- kyc/ECM_KYC_AccountCustRole.jsp
- kyc/ECM_KYC_RAORCategory.jsp
- kyc/CMG_KYC_RA_SearchNList.jsp
- adminToolsRenderer.jsp
- alert_assigner_incl_addexception.jsp

6.3.4   CSS Files

The following are the CSS files impacted:
- kyc_onboarding/css/newwave.css
- kyc_onboarding/css/newwave_global.css
- kyc_onboarding/css/newwave_kyc.css
- kyc_onboarding/css/fonts/ojuxiconFont_Rg.woff
- kyc_onboarding/css/fonts/ojuxiconFont_Rg.ttf
- kyc_onboarding/css/fonts/ojuxiconFont_Rg.svg
- kyc_onboarding/css/fonts/ojuxiconFont_Rg.eot
- kyc_onboarding/css/images/progress_bar_alta_onpremise.gif
- kyc/css/kycob-min.css
- kyc/css/newwave.css
- kyc/css/newwave_global.css
- kyc/css/newwave_kyc.css

- kyc/css/override.css
- kyc/css/iconclass.css
- ojff/OFS_KYC.css
- ojff/OFS_KYC_newwave.css

6.3.5   Images

The following are the image files impacted:

- avatar_24px.png
- avatar_24px_2x.png
- bank-icon-color.png
- favicon.ico
- helpIconBlack.png
- minus.png
- multicombo.png
- oracle_logo.svg
- plus.png
- progress_bar_alta.gif
- standing-user-icon-color.png

6.3.6   Fonts

The following are the fonts impacted:

- AAI_iconfont.woff
- AaiFont.ttf
- AaiFont.woff
- App_iconfont.woff
- FontAwesome.otf
- fontawesome-webfont.eot
- fontawesome-webfont.ttf
- fontawesome-webfont.woff
- fontawesome-webfont.woff2
- iconclass.css
- IM2.svg
- IM2.ttf
- IM2.woff
- JetFW_iconfont.eot
- JetFW_iconfont.ttf

- JetFW_iconfont.woff
- override.css
- override.css.map

6.3.7 Datamodel

The following are the datamodel files impacted:

- BD_FSDM.xml
- KYC_DataModel.xml
- BD_EXTN.xml

6.3.8 JAR Files

The following are the Jar files impacted:

- tp_dataload.jar
- kyc.jar
- spring-web-5.3.19.jar
- spring-aspects-5.3.19.jar
- spring-context-5.3.19.jar
- spring-expression-5.3.19.jar
- spring-tx-5.3.19.jar
- spring-core-5.3.19.jar
- spring-jdbc-5.3.19.jar
- spring-beans-5.3.19.jar
- spring-aop-5.3.19.jar
- xerces.jar
- kycOnboarding.jar
- common.jar
- datamap.jar
- actionframework.jar
- admintools.jar
- kddcore.jar

6.3.9 Database Script Files

The following are the Database Script files impacted:

- delta_plat8.1.2.1.0.cfg
- CR_8.1.2.1.0_33981210.mantas.sql
- mantas8.1.2.1.0_delta.cfg

- CR_8.1.2.1.0_34047483.business.sql
- CR_8.1.2.2.0_bitmap_index.sql
- CR_8.1.2.3.0_34745349.business.sql
- KYC/33981210_MESSAGES_EN_US.sql
- KYC/34107704_CUST_SNAPSHOT.sql
- KYC/34107704_FCC_TPG_CUST.sql

6.3.10   SH Files

The following are the SH files impacted:

- tp_configurator.sh
- tp_dataload.sh
- $FIC_HOME/BD_Duplicate_Jar_Removal_8121ML.sh
- $FIC_HOME/BD_Duplicate_Jar_Removal_8122ML.sh
- $FIC_HOME/BD_Duplicate_Jar_Removal_8123ML.sh

6.3.11   XML Files

The following are the XML files impacted:

- tpconfig.xml
- OFS_KYC_RTIExport_AcceleratedRereview_WithAomalyDetectionML.xml

6.3.12   Datamap Files

The following are the Datamap files impacted:

- Customer.xml
- AccountAddress.xml
- AccountEmailAddress.xml
- FrontOfficeTransaction.xml
- FrontOfficeTransactionParty.xml
- WireTransaction_FrontOfficeTransaction.xml
- SettlementInstruction.xml
- DerivedAddress_FrontOfficeTransactioPartyStageUpd.xml
- DerivedAddress_FrontOfficeTransactioPartyStageInsert.xml
- AccountToCustomer.xml
- PartytoPartyRelationship.xml
- ExternalEntityProfile.xml
- AccountToCustomerChangeLogSummary.xml
- CustomerAddress.xml

- DerivedAddress_ExternalOrganizationStageInsert.xml
- DerivedAddress_ExternalOrganizationStageUpd.xml
- DerivedEntity_ExtrlOrgInsert.xml
- DerivedEntity_ExtrlOrgUpd.xml
- ExternalParty.xml
- ExternalPartyAddress.xml
- ExternalPartyAddress_DerivedAddress.xml
- ExternalPartyStage.xml
- ExternalParty_DerivedAddress.xml
- ExternalParty_ExternalEntitySeqUpd.xml
- LinkStaging_ExtrlOrg.xml

6.3.13   Queries (Ingestion)

The following are the list of Ingestion Queries impacted :

- Customer.STG_PARTY_MASTER.sql
- Account.STG_ANNUITY_CONTRACTS.sql
- Account.STG_CARDS.sql
- Account.STG_CASA.sql
- Account.STG_CORRESPONDENT_ACCOUNT.sql
- Account.STG_LEASES_CONTRACTS.sql
- Account.STG_LOAN_CONTRACTS.sql
- Account.STG_MERCHANT_CARDS.sql
- Account.STG_MM_CONTRACTS.sql
- Account.STG_OD_ACCOUNTS.sql
- Account.STG_REPO_CONTRACTS.sql
- Account.STG_RETIREMENT_ACCOUNTS.sql
- Account.STG_SWAPS_CONTRACTS.sql
- Account.STG_TD_CONTRACTS.sql
- Account.STG_TRADING_ACCOUNT.sql
- Account.STG_TRUSTS.sql
- Loan.STG_CARDS.sql
- CustomerIdentificationDocument.STG_CUSTOMER_IDENTIFCTN_DOC.sql
- PartytoPartyRelationship.STG_PARTY_PARTY_RELATIONSHIP.sql
- ExternalPartyStage.STG_PARTY_MASTER.sql
- AccountToCustomer.STG_PARTY_ACCOUNT_ROLE_MAP.sql

6.3.14 Build-related Files

The following are the list of Build-related files impacted:

- DB_Install.xml

- INSERT_INFODOM_PATCHES.sql

> **NOTE**   The following files are required for the patch utility to work:
> - merge_wsdd.xsl
> - merge_Persistence.xsl
> - merge_web.xsl
> - merge_Menu.xsl

6.3.15 BD Algorithm-related Files

The following are the list of BD Algorithm-related files impacted:

- {FCCM_HOME}/behavior_detection/algorithms/lib

- {FCCM_HOME}/behavior_detection/algorithms/bin

- {FCCM_HOME}/behavior_detection/algorithms/MTS/bin

> **NOTE**   Take a backup of above algorithms lib and bin folders.

7 APPENDIX B: OFS BD Version Compatibility List

Table 5 lists the OFS BD version compatibility with other products.

Table 5: OFS BD Version Compatibility List

OFS BD Version	OFSAAI Version	FSDF Version	OFS ECM Version
8.1.2.3	8.1.2.2	8.1.2.2	8.1.2.3
8.1.2.2	8.1.2.1	8.1.2.2	8.1.2.2
8.1.2.1	8.1.2.1	8.1.2.1	8.1.2.1
8.1.2	8.1.2	8.1.2.1 (includes all changes in FSDF 81201)	8.1.2
8.1.1.1	8.1.1.2	8.1.2.0.1	8.1.1.1
8.1.1	8.1.1	8.0.8	8.1.1
8081	8.0.8.6	8.0.8	8.0.8.x
8.0.8	8.0.8 to 8.0.8.6	8.0.8	8.0.8
8072	8.0.7.8	8.0.7	8.0.7.x
8071	8.0.7.4 to 8.0.7.8	8.0.7	8.0.7.x
8.0.7	8.0.7 to 8.0.7.8	8.0.7	8.0.7

OFSAA Support Contact Details

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to OFSAA applications.

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