Oracle Financial Services Behavior Detection

API Services Guide

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Oracle Financial Services Behavior Detection API Services Guide

Document Control

Table 1: Revision History

Date	Edition	Description
February 2024	First edition of 8.1.2.7.0	There are no changes to this document in this release.
October 2023	First edition of 8.1.2.6.0	There are no changes to this document in this release.
June 2023	First edition of 8.1.2.5.0	There are no changes to this document in this release.
March 2023	First edition of 8.1.2.4.0	There are no changes to this document in this release.
December 2022	First edition of 8.1.2.3.0	Added section *Trusted Pair Datamaps*.
September 2022	First edition of 8.1.2.2.0	Added notes related to full data load requirements.
June 2022	First edition of 8.1.2.1.0	Created first version of OFS BD 8.1.2.1.0 API Service Guide.

1 Preface

This preface provides supporting information for the Oracle Financial Services Behavior Detection Application Pack (OFS BD) API Services.

Topics:

- Purpose of this Document
- Intended Audience
- Related Documents

1.1 Purpose of this Document

This document contains the API services information for Oracle Financial Services Behavior Detection Application Pack. The objective of this API Services Guide is to provide information about the REST APIs for OFSBD.

This guide assumes that the audience has technical and functional expertise in using and working with REST APIs. This document does not teach REST concepts.

1.2 Intended Audience

This document is intended for users of OFS BD. You must be able to utilize the API service to allow full or filtered Trusted Pair and Alert Suppression data to be loaded to OFS BD based on inputs provided.

1.3 Related Documents

This section identifies additional documents related to OFS BD. You can access from the Documentation Library (OHC).

- Oracle Financial Services Behavior Detection Installation Guide
- Oracle Financial Services Behavior Detection User Guide

To find more information about Oracle Financial Services and our complete product line, visit our Web site www.oracle.com/financialservices.

2 Overview

OFS BD API offers services to allow the OFS BD to consume trusted pair and Alert Suppression information present in AML Case Management System.

Trusted Pair is the concept of reducing the number of false positives events by identifying transactions between parties viewed as having a trusted relationship. The Trusted Pair API will allow full or filtered Trusted Pair data to be loaded to OFS BD based on inputs provided.

Alert Suppression enables the automatic suppression of a particular entity's newly-generated alerts based on criteria such as highlight, scenario, and suppression rule begin and end date. The Alert Suppression API will allow full or filtered Trusted Pair data to be loaded to OFS BD based on inputs provided.

Topics:

- Types of Services
- Prerequisites

2.1 Types of Services

The following service is supported:

- Trusted Pairs - This service allows OFS BD to consume trusted pair information present within AML Case Management System.

- Alert Suppression - This service allows OFS BD to consume Alert Suppression information present within AML Case Management System.

2.2 Prerequisites

The following are the list of prerequisites to use the API service:

1. Behavior Detection 8121 setup should be installed.

2. The user should have knowledge about Behavior Detection Trusted Pair and Alert suppression Functionality. For information about these functionalities, see the Oracle Financial Services Behavior Detection User Guide.

3. Invoke the Trusted Pair API prior to ingestion. Invoke the Alert Suppression API after ingestion and prior to post processing jobs.

4. The user should have the REST Service URL as received from AML Case Management System.

5. The user must have Access Credentials to the REST Web service (Trusted Pair, Alert Suppression) as received from AML Case Management System.

3   Configuring Tables

Topics:

- Trusted Pair
- Alert Suppression

3.1   Trusted Pair

For the Trusted Pair API, status code and direction code are configured using kdd_trusted_pair_map table.

Table 1: Columns in kdd_trusted_pair_map

Column Name	Description
MAP_COLUMN	Column Name of Behavior Detection Trusted Pair Table
LOOKUP_CODE	Field value received from AML Case Management System
LOOKUP_VALUE	Configured field value in Behavior Detection

- Status code and Direction code can be configured by updating LOOKUP_CODE in kdd_trusted_pair_map table
- LOOKUP_CODE can be updated as per the value we get from the AML Case Management System

> **NOTE**   User should not update MAP_COLUMN, LOOKUP_VALUE field.

The default data values in the kdd_trusted_pair_map table are mentioned below

Table 2: Default Values for kdd_trusted_pair_map

MAP_COLUMN	LOOKUP_CODE	LOOKUP_VALUE
TP_DIRN_CD	SEND	SEND
TP_DIRN_CD	RECEIVE	RECEIVE
TP_DIRN_CD	BOTH	BOTH
STATUS_CD	TPAPP	AC
STATUS_CD	TPEXP	IAC

3.2   Alert Suppression

For the Alert Suppression API, status code and direction code are configured using kdd_service_map table.

Table 3: Columns in kdd_service_map

Column Name	Description
SERVICE_NAME	Name of the Rest service provider
MAP_COLUMN	Column Name of Behavior Detection Alert Suppression Table
LOOKUP_CODE	Field value received from AML Case Management System
LOOKUP_VALUE	Configured field value in Behavior Detection

LOOKUP_CODE can be updated as per the value we get from the AML Case Management System.

> **NOTE**   User should not update SERVICE_NAME, MAP_COLUMN, LOOKUP_VALUE field.

The default data values in the kdd_service_map table are mentioned below

Table 4: Default Values for kdd_service_map

MAP_COLUMN	LOOKUP_CODE	LOOKUP_VALUE
LAST_SUPPR_RESULT_STATUS_CD	SUPAPP	AC
LAST_SUPPR_RESULT_STATUS_CD	SUPEXP	IAC

4 Services

The following services are available:

- Trusted Pairs
- Alert Suppression

4.1 Trusted Pairs

This service allows Oracle Financial Services Behavior Detection (OFS BD) to consume trusted pair information present within AML Case Management System. The following topics explain how to configure and use the Trusted Pair information:

- Run Trusted Pair API
- Response Parameters
- Response JSON Sample
- Trusted Pair Datamaps

> **NOTE** Only full data Load of Trusted Pair (KDD_TRUSTED_PAIR) and Trusted Pair Member (KDD_TRUSTED_PAIR_MBR) tables is supported. The full data load always includes a truncate, and then, full load. Each time the trusted Pair Service is executed, the full data load must be provided.

4.1.1 Run Trusted Pair API

Follow these steps to run the trusted pair API service.

1. Follow these steps to configure the Trusted pair API using the Trusted Pair configurator.

   a. Login to APP Server and navigate to $FIC_HOME/database/db_tools/

   b. Open log4j2.xml file with a notepad and update the String from @ORION_DB_DBTOOLS_PATH@ to {FIC Home Path}/database/db_tools

   > **NOTE** {FIC Home Path} should be replaced with the exact FIC Home path (For example: /scratch/ofsaaapp/BDECM812/BDECM812)

   c. Login to APP Server and navigate to $FIC_HOME/database/db_tools/bin (For example, cd $FIC_HOME/database/db_tools/bin)

   d. Execute tp_configurator.sh (Step: ./tp_configurator.sh)

   e. Provide the URL, Username and Password of the Trusted Pair REST Service as received from AML Case Management System. This will update the trusted pair configuration file, tpconfig.xml (Located at $FIC_HOME/database/db_tools/mantas_cfg/ in APP Server)

   f. The Trusted Pair API provides the option to filter by Business domain(s). The tpconfig.xml can be configured by updating the tag <Domain> with Business domain(s). When configured only filtered data as per specified Business Domain(s) will flow into Behavior Detection Trusted pair Tables (kdd_trusted_pair, kdd_trusted_pair_mbr) from AML Case Management System.

     - <Domain>d</Domain> for single domain,

- <Domain>d,a</Domain> for multiple domains

NOTE	Multiple domain(s) should be comma delimited

g. The Trusted Pair API provides the option to filter according to Jurisdiction. The tpconfig.xml can be configured by updating the tag <Jurisdiction> with Jurisdiction(s). When configured only filtered data as per specified Jurisdiction(s) will flow into Behavior Detection Trusted pair Tables (kdd_trusted_pair, kdd_trusted_pair_mbr) from the AML Case Management System.

- <Jurisdiction>AMEA</Jurisdiction> for single Jurisdiction,
- <Jurisdiction>AMEA,IN</Jurisdiction> for multiple Jurisdictions

NOTE	Multiple Jurisdictions should be comma delimited.

2. After configuring the Trusted Pair API, navigate to $FIC_HOME/database/db_tools/bin directory of APP Server and Execute tp_dataload.sh. For example,

a. cd $FIC_HOME/database/db_tools/bin

b. ./tp_dataload.sh

On successful execution, the console will display the message "Job Completed Successfully…" and return code will be 0 in $FIC_HOME/database/db_tools/logs/trustedpair.log file. The Trusted Pair information will flow from AML Case Management System to Behavior Detection data base tables (kdd_trusted_pair, kdd_trusted_pair_mbr).

If any error occurs during execution of tp_dataload.sh, the status code will be -1 in the $FIC_HOME/database/db_tools/logs/trustedpair.log file.

Each trusted pair record received from REST Service, with status codes such as Approved and Expired (Example, TPAPP, TPEXP) will get stored as AC, IAC respectively in the Behavior Detection Trusted pair table.

4.1.2 Response Parameters

The following table describes the details of response parameters.

NOTE	The API response is in a String format.

Table 1: Trusted Pairs Response Parameter Details

Business Name	API Response Data Element	Description	Data Type and Length
Trusted pair Code	tpCode	For ECM created Trusted pairs this is the same as Trusted pair Seq (running seq). This column is added to support Third party Trusted pairs in future.	String (100)
Trusted pair Sequence ID	tpSeqId	Displays Running Sequence	Number (10)
Trusted Pair Created ID	tpCreateId	Displays ID of the user who requested the Trust. It is a number.	Number (10)

Table 1: Trusted Pairs Response Parameter Details

Business Name	API Response Data Element	Description	Data Type and Length
Trusted Pair Created Date	tpCreateDate	Displays Date on which Trust request happened	Date
Expiration Date	tpExprnDate	Displays Expiration date of the Trust record	Date

Status Code	tpStatusCode	Displays out of box statuses present in FCC_TP_STATUS table in ECM. Clients can configure their own statuses. F_ACTIVE_FL denotes the Statuses in which a Trust record is Active. F_SHARED_FL denotes the statuses of Trust Records which will be moved to BD.
		For example:
		• V_STATUS_CD
		  ▪ TPPND
		  ▪ TPAPP
		  ▪ TPREJ
		  ▪ TPEXP
		• V_STATUS_NM
		  ▪ Pending Approval
		  ▪ Approved
		  ▪ Rejected
		  ▪ Expired
		• F_ACTIVE_FL
		  ▪ Y
		  ▪ N
		• F_SHARED_FL
		  ▪ Y
		  ▪ N
			String (20)

Event Code	tpEventCode	Displays the Event Code for which they identified the parties from transactions	Number (22)
Case ID	tpCaseId	Displays the case ID which was used to create the trusted pair	String (15)
Trusted pair Member Sequence ID	tpMbrSeqId	Displays Running Sequence	Number (10)
Party1 Sequence	tpMbrParty1Seq	For External Entity, External Entity Sequence will be passed. Else "" will be passed.	String (30)
Party1 ID	tpMbrParty1Id	Displays External Entity ID/Account ID	String (50)
Party1 ID type	tpMbrParty1TypeCd	Displays Internal Account (one of IA, GL) and External Entity (one of XA, CC, CO, DL, GM, GP, LE, MC, ND, NR, PP, SS, TX, AR, OT, IBAN)	String (20)
Party1 Name	tpMbrParty1Nm	Displays External Entity/Account Name	String (350)

Table 1: Trusted Pairs Response Parameter Details

Business Name	API Response Data Element	Description	Data Type and Length
Party1 Risk	tpMbrParty1RiskNb	Displays External Entity/Account Risk	Number (3)
Party1 Jurisdiction	tpMbrParty1JrsdcnCd	Displays Jurisdiction of External Entity /Account	String (5)
Party1 Business domain	tpMbrParty1BusDmn	Displays Business domain of External Entity / Account	String (65)
Party2 Sequence	tpMbrParty2Seq	For External Entity External Entity Sequence will be passed. Else "" will be passed.	String (30)
Party2 ID	tpMbrParty2Id	Displays External Entity ID/Account ID	String (50)
Party2 ID type	tpMbrParty2TypeCd	Displays Internal Account (one of IA, GL) and External Entity (one of XA,CC,CO,DL,GM,GP,LE,MC,ND,NR,PP,SS,TX,AR, OT,IBAN)	String (20)
Party2 Name	tpMbrParty2Nm	Displays External Entity/Account Name	String (350)
Party2 Risk	tpMbrParty2RiskNb	Displays External Entity /Account Risk	Number (3)
Party2 Jurisdiction	tpMbrParty2JrsdcnCd	Displays Jurisdiction of External Entity /Account	String (5)
Party2 Business domain	tpMbrParty2BusDmn	Displays Business domain of External Entity / Account	String (65)
Direction	tpDirnCd	Out of box displays values SEND, RECEIVE, BOTH	String (7)
Last Modified by	tpReviewerId	Displays Reviewer ID. It is a number.	Number (10)
Last Modified date	tpReviewDate	Displays Review Date	Date
Last Comment	tpReviewComment	Displays Review Reason	String (2500)

4.1.3   Response JSON Sample

This section contains a response JSON sample to get Trusted Pair information. The entries in this sample are only for reference purposes.

```
{
"tpCode": "",
"tpSeqId": "",
"tpCreateId": "",
"tpCreateDate": "",
"tpExprnDate": "",
"tpStatusCode": "",
```

```
"tpEventCode": "",

"tpCaseId": "",

"tpMbrSeqId": "",

"tpMbrParty1Seq": " ",

"tpMbrParty1Id": "",

"tpMbrParty1Nm": "",

"tpMbrParty1TypeCd": "",

"tpMbrParty1RiskNb": "",

"tpMbrParty1JrsdcnCd": "",

"tpMbrParty1BusDmn": "",

"tpMbrParty2Seq": "",

"tpMbrParty2Id": "",

"tpMbrParty2Nm": "",

"tpMbrParty2TypeCd": "",

"tpMbrParty2RiskNb": "",

"tpMbrParty2JrsdcnCd": "",

"tpMbrParty2BusDmn": "",

"tpDirnCd": "",

"tpReviewerId": "",

"tpReviewDate": "",

"tpReviewComment": ""
}
```

4.1.4 Trusted Pair Datamaps

After execution of the Trusted Pair API, run the following Trusted pair Datamaps during ingestion:

- MonetaryInstrumentTransaction_TrustedFlagsUpd
- InsuranceTransaction_TrustedFlagsUpd
- BackOfficeTransaction_TrustedFlagsUpd
- WireTransaction_TrustedFlagsUpd
- TrustedPairMember_AcctExtEntEffecRiskUpd

If the Trusted Pair API is used to populate data to kdd_trusted_pair and kdd_trusted_pair_mbr, then the following Datamaps are not required to be run:

- TrustedPair
- TrustedPairMember
- TrustedPair_StatusEXPUpd
- TrustedPair_StatusRRCInsert

- TrustedPair_StatusRRCUpd
- TrustedPairMember_StatusRRCInsert
- ApprovalActionsAudit_TrustedPair

4.2 Alert Suppression

This service allows Oracle Financial Services Behavior Detection (OFS BD) to consume Alert Suppression information present within AML Case Management. The following topics explain how to configure and use the Alert Suppression information:

- Run Alert Suppression API
- Response Parameters
- Response JSON Sample

NOTE	Only full data Load of Alert Suppression (kdd_auto_suppr_alert) tables is supported. The full data load always includes a truncate, and then, full load. Each time the Alert Suppression Service is executed, the full data load must be provided.

4.2.1 Run Alert Suppression API

Follow these steps to run the Alert Suppression API service.

1. Follow these steps to configure the Alert Suppression API using the Alert Suppression configurator.

    a. Login to APP Server and navigate to $FIC_HOME/database/db_tools/

    b. Open log4j2.xml file with a notepad and update the String from @ORION_DB_DBTOOLS_PATH@ to {FIC Home Path}/database/db_tools

NOTE	{FIC Home Path} should be replaced with the exact FIC Home path (For example: /scratch/ofsaaapp/BDECM812/BDECM812)

    c. Login to APP Server and navigate to $FIC_HOME/database/db_tools/bin (For example, cd $FIC_HOME/database/db_tools/bin).

    d. Execute alsup_configurator.sh (Step: ./alsup_configurator.sh)

    e. Provide the URL, Username, Password, BICTypeLength of the Alert Suppression REST Service as received from AML Case Management System. It will update alert suppression configuration file i.e. serviceconfig.xml (File is located at path $FIC_HOME/database/db_tools/mantas_cfg/ in APP Server).

NOTE	BICTypeLength in serviceconfig.xml should be same as in BDF.xml(File is located at path $FIC_HOME/bdf/config/BDF.xml in APP Server)

- The Behavior Detection Alert Suppression API provides the option to filter according to Business domain(s). User can configure the serviceconfig.xml by updating the tag <Domain> with Business domain(s). When configured only filtered data as per specified Business Domain(s) will flow into Behavior Detection Alert Suppression Tables (kdd_auto_suppr_alert) from AML Case Management System. For example,

- ■ <Domain>d</Domain> for single domain,
- ■ <Domain>d,a</Domain> for multiple domains

> **NOTE**   Multiple domain(s) should be comma delimited

- • The Behavior Detection Alert Suppression API provides the option to filter according to Jurisdiction. User can configure the serviceconfig.xml by updating the tag <Jurisdiction> with Jurisdiction(s). When configured only filtered data as per specified Jurisdiction(s) will flow into Behavior Detection Alert Suppression Tables (kdd_auto_suppr_alert) from the AML Case Management System. For example,
    - ■ <Jurisdiction>AMEA</Jurisdiction> for single Jurisdiction
    - ■ <Jurisdiction>AMEA,IN</Jurisdiction> for multiple Jurisdictions

> **NOTE**   Multiple Jurisdiction should be comma delimited.

2. After configuring Alert Suppression, Navigate to $FIC_HOME/database/db_tools/bin directory of APP Server and Execute alsup_dataload.sh. For example,
   a. cd $FIC_HOME/database/db_tools/bin
   b. ./alsup_dataload.sh

On successful execution, the console will display the message "Job Completed Successfully…" and return code will be 0 in $FIC_HOME/database/db_tools/logs/alertsuppression.log file. The Alert Suppression information will flow from the AML Case Management System to Behavior Detection data base tables (kdd_auto_suppr_alert).

If any error occurs during execution of alsup_dataload.sh, the status code will be -1 in the $FIC_HOME/database/db_tools/logs/alertsuppression.log file.

> **NOTE**   After execution the rejected records will be archived at each execution in a separate log file whose complete details with path will be given in $FIC_HOME/database/db_tools/logs/alertsuppression.log file.

Each alert suppression record received from REST Service with status codes Approved and Expired (SUPAPP and SUPEXP) will get stored as AC, IAC respectively in Behavior Detection Alert suppression table.

4.2.2   Response Parameters

The following table describes the details of response parameters.

> **NOTE**   The API response is in a String format.

Table 2: Alert Suppression Response Parameter Details

Business Name	API Response Data Element	Description	Data Type and Length
Suppression Code	supCode	For ECM created Suppression rules this would be similar to Suppression rule Seq (running seq). But this column has been added in case we have Third party Suppression rules in the future	String (100)
Suppression Sequence ID	supSeqId	Running Sequence	Number (10)
Suppression Created ID	supCreateId	ID of the user who requested the Suppression rule.	Number (10)
Suppression Created Date	supCreateDate	Date on which Suppression rule request happened	Date
Suppression Effective Date	supEffectiveDate	Effective date of the Suppression rule record	Date
Suppression Expiration Date	supExprnDate	Expiration date of the Suppression rule record	Date

Suppression Status Code	supStatusCode	The following OOB statuses are present in the FCC_SUP_STATUS table in ECM. Clients can configure their own statuses. F_ACTIVE_FL denotes the Statuses in which we say a Suppression rule is Active. F_SHARED_FL denotes the statuses of Suppression rule which will be moved to BD.
		For example:
		• V_STATUS_CD
		    ▪ SUPPND
		    ▪ SUPAPP
		    ▪ SUPREJ
		    ▪ SUPEXP
		• V_STATUS_NM
		    ▪ Pending Approval
		    ▪ Approved
		    ▪ Rejected
		    ▪ Expired
		• F_ACTIVE_FL
		    ▪ Y
		    ▪ N
		• F_SHARED_FL
		    ▪ Y
		    ▪ N
			String (20)

Event Code	supEventCode	The Event Code of the event which was selected and the Suppression request was made.	Number (22)

Table 2: Alert Suppression Response Parameter Details

Business Name	API Response Data Element	Description	Data Type and Length
Case ID	supCaseId	The case ID which was used to create the Suppression request	String (15)
Scenario Skey	supScenarioSkey	The Scenario Skey of the Event selected	Number (10)
Scenario Original Skey	upScenarioOrigSkey	The Scenario Original Skey fetched from FCC_SCENARIO_MASTER table using The Scenario Skey of the Event	Number (22)
Entity Type	supEntityType	Focus Type of the Event selected	Varchar2(50)
Centricity Code	supCentricityCd	Centricity ID from kdd_centricity table using the Focus Type of Event	Number (10)
Entity Sequence ID	supEntitySeq	For External Entity/Address focus type, pass External Entity Sequence/Address Sequence respectively else it will be ""	Varchar2(30)
Entity ID	supEntityId)	For Client bank, pass instn_id_type_cd || '/' || institution_cd else it is the Focus Entity ID	Varchar2(50)
Jurisdiction	supJrsdcnCd	Jurisdiction of Event selected	String (5)
Business domain	supBusDmn	Business domain of Event selected	String (65)
Last Modified by	supReviewerId	This can be considered as Reviewer ID. It is a number	Number (10)
Last Modified date	supReviewDate	This can be considered as Review Date	Date
Last Comment	supReviewComment	This can be considered as Review Reason-	String (2500)

4.2.3   Response JSON Sample

This section contains a response JSON sample to get Alert Suppression information. The entries in this sample are only for reference purposes.

```
 {
"supCode": "",
"supSeqId": "",
"supCreateId": "",
"supCreateDate": "",
"supEffectiveDate": "",
"supExprnDate": "",
"supStatusCode": "",
"supEventCode": "",
"supCaseId": "",
```

```
"supScenarioSkey": " ",
"supScenarioOrigSkey": "",
"supEntityType": "",
"supCentricityCd": "",
"supEntitySeq": "",
"supEntityId": "",
"supJrsdcnCd": "",
"supBusDmn": "",
"supReviewerId": "",
"supReviewDate": "",
"supReviewComment": ""
}
```

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