

Oracle Financial Services Enterprise Case Management

API Services Guide

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OFS Enterprise Case Management API Services Guide

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1 Preface

This preface provides supporting information for the Oracle Financial Services Enterprise Case Management Application Pack (OFS ECM) 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 Enterprise Case Management Application Pack. The objective of this API Services Guide is to provide information about the REST APIs for ECM. The REST APIs described in this guide allow users to create events, create a case for an event, and extend the existing case with new event.

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 ECM. You must be able to utilize the API service to populate events generated from in-house application or any other third-party monitoring systems.

1.3 Related Documents

This section identifies additional documents related to OFS ECM. You can access from the Documentation Library ([OHC](#)).

- [Oracle Financial Services Enterprise Case Management Installation Guide](#)
- [Oracle Financial Services Enterprise Case Management User Guide](#)
- [Oracle Financial Services Enterprise Case Management Admin Guide](#)

2 Overview

OFS ECM API is an event and case creation service which helps you to populate the events which are identified in your source systems into the OFS ECM layer. In transaction monitoring systems, events are generated using various scenarios through batches. Then, the generated events are processed further and cases are created. This whole process takes time. There may be some outliers for which a case can be created or extended to an existing case. This service helps users avoid the lengthier process of transaction monitoring systems.

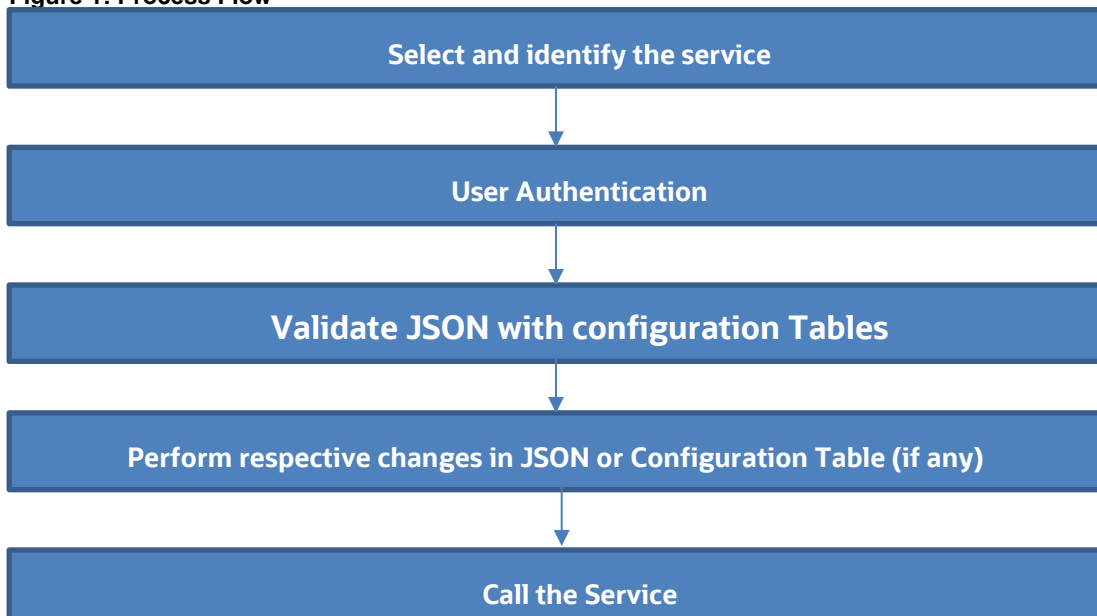
Also, these API services help Analysts to create the ad hoc events if they come across any negative news on a customer or some other external incidents for an interested party for further investigation.

NOTE These services are available from ECM 8.0.6.0.1 release.

2.1 Process Flow

Figure 1 shows the process flow of how to use services.

Figure 1: Process Flow



[Table 1](#) provides additional information and links to specific documentation for each task in the flowchart.

Table 1: Task Details

Task	Details and Documentation
Select and identify the service	Select and identify the service which serves your purpose from the list of services. For more information, see Types of Services.
User Authentication	Identify the ECM user, to use the service. User credentials must be set in the BASIC AUTH HEADER of the service request.
Validate JSON with configuration Tables	Compare the sample JSON with your required configuration. If it matches, then it can be used, otherwise, it must be modified.
Perform respective changes in JSON or Configuration Table (if any)	Identify the necessary columns and add missing information to the configuration table as required. The columns added must be mapped back to the JSON. For more information, see Services.
Calling the Service	The Service is called using any REST Client.

2.2 Types of Services

The following services are supported:

- **Create Event:** This service saves the event generated in the source system to the consolidation layer. The saved event is available for correlation when the next batch is triggered.
- **Create Event and Create New Case:** This service creates a new case for the event generated from the source system. For example, if an event is created for a customer in the Customer Screening application, on triggering this service, a case is created for the event on the ECM layer.
- **Create Event and Extend to Existing Case:** This service links a generated event to an existing case mentioned in the service. For example, an event generated in AML which is related to another event for which a case is already created in ECM. On triggering this service, the new event is added to the existing case.

3 Prerequisites

The following are prerequisites to use the services:

1. ECM setup must be installed.
2. Appropriate User privileges to access the services.
3. Technical and functional knowledge to understand and execute the REST APIs and configuration knowledge.
4. Knowledge of REST concepts, JSON, browser-based REST client.
5. Prior knowledge of REST programming is required to understand the examples, samples, scenarios, and reference sections.
6. Knowledge of the ECM Data model.

4 Configuring Tables

You must configure specific tables to populate and save events on the Consolidation and Case layers. By configuring these tables, you will get the flexibility to select which data (such as evented entity and entity details) should be saved. The Oracle client can configure these tables before utilizing the API service. The following tables must be configured:

- FCC_RT_EVENT_ENTITY_TABLES
- FCC_RT_EVENT_ENTITY_TABLES_COL
- FCC_RT_EVENTTYPE_PTC
- FCC_RT_EVENTTYPE_PTC_QUERIES
- FCC_RT_EVNTTYP_CORRELATION_MAP
- FCC_CORRELATION_CASE_TYPE_MAP

The following sections describe these tables.

4.1 FCC_RT_EVENT_ENTITY_TABLES

This table stores entities that the service accepts. For example, if this table has entry for only entities such as Account and Customer, then the API service will accept only events generated, which have a focus of Account and Customer.

Column Name	Description
N_ENTITY_TYPE_ID	Entity Type unique ID.
V_ENTITY_TYPE	Entity type name. It should be the same as which is sent in the JSON. For example, Customer, Account, and so on.
V_EVENTED_TABLE_NAME	Name of the entity evented table where evented data is stored.
V_ENTITY_TABLE_NAME	Name of the corresponding CA business table name. For example, FCC_CUST.
V_ENTITY_LOOK_UP_TABLE_NAME	Name of the entity lookup table.
IS_LOOK_UP_PER_REQD	Determines if the entity details are required to copy to the entity lookup table. You can set this to Y or N. If flag is Y, then it will update the corresponding entity lookup tables. If you are adding a new entity and this flag is Y, then it will check the newly added entity in the lookup table and will not update it in the table if it is a duplicate.
IS_ENTI_PER_REQD	Determines if the entity details are required to copy to the entity table. You can set this to Y or N. If this flag is N, then entity information at the time of event generation will not be updated to the corresponding entity tables.

Column Name	Description
IS_EVENT_PER_REQD	Determines if the entity details are required to copy to the event table. That is, you can choose in which table data is to be populated. You can set this to Y or N. If this flag is N, then entity information at time of event generation will not be updated to the corresponding event tables.
V_LOOKUP_SEQUENCE_NAME	Sequence name to SKey generation of the lookup. This is required if lookup persistence is required. You can find the sequence from the Sequences (CM_CUST_SEQ) option on the left panel of the database.

4.2 FCC_RT_EVENT_ENTITY_TABLES_COL

This table maps the lookup, evented, and business entity information required to be captured for the respective entities, that is, the columns of the lookup, evented, and business entities which are required on the JSON. The mapping must match the data accepted in the relevant entity tables.

Column Name	Description
N_ENTITY_TYPE_ID	Sequence ID of the entity. It must be same as defined in the FCC_RT_EVENT_ENTITY_TABLES table.
V_TABLE_NAME	Table name for the entity which is given in the FCC_RT_EVENT_ENTITY_TABLES table.
V_COL_BUSINESS_NAME	Business name of the entity attribute.
V_COL_NAME	Column name of the entity attribute.
V_DATA_TYPE	Data type of the entity attribute.
V_COL_TYPE	Column type of the entity attribute.
V_IS_SURROG_KEY	Defines the surrogate key.

4.3 FCC_RT_EVENTTYPE_PTC

This table maps the case type and corresponding T2T query IDs that must be triggered during case creation or case extension. These queries are triggered only if the service triggered is required to create or extend a case.

Column Name	Description
V_CASE_TYPE	The type of the case. For example, AML_DD
N_SEQUENCE	Order in which the queries should run for the corresponding case type.
V_T2T_CODE	Code name of the corresponding T2T query.

4.4 FCC_RT_EVENTTYPE_PTC_QUERIES

This table stores T2T queries against corresponding T2T codes. Queries are triggered on case service call, but only the queries mapped to the case type for which the event is triggered will be called.

Column Name	Description
V_T2T_CODE	Code name of the corresponding T2T query.
C_T2T_QUERY	T2T query which populates data to the ECM tables.

4.5 FCC_RT_EVNTTYP_CORRELATION_MAP

This table maps the event type to the correlation rule, so the case generated through the service will be of case type (AML_SURV, CS_SAN, and so on) to which the correlation rule is mapped. For example, Correlation rule 1 is mapped to case type AML_SURV. If the ingesting AML event has to generate a case type of AML_SURV, the entry must be passed in this table mapping event type and correlation rule.

Column Name	Description
N_EVENT Type	The type of the event used for correlation.
N_CORRELATION_RULE_SKEY	This is the correlation rule unique Identification number. The value of N_CORRELATION_RULE_SKEY column (rule number) should be same as defined in the FCC_CORRELATION_RULE table.

4.6 FCC_CORRELATION_CASE_TYPE_MAP

This table maps the correlation rule with the case type, so cases created through this correlation rule will be all of the given case type (for more information on how to design the case type, see the [Oracle Financial Services Enterprise Case Management Admin Guide](#)).

Column Name	Description
V_CASE_TYPE	This is the type of case.
N_CORRELATION_RULE_SKEY	This is the correlation rule unique Identification number. The value of N_CORRELATION_RULE_SKEY column (rule number) should be same as defined in the FCC_CORRELATION_RULE table.

5 Use Cases for Configuring Tables

You can use the following scenarios to understand the services. Before modifying the JSON, you must configure the tables with appropriate values.

[Adding an Entity](#) and [Adding Persistence to an Entity](#) use cases explain how to add a new entity in FCC_RT_EVENT_ENTITY_TABLES.

[Adding an Entity](#), [Adding Persistence to an Entity](#), and [Adding PTC for Entity](#) use cases explain how to use the Create Event service.

[Adding an Entity](#), [Adding Persistence to an Entity](#), and [Adding PTC for Entity](#), and [Adding an Event Type to Correlation Map](#) use cases explain how to Create Event and Attach to Existing Case.

Adding an Event Type to Correlation Map use case explains how to map an event type to correlation rule.

This section includes the following topics:

- [Adding an Entity](#)
- [Adding Persistence to an Entity](#)
- [Adding PTC for Entity](#)
- [Adding an Event Type to Correlation Map](#)

5.1 Adding an Entity

To add an entity, follow these steps:

1. Add a new entry in the FCC_RT_EVENT_ENTITY_TABLES table, as shown in the following example:

N_ENTITY_TYP E_ID	V_ENTITY_T YPE	V_EVENTE D_TABLE_ NAME	V_ENTITY _TABLE_N AME	V_ENTITY_LO OK_UP_TABLE _NAME	IS_LOOK_ UP_PER_ REQD	IS_ENTI _PER_R EQD	IS_EVEN T_PER_R EQD	V_LOOKUP_ SEQUENCE NAME
102	ECM_C USTO MER	FCC_CUST_ EVNT	FCC_CUST	FCC_CUSTOME R_LOOKUP	Y	Y	Y	

Oracle recommends setting the flag to Y for IS_LOOK_UP_PER_REQD and IS_EVENT_PER_REQD columns. V_ENTITY_TABLE_NAME table names must be the same as mentioned in the backend ECM data model.

2. Add the evented details in the FCC_RT_EVENT_ENTITY_TABLES_COL table for the newly added entity, as shown in the following example:

N_ENTITY_TYP E_ID	V_TABLE_N AME	V_COL_BUSINESS_ NAME	V_COL_NA ME	V_DATA_T YPE	V_COL_T YPE	V_IS_SURROG _KEY
----------------------	------------------	-------------------------	----------------	-----------------	----------------	---------------------

102	FCC_CUST_EVNT	custId	CUST_INTRL_ID	CHAR		
-----	---------------	--------	---------------	------	--	--

Here, the entry in the V_TABLE_NAME column must be same as either the V_EVENTED_TABLE_NAME, V_ENTITY_TABLE_NAME, or V_ENTITY_LOOK_UP_TABLE_NAME column of the FCC_RT_EVENT_ENTITY_TABLES table.

5.2 Adding Persistence to an Entity

For the FCC_RT_EVENT_ENTITY_TABLES table, the following scenarios are possible:

- If the IS_LOOK_UP_PER_REQD, IS_ENTI_PER_REQD and IS_EVENT_PER_REQD columns are set to Y, then the corresponding Entity and Event tables will be populated after lookup.

N_ENTITY_TYP E_ID	V_ENTITY_T YPE	V_EVENTED_TABLE_ NAME	V_ENTITY_ _TABLE_N AME	V_ENTITY_LO OK_UP_TABLE _NAME	IS_LOOK_ UP_PER_ REQD	IS_ENTI_ _PER_R EQD	IS_EVEN T_PER_R EQD	V_LOOKUP_ SEQUENCE_ NAME
102	ECM_C USTO MER	FCC_CUST_ EVNT	FCC_CUST	FCC_CUSTOME R_LOOKUP	Y	Y	Y	

- If the IS_LOOK_UP_PER_REQD and IS_EVENT_PER_REQD columns are set to Y, then the corresponding Event tables will be populated after lookup. If the IS_ENTI_PER_REQD column is set to N, then the UI may not display correct data.

N_ENTITY_TYP E_ID	V_ENTITY_T YPE	V_EVENTED_TABLE_ NAME	V_ENTITY_ _TABLE_N AME	V_ENTITY_LO OK_UP_TABLE _NAME	IS_LOOK_ UP_PER_ REQD	IS_ENTI_ _PER_R EQD	IS_EVEN T_PER_R EQD	V_LOOKUP_ SEQUENCE_ NAME
102	ECM_C USTO MER	FCC_CUST_ EVNT	FCC_CUST	FCC_CUSTOME R_LOOKUP	Y	N	Y	

5.3 Adding PTC for Entity

To add PTC for an entity, follow these steps:

Add a new entry in the FCC_RT_EVENTTYPE_PTC table. Before adding the entries in the FCC_RT_EVENTTYPE_PTC table, populate the FCC_RT_EVENT_ENTITY_TABLES and FCC_RT_EVENT_ENTITY_TABLES_COL tables.

When a case type is added, the corresponding KDD_CASE tables will be populated.

The following example shows how to add new entries:

V_CASE_TYPE	N_SEQUENCE	V_T2T_CODE
AML_DD	1	t2t_KDD_CASE_ACCOUNTS
AML_DD	2	t2t_KDD_CASE_CUSTOMERS
AML_DD	3	t2t_KDD_CASE_INSTN_MASTER
AML_DD	4	t2t_KDD_CASE_CLIENT_BANK
AML_DD	5	t2t_KDD_CASE_EXTERNAL_ENTITY

5.4 Adding an Event Type to Correlation Map

To add an event type to correlation map, follow this step:

Add a new entry in the FCC_RT_EVNTTYP_CORRELATION_MAP table, as shown in the following example:

N_CORRELATION_RULE_SKEY	V_EVENT_TYPE
12	AML_SURV

6 Services

The following services are available:

- [Create Event](#)
- [Create Event and Promote to Case](#)
- [Create Event and Extend to Existing Case](#)

6.1 Create Event

This service saves the event generated in the source system to the consolidation layer. The saved event will be available for correlation when the next batch is triggered.

The following topics explain how to configure and use the Create Events in JSON.

- [HTTP Link](#)
- [Service Type](#)
- [Request Parameters](#)
- [Request JSON Sample](#)
- [Response Parameters](#)
- [Response JSON Sample](#)

6.1.1 HTTP Link

[http:// <Application URL>/rest-api/CMRestService/RealTimeCaseCreationService/saveEvents](http://<Application URL>/rest-api/CMRestService/RealTimeCaseCreationService/saveEvents)

6.1.2 Service Type

The service type is POST.

6.1.3 Request Parameters

The following table describes the details of parameters.

First Level	Second Level	Third Level	Details
events			This accepts basic information of the Event.
events	eventCode		This accepts event ID information.
events	eventScore		This accepts information about the event score.

First Level	Second Level	Third Level	Details
events	dataOrigin		This accepts information about the Data Origin of the event. It stores the source system from where data is extracted.
events	jurisdictionCode		This accepts information about Jurisdiction code of the event. It represents geographic or legal entity monitoring or data restrictions.
events	businessDomain		This accepts information about the Business Domain of the event. Business Domain represents the operational data restrictions (that is, potential Chinese walls between business units).
events	type		This accepts information about 'Type' of the event. For example, AML, KYC, and so on.
events	priority		This accepts information about 'Priority' of the event. It is the Priority of the Event and the risk it poses to a customer or an institution. low, medium, high
events	scenarioClass		This accepts information about 'Scenario Class' of the event. For example, ML,FR, and so on.
events	comments		This accepts the additional comments provided which are related to the generated Event and details of the event or assignment which led to the creation of an external event that is formatted for display.
events	entities		This is second level tag under JSON. It accepts basic information-related event and entity mapping.

First Level	Second Level	Third Level	Details
events	entities	entityCode	This accepts entity code of the entity. It is the Entity identifier on whom the event is generated from the external system. It can be alphanumeric. For Example: Customer identifier, Account identifier on whom the event is generated.
events	entities	entityType	This accepts entity type of the entity. For example: Account, Customer, Employee, External_Entity, and Household.
events	entities	entityTypeCode	This accepts entity type code of the entity.
events	entities	entityName	This accepts the name of the entity.
events	entities	focusFlag	This accepts whether the entity is Primary Focus of the event or not. List of Values are Y or N. Only one entity of an event will have the value of Y. All others will have N.
events	entities	actId	This accepts the account internal ID of the Account.
events	entities	genericEntityInformation	This accepts the generic entity information in the form of a JSON value. Note that generic entity can never be a focal entity. Hence, there must be some other entity also specified in the entities array which is the focal entity for the event. For more samples, see the Appendix A .
events	details		This is second level tag under JSON. It accepts additional details related to event.
events	details	reason	This accepts event highlights.
events	details	scenarioCatalogId	This accepts the event scenario ID.

First Level	Second Level	Third Level	Details
events	bindings	bindingName	This accepts the event binding name.
events	bindings	bindingActualValue	This accepts the binding actual value.
events	bindings	bindingBaseValue	This accepts the binding base value.
events	bindings	bindingType	This accepts the binding type.

6.1.4 Request JSON Sample

This section contains a request JSON sample for creating events.

The entries in this sample are only for reference purposes.

```
{
  "events": [{
    "eventCode": "09875456",
    "eventScore": "",
    "dataOrigin": "DLY",
    "jurisdictionCode": "AMEA",
    "businessDomain": "c",
    "type": "AML_SURV",
    "priority": "",
    "scenarioClass": "AML",
    "comments": "",
    "entities": [{
      "entityCode":
"XXXACFTNEXTENAC-123007",
      "entityType":
"ACCOUNT",
      "entityTypeCode":
"ECM_ACCOUNT",
      "entityName": "BARRY",
      "focusFlag": "Y",
      "actId":
"XXXACFTNEXTENAC-123007"
    }],
  }],
}
```

```

{
    "genericEntityInformation": {
        "Customer Details": {
            "Victim Name": "ABC XYZ",
            "Victim SSN": "123-12-1234",
            "Phone Number": "123-123-1234"
        },
        "Enterprise Customer Complaint": {
            "Was a complaint filed": "No"
        },
        "Incident Details": {
            "Incident Type": "Fradulent Transaction",
            "Account Type": "Consumer",
            "Market": "Southwest Mumbai"
        }
    }
},

    "details": [{
        "reason": "INR2000
Suspicious Transaction to Terror Outfits",
        "scenarioCatalogId":
"User Defined Event"
    }],
    "bindings": [{
        "bindingName":
"Effectv_Risk_Lvl",
        "bindingActualValue":
"50",
        "bindingBaseValue":
"5",
        "bindingType": ""
    }
}],
    "entities": [{
        "entityCode": "XXXACFTNEXTENAC-123007",
        "entityType": "ACCOUNT",

```

```

"jurisdiction": "AMEA",
    "entityTypeCode": "ECM_ACCOUNT",
    "entityName": "BARRY",
    "actId": "XXXACFTNEXTENAC-123007",
    "dataOrigin": "DLY",
    "accName": "BARRY",
    "types": "SAV",
    "registration": "IND",
    "ownerType": "",
    "status": "A",
    "branch": "BRANCH-001",
    "taxCode": "N",
    "householdGroupId": "",
    "pimeBroker": "N",
    "taxId": "T",
    "firmId": "MANTAS",
    "legalEntity": "BGMC_ACCT_001",
    "statusEffective": "31-12-2014
00:00:00",
    "lastActivity": "30-11-2015 00:00:00",
    "openData": "31-12-2014 00:00:00",
    "closeDate": ""
    }
}

```

6.1.5 Response Parameters

The following table describes the details of response parameters.

First Level	Details
Message	Displays the message of service execution.
Status	Displays the status as Success or Fail.
Event Id(s)	Displays all Event IDs that were passed in the request JSON. Will show multiple event IDs if more than one was passed in input JSON.

6.1.6 Response JSON Sample

This section contains a response JSON sample for creating events.

The entries in this sample are only for reference purposes.

```
{
  "MESSAGE": "Events are saved successfully.",
  "STATUS": "SUCCESS",
  "Event Id(s)": "09875456"
}
```

6.2 Create Event and Promote to Case

This service creates a new case for the event generated from the source system. For example, if an event is created for a customer in the Customer Screening application, on triggering this service, a case is created for the event on the ECM layer.

The defaulted priority for the cases created through the Real Time Case Creation service will be Low. The system will not determine priority of the cases created through the service based on the Case Priority configuration.

The following topics explain how to configure and use the Create Event and Promote to Case service in JSON:

- [HTTP Link](#)
- [Service Type](#)
- [Request Parameters](#)
- [Request JSON Sample](#)
- [Response Parameters](#)
- [Response JSON Sample](#)

6.2.1 HTTP Link

[http:// <Application URL>/rest-api/CMRestService/RealTimeCaseCreationService/saveEventsAndPromoteToCase](http://<Application URL>/rest-api/CMRestService/RealTimeCaseCreationService/saveEventsAndPromoteToCase)

6.2.2 Service Type

The service type is POST.

6.2.3 Request Parameters

The following table describes the details of parameters.

First Level	Second Level	Third Level	Details
events			This accepts basic information of the Event.
events	eventCode		This accepts event ID information.
events	eventScore		This accepts information about the event score.
events	dataOrigin		This accepts information about the Data Origin of the event. It stores the source system from where data is extracted.
events	jurisdictionCode		This accepts information about the Jurisdiction code of the event. It represents geographic or legal entity monitoring or data restrictions.
events	businessDomain		This accepts information about the Business Domain of the event. Business Domain represents yours operational data restrictions (that is, potential Chinese walls between business units).
events	type		This accepts information about 'Type' of the event. For example, AML, KYC, and so on.
events	priority		This accepts information about 'Priority' of the event. It is the Priority of the Event and the risk it poses to a customer or an institution. List of values: Low Medium High
events	scenarioClass		This accepts information about 'Scenario Class' of the event. For example, ML,FR, and so on.

First Level	Second Level	Third Level	Details
events	comments		This accepts the additional comments provided which are related to the generated Event and details of the event or assignment which led to the creation of an external event that is formatted for display.
events	entities		This is a second level tag under JSON. It accepts basic information-related event and entity mapping.
events	entities	entityCode	This accepts entity code of the entity. It is the Entity identifier on whom the event is generated from the external system. It can be alphanumeric. For Example: The Customer identifier or Account identifier on whom the event is generated.
events	entities	entityType	This accepts the entity type of the entity. For example: Account, Customer, Employee, External_ Entity, and Household.
events	entities	entityTypeCode	This accepts the entity type code of the entity.
events	entities	entityName	This accepts the name of the entity.
events	entities	focusFlag	This accepts whether the entity is the Primary Focus of the event or not. List of Values are Y or N. Only one entity of an event will have the value of Y. All others will have N.
events	entities	actId	This accepts the account internal ID of the Account.

First Level	Second Level	Third Level	Details
events	entities	genericEntityInformation	This accepts the generic entity information in the form of a JSON value. Note that generic entity can never be a focal entity. Hence, there must be some other entity also specified in the entities array which is the focal entity for the event. For more samples, see the Appendix A .
events	details		This is a second level tag under JSON. It accepts additional details related to the event.
events	details	reason	This accepts event highlights.
events	details	scenarioCatalogId	This accepts the event scenario ID.
events	bindings	bindingName	This accepts the event binding name.
events	bindings	bindingActualValue	This accepts the binding actual value.
events	bindings	bindingBaseValue	This accepts the binding base value.
events	bindings	bindingType	This accepts the binding type.
casePriority			This accepts the priority of the case.

6.2.4 Request JSON Sample

This section contains a Request JSON sample for creating an event and promote to case.

The entries in this sample are only for reference purposes.

```
{
  "events": [{
    "eventCode": "655867843",
    "eventScore": "",
    "dataOrigin": "DLY",
    "jurisdictionCode": "AMEA",
    "businessDomain": "a",
    "type": "AML_SURV",
    "priority": "",
    "scenarioClass": "AML",
```

```

        "comments": "",
        "entities": [{
            "entityCode": "1412",
            "entityType":
"CLIENT_BANK",
            "entityTypeCode":
"ECM_CLIENT_BANK",
            "entityName": "JADEJ",
            "focusFlag": "Y",
            "actId":
"XXXACFTNEXTENAC-123007"
        }
    {
        "genericEntityInformation": {
            "Customer Details": {
                "Victim Name": "ABC XYZ",
                "Victim SSN": "123-12-1234",
                "Phone Number": "123-123-1234"
            },
            "Enterprise Customer
            Complaint": {
                "Was a complaint filed?": "No"
            },
            "Incident Details": {
                "Incident Type": "Fradulent Transaction",
                "Account Type": "Consumer",
                "Market": "Southwest Mumbai"
            }
        }
    }],
        "details": [{
            "reason": "INR7890 TEST - CORRESPONDENT BANK",
            "scenarioCatalogId":
"User Defined Event"
        }
    ]],

```

```

"entities": [{
    "entityCode": "1412",
    "entityType": "CLIENT_BANK",
    "entityTypeCode": "ECM_CLIENT_BANK",
    "entityName": "JADEJ",
    "instId": "HSINDI-001",
    "instTypeCd": "BIC",
    "dataOrigin": "DLY",
    "city": "",
    "country": "",
    "postalCode": "",
    "state": "",
    "address": "",
    "instituteCountry": "",
    "instituteName": "JADEJ",
    "largeInstitution": "N",
    "selfInstitution": "N"
}, {
    "skey": "1412",
    "entityType": "CLIENT_BANK",
    "entityTypeCode":
"ECM_CLIENT_BANK_SEC",
    "dataOriginCb": "DLY",
    "cbEfctvRiskNb": "0",
    "cbListSrcCd": "",
    "cbMatchTx": "",
    "busUnitCd": "",
    "acctMgrNm": "",
    "lastActDate": "31-12-2014 00:00:00",
    "cbListRiskNb": "0",
    "cbMatchTypecd": "",
    "instSeqId": "102",
    "jurisdiction": "AMEA",
    "busList": "a"
}]
"casePriority": "High"

```

}

6.2.5 Response Parameters

The following table describes the details of response parameters.

First Level	Details
Caseld	Displays the case ID.
Message	Displays the message of service execution.
Status	Displays the status as Success or Fail.
Event Id(s)	Displays all Event IDs that were passed in the request JSON. Will show multiple event IDs if more than one was passed in input JSON.
CaseType	Displays the type of case.

6.2.6 Response JSON Sample

This section contains a Response JSON sample for creating an event and promote to case.

The entries in this sample are only for reference purposes.

```
{
  "caseId": "CA354",
  "message": "Events are saved successfully and promoted to case ",
  "status": "SUCCESS",
  "Event Id(s)": "655867843",
  "caseType": "AML_SURV"
}
```

6.3 Create Event and Extend to Existing Case

This service links a generated event to an existing case mentioned in the service. For example, an event generated in AML which is related to another event for which a case is already created in ECM. On triggering this service, the new event will be added to the existing case.

The following topics explain how to configure and use the Create Event and attach it to an existing Case service in JSON:

- [HTTP Link](#)
- [Service Request](#)

- [Request Parameters](#)
- [Request JSON Sample](#)
- [Response Parameters](#)
- [Response JSON Sample](#)

6.3.1 HTTP Link

[http:// <Application URL>rest-api/CMRestService/RealTimeCaseCreationService/saveEventsAndExtendToCase](http://<Application URL>rest-api/CMRestService/RealTimeCaseCreationService/saveEventsAndExtendToCase)

6.3.2 Service Type

The service type is POST.

6.3.3 Request Parameters

The following table describes the details of parameters.

First Level	Second Level	Third Level	Details
events			This accepts basic information of the Event.
events	eventCode		This accepts event ID information.
events	eventScore		This accepts information about the event score.
events	dataOrigin		This accepts information about the Data Origin of the event. It stores the source system from where data is extracted.
events	jurisdictionCode		This accepts information about the Jurisdiction code of the event. It represents geographic or legal entity monitoring or data restrictions.
events	businessDomain		This accepts information about the Business Domain of the event. Business Domain represents the operational data restrictions (that is, potential Chinese walls between business units).

First Level	Second Level	Third Level	Details
events	type		This accepts information about the 'Type' of the event. For example, AML, KYC, and so on.
events	priority		This accepts information about the 'Priority' of the event. It is the Priority of the Event and the risk it poses to a customer or an institution. List of values: Low Medium High
events	scenarioClass		This accepts information about the 'Scenario Class' of the event. For example, ML,FR, and so on.
events	comments		This accepts the additional comments provided which are related to the generated Event and details of the event or assignment which led to the creation of an external event that is formatted for display.
events	entities		This is a second level tag under JSON. It accepts basic information-related event and entity mapping.
events	entities	entityCode	This accepts the entity code of the entity. It is the Entity identifier on whom the event is generated from the external system. It can be alphanumeric. For Example: The Customer identifier or Account identifier on whom the event is generated.
events	entities	entityType	This accepts the entity type of the entity. For example: Account, Customer, Employee, External_ Entity, and Household

First Level	Second Level	Third Level	Details
events	entities	entityTypeCode	This accepts the entity type code of the entity.
events	entities	entityName	This accepts the name of the entity.
events	entities	focusFlag	This accepts whether the entity is Primary Focus of the event or not. List of Values are Y or N. Only one entity of an event will have the value of Y. All others will have N.
events	entities	actId	This accepts the account internal ID of the Account.
events	entities	genericEntityInformation	This accepts the generic entity information in the form of a JSON value. Note that generic entity can never be a focal entity. Hence, there must be some other entity also specified in the entities array which is the focal entity for the event. For more samples, see the Appendix A .
events	details		This is a second level tag under JSON. It accepts additional details related to event.
events	details	reason	This accepts the event highlights.
events	details	scenarioCatalogId	This accepts the event scenario ID.
events	bindings	bindingName	This accepts the event binding name.
events	bindings	bindingActualValue	This accepts the binding actual value.
events	bindings	bindingBaseValue	This accepts the binding base value.
events	bindings	bindingType	This accepts the binding type.

6.3.4 Request JSON Sample

This section contains a request JSON sample for creating an event and attaching to case:

The entries in this sample are only for reference purposes.

```
{
```

```

    "events": [{
      "eventCode": "999979",
      "eventScore": "",
      "dataOrigin": "DLY",
      "jurisdictionCode":
"AMEA",
      "businessDomain": "c",
      "type": "AML",
      "priority": "",
      "scenarioClass": "AML",
      "comments": "",

      "entities": [{
"entityCode": "ACDPGTOTACTAC-
010",
"entityType":
"ACCOUNT",
"entityTypeCode":
"ECM_ACCOUNT",
"entityName":
"ELEVENTH",
          "focusFlag":
"Y",
"actId": "ACDPGTOTACTAC-
010"

        {
          "genericEntityInformation": {
            "Bank Details": [{
              "Name": "HHHH",
              "Year": 1988,
              "Founder": "ABC XYZ",
            "Departments": [{
              "Name": "Credit",
              "Start Year": "1989",
              "Employees": [{
                "Name": "XXX",
                "City": "Bangalore"
              }, {
                "Name": "XXX",

```



```

        "City": "Jaipur"
      }
    ],
    {
      "Name": "Debit",
      "Start Year": "1989",
      "Employees": [
        {
          "Name": "XXX",
          "City": "Bangalore"
        },
        {
          "Name": "XXX",
          "City": "Kandy"
        }
      ]
    }
  ]
},
{
  "Name": "IIII",
  "Year": 1992,
  "Founder": "ABC XYZ",
  "Departments": [
    {
      "Name": "Credit",
      "Start Year": "1993",
      "Employees": [
        {
          "Name": "XXX",
          "City": "Mumbai"
        },
        {
          "Name": "XXX",
          "City": "Delhi"
        }
      ]
    },
    {
      "Name": "Debit",
      "Start Year": "1993",
      "Employees": [
        {
          "Name": "XXX",

```

```

        "City": "Sydney"
      }, {
        "Name": "XXX",
        "City": "Colombo"
      }
    ]
  }
]
}

}],
  "details": [{
    "reason": "INR2000 Suspicious Transaction to Terror
Outfits",
    "scenarioCatalogId": "User Defined
Event"
  }],
  "bindings": [{
    "bindingName":
"Effectv_Risk_Lvl",

    "bindingActualValue":
"50",
    "bindingBaseValue":
"5",
    "bindingType": ""
  }
  ],
  "entities": [{
    "entityCode": "ACDPGTOTACTAC-
010",
    "entityType": "ACCOUNT",
    "entityTypeCode":
"ECM_ACCOUNT",
    "entityName": "ELEVENTH",
    "actId": "ACDPGTOTACTAC-
010",
    "dataOrigin": "DLY",

```

```

    "accName": "ELEVENTH",
    "types": "INV",
    "registration": "IND",
    "ownerType": "RPT",
    "jurisdiction": "AMEA",
    "status": "A",
    "branch": "BRANCH-001",
    "taxCode": "N",
    "householdGroupId":
"HHSAMPLE00",
    "pimeBroker": "N",
    "taxId": "S",
    "firmId": "",
    "legalEntity":
"BGMC_ACCT_001",
    "statusEffective": "31-12-2014
00:00:00",
    "lastActivity": "",
    "openData": "31-12-2014
00:00:00",
    "closeDate": ""
        "events":[
            {
                "eventCode":"153803908863599",
                "eventScore":"",
                "dataOrigin":"DLY",
                "jurisdictionCode":"AMEA",
                "businessDomain":"c",
                "type":"AML",
                "priority":"",
                "scenarioClass":"AML",
                "comments":"",
                "entities":[
                    {
                        "entityCode":"CUHRTHRCPHH-002",
                        "entityType":"CUSTOMER",
                        "entityTypeCode":"ECM_CUSTOMER",

```

```
        "entityName":"ANDREW ELEVENTH",
        "jurisdiction" : "AMEA",
        "focusFlag":"Y",
        "custId":"CUHRTHRCPHH-002"
    }
],
"details":[
    {
        "reason":"ffjffjggghgkkkkhhhk",
        "scenarioCatalogId":"User Defined Event"
    }
]
}
],
"entities":[
    {
        "entityCode":"CUHRTHRCPHH-002",
        "entityType":"CUSTOMER",
        "entityTypeCode":"ECM_CUSTOMER",
        "entityName":"ANDREW ELEVENTH",
        "jurisdiction" : "AMEA",
        "custId":"CUHRTHRCPHH-002",
        "dataOrigin":"DLY",
        "customerName":"ANDREW ELEVENTH",
        "customerType":"IND",
        "taxID":"TAXHRTHRCPHH-002",
        "legalStructCode":"GOV",
        "aliasName":"",
        "incomeRange":"",
        "industry":"US",
        "publicCompany":"",
        "estNetWorth":"1182552",
        "atmDailyLimit":null,
        "estAnnualIncome":"168936",
        "added":"31-12-2014 00:00:00",
        "incorporationDate":"",
```

```

        "customerstatus": "A",
        "effectiverisk": "2",
        "busdomain": "a"
    }
],
    "caseID": "CA115"
}

```

6.3.5 Response Parameters

The following table describes the details of response parameters.

First Level	Details
Message	Displays the message of service execution.
Status	Displays the status as Success or Fail.
Event Id(s)	Displays all Event IDs that were passed in the request JSON. Will show multiple event IDs if more than one was passed in input JSON.
CaseType	Displays the type of case.

6.3.6 Response JSON Sample

This section contains a response JSON sample for creating an event and attaching to case.

The entries in this sample are only for reference purposes.

```

{
    "message": "Events are saved successfully and promoted to case ",
    "status": "SUCCESS",
    "Event Id(s)": "999979",
    "caseType": "AML_SURV"
}

```

7 Appendix A - Supported JSON Structures for Generic Event Information

This part of the API allows you to add generic evented data to any event.

Note, The entries in these samples are only for reference purposes.

1. Simple JSON with simple Objects(One Level)

```
{
  "Customer Details": {
    "Victim Name": "John Doe",
    "Victim SSN": "123-12-1234",
    "Phone Number": "123-123-1234"
  },
  "Enterprise Customer Complaint": {
    "Was a complaint filed through the Enterprise Customer Complaint?": "Yes"
  },
  "Incident Details": {
    "Incident Type": "Structuring",
    "Account Type": "Consumer",
    "Market": "Southwest Pennsylvania"
  }
}
```

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583217432360

Generic Entity ID: 1

Customer Details

Victim SSN: 123-12-1234
Victim Name: John Doe
Phone Number: 123-123-1234

Enterprise Customer Complaint

Was a complaint filed through the Enterprise Customer Complaint?: Yes

Incident Details

Incident Type: Structuring
Market: Southwest Pennsylvania
Account Type: Consumer

2. Simple JSON with one level of Array Object

```
{
  "Customer Details": {
    "Victim Name": "Ajay Devgan",
```

```
"Victim SSN": "123-12-1234",
"Phone Number": "123-123-1234",
"Address List": [{
    "Address Type": "Office",
    "Street": "MG Road",
    "City": "Bangalore"
  },
  {
    "Address Type": "Home",
    "Street": "Victoria Road",
    "City": "Mumbai"
  },
  {
    "Address Type": "Branch",
    "Street": "Wuhan Province",
    "City": "Beijing"
  }
]
},
"Enterprise Customer Complaint": {
  "Was a complaint filed through the Enterprise Customer Complaint?": "Yes"
},
"Incident Details": {
  "Incident Type": "Structuring",
  "Account Type": "Consumer",
  "Market": "Southwest Mumbai"
}
```

```

}

```

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583325598441

Generic Entity ID: 3

Customer Details

Victim SSN: 123-12-1234

Address List

Address Type	Street	City
Office	MG Road	Bangalore
Home	Victoria Road	Mumbai
Branch	Wuhan Province	Beijing

Victim Name: Ajay Devgan
Phone Number: 123-123-1234

Enterprise Customer Complaint

Was a complaint filed through the Enterprise Customer Complaint?: Yes

Incident Details

Incident Type: Structuring
Market: Southwest Mumbai
Account Type: Consumer

3. Simple Object with Two levels of Array and Second Array being simple String of Values

```

{
  "Car Ownership Details": {
    "Name": "John",
    "Age": 30,
    "Cars": [{
      "Name": "Ford",
      "Models": ["Fiesta", "Focus", "Mustang"]
    },
    {
      "Name": "BMW",
      "Models": ["320", "X3", "X5"]
    },
    {
      "Name": "Fiat",
      "Models": ["500", "Panda"]
    }
  ]
}

```


Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583325861997

Generic Entity ID: 4

Car Ownership Details

Cars

Models	Name
Fiesta.Focus.Mustang	Ford
320.X3.X5	BMW
500.Panda	Fiat

Age: 30
Name: John

4. Simple Object with Two levels of Array and Second Array also consisting of Key Values

```
{
  "Car Branch Details": {
    "Name": "INVENTORY1",
    "Year": 2020,
    "Cars": [{
      "Name": "Ford",
      "Branches": [{
        "Name": "BLR",
        "City": "Bangalore"
      }, {
        "Name": "MLR",
        "City": "Mangalore"
      }]
    },
    {
      "Name": "Hyundai",
      "Branches": [{
        "Name": "DEL",
        "City": "Delhi"
      }, {
        "Name": "RJK",
        "City": "Rajkot"
      }]
    }
  ]
}
```

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583328064951

Generic Entity ID: 5

Car Branch Details

Cars

Branches	Name
City Name Mangalore MLR	Ford
City Name Rajkot RJK	Hyundai

Year: 2020
Name: INVENTORY1

5. Array JSON Object with two levels of Array and Second Array also consisting of key values

```
{
  "Bank Details": [{
    "Name": "HDFC",
    "Year": 1988,
    "Departments": [{
      "Name": "Credit",
      "Employees": [{
        "Name": "Virat",
        "City": "Bangalore"
      }, {
        "Name": "Smith",
        "City": "Jaipur"
      }
    ]
  },
  {
    "Name": "Debit",
    "Employees": [{
      "Name": "Ricky",
      "City": "Bangalore"
    }, {
      "Name": "Sanath",
      "City": "Kandy"
    }
  ]
  }
  ]
},
{
```

```

    "Name": "ICICI",
    "Year": 1992,
    "Departments": [{
        "Name": "Credit",
        "Employees": [{
            "Name": "Sachin",
            "City": "Mumbai"
        }, {
            "Name": "Kapil",
            "City": "Delhi"
        }
    ]
    }, {
        "Name": "Debit",
        "Employees": [{
            "Name": "Steve",
            "City": "Sydney"
        }, {
            "Name": "Marvan",
            "City": "Colombo"
        }
    ]
    }
    ]
}

```

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583390844950

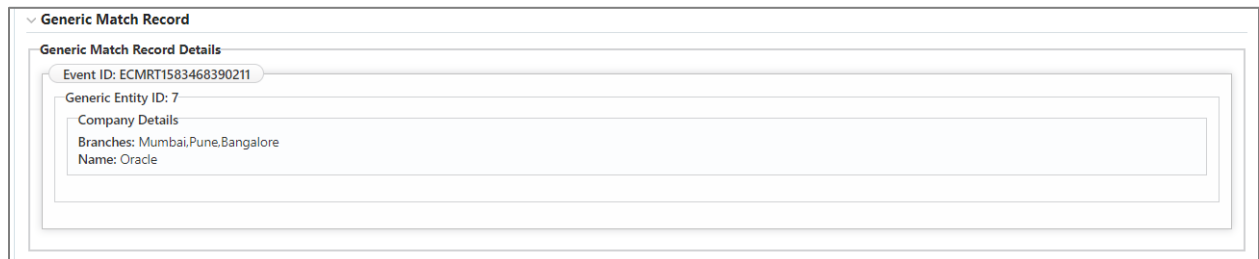
Generic Entity ID: 6

Bank Details

Departments		Year	Name
Employees	Name	1988	HDFC
City	Name		
Jaipur	Smith		
City	Name	1992	ICICI
Delhi	Kapil		
Colombo	Marvan		

6. Simple Object and Inside Simple Array of Strings

```
{
  "Company Details": {
    "Name": "Oracle",
    "Branches": ["Mumbai", "Pune", "Bangalore"]
  }
}
```



7. Array JSON Object with two levels of Array and Second Array consisting of Simple Int Values. Also Simple Array of Strings (Eg: Purposes)

```
{
  "Customer Details": [{
    "Name": "Jackson",
    "Jurisdiction": ["Mumbai", "Pune", "Bangalore"],
    "Departments": [{
      "Name": "Credit",
      "TransactionIds": [11, 12, 13]
    },
    {
      "Name": "Debit",
      "TransactionIds": [14, 15, 17]
    }
  ]
},
{
  "Name": "Dwayne",
  "Jurisdiction": ["California", "Pune", "Delhi"],
  "Departments": [{
    "Name": "Credit",
    "TransactionIds": [11.245, 12.345, 13]
  }
},
```

```

    {
      "Name": "Debit",
      "TransactionIds": [14, 15, 17]
    }
  ],
  "Purposes": ["Rental", "Shopping", "Travel"]
}

```

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583490016489

Generic Entity ID: 8

Customer Details

Jurisdiction	Departments	Name
Mumbai,Pune,Bangalore	TransactionIds Name	
	11,12,13 Credit	Jackson
	14,15,17 Debit	
California,Pune,Delhi	TransactionIds Name	
	11,245,12,345,13 Credit	Dwayne
	14,15,17 Debit	

Purposes

Rental,Shopping,Travel

8. More than 1 Generic Entity Under Same Event

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583217432360

Generic Entity ID: 1

Customer Details
 Victim SSN: 123-12-1234
 Victim Name: John Doe
 Phone Number: 123-123-1234

Enterprise Customer Complaint
 Was a complaint filed through the Enterprise Customer Complaint?: Yes

Incident Details
 Incident Type: Structuring
 Market: Southwest Pennsylvania
 Account Type: Consumer

Generic Entity ID: 2

Bank Details

Start Year	Departments	Employees	Name	Year	Founder	Name
1989	City / Name	Credit	Jalpur/Smith	1988	Aditya Puri	HDFC
1989	City / Name	Debit	Kandy/Sanath			
1993	City / Name	Credit	Delhi/Kapil	1992	Sandeep Bakshi	ICICI
1992	City / Name	Debit	Colombo/Marvan			

9. Multiple Events selected on UI

Generic Match Record

Generic Match Record Details

Event ID: ECMRT1583325598441

Generic Entity ID: 3

Customer Details
 Victim SSN: 123-12-1234

Address List

Address Type	Street	City
Office	M/G Road	Bangalore
Home	Victoria Road	Mumbai
Branch	Wuhan Province	Beijing

Victim Name: Ajay Devgan
 Phone Number: 123-123-1234

Enterprise Customer Complaint
 Was a complaint filed through the Enterprise Customer Complaint?: Yes

Incident Details
 Incident Type: Structuring
 Market: Southwest Mumbai
 Account Type: Consumer

Event ID: ECMRT1583490016489

Generic Entity ID: 8

Customer Details

Jurisdiction	Departments	Name
Mumbai/Pune/Bangalore	TransactionId: Name 11.12.13 Credit 14.15.17 Debit	Jackson
California/Pune/Delhi	TransactionId: Name 11.245.112.345.13 Credit 14.15.17 Debit	Dwayne

Purposes
 Rental Shopping Travel

7.1 Assumptions and Notes

- Section Names or Object Names must be provided for all elements which are of type Object or Array. For example, following json without section Name will not be supported:

```
{
  "Name": "ASK",
  "Work": "IT"
}
```

}

2. Supports 2 levels of Arrays for Simple Objects (Main JSON Object->Array1->Array2). Similarly, for the Array Object, it will be Main Array Object->Array1->Array2.
3. Supports simple object inside Array, but this is a rare case where we use any objects inside object. Use array where all single objects can pass it as Array. Else, it as good as normal key value attributes to the parent object:

[

{

"Name": "ASK",

"Work": "IT"

}

]

Generic Match Record

Event ID: ECMRT1583490016489

Customer Details

Jurisdiction	Departments	Name
Mumbai, Pune, Bangalore	TransactionIds	Name
	11, 12, 13	Credit
	14, 15, 17	Debit
California, Pune, Delhi	TransactionIds	Name
	11,245, 12,345, 13	Credit
	14, 15, 17	Debit
		Jackson
		Dwayne

Purposes

Rental, Shopping, Travel

4. For generic entity JSON structures for the Array Type JSON which is depicted as Table on the UI, the order in which the columns are shown is random.

Support

Raise a Service Request (SR) in [My Oracle Support \(MOS\)](#) for queries related to the OFSAA applications.

Send Us Your Comments

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- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the Oracle Support.

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site that has all the revised/recently released documents.

