

Oracle Financial Services

REST APIs for Accounting Foundation Cloud Service



Release 24A

F96083-02

April 2024

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1

Revision History

Table 1-1 Document Control

Release and Version Number	Revision Date	Change Log
R 24A, V 2.0	April 2024	Documented Token Based Authentication of ERP
R 24A, V 1.0	April 2024	Added a note in the Prerequisites section.
R 24.2.1, V 2.0	April 2024	The End point details of Object Migration APIs has been updated.
R 24.2.1, V 1.0	February 2024	Documented the following: • The PMF Status API has been modified to display the reason for process failure when Run Skey is invalid or 0. For more details, see Response JSON Parameters
R 23.12.1, V 1.0	January 2024	Documented the following: • Email Notification APIs. • API to fetch details of Data Quality that are breaching the Threshold Limit.
R 23.11.1, V 1.0	December 2023	Documented the following: • API to fetch all the Dashboard Events. For more details, see Fetching all the PMF Dashboard Events • Updated the PMF Dashboard APIs with End Point details.

2

Get Help

This section describes the Get Help options in the AFCS application.

2.1 Access Help Content

Use the Help icon



to access help in the application. If you do not see any help icons on your page, click your avatar or name in the global header and select Show Help Icons.

Note that not all pages have help icons. You can also access the [Oracle Help Center](#) to find guides and videos.

2.1.1 Watch Video



Watch: This video tutorial shows you how to find and use help.

You can also [read about it](#) instead.

2.1.2 Additional Resources

- **Community:** Use [Oracle Cloud Customer Connect](#) to get information from experts at Oracle, the partner community, and other users.
- **Training:** Take courses on Oracle Cloud from [Oracle University](#).

2.2 Learn About Accessibility

For information about Oracle's commitment to accessibility, visit the [Oracle Accessibility Program](#). Videos included in this guide are provided as a media alternative for text-based topics also available in this guide.

2.3 Get Support

You can get support at [My Oracle Support](#).

For accessible support, visit [Oracle Accessibility Learning and Support](#).

2.4 Get Training

Increase your knowledge of Oracle Cloud by taking courses at the [Oracle University](#).

2.5 Join Our Community

Use [Cloud Customer Connect](#) to get information from industry experts at Oracle and in the partner community. You can join forums to connect with other customers, post questions, and watch events.

2.6 Share Your Feedback

We welcome your feedback about Oracle Applications user assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we'd like to hear from you.

You can email your feedback to [My Oracle Support](#).

Thanks for helping us improve our user assistance!

3

About the REST APIs

You can use Oracle REST APIs to view data stored in the Oracle Financial Services Accounting Foundation Cloud Service. A REST API (also known as RESTful API) is an Application Programming Interface (API or web API) that conforms to the constraints of REST Architectural Style and allows for interaction with RESTful Web Services.

AFCS provides Representational State Transfer (REST) APIs to perform user tasks in an automated manner. The REST API is an Application-Programming Interface that provides a simplified way to exchange data through HTTP requests from a Client to the Server. In REST APIs, a resource is an object with a type, associated with data, and relationships formed to other resources. You can use a set of HTTP Methods to access each resource.

Resources are organized in a Hierarchical Structure that enables:

- Better organization, by grouping related data so that you can efficiently customize the resources.
- Improved performance by using a single HTTP request to handle multiple resources.

4

Getting Started

4.1 Prerequisites

- Access to the Accounting Foundation Cloud Service.
- Appropriate User Privileges to access the services.
- Technical and Functional knowledge to understand and execute the REST APIs and configuration knowledge.
- Knowledge of REST Concepts, JSON, and browser-based REST Client.
- Knowledge of interactive and automatic tools to verify the APIs such as Postman and Command Line Interfaces (CLI).



Note:

Trailing Slashes (/) are not supported in REST API URL's. Avoid adding trailing slashes at the end of URL's.

For Example: `https://<HOST_NAME:PORT>/<TENANT>/aai-object-migration-service/v1/public/downloadurl/export/`

4.1.1 Obtain Account Information

The account creation email from Oracle contains the Identity Domain Name for the Accounting Foundation Cloud Service Instance. If you do not have this information, then contact your Service Administrator.

4.2 Authentication

The Authentication Process involves the use of cURL Commands in a CLI Tool to generate the access token and invoke REST APIs. The Authentication Token is generated through the OAuth Client ID and Secret Credentials created in IAM/IDCS during Provisioning. The Authentication Token does not require that you log in to the AFCS Application to invoke the REST APIs from external applications.

Ensure that you have the appropriate log-in credentials to access the Accounting Foundation Cloud Service and the appropriate roles to perform specific operations using the API Resources. The following is the list of steps for Authentication and further subsections provide the details:

1. [Download the Application Certificate](#)
2. [Get the OAuth Client ID and Client Secret](#)
3. [Generate the Access Token](#)

4. [Generate the Refresh Token](#)
5. [Invoke the API using the Access Token](#)
6. [Activate New User Accounts for API Invocation](#)

4.2.1 Download the Application Certificate

The Application Certificate is required for verification purposes when you use cURL commands. You may choose not to download the certificate if you plan to turn off the cURL Certificate Verification and use an insecure connection (if you add the `--insecure` flag to the cURL command).

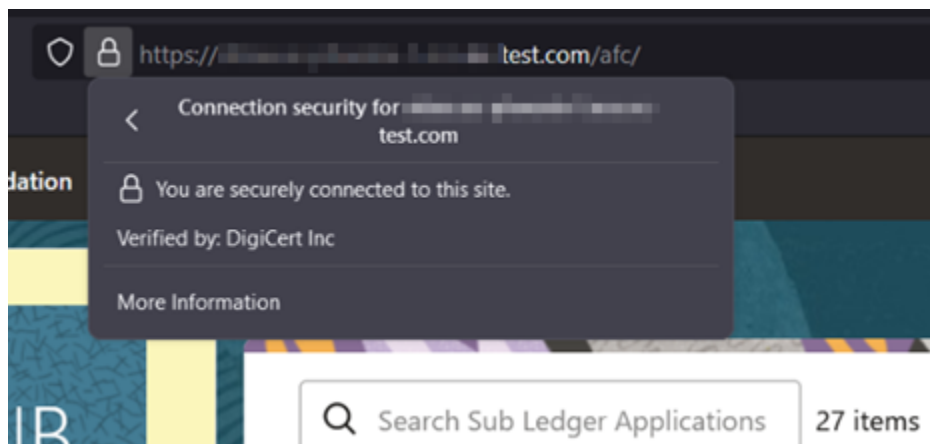
To download the Application Certificate, do as follows:

1. Log in to the AFCS Application.



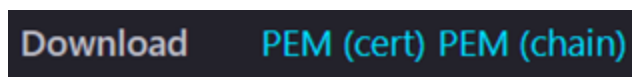
2. Click the **View site information/Verified by** Icon in the Browser URL Address Bar.
3. Select **More information**.

Figure 4-1 Certificates - More information



4. Click **View Certificate** and then click **PEM(cert)** to download the certificate.

Figure 4-2 Download PEM (cert)



4.2.2 Get the OAuth Client ID and Client Secret

To get the OAuth Client ID and Client Secret, follow these steps:

1. Enter the IDCS URL in the Browser's URL Address Bar.
The **Oracle Cloud Account Sign In** Window appears.
2. Log in to **Oracle Identity Cloud Service (IDCS)**.



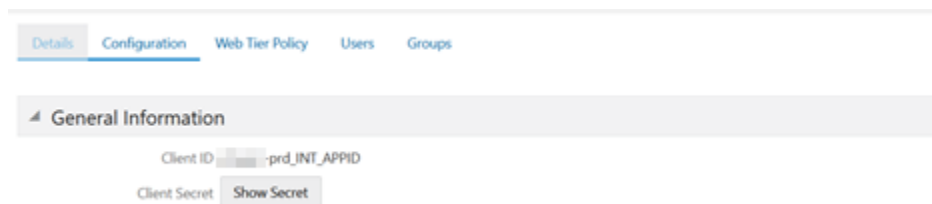
3. Select the Navigation  Icon to view a list of available functions.
4. Select **Oracle Cloud Services**.
For more information, see [Access Service Consoles](#) from **Administering Oracle Identity Cloud Service**.
5. From the Oracle Cloud Services Window, select the required AFCS Internal Application Service (in **AFCS <tenant-id> INTERNAL** Format) from the list.

 Note:

If you are retrieving ERP ESS Job Details API, select the required AFCS Application Service (in **AFCS <tenant-id>** Format) from the list. Ensure you use the same **AFCS <tenant-id>** while generating the Access Token.

6. Click the **Configuration** Tab.
The Client ID and Client Secret Details are displayed in the General Information Section.

Figure 4-3 Client ID and Client Secret



7. Copy the **Client ID** and **Client Secret**.
8. Open a CLI Tool.
9. [Generate the Access Token](#).

4.2.3 Generate the Access Token

To generate the Access Token, add the Client ID, Client Secret, User Name, and Password using cURL Commands in the CLI Tool. The following is an example:

```
echo -n "<tenant_oauth_app_client_id>:<tenant_oauth_app_client_secret>" |
base64 -w 0      (generates basic base64 encoded authorization token)

curl -H "Authorization: Basic <base64 encoded
```

```
tenant_oauth_app_client_id:tenant_oauth_app_client_secret>"

-H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" --
request POST

https://<idcs-URL.identity>.<TENANT>.com/oauth2/v1/token

-d
"grant_type=password&scope=urn:opc:idm:__myscopes__&username=<username>
&password=<password>"

echo -n "<PROD_APP_ID_INTERNAL>" | base64 -w 0

curl -H "Authorization: Basic <Basic_Auth-Token>

-H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" --
request POST

https://<idcs-URL.identity.TENANT>.com/oauth2/v1/token

-d
"grant_type=password&scope=urn:opc:idm:__myscopes__&username=<UserName>
&password=<Password>"
```

After generating the Access Token, invoke the API as shown in the following section.

4.2.4 Generate the Refresh Token

To generate the Refresh Token, add the Client ID and Client Secret using cURL Commands in the CLI Tool. The following is an example:

```
echo -n
"<tenant_oauth_app_client_id>:<tenant_oauth_app_client_secret>" |
base64 -w 0      (generates basic base64 encoded authorization token)

curl -H "Authorization: Basic <base64 encoded
tenant_oauth_app_client_id:tenant_oauth_app_client_secret>"

-H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" --
request POST

https://<idcs-URL.identity>.<TENANT>.com/oauth2/v1/token

-d
"grant_type=password&username=<username>&password=<password>&scope=urn:
opc:idm:__myscopes__%20offline_access"
```

Use the previously generated refresh token to generate a new access token without reauthenticating or providing user credentials.

```
curl -H "Authorization: Basic <base64 encoded
tenant_oauth_app_client_id:tenant_oauth_app_client_secret>"
```

```
-H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" --
request POST

https://<idcs-URL.identity>.<TENANT>.com/oauth2/v1/token

-d "grant_type=refresh_token&refresh_token=<refresh-token>&scope=<scope
value>"
```

After generating the Refresh Token, invoke the API as shown in the following section.

4.2.5 Invoke the API using the Access Token

To invoke the API using the generated Access Token, do as shown in the following example using cURL Commands in the CLI Tool:

```
curl -iL -H "Authorization: Bearer <access token>" -H "Content-Type:
<content_type>" -d "<request_body>" --cacert <certificate(.pem)> -X
<http_verb> <api_url>

curl -iL -H "Authorization: Bearer <AUTH_TOKEN>"

-H "Content-Type: application/json" -d "{\"type\":\"files\",\"data\":
[{\"fileName\":\"testtoken\",\"mimeType\":\"text/plain\",\"fileSize\":
123}}]" --cacert outcert.pem -X POST https://<AFCS-URL>/<TENANT><APP_ID>/dsa/
utils/getObjStoreParUrl
```

4.2.6 Activate New User Accounts for API Invocation

Users must be activated in AFCS before invoking the APIs. You must perform one of the following option as a one time activity to activate new user accounts in AFCS.

1. Login to the AFCS application after credentials are generated.

OR

2. Invoke the User Activation API using the below details.
 - **Method** – POST
 - **REST Endpoint** - /identity-service/v1/provisioning
 - **API Request Payload** - null

```
curl -iL -H "Authorization: Bearer <access token>" -H "Content-Type:
<content_type>" --cacert <certificate(.pem)> -X POST https://<AFCS-URL>/
<tenant_id>/identity-service/v1/provisioning
```

4.3 Supported Methods

- **GET:** Retrieve information about the service instance.
- **POST:** Create, scale, backup, start, and stop the service instance.

4.3.1 Media Types

The following media type is supported by the Accounting Foundation Cloud Service REST APIs:

- application/json

4.4 Supported Headers

The REST API supports headers that may be passed in the header section of an HTTP Request or Response.

Table 4-1 Table: Supported Headers

Headers	Description	Example
Content-Type	The media type of the body of the request. Required for POST and PUT requests, and the supported types vary with each endpoint.	Content-Type: application/json
Accept	The media type of the body of the response.	Accept: application/json

4.5 Status Code

When you call the Accounting Foundation Cloud Service REST APIs Resources, the Response Header returns one of the standard HTTP Status Codes.

Table 4-2 Status Code

HTTP Status Code	Description
200 OK	The request was successfully completed. A 200 status is returned for a successful GET or POST Method.
201 Created	The request has been fulfilled and resulted in a new resource being created. The response includes a Location Header containing the canonical URI for the newly created resource. A 201 status is returned from a synchronous resource creation or an asynchronous resource creation that was completed before the response was returned.

Table 4-2 (Cont.) Status Code

HTTP Status Code	Description
202 Accepted	The request has been accepted for processing, but the processing has not been completed. The request may or may not eventually be acted upon, as it may be disallowed at the time the processing takes place. When specifying an Asynchronous (<code>__detached=true</code>) Resource creation (for example, when deploying an application), or update (for example, when redeploying an application), a 202 is returned if the operation is still in progress. If <code>__detached=false</code>, a 202 may be returned if the underlying operation does not complete in a reasonable amount of time.
400 Bad Request	The request could not be processed because it contains missing or invalid information (such as a validation error on an input field, a missing required value, and so on).
401 Unauthorized	The request is not authorized. The Authentication Credentials included with this request are missing or invalid.
403 Forbidden	The user cannot be authenticated. The user does not have the authorization to perform this request.
404 Not Found	The request includes a resource URI that does not exist.
405 Method Not Allowed	The HTTP verb specified in the request (DELETE, GET, POST, PUT) is not supported for this request URI.
406 Not Acceptable	The resource identified by this request is not capable of generating a representation corresponding to one of the media types in the Accept Header of the request. For example, the client's Accept Header request XML be returned, but the resource can only return JSON.
409 Conflict	The client's ContentType Header is not correct (for example, the client attempts to send the request in XML, but the resource can only accept JSON).
415 Not Acceptable	The client's ContentType Header is not correct (for example, the client attempts to send the request in XML, but the resource can only accept JSON).
500 Internal Server Error	The server encountered an unexpected condition that prevented it from fulfilling the request.

Table 4-2 (Cont.) Status Code

HTTP Status Code	Description
503 Service Unavailable	The server is unable to handle the request due to temporary overloading or maintenance of the server. The REST Web Application is not currently running.

5

Mandatory Authentication to be performed before calling any API

To call the API, follow these steps:

1. Open a relevant tool. For example: Postman, Command Prompt, and so on.
2. Copy only the Authorization Token that you got from the [Authentication Request](#).
3. Go to Header, and enter KEY as an **Authentication** and Description as a bearer (Authorization Token/ Refresh Token) <eyJ4NXQjUzI1NiI6Ikk3cWxndm1Kal...>.
4. Send a request using the **GET/POST** method based on the end point details. The request must be in the following format:

- **URL Examples:**

- `https://<HOST_NAME:PORT>/<TENANT>/dsa-ext/v1/data-access/keys/<connector_id>`
- `https://<HOST_NAME:PORT>/<TENANT>/dsa-ext/v1/fileupd/gen-par`
- `https://<HOST_NAME:PORT>/<TENANT>/public/downloadurl/export/{objCode}`
- `https://<HOST_NAME:PORT>/<TENANT>/public/status/export/{code}`

6

Generating PAR URL for File Operations

The PAR URL for File Operations API creates a PAR File that you can use to perform file operations in the Object Store for end-to-end integrations.

6.1 Generating PAR URL for File Upload

You can use this REST API to generate the PAR URL for File Upload. See the following sections for information on how to perform the post operation.

6.1.1 End Point Details

- **Method** – POST
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/dsa-ext/v1/fileupd/gen-par`
- **Content-Type** - Application/Json

6.1.1.1 Request JSON Parameters

This section provides the list of parameters in the JSON Request.

Table 6-1 Request JSON Parameters

Name	Type	Required	Description
fileName	STRING	Yes	The name of the file to be uploaded. The following are the conditions for to enter in this field: • Must start with an Alphanumeric Character • Allowed characters are alphabets, numbers, and special characters - hyphen(-), dot(.), and underscore(_) • Length of characters must not be greater than 255 characters
fileSize	INTEGER	Yes	The size of the file to be uploaded. The size of the file should be greater than 1 Byte and less than 7 GB.

Table 6-1 (Cont.) Request JSON Parameters

Name	Type	Required	Description
contentType	STRING	Yes	The mime type to be uploaded. The following mime types are allowed: • text/csv • text/plain • application/vnd.openxmlformat-officedocument.spreadsheetml.sheet

Request JSON Sample

```
[{
  "fileName": "File.csv",
  "fileSize": 7654,
  "contentType": "text/csv"
}, {
  "fileName": "File1.csv",
  "fileSize": 8765,
  "contentType": "text/csv"
}]
```

6.1.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 6-2 POST JSON Response

Name	Type	Description
code	STRING	The Status Code. The following is the list with details: - DS0000 - Success - DS0002- Service Not Found - DS0003 - Invalid JSON - DS0004 - Request Body is empty - DS0005 - File Name cannot be empty - DS0006 - File name [{0}] length cannot be greater than 255 characters - DS0007 - MIME type cannot be empty for {0} - DS0008 - Invalid MIME type specified for {0}. Supported MIME types : {1} - DS0009 - File size not specified for {0} - DS0010 - File size should be greater than 1B and less than 7GB for {0} - DS0012 - File {0} must start with an alphanumeric character and allowed characters in file name are alphanumeric characters, hyphen(-), dot(.), underscore(_)"
fileName	STRING	The name of the file to be uploaded.
uploadURL	STRING	The generated pre-authenticated URL to upload a file.
fileId	INTEGER	The unique File Identifier.

Response JSON Sample

```
{
  "code": "DS0000",
  "body": {
    "success": [{
      "filename": "File.csv",
      "uploadURL":
        "https://objectstorage.us-phoenix-1.oraclecloud.com/p/
        t7iU0y7009NXbFpXozqB5EJKvUv25VfzoK1j8e3yK_GgfHHeW9sCcWMDMI_IVRg4/n/
        oraclegbudevcorp/b/fsgbu_fsafnd_cndevcorp_h3ofin-prd_default/o/
        default/ett/wti/335fbbef-e160-4825-8974-3bf957c6dc00",
      "fileId": 34034
    }], {
      "filename": "File1.csv",
```

```
"uploadURL":
  "https://objectstorage.us-phoenix-1.oraclecloud.com/p/
e0xuvdJw6zSFF00hO-I1kwgko624ouF5CNevjTpWMSYpK3180CYJ4Xhkpx4P33cp/n/
oraclegbudevcorp/b/fsgbu_fsafnd_cndevcorp_h3ofin-prd_default/o/
default/asg/seo/f4ed02e4-581d-46a7-8ebc-c101261eeaf9",
"fileId": 34033
}], "failed": []
}
}
```

6.2 Generating PAR URL For File Download

You can use this REST API to generate the PAR URL for File Download. See the following sections for information on how to perform the post operation.

6.2.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /dsa-ext/v1/filedwd/gen-par
- **Content-Type** - Application/Json

Table 6-3 End Point Details

Name	Type	Required	Value
Content-Type	String	YES	application/json

6.2.1.1 Request JSON Parameters

Table 6-4 Request JSON Parameters

Name	Type	Required	Description
fileName	STRING	YES	The name of the file to be downloaded and the supported formats are CSV, XLSX, and TXT. For Example: ah_acct_period_16-Nov-2022.csv

Request JSON Sample

```
["ah_acct_period_16-Nov-2022.csv"]
```

6.2.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 6-5 Table: POST JSON Response

Name	Type	Description
fileName	STRING	The name of the file to be downloaded.
downloadURL	STRING	The generated pre-authenticated URL to download a file. The downloadURL is displayed only when the pre-authenticated URL exists and status of the file is Available .
code	STRING	The Status Code. The following is the list with details: • DS0000 - Success • DS0004 - Request Body is empty • DS0005 - File Name cannot be empty

Response JSON Sample

```
{
  "code": "DS0000",
  "body": {
    "success": [
      {
        "fileName": "ah_acct_period_16-Nov-2022.csv",
        "downloadURL":
          "https://objectstorage.us-phoenix-1.oraclecloud.com/p/
          ywJMqilN7geicAnRKLuFaX_UaGhVzBohk9fFe6i8EgWN6y6d__2fyN1K-ssixTeZ/n/
          oraclegbudevcorp/b/fsgbu_fsafnd_cndevcorp_qfgnhy-prd_default/o/
          default/jfm/cdq/761dac86-e187-495c-92cc-4f1760dfe839"
      }
    ],
    "failed": []
  }
}
```

7

Initiating a PMF Process

This section provides information on how to initiate a PMF process.

7.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/execute
- **Content-Type** - Application/Json

Table 7-1 End Point Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	No	application/json

After the pipeline is executed, `responseStatus` indicates “SUCCESS” or “failed” based on the result of the execution.

7.1.1 Request JSON Parameters

Table 7-2 Request JSON Parameters

Name	Type	Required	Description
SummaryPayload	OBJECT	Yes	This is an object with the properties mentioned below
objectId	STRING	Yes	Specify an unique string identifier for the execution. Allowed characters are alphabets , numbers, Hyphen(-),and Underscore(_) No other special characters are allowed For example: 'test123'
processID	STRING	Yes	Process ID of the Run Pipeline
objecttype	STRING	NO	Specify an empty string
locale	STRING	Yes	Specify values as 'en-us'
applicationparams	OBJECT	Yes	Specify values for the run time execution parameters.

Request JSON Sample

```
{
  "SummaryPayload": {
    "objectId": "$objectId",
    "processID": "1652966081449",
    "objecttype": "null",
    "locale": "en-US",
    "applicationparams":{"FIC_MIS_DATE":"2020-06-01"}
  }
}
```

7.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 7-3 Table: POST JSON Response

Name	Type	Description
processInstanceID	STRING	Instance Id of the Process being executed
stopExecutionFlag	STRING	Flag indicates if the execution stopped due to internal failure
processStatus	STRING	It indicates if the process execution has started Successfully/Failed
processID	STRING	Process ID of the Run Pipeline
workflowStatus	STRING	Status of the process execution
lastActivity	STRING	It is the next activity ID in the process to be executed
responseJSON	STRING	Response of a particular task, if any
responseStatus	STRING	Rest API standard status

Response JSON Sample

```
{
  "payload": {
    "processInstanceID": "1634536080515_3f80680b-3276-42ac-a41c-a573d0697c23",
    "stopExecutionFlag": false,
    "processStatus": "SUCCESS",
    "processID": "1634536080515",
    "workflowStatus": "COMPLETED",
    "lastActivity": "Job_1583994521890",
    "responseJSON": "",
    "responseStatus": "SUCCESS"
  }
}
```

8

Viewing Ingested Data

The APIs allow you to view the data loaded into the system using the Ingestion Connector. You are required to follow the two-step process described in this topic. The first step is to use the Metadata Keys API to fetch the Metadata Keys. The second step is to use the Metadata Keys in the Retrieve Data using the Metadata Keys API.

8.1 Prerequisites

The following are the prerequisites to use the APIs listed in this section:

- Users must be mapped to the Data Access User Group (AFCSDTACCGRP).
- Users must get the Connector ID.
For more information on how to get the Connector ID, see the below links
 - [Getting the Connector Metadata Key from the Data Catalog Viewer](#)
 - [Getting the Connector Metadata Key from the Connector Details page](#)
- Users must have all the details required to invoke the APIs.
For more information, see [Executing Pipeline Using an API](#).

8.2 Get Metadata Keys

Use the Get method to fetch the Metadata Keys. The Get Metadata Keys API enables you to fetch the Business Term Codes for the Target that is used in the Connector. You can use the Business Term Codes in the Retrieve Data Using the Metadata Keys API request to retrieve data.

8.2.1 End Point Details

- **Method** – GET
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/dsa-ext/v1/data-access/keys/<connector_id>`
- **Content-Type** - application/json

8.2.1.1 Request JSON Parameters

There is no payload to be submitted during API invocation.

8.2.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 8-1 POST JSON Response

Name	Type	Description
name	STRING	Connector name.
code	INTEGER	Connector Metadata Key
attributes	ARRAY	Business Term Attributes · name - The Business Term Name. This is a STRING. · code - The Business Term Code. This is a STRING.

Response JSON Sample

```
{  
  
  "code": "DIH0000",  
  
  "body": {  
  
    "name": "EXAMPLE_CONN_CDS_MT",  
  
    "code": "820",  
  
    "attributes": [{  
  
      "name": "As Of Date",  
  
      "code": "BT01375"  
  
    }, {  
  
      "name": "Joining Credit Score",  
  
      "code": "BT02010"  
  
    }, {  
  
      "name": "Original Account Number",  
  
      "code": "BT02726"  
  
    }, {  
  
      "name": "Account Or Contract Number",  
  
      "code": "BT053"  
  
    }, {  
  
      "name": "Address Identifier",  
  
      "code": "BT0126"
```



```
    }, {  
  
    "name": "Address Line One",  
  
    "code": "BT0127"  
  
    }, {  
  
    "name": "As Of Date",  
  
    "code": "BT01375"  
  
    }, {  
  
    "name": "Account Or Contract Numeric Identifier",  
  
    "code": "BT03956"  
  
    }, {  
  
    "name": "Address Numeric Identifier",  
  
    "code": "BT03959"  
  
    }  
  ]  
}  
}
```

8.3 Retrieve Data Using the Metadata Keys

Pass the Business Term Codes received in the response from the Get Metadata Keys API in the Retrieve Data using the Metadata Keys API request to retrieve data. You can specify a filter. However, the filter expression allows only one column.

The API retrieves the JSON response payload data up to 5MB.

8.3.1 End Point Details

- **Method** – POST
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/dsa-ext/v1/data-access/data/<connector_id>`
- **Content-Type** - application/json

8.3.1.1 Request JSON Parameters

Table 8-2 JSON Request

Name	Type	Required	Description
attr_filter	STRING	Yes	Business Term Codes from the Get Metadata Keys API. NOTE: · The Business Term Codes must be enclosed within square brackets ([]).
data_filter	OBJECT	Yes	Key is the Business Term Code and the value is the corresponding value for the Business Term Code. For example: "data_filter": { "BTO1375": "01-Apr-2022" } NOTE: · The filter expression allows only one column.

Request JSON Sample

```
{  
  "attr_filter": ["BTO1375", "BTO2010", "BTO2726", "BTO53",  
    "BTO126", "BTO127", "BTO1375", "BTO3956", "BTO3959"],  
  "data_filter": { "BTO1375": "01-Apr-2022" }  
}
```

8.3.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 8-3 POST JSON Response

Name	Type	Description
name	STRING	Logical Entity Name used in the Connector.

Table 8-3 (Cont.) POST JSON Response

Name	Type	Description
data	ARRAY	Key is the Business Term Code and the value is the corresponding value present in the table for the Business Term Code.

Response JSON Sample

```
{
  "code": "DIH0000",
  "body": [{
    "name": "Account",
    "data": [{
      "BT053": "5",
      "BT03956": "5",
      "BT01375": "2022-04-01 00:00:00",
      "BT02726": " ",
      "BT02010": " "
    }, {
      "BT053": "55",
      "BT03956": "55",
      "BT01375": "2022-04-01 00:00:00",
      "BT02726": " ",
      "BT02010": " "
    }
  ]
}, {
  "name": "Address",
  "data": [{
    "BT03959": "5",
```

```
"BTO1375": "2022-04-01 00:00:00",  
  
"BTO126": "abcd",  
  
"BTO127": " "  
  
}, {  
  
"BTO3959": "55",  
  
"BTO1375": "2022-04-01 00:00:00",  
  
"BTO126": "abcde",  
  
"BTO127": " "  
  
}]  
  
}]  
  
}
```

9

Abort PMF Execution Process

This section provides information on how to abort a PMF Execution process. This API aborts execution for given process Instance ID.

9.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/abortprocess
- **Content-Type** - Application/Json

Table 9-1 End Point Details

Name	Type	Required	Value
processInstanceId	String	Yes	"1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f"

After the pipeline is executed, status indicates "true" or "false" based on the result of the execution.

9.1.1 Request JSON Parameters

Table 9-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceId	STRING	Yes	Instance Id of the Process being aborted

Request JSON Sample

```
{
  "processInstanceId": "1661750871424_96680f3d-8fd6-4602-86e7-38bbcded6e60"
}
```

9.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 9-3 POST JSON Response

Name	Type	Description
processInstanceId	STRING	Instance Id of the Process being aborted
message	STRING	It indicates the process message description For example: Process is already running
status	STRING	Status of the process execution. · Success: True · Failed: False

Table 9-4 Possible Status Codes

Status Code	Description
200	Process is aborted
200	Process is already completed or failed, so the process cannot be cancelled
200	Process Instance ID is not passed
500	Not valid request
401	Unauthorized request

Response JSON Sample

```
{  
  
    "message": "Process instance id is not passed",  
  
    "status": false  
}
```

10

Resume PMF Execution Process

This section provides information on how to Resume a PMF Execution process. This API resumes the process which is in Failed or Cancelled state.

10.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/resumeprocess
- **Content-Type** - Application/Json

Table 10-1 End Point Details

Name	Type	Required	Value
processInstanceId	String	Yes	"1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f"

After the pipeline is executed, status indicates "true" or "false" based on the result of the execution.

10.1.1 Request JSON Parameters

Table 10-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceId	STRING	Yes	Instance Id of the Process being resumed

Request JSON Sample

```
{
  "processInstanceId": "1661750871424_96680f3d-8fd6-4602-86e7-38bbcded6e60"
}
```

10.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 10-3 POST JSON Response

Name	Type	Description
processInstanceId	STRING	Instance Id of the Process being resumed
message	STRING	It indicates the process message description For example: Process is already running
status	STRING	Status of the process execution · Success: True · Failed: False

Table 10-4 Possible Status Codes

Status Code	Description
200	Process is resume
200	Process is already running
200	Process is already completed, so the process cannot be resumed
400 bad request	Process Instance ID is not passed
500	PMF Execution service issue
401	Unauthorized request

Response JSON Sample

```
{
  "message": "Process is Resume",
  "status": true
}
```


11

Rerun PMF Execution Process

This section provides information on how to Rerun a PMF Execution process. This API enables to rerun the triggered PMF execution for a given process Instance ID.

11.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/rerunprocess
- **Content-Type** - Application/Json

Table 11-1 End Point Details

Name	Type	Required	Value
processInstanceId	String	Yes	"1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f"

After the pipeline is executed, status indicates "true" or "false" based on the result of the execution.

11.1.1 Request JSON Parameters

Table 11-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceId	STRING	Yes	Instance Id of the Process being Rerun

Request JSON Sample

```
{
  "processInstanceId": "1661750871424_96680f3d-8fd6-4602-86e7-38bbcded6e60"
}
```

11.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 11-3 POST JSON Response

Name	Type	Description
processInstanceID	STRING	Instance Id of the Process being Rerun
message	STRING	It indicates the process message description For example: Process has been run
status	STRING	Status of the process execution. • Success: True • Failed: False

Table 11-4 Possible Status Codes

Status Code	Description
200 ok	Successful response (a new process instance id will be shared for rerun process)
400 bad request	Process ID or Process Instance ID is not passed
500	PMF execution service issue
401	Unauthorized request
200	Wrong Process Instance ID

Response JSON Sample

```
{
  "PROCESS_INSTANCE_ID": "1661750871424_7ab3f4a7-4eef-409e-
aa9c-6345bb9e4a4e",
  "message": "Process has been Rerun",
  "status": true
}
```

12

Fetching the PMF Execution status

This section provides information on how to fetch a PMF Execution status. This API helps to fetch various execution statuses for a given PMF Process execution for a given process Instance ID. The statuses can contain one or more values such as COMPLETED/RUNNING/CANCELLED/FAILED.

12.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/execute/status
- **Content-Type** - Application/Json

Table 12-1 End Point Details

Name	Type	Required	Value
processInstanceId	String	Yes	"1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f"

After the pipeline is executed, status indicates "RUNNING" , "FAILED","CANCELLED" or "COMPLETED",based on the result of the execution.

12.1.1 Request JSON Parameters

Table 12-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceId	STRING	Yes	Process Instance ID of the PMF Execution

Request JSON Sample

```
{
  "processInstanceIdList": [
    "1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f",
    "1658313898588_cf0ed63a-8176-495b-ba15-633a33cf9d0c"
  ]
}
```

```
}
```

12.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 12-3 POST JSON Response

Name	Type	Description
processInstanceID	STRING	Process Instance ID of the PMF Execution
status	STRING	Status of the PMF Execution

Response JSON Sample

```
{
  "processExecutionStatus": [
    {
      "process_instance_id": "1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f",
      "status": "RUNNING"
    },
    {
      "process_instance_id": "1706599081911_2927df7b-6aa5-4b72-b7a2-d66b5dbe80c4",
      "description": "Error Occurred while Processing. Please retry.",
      "status": "FAILED"
    }
  ]
}
```

13

Searching a File

This section provides information on how to perform an advance search of a file.

13.1 End Point Details

- Method – POST
- REST Endpoint - /dsa-ext/v1/fileopt/search-file
- Content-Type - Application/Json

The following table lists the Request Headers

Table 13-1 Request Headers-Searching a File

Name	Type	Required	Value
Content-Type	String	NO	application/json

13.1.1 Request JSON Parameters

The following table lists the Request Body.

Table 13-2 Request JSON Parameters - Searching a File

Name	Type	Required	Description
OrdeByCode	INTEGER	No	The files are sorted based on the inputs provided: • 1 - Sorts the file name from A to Z • 2 - Sorts the file name from Z to A • 3 - Displays the Recent First files • 4 - Displays the Recent Last files For Example: 3
offset	INTEGER	No	Specify a value that will skip the N first rows in a result set before starting to return any rows For Example: 1
fetchSize	INTEGER	No	Specify the number of files to be fetched in the result set. For Example: 100

Table 13-2 (Cont.) Request JSON Parameters - Searching a File

Name	Type	Required	Description
nameStr	STRING	No	Specify the name of the file For Example: CASA Statement
executionId	STRING	No	Specify the execution ID of the file
processId	STRING	No	Specify the process ID or Process Instance ID of the file
startDate	STRING	No	Specify the start date of the file in the yyyy-MM-dd HH:mm:ss format For Example: 2022-01-01 11:20:50
endDate	STRING	No	Specify the end date of the file in the yyyy-MM-dd HH:mm:ss format For Example: 2022-09-13 06:39:42
minFileSize	INTEGER	No	Specify the minimum size of the file in bytes For Example:200
maxFileSize	INTEGER	No	Specify the maximum size of the file in bytes For Example: 8053063680

Request JSON Sample

```
{"orderByCode": 3,"offset": 0,"fetchSize": 100,"nameStr":  
"test","executionId": "141","processId": "1661867637887","startDate":  
"2022-01-01 00:00:00","endDate": "2022-09-13 06:39:42","minFileSize":  
0,"maxFileSize": 8053063680}
```

13.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

The following table provides details for the query parameters returned in the response body.

Table 13-3 POST JSON Response

Name	Type	Description
Id	STRING	The file Identifier
name	STRING	The file name

Table 13-3 (Cont.) POST JSON Response

Name	Type	Description
type	STRING	The file type. The response is either 'text/plain' for TXT files or 'text/csv' for CSV files
length	STRING	The file size in bytes
status	STRING	The status of the file. The response can be any of the following: INITIALIZED, UPLOADING, or AVAILABLE
createdDate	STRING	The creation date of the file
createdBy	STRING	The user name who has created the file
updatedAt	STRING	The files that were updated on a specific date For Example: 2022-08-30 17:37:16
procId	STRING	The Process ID of the file
executionId	STRING	The Execution ID of the file
procInstanceId	STRING	The Process Instance ID of the file
updatedBy	STRING	The user name who has updated the file

Response JSON Sample

```
{  
  
  "code": "DIH0000",  
  
  "body": [{  
  
    "id": "2",  
  
    "name": "extract_address_master.txt",  
  
    "type": "text/plain",  
  
    "length": "233",  
  
    "status": "AVAILABLE",  
  
    "createdDate": "2022-08-30 17:36:57",  
  
    "createdBy": "ADMIN",  
  
    "updatedAt": "2022-08-30 17:37:16",  
  
    "procId": "1661867637887",  
  
    "executionId": "141",  
  
  ]  
}
```

```
"procInstanceId": "1661867637887_74c5b9c3-9814-46e5-  
ba7e-1f48ce443bdb",  
  
"updatedBy": "filestore"  
  
}  
  
]  
  
}
```


14

Fetching Running Instances for a PMF Process

This section provides information about fetching the running instances at a given point of time for given PMF processes.

14.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/runningprocess
- **Content-Type** - Application/Json

Table 14-1 Request Headers Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	Yes	application/json

14.1.1 Request JSON Parameters

Table 14-2 Request JSON Parameters

Name	Type	Required	Description
processIdList	List / Array	Yes	List of PMF process IDs

Request JSON Sample

```
{
  "processIdList": ["1674558863949", "1674559835207", "1676379514000"]
}
```

14.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 14-3 POST JSON Response

Name	Type	Description
processInstanceID	STRING	Process Instance ID of the given PMF processes that are in running status.

Response JSON Sample

```
{
  "processExecutionDetails": {
    "1676379514000": [
      [
        "1676379514000_4a18d34c-e4dc-4e33-9f23-75c5ee393b37"
      ]
    ],
    "1674559835207": [
      [
        "1674559835207_a5313228-37ac-49b1-a7e2-5b5b8fb6fc35",
        "1674559835207_eec54012-543f-4570-89a1-1c2681ec9bd5"
      ]
    ]
  }
}
```

Fetching the Process Execution Details

This section provides information on how to fetch a Process Execution details for a given process. This API helps to fetch various execution statuses for a given PMF Process execution for a given process Instance ID.

15.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/PMFService/processExecutionDetails
- **Content-Type** - Application/Json

Table 15-1 Request Headers Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	Yes	application/json

15.1.1 Request JSON Parameters

Table 15-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceIdList	List / Array	Yes	List of Process Instance ID of the PMF Execution

Request JSON Sample

```
{
  "processInstanceIdList":["PR_1675402120841_7676d87f-4149-49a6-8d1d-
e6749c92e7e
3" ,
"1863610075777_bc5a34f8-449a-4de2-beb8-6f53cc18b7d1",
"1675687537927_b02e5936-ba1c-4deb-9ceb-458aace3ccfc",
"1675832221284_0e86d104-a7c0-4986-8cf0-d67aa360b3ad"]
}]'
```

15.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 15-3 POST JSON Response

Name	Type	Description
process_owner	STRING	Process owner of the PMF execution
execution_start_time	DATETIME	Start time of the PMF execution
mis_date	DATE	MISDATE of the PMF execution
runskey	STRING	RUNSKEY of the PMF execution
process_instance_id	STRING	Process Instance ID of the PMF Execution
execution_end_time	DATETIME	End time of the PMF execution
status	STRING	Status of the PMF Execution

Response JSON Sample

```
{
  "processExecutionDetails":
  [
    {
      "process_owner": "dummyuser",
      "execution_start_time": "2023-02-03 05:28:51",
      "mis_date": "20230203",
      "runskey": "8",
      "process_instance_id": "PR_1675402120841_7676d87f-4149-49a6-8d1d-e6749c92e7e3",
      "execution_end_time": "2023-02-03 05:33:56",
      "status": "FAILED"
    },
    {
      "process_owner": "SYSADMN",
      "execution_start_time": "2023-02-01 05:24:19",
      "mis_date": "20230201",
      "runskey": "1",
      "process_instance_id": "1863610075777_bc5a34f8-449a-4de2-beb8-6f53cc18b7d1",
      "execution_end_time": "2023-02-01 05:33:55",
      "status": "FAILED"
    },
    {
      "process_owner": "dummyuser",
      "execution_start_time": "2023-02-06 12:51:09",
      "mis_date": "20230206",
      "runskey": "10",
      "process_instance_id": "1675687537927_b02e5936-balc-4deb-9ceb-458aace3ccfc",
      "execution_end_time": "2023-02-06 12:58:43",
      "status": "COMPLETED"
    }
  ]
}
```

16

Fetching the PMF Dashboard Process Status

This API helps fetch process instance status with start and end time for a given Process Instance ID. The statuses can contain one or more values such as ALL, COMPLETED, RUNNING, CANCELLED, FAILED.

16.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/DashboardService/process/status
- **Content-Type** - Application/Json

Table 16-1 End Point Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	No	application/json

16.1.1 Request JSON Parameters

Table 16-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceIdList	STRING	Yes	The unique value that identifies the process instance.
filter-process_status	STRING	Yes	Status of the PMF process. If the filter is not provided, PMF will fetch all the processes.

Request JSON Sample

```
{
  "processInstanceIdList": [
    "1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f",
    "1658313898588_cf0ed63a-8176-495b-ba15-633a33cf9d0c"
  ],
  "filter": {
    "process_status": "ALL / COMPLETED / RUNNING / CANCELLED / FAILED"
  }
}
```

16.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response. Based on the process status provided, the responses will vary.

Table 16-3 POST JSON Response

Name	Type	Description
process_instance_id	STRING	The unique value that identifies the process instance.
process_name	STRING	Name of the PMF process.
status	STRING	Status of the PMF process.
run_sk	STRING	The unique number created for each instance.
start_time	STRING	Execution time of the PMF process.
end_time	STRING	End time of the PMF process.
runParameterName	STRING	The input parameters provided to execute this process.
fic_mis_date	STRING	MIS Date of the PMF process.
datasource	STRING	The data sources associated with the PMF process.

Response JSON Sample

```
{
  "processExecutionStatus": [
    {
      "process_instance_id": "1669614669524_122ba2eb-
cc1d-4abb-939e-b0facb6a6ed2",
      "process_name": "BCE Execution",
      "process_id": "1669614669524",
      "status": "FAILED",
      "run_sk": "2321321",
      "start_time": "12-07-2023 12:00:01 PM",
      "end_time": "12-07-2023 12:56:01 PM",
      "runParameterName":["As of Date","Datasource","Run
Description"],
      "fic_mis_date":"07/12/2023",
      "datasource":["Loans", "Options", "Futures"],

      "duration":"12:00:00 PM",

      "metric" :{

        "code":"volume",

        "value":"10000"

      }
    }
  ]
}
```

}

Fetching the PMF Dashboard Activities

This API helps fetch all the activities with start time, end time, and status of a process instance for one or multiple Process Instance IDs. The statuses can contain one or more values such as ALL, COMPLETED, RUNNING, CANCELLED, or FAILED.

17.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/DashboardService/activity/status
- **Content-Type** - Application/Json

Table 17-1 End Point Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	No	application/json

17.1.1 Request JSON Parameters

Table 17-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceIdList	STRING	Yes	The unique value that identifies the process instance.
filter-activity status	STRING	Yes	Status of the Activity. If filter is not provided, all activities will be fetched.

Request JSON Sample

```
{
  "processInstanceIdList": [
    "1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f",
    "1658313898588_cf0ed63a-8176-495b-ba15-633a33cf9d0c"
  ],
  "filter": {
    "activity_status": "ALL / COMPLETED / RUNNING / CANCELLED / FAILED"
  }
}
```


17.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response. Based on the activity status provided, the responses will vary.

Table 17-3 POST JSON Response

Name	Type	Description
process_instance_id	STRING	The unique value that identifies the process instance.
activity_id	STRING	The unique ID of the activity.
activity_name	STRING	Name of the activity.
status	STRING	Status of the activity.
Component	STRING	Name of the component.
latest_event	STRING	The latest event of the activity.
start_time	STRING	Start time of the activity.
end_time	STRING	End time of the activity.

Response JSON Sample

```
{
  "activityExecutionStatus": [
    {
      "process_instance_id": "1669614669524_122ba2eb-
cc1d-4abb-939e-b0facb6a6ed2",
      "activity_list": [
        {
          "activity_id": "JOB122321434234",
          "activity_name": "DQ JOB1",
          "status": "FAILED",
          "component": "DQGROUPE",
          "latest_event": "DQNULLGRPDUP01 is failed",
          "start_time": "12-07-2023 12:00:01 PM",
          "end_time": "12-07-2023 12:56:01 PM",

          "duration": "",

          "metric" :{

            "name":"volume",

            "value":"10000"

          }

        },
        {
```

```
        "activity_id": "JOB12232146456",  
        "activity_name": "bce run",  
        "status": "RUNNING",  
        "component": "BCE",  
        "latest_event": "DQNULLGRPDUP01 is running",  
        "start_time": "12-07-2023 12:00:01 PM",  
        "end_time": "",  
  
        "duration":""  
    }  
]  
}
```

18

Fetching all the Events of an Activity

This API helps fetch all the events of an activity.

18.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /pmf-exec/rest-api/v1/DashboardService/activity/events
- **Content-Type** - Application/Json

Table 18-1 End Point Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	No	application/json

18.1.1 Request JSON Parameters

Table 18-2 Request JSON Parameters

Name	Type	Required	Description
process_instance_id	STRING	Yes	The unique value that identifies the process instance.
activity_id	STRING	Yes	The unique ID of the activity.

Request JSON Sample

```
{
  "activityEventStatusRequest": [
    {
      "process_instance_id": "1658311255081_fa6a579a-d2f2-4455-8be3-f8b35022ba7f",
      "activity_id": "JOB122321434234"
    },
    {
      "process_instance_id": "1658313898588_cf0ed63a-8176-495b-ba15-633a33cf9d0c",
      "activity_id": "JOB122327648732648"
    }
  ]
}
```

18.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 18-3 POST JSON Response

Name	Type	Description
process_instance_id	STRING	The unique value that identifies the process instance.
activity_id	STRING	The unique ID of the activity.
event_error_code	STRING	Error code for the event.
event_message	STRING	Message for the event.
event_error_description	STRING	Error description.
time_stamp	STRING	The execution time of the event.
event_name	STRING	The unique name of the event.
value	STRING	The value provided to the event.

Response JSON Sample

```
{
  "activityEventList": [
    {
      "process_instance_id": "1658311255081_fa6a579a-
d2f2-4455-8be3-f8b35022ba7f",
      "activity_events":
      {
        "activity_id": "JOB122321434234",
        "event_error_code": "INVALID_DQ_GRP",
        "event_message": "message",

        "event_error_description":"This dq group is
invalid",
        "event_parameters": [
          {
            "timestamp": "12-07-2023 12:00:01 PM",
            "event_name": "Rules Completed",
            "value": "1/2"
          },
          {
            "timestamp": "12-07-2023 12:05:01 PM",
            "event_name": "Rules Running",
            "value": "2"
          }
        ]
      }
    }
  ]
}
```

19

Fetching all the PMF Dashboard Events

This API fetches all the process/activity events based on the Process Instance ID.

19.1 End Point Details

- **Method** – POST
- **REST Endpoint** - pmf-exec/rest-api/v1/DashboardService/process/instancedetails
- **Content-Type** - Application/Json

Table 19-1 End Point Details

Name	Type	Required	Value
ofs_service_id	String	Yes	OFS_FSAFND
Content-Type	String	No	application/json

19.1.1 Request JSON Parameters

Table 19-2 Request JSON Parameters

Name	Type	Required	Description
processInstanceIdList	STRING	Yes	The unique value that identifies the process instance.

Request JSON Sample

```
{
  "processInstanceIdList": [
    "AFCS_SYS_SCD_PROC_34327e31-20c8-31c5-1784-56e37f4409aa",
    "1697535489556_f66cf577-67f6-4307-9aad-450afcf18d13"
  ]
}
```

19.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 19-3 POST JSON Response

Name	Type	Description
run_sk	STRING	The unique number created for each instance.
duration	STRING	The duration of the process/activity.
process_instance_id	STRING	The unique value that identifies the process instance.
activity_id	STRING	The unique ID of the activity.
datasource	STRING	The data sources associated with the PMF process.
activity_name	STRING	Name of the activity.
status	STRING	Status of the process/activity.
Component	STRING	Name of the component.
latest_event	STRING	The latest event of the activity.
start_time	STRING	Start time of the process/activity.
end_time	STRING	End time of the process/activity.
metrics	STRING	Contains Code and Value of the activity

Response JSON Sample

```

{
  "processExecutionStatus": [
    {
      "run_sk": "32",
      "duration": "02:30:00",
      "process_id": "AFCS_SYS_SCD_PROC",
      "start_time": "09-10-2023 08:00:00 AM",
      "process_name": "Dimension Population Process",
      "datasource": [
        "Loans"
      ],
      "activity_info": [
        {
          "duration": "00:30:00",
          "activity_name": "Business Segment Hierarchy
Population",
          "start_time": "09-10-2023 10:00:00 AM",
          "component": "CONNECTOR",
          "metric": {
            "code": "Processed Records",
            "value": "12500 (Records)"
          },
          "activity_id": "JOB_CONNECTOR_2",
          "end_time": "09-10-2023 10:30:00 AM",
          "latest_event": "Processing",
          "status": "COMPLETED"
        }
      ]
    }
  ]
}

```

```

    },
    {
      "duration": "00:30:00",
      "activity_name": "Branch Hierarchy Population",
      "start_time": "09-10-2023 09:30:00 AM",
      "component": "CONNECTOR",
      "metric": {
        "code": "Processed Records",
        "value": "12500 (Records)"
      },
      "activity_id": "JOB_CONNECTOR_1",
      "end_time": "09-10-2023 10:00:00 AM",
      "latest_event": "Processing",
      "status": "COMPLETED"
    },
    {
      "duration": "00:30:00",
      "activity_name": "Account Hierarchy Population",
      "start_time": "09-10-2023 09:00:00 AM",
      "component": "CONNECTOR",
      "metric": {
        "code": "Processed Records",
        "value": "12500 (Records)"
      },
      "activity_id": "JOB_CONNECTOR_0",
      "end_time": "09-10-2023 09:30:00 AM",
      "latest_event": "Processing",
      "status": "COMPLETED"
    },
    {
      "duration": "01:00:00",
      "activity_name": "Business Unit Hierarchy Population",
      "start_time": "09-10-2023 08:00:00 AM",
      "component": "CONNECTOR",
      "metric": {
        "code": "Processed Records",
        "value": "12500 (Records)"
      },
      "activity_id": "JOB_CONNECTOR_3",
      "end_time": "09-10-2023 09:00:00 AM",
      "latest_event": "Processing",
      "status": "COMPLETED"
    }
  ],
  "process_instance_id":
  "AFCS_SYS_SCD_PROC_34327e31-20c8-31c5-1784-56e37f4409aa",
  "As of Date": "07/27/2023",
  "end_time": "09-10-2023 10:30:00 AM",
  "runParameterName": [
    "As of Date",
    "Data Source"
  ],
  "status": "COMPLETED"
},
{

```

```

"run_sk": "40",
"duration": "00:01:18",
"process_id": "1697535489556",
"start_time": "10-17-2023 09:41:15 AM",
"process_name": "test_dummy12",
"activity_info": [
  {
    "duration": "00:01:14",
    "activity_name": "RUN DQ RULE",
    "start_time": "10-17-2023 09:41:19 AM",
    "component": "DQGROUPS",
    "event_info": [
      {
        "activity_id": "JOB_CONNECTOR_1",
        "timestamp": "10-17-2023 09:42:22 AM",
        "Event Message": "message received is
invalid",
        "Event Error Code": "INVALID_INPUT_MSG",
        "event_parameters": [
          {
            "event_name": "Rule Running",
            "value": "0"
          },
          {
            "event_name": "DQ Group",
            "value": "~~DQDC.DQ_GRP_NAME~~"
          },
          {
            "event_name": "Rule Completed",
            "value": "0/0"
          },
          {
            "event_name": "Erroneous Records",
            "value": "0"
          },
          {
            "event_name": "Rule Pending",
            "value": "0"
          }
        ]
      }
    ],
    "metric": {},
    "activity_id": "JOB_169753549288714",
    "end_time": "10-17-2023 09:42:33 AM",
    "latest_event": "message received is invalid",
    "status": "FAILED"
  }
],
"process_instance_id":
"1697535489556_f66cf577-67f6-4307-9aad-450afcf18d13",
"end_time": "10-17-2023 09:42:33 AM",
"status": "FAILED"
}

```



```
} ]
```

Fetching details of Data Quality that are breaching the Threshold Limit

This section provides information about fetching details of DQ groups whose threshold limit has been breached for a given Process Instance ID.

20.1 End Point Details

- **Method** – GET
- **REST Endpoint** - /dcaf/ext/v1/thresholdBreachedGroups/{processInstanceId}
- **Content-Type** - application/json

20.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 20-1 POST JSON Response

Name	Type	Description
runskKey	STRING	The RUNSKEY of the Process Instance.
misDate	STRING	The MISDATE of the Process Instance.
groupName	STRING	DQs that breached the threshold limit.

Response JSON Sample

```
{
  "runSkey": "10",
  "misDate": "20231124",
  "thresholdBreachedDQGroups": [

    { "groupName": "STG_ACCOUNT_STATUS_MASTER", "dataSource": ["ABC", "XYZ"] }
    ,

    { "groupName": "STG_TRANSACTION_MASTER", "dataSource": ["SRC1"] }
    ,

    { "groupName": "OptionCtrGrp500", "dataSource": [] }
  ]
}
```

Object Migration APIs

This section provides information on Object migration APIs.

Object Migration is the process of defining, exporting and importing objects across environments (prod and non-prod)/instances. This feature also facilitates to migrate within the same setup or different setups.

Objects refer to the various metadata definitions defined for various domains. You may want to migrate objects for several reasons such as manage global deployments on multiple environments or to create multiple environments so that you can separate the development, testing, and production processes.

For example, you can use the object migration feature to define PMF process object such as balance computation on your testing environment. After successful testing, you can use this feature to export the object to production/non-production environment.

Following are the steps to trigger export/import through public APIs:

**Note:**

Follow the steps in the below sequence:

The below APIs are for Exporting objects.

1. Call the Export definition API providing the objects that needs to be exported. The definition of export is persisted against the migration Code.
2. Use the export migration code and call the Invoke export API.
3. Call the Export status API to know the status of the triggered export for a given migration code.
4. Once export is successful, call the Get Download URL API to fetch the file URL for given export DMP file.

The below APIs are for Importing objects.

5. Call the Create import definition API and the pass the following parameters "migrationCode", "fileName", "dmpFileURL", "failOnErrorOptions", and "overWriteOptions".
6. Call the Update import definition API to change run time parameters "failOnErrorOptions", and "overWriteOptions". This is an optional step.
7. Use the import migration code and call the Invoke Import API.
8. Call the Import status API to know the status of triggered import for a given migration code.

The following table lists the Request Headers

Table 21-1 Request Headers

Name	Type	Required	Example
ofs_tenant_id	STRING	Yes	r0e17y-prd
locale	STRING	Yes	en-US
ofs_remote_user	STRING	Yes	afcsqa
ofs_workspace_id	STRING	Yes	WS001
ofs_service_id	STRING	Yes	OFS_FSAFND
Content-Type	STRING	Yes	application/json

21.1 Create Export Definition

This section provides information on Export definition API providing the objects that needs to be exported.

21.1.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /aai-object-migration-service/v1/public/migrate/export/outline
- **Content-Type** - Application/Json

21.1.1.1 Request JSON Parameters

Table 21-2 Request JSON Parameters

Name	Type	Required	Description
migrationCode	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore.
objectCode	STRING	Yes	Object code that needs to be exported. The Object codes listed in export definition should be present in source system from where its being migrated.
objectType	STRING	Yes	Object type that needs to be exported. This Object type must be in capital case and is case sensitive.

Request JSON Sample

```
{  
  
  migrationCode:"PublicExport005"  
  
  "exportObjects": [  
  
    {  
  
      "objectCode":"1663740031831",  
  
      "objectType":"PMF_PROCESS"  
  
    } ,  
  
    {  
  
      "objectCode":"1863610075777",  
  
      "objectType":"PIPELINE"  
  
    }  
  
  ]  
  
}
```

21.1.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-3 POST JSON Response

Name	Type	Description
migrationCode	STRING	Migration code of the object.
errorMessage	STRING	Details of the export process. For example: Outline Save Failed for migrationCode.
statusCode	STRING	It indicates the status code of the service. For example:OUTLINE_SAVE_FAILED.
status	STRING	Status of the migration • Success • Failed

Table 21-4 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal Server error

Response JSON Samples

Success:200

```
{
  "migrationCode": "PublicExport005"
  "errorMessage": "",
  "statusCode": "EXPORT_OUTLINE_SAVED",
  "status": "SUCCESS"
}
```

Error:400

```
{
  "migrationCode": "PublicExport005"
  "errorMessage": "object list cant be empty",
  "statusCode": "INVALID_INPUT",
  "status": "FAILED"
}
```

21.2 Invoke Export

This section provides information on Invoke Export API. The invoke export is fetched against the Migration code.

21.2.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /aai-object-migration-service/v1/public/migrate/export/{code}
- **Content-Type** - Application/Json

Table 21-5 End Point Details

Name	Type	Required	Value
code	String	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore. For example: "PublicExport005"

21.2.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-6 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the export process. For example: Export already completed.
statusCode	STRING	It indicates the status code of the service. For example: EXPORT_ALREADY_COMPLETED
status	STRING	Status of the migration: • Success • Failed • In Process

Table 21-7 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal server error

Response JSON Samples

Success:200

```
{
  "errorMessage": "",
  "statusCode": "TRIGGERED_SUCCESS",
  "status": "SUCCESS"
}
```

```
Error: 400
```

```
{
  "errorMessage": "Export already completed",
  "statusCode": "EXPORT_ALREADY_COMPLETE",
  "status": "FAILED"
}
```

21.3 Get Status for Export

This section provides information on Get Status for Export API. The export migration status is fetched against the given Migration code.

21.3.1 End Point Details

- **Method** – GET
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/aai-object-migration-service/v1/public/status/export/{code}`
- **Content-Type** - Application/Json

Table 21-8 End Point Details

Name	Type	Required	Value
code	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore. For example: "PublicExport005"

21.3.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-9 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the export process. For example: Migration code does not exist
statusCode	STRING	It indicates the status code of the service. For example: INVALID_INPUT

Table 21-9 (Cont.) POST JSON Response

Name	Type	Description
status	STRING	Status of the migration • Success • Failed • In Process • Saved

Table 21-10 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal server error

Response JSON Sample

Success:200

```
{
  "errorMessage": "",
  "statusCode": "STATUS_FETCHED",
  "status": "SUCCESS"
}
```

Error: 400

```
{
  "errorMessage": "Migration code does not exist",
  "statusCode": "INVALID_INPUT",
  "status": "FAILED"
}
```

Error :500

```
{
  "errorMessage": "Internal Server Error",
  "statusCode": "INTERNAL_SERVER_ERROR",
  "status": "FAILED"
}
```

21.4 Get Download URL for DMP file

This section provides information on how to Get Download URL for DMP file. The Download URL for DMP file is fetched against the given migration code.

21.4.1 End Point Details

- **Method** – GET
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/aai-object-migration-service/v1/public/downloadurl/export/{objCode}`
- **Content-Type** - Application/Json

Table 21-11 End Point Details

Name	Type	Required	Value
objCode	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore. For example: "PublicExport005"

21.4.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON response.

Table 21-12 POST JSON Response

Name	Type	Description
fileName	STRING	The migration code embedded with .DMP extension. For Example: "TEST_BO_20230921_1234.DMP"
downloadURL	STRING	This can be fetched from the object store.
errorMessage	STRING	Details of the error occurred. For example: Migration code doesnt exists.
statusCode	STRING	It indicates the status code of the service. For example: FILE_URL_DOWNLOAD_SUCCESS
status	STRING	Status of the migration • Success • Failed

Table 21-13 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal Server Error

Response JSON Sample

Success:200

```
{
  "fileName": "PublicExport005_BO_203931_676578.DMP",
  "downloadURL": "<Object store link embedded with File name>",
  "errorMessage": "",
  "statusCode": "FILE_URL_DOWNLOAD_SUCCESS",
  "status": "SUCCESS"
}
```

21.5 Create Import Definition

This section provides information on Import definition API providing the objects that needs to be imported.

21.5.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /aai-object-migration-service/v1/public/migrate/import/outline
- **Content-Type** - Application/Json

21.5.1.1 Request JSON Parameters

Table 21-14 Request JSON Parameters

Name	Type	Required	Description
migrationCode	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore.
fileName	STRING	Yes if dmpFileURL is not present. The parameters fileName and dmpFileURL can be passed.	The file is fetched from Get Download URL API. The file name should consist of _BO_ in the name. By default, the file extension is .DMP. For Example: "TEST_BO_1234" or "test_BO_1234.DMP"

Table 21-14 (Cont.) Request JSON Parameters

Name	Type	Required	Description
dmpFileURL	STRING	Yes if fileName is not present. The parameters fileName and dmpFileURL can be passed.	For example: This can be fetched from the object store. - dmpFileURL: The file is saved in the Object Store with the same details as mentioned in dmpFileURL. - dmpFileURL along with file name: The file is saved with the same name as the file name specified in the request. This is required if you want to change the file name from the name available in dmpFileURL. - Only File name: This is required when file was already uploaded and available in object store prior to importing. - If you want to provide a different file name, it must have _BO_ . The file name extension should be .DMP. All the objects in the DMP file will be imported.
failOnErrorOptions	STRING	Yes	The allowed values are Y/N. If you have set this as Y, an error will be displayed. If set as N, no error message is displayed.
overWriteOptions	STRING	Yes	The allowed values are Y/N. If you have set this as Y, you can over write the file. If set as N, you cannot over write this file.

Request JSON Sample

```
{  
  
  "migrationCode": "PublicExport011"  
  
  "fileName": "PublicExport04_BO_6786878_78787899_1.DMP"  
  
  "dmpFileURL": <The output from Get Download URL API for DMP file>  
  
  "failOnErrorOptions": "Y"  
  
  "overWriteOptions": "N"  
  
}
```

21.5.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-15 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the error occurred. For example: Only .DMP extension is supported for file name.
statusCode	STRING	It indicates the status code of the service. For example: INVALID_INPUT
status	STRING	Status of the migration • Success • Failed

Table 21-16 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal Server error

Response JSON Sample

```
Success:200  
  
{  
  
  "migrationCode": "PublicExport005"  
  
  "errorMessage": "",
```

```
"statusCode": "IMPORT_OUTLINE_SAVED",  
  
"status": "SUCCESS"  
  
}  
  
Error: 400  
  
{  
  "migrationCode": "PublicExport099"  
  
  "errorMessage": "Only .DMP extension is supported for file name",  
  
  "statusCode": "INVALID_INPUT",  
  
  "status": "FAILED",  
  
}
```

21.6 Invoke Import

This section provides information on Invoke Import API. The invoke import is fetched against the Migration code.



Note:

Pass the migration code returned from successful save import definition.

21.6.1 End Point Details

- **Method** – POST
- **REST Endpoint** - /aai-object-migration-service/v1/public/migrate/import/{code}
- **Content-Type** - Application/Json

Table 21-17 End Point Details

Name	Type	Required	Value
code	String	Yes	Migration code of the object. The code length should be less than or equal to 30 characters. The allowed characters are alphanumeric, hyphen, and underscore. For example: "PublicExport005"

21.6.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-18 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the import process. For example: Object Migration Triggered.
statusCode	STRING	It indicates the status code of the service. For example: TRIGGERED_SUCCESS
status	STRING	Status of the migration: • Success • Failed • In Process

Table 21-19 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal server error

Response JSON Sample

Success:200

```
{
  "errorMessage": "Object Migration Triggered",
  "statusCode": "TRIGGERED_SUCCESS",
  "status": "SUCCESS"
}
```

Error: 400

```
{
  "errorMessage": "Import already completed",
  "statusCode": "IMPORT_ALREADY_COMPLETE",
  "status": "FAILED"
}
```

21.7 Update Existing Import Outline Definition

This section provides information on Update Existing Import Outline Definition API. You can trigger the import using this API.

21.7.1 End Point Details

- **Method** – PUT
- **REST Endpoint** - /aai-object-migration-service/v1/public/migrate/import/outline
- **Content-Type** - Application/Json

21.7.1.1 Request JSON Parameters

Table 21-20 Request JSON Parameters

Name	Type	Required	Description
migrationCode	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore.
failOnErrorOptions	STRING	Yes	The allowed values are Y/N. If you have set this as Y, an error will be displayed. If set as N, no error message is displayed.
overWriteOptions	STRING	Yes	The allowed values are Y/N. If you have set this as Y, you can over write the file. If set as N, you cannot over write this file.

Request JSON Sample

```
"migrationCode":"PublicExport011"

"failOnErrorOptions":"Y"

"overWriteOptions":"N"

}
```

21.7.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 21-21 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the error occurred. For example: Migration code not received in input request.
statusCode	STRING	It indicates the status code of the service. For example: INVALID_INPUT
status	STRING	Status of the migration • Success • Failed

Table 21-22 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal Server error

Response JSON Sample

Success:200

```
{
  "migrationCode": "PublicExport005"
  "errorMessage": "",
  "statusCode": "IMPORT_OUTLINE_SAVED",
  "status": "SUCCESS"
}
```

Error: 400

```
{
  "migrationCode": "PublicExport099"
  "errorMessage": "Migration code not received in input request",
  "statusCode": "INVALID_INPUT",
  "status": "FAILED",
}
```

21.8 Get Status for Import

This section provides information on how to fetch the status of the import object migration. The status of import is fetched against the given migration code.

21.8.1 End Point Details

- **Method** – GET
- **URL** - `https://<HOST_NAME:PORT>/<TENANT>/aai-object-migration-service/v1/public/status/import/{code}`
- **Content-Type** - Application/Json

Table 21-23 End Point Details

Name	Type	Required	Value
code	STRING	Yes	Migration code of the object. The minimum code length is 3 and maximum is 30 characters. The allowed characters are alphanumeric, hyphen, and underscore. For example: "Public005"

21.8.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON response.

Table 21-24 POST JSON Response

Name	Type	Description
errorMessage	STRING	Details of the import process. For example:Invalid migration code or code doesnt exists.
statusCode	STRING	It indicates the status code of the service. For example: INVALID_INPUT
status	STRING	Status of the migration • Success • Failed • In Process • Saved

Table 21-25 Possible Status Codes

Status Code	Description
Success:200	Success

Table 21-25 (Cont.) Possible Status Codes

Status Code	Description
Error:400	Invalid inputs
Error:500	Internal Server Error

Response JSON Sample

Success:200

```
{
  "errorMessage": "",
  "statusCode": "STATUS_FETCHED",
  "status": "SUCCESS"
}
```

Error: 400

```
{
  "errorMessage": "Invalid migration code or code doesnt exists",
  "statusCode": "INVALID_INPUT",
  "status": "FAILED"
}
```

22

Email Notification APIs

These APIs enable sending Email notifications for indicating the status (completion or failure) of a PMF process. The following APIs are used to register and manage email notifications.

1. Register email for the process or package (a group of processes given a logical name).
2. Get the list of email registrations.
3. Enable/Disable the receipt of notification emails. Also you can set preferences for receiving emails.

Once the registration is complete, users will start receiving emails indicating the status (completion or failure) of a PMF process.

The following table lists the Request Headers

Table 22-1 Request Headers

Name	Type	Required	Example
ofs_service_id	STRING	Yes	OFS_FSAFND
Content-Type	STRING	Yes	application/json

22.1 Register Email Notification for a Process

This section provides information about registering email notification for a process.

22.1.1 End Point Details

- **Method** – POST
- **REST Endpoint** - pmf-crud/rest-api/v1/PMFService/email/register/process
- **Content-Type** - application/json

22.1.1.1 Request JSON Parameters

Table 22-2 Request JSON Parameters

Name	Type	Required	Description
processID	STRING	Yes	Process ID of the Run Pipeline.
user	STRING	Yes	User Ids of the user to get notification emails.
usergroup	STRING	Yes if user Ids are not present	User Group Ids to get notification emails.

Request JSON Sample

```
{
  "processId": "1697696435768",
  "user": [
    "appuser",
    "dummyuser"
  ],
  "usergroup": [
    "IDNTY_ADMN"
  ]
}
```

22.1.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 22-3 POST JSON Response

Name	Type	Description
message	STRING	Details of the error/success.
statusCode	STRING	It indicates the status code of the service.
status	STRING	Status of the registration: - false - true

Table 22-4 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:401	Not privileged user
Error:500	Internal Server error

Response JSON Sample

Unauthorized user - Status code : 401

```
{
  "message": "Not privileged user",
  "status": false
}
```

Process Id or user and user group both are missing in request body :
Status code : 400

```
{
  "message": "Email registration failed : Process Id or user/
usergroup details not passed",
  "status": false
}
```

Process Id is not valid - Status code : 400

```
{
  "message": "Email registration failed : Invalid process Id",
  "status": false
}
Invalid user passed in request - Status code : 400
{
  "message": "Email registration failed : Invalid users [appuser12,
dummyuser12]",
  "status": false
}
Invalid user group passed in request - Status code : 400
{
  "message": "Email registration failed : Invalid user group DEV",
  "status": false
}
User or user group is already registerd for email notification for given
process - Status code : 400
  user: {
    "message": "Email registration failed : user
[appuser, dummyuser] registered already ",
    "status": false
  }
  userGroup: {
    "message": "Email registration failed : usergroup
[IDNTY_ADMN] registered already ",
    "status": false
  }
}
Server side exception - Status code : 500
{
  "message": "Internal server error ",
  "status": false
}
Success response - Status code : 200
{
  "message": "Email is registered successfully!",
  "status": true
}
```

22.2 Register Email Notification for a Package

This section provides information about registering email notification for a package.

22.2.1 End Point Details

- **Method** – POST
- **REST Endpoint** - pmf-crud/rest-api/v1/PMFService/email/register/package
- **Content-Type** - application/json

22.2.1.1 Request JSON Parameters

Table 22-5 Request JSON Parameters

Name	Type	Required	Description
processID	STRING	Yes	Process ID of the Run Pipeline.
user	STRING	Yes	User Ids of the user to get notification emails.
usergroup	STRING	Yes if user Ids are not present	User Group Ids to get notification emails.

Request JSON Sample

```
{
  "processId": "1697696435768",
  "user": [
    "appuser",
    "dummyuser"
  ],
  "usergroup": [
    "IDNTY_ADMN"
  ]
}
```

22.2.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 22-6 POST JSON Response

Name	Type	Description
message	STRING	Details of the error/success.
statusCode	STRING	It indicates the status code of the service.
status	STRING	Status of the registration - false - true

Table 22-7 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:401	Not privileged user
Error:500	Internal Server error

Response JSON Sample

```
Unauthorized user - Status code : 401
{
  "message": "Not privileged user",
  "status": false
}
Package Id or user and user group both are missing in request body - Status
code : 400
{
  "message": "Email registration failed : Package Id or user/usergroup
details not passed",
  "status": false
}
Package Id is not valid - Status code : 400
{
  "message": "Email registration failed : Invalid package Id",
  "status": false
}
Invalid user passed in request - Status code : 400
{
  "message": "Email registration failed : Invalid users [appuser12,
dummyuser12]",
  "status": false
}
Invalid user group passed in request - Status code : 400
{
  "message": "Email registration failed : Invalid user group DEV",
  "status": false
}
User or user group is already registered for email notification for given
process - Status code : 400
  user: {
    "message": "Email registration failed : user
[appuser, dummyuser] registered already ",
    "status": false
  }
  userGroup: {
    "message": "Email registration failed : usergroup
[IDNTY_ADMN] registered already ",
    "status": false
  }
Server side exception - Status code : 500
{
  "message": "Internal server error ",
  "status": false
}
Success response - Status code : 200
{
  "message": "Email is registered successfully!",
  "status": true
}
```

22.3 Get the List of Email Registrations

This section provides information about fetching the list of email registrations.

22.3.1 End Point Details

- **Method** – GET
- **REST Endpoint** - pmf-crud/rest-api/v1/PMFService/email/registrationdetails
You can also fetch the registration details by providing the specific parameters such as user, user group, and packageId. You can provide multiple user or user groups with comma separated as shown below.
Example: pmf-crud/rest-api/v1/PMFService/email/registrationdetails?user=devnuser,devsuser&packageId=100&usergroup=qa,ADMIN,IDNTY_ADMN
- **Content-Type** - application/json

22.3.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 22-8 POST JSON Response

Name	Type	Description
message	STRING	Details of the error/success.
statusCode	STRING	It indicates the status code of the service.
status	STRING	Status of the fetching the list. • false • true

Table 22-9 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:401	Not privileged user
Error:404	Not found
Error:500	Internal Server error

Response JSON Sample

Success Response - Status Code : 200

```
{
  "emailList": [
    {
      "isEmailRequired": "Y",
      "packageId": "100",
      "isEmailRequiredForFailedStatus": "Y",
      "packageName": "Platform",
```

```
    "isEmailRequiredForCompletedStatus": "Y",
    "user": "devvuser"
  },
  {
    "isEmailRequired": "Y",
    "packageId": "100",
    "usergroup": "dev",
    "isEmailRequiredForFailedStatus": "Y",
    "packageName": "Platform",
    "isEmailRequiredForCompletedStatus": "Y"
  },
  {
    "isEmailRequired": "Y",
    "packageId": "100",
    "usergroup": "qa",
    "isEmailRequiredForFailedStatus": "Y",
    "packageName": "Platform",
    "isEmailRequiredForCompletedStatus": "Y"
  },
  {
    "isEmailRequired": "N",
    "processId": "1701260707779",
    "processName": "test_email",
    "packageId": "100",
    "isEmailRequiredForFailedStatus": "Y",
    "packageName": "Platform",
    "isEmailRequiredForCompletedStatus": "Y",
    "user": "devsuser"
  },
  {
    "isEmailRequired": "Y",
    "processId": "1701260707779",
    "processName": "test_email",
    "packageId": "100",
    "isEmailRequiredForFailedStatus": "Y",
    "packageName": "Platform",
    "isEmailRequiredForCompletedStatus": "Y",
    "user": "devnuser"
  },
  {
    "isEmailRequired": "Y",
    "processId": "1701260707779",
    "processName": "test_email",
    "packageId": "100",
    "isEmailRequiredForFailedStatus": "Y",
    "packageName": "Platform",
    "isEmailRequiredForCompletedStatus": "Y",
    "user": "appuser"
  },
  {
    "isEmailRequired": "Y",
    "processId": "1701260707779",
    "processName": "test_email",
    "packageId": "100",
    "isEmailRequiredForFailedStatus": "Y",
```

```

        "packageName": "Platform",
        "isEmailRequiredForCompletedStatus": "Y",
        "user": "dummyuser"
    },
    {
        "isEmailRequired": "Y",
        "processId": "1701260707779",
        "processName": "test_email",
        "packageId": "100",
        "usergroup": "IDNTY_ADMN",
        "isEmailRequiredForFailedStatus": "Y",
        "packageName": "Platform",
        "isEmailRequiredForCompletedStatus": "Y"
    }
]
}

Status Code : 400
{
    "message": "Can't have request parameters as empty.",
    "status": false
}
{
    "message": "Request validation failed to presence of
blacklisted characters",
    "status": false
}
{
    "message": "Can't have request parameters as empty.",
    "status": false
}

Status Code : 500

{
    "message": "Internal Server Error!",
    "status": false
}

Status Code : 401

{ "message": "Not privileged user", "status": false }

Status Code : 404
{
    "message": "Not Found!",
    "status": false
}

```

22.4 Enable/Disable the Notification Emails

This section provides information about enabling /disabling the receipt of notification emails. Also you can set preferences for receiving emails.

22.4.1 End Point Details

- **Method** – PUT
- **REST Endpoint** - pmf-crud/rest-api/v1/PMFService/email/toggleemailservice
- **Content-Type** - Application/Json

22.4.1.1 Request JSON Parameters

Table 22-10 Request JSON Parameters

Name	Type	Required
processId	STRING	Yes
packageId	STRING	Yes
user	STRING	Yes
isEmailRequired	STRING	Yes
isEmailRequiredForFailedStatus	STRING	Yes
isEmailRequiredForCompletedStatus	STRING	Yes

Request JSON Sample

```
{
  "processId": "1701260707779",
  "packageId": "100",
  "user": "devsuser",
  "isEmailRequired": "N",
  "isEmailRequiredForFailedStatus": "Y",
  "isEmailRequiredForCompletedStatus": "Y"
}
```

22.4.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 22-11 POST JSON Response

Name	Type	Description
message	STRING	Details of the error/success.
statusCode	STRING	It indicates the status code of the service.
status	STRING	Status of the setting the preferences • false • true

Table 22-12 Possible Status Codes

Status Code	Description
Success:200	Success
Error:400	Invalid inputs
Error:500	Internal Server error

Response JSON Sample

Success response - Status code: 200

```
{
  "message": "Updated email notifications for devuser
successfully.",
  "status": true
}
```

Status code: 400

```
{
  "message": " Provide either user or userGroup. ",
  "status": false
}

{
  "message": "ProcessId or PackageId not provided!",
  "status": false
}

{
  "message": "isEmailRequired Flag not present",
  "status": false
}

{
  "message": "Please provide isEmailRequired value as Y/N
only.",
  "status": false
}

{
  "message": "Please provide
isEmailRequiredForCompletedStatus value as Y/N only.",
  "status": false
}

{
  "message": "Please provide isEmailRequiredForFailedStatus
value as Y/N only.",
  "status": false
}

{
  "message": "Invalid package Id or process Id.",
  "status": false
}
```

```
    }  
  
    {  
      "message": "Provide either user or userGroup.",  
      "status": false  
    }  
  }  
}
```

Status code: 404

```
{  
  "message": "Couldn't find the registration to update! ",  
  "status": false  
}
```

Status code: 500

```
{  
  "message": "Internal Server Error!",  
  "status": false  
}
```

Status code: 401

```
{  
  "message": "Not privileged user",  
  "status": false  
}
```

Retrieving ERP ESS Job Details

This section provides information on how to retrieve a ERP ESS Job details invoked by AFCS SLA process. This API will enable the orchestration of automation of end-to-end processes between AFCS and ERP.

23.1 End Point Details

- **Method** – GET
- **REST Endpoint** - /ahi-ext/v1/utills/process-details/<processInstanceId>
- **Content-Type** - Application/Json

Table 23-1 Request Headers Details

Name	Type	Required	Value
ofs_remote_user	String	Yes	"afcsqa"
Content-Type	String	Yes	application/json
cookie	String	Yes	OFSEnvID=<tenant_name>
cacert	String	Yes	/<path of the certificate>

23.1.1 Calling the API to fetch the Process Status

To call the API, follow these steps:

1. Open a relevant tool.
2. Copy only the Authorization Token that you got from the [Authentication](#) Request.
3. Go to Header.
4. Enter KEY as an **Authentication** and Description as a bearer (Authorization Token) <eyJ4NXQjUzI1NiI6Ikk3cWxndm1Kal...>.
5. Send a request using the **GET** Method. The request must be in the following format:
 - a. **URL**- https://<HOST_NAME:PORT>/<TENANT>/ahi-ext/v1/utills/process-details/<processInstanceId>
 - b. **Path Parameter**: processInstanceId (Instance Id of the Process)

23.1.1.1 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 23-2 GET JSON Response

Name	Type	Description
message code	STRING	The API Status code. • DIA0000 • DIA0001 • DIA0007 • DIA0008
message body	STRING	• fileName: The zip file name uploaded to ERP • docId: The document ID generated at ERP for the submitted zip file • erpJobId: Scheduled ESS job ID • status: PMF Process status – Completed – Failed – Running – Cancelled

Table 23-3 Possible Status Codes

Status Code	Description
DIA0000	API call is success, refer to message body for details
DIA0001	Invalid Process Instance ID
DIA0007	Process execution details not found
DIA0008	Service not found for the specified version

Response JSON Sample

```
{"msgcode": "DIA0000", "msgbody":  
  {"fileName": "XlaTransaction_PASSTHROUGH_18-  
Jan-2023-12-56-43.zip", "docId": "1203265", "erpJobId": "1488049", "status":  
  "COMPLETED"}}
```

Token Based Authentication of ERP

This section provides information on Token Based Authentication of ERP API. You can update either the User ID or Password or Token using this API.

24.1 End Point Details

- **Method** – PUT
- **REST Endpoint** - /ahi-ext/v1/utlis/updateERPCred
- **Content-Type** - Application/Json

Table 24-1 Request Headers Details

Name	Type	Required	Value
ofs_remote_user	String	Yes	"afcsqa"
Content-Type	String	Yes	application/json
cookie	String	Yes	OFSEnvID=<tenant_name>
cacert	String	Yes	/<path of the certificate>

24.1.1 Request JSON Parameters

Table 24-2 Request JSON Parameters

Name	Type	Required	Description
token	STRING	Yes	Enter the token which is used to authenticate ERP instance. It is mandatory for token based authentication.
userId	STRING	Yes	Enter the User ID which is used to authenticate ERP instance. It is mandatory for User ID/password based authentication if the password is not passed.
password	STRING	Yes	Enter the password which is used to authenticate ERP instance. It is mandatory for User ID/password based authentication if the User ID is not passed.

Request JSON Sample

```
"token":"*****"

"userId":"finuser2"

"password":"*****"

}
```

24.1.2 Response JSON Parameters

This section provides the list of parameters in the JSON Response.

Table 24-3 POST JSON Response

Name	Type	Description
msgcode	STRING	The API Status code. • DIA0008 • DIA1001 • DIA1003 • DIA1004
msgbody	STRING	Updated User ID and Password Successfully/ Updated Token Successfully.

Table 24-4 Possible Status Codes

Status Code	Description
DIA0008	Invalid version specified for endpoint.
DIA1001	ERP Settings are not configured in this instance. Please contact your application administrator.
DIA1003	Invalid credentials specified. Please specify values for UserId/Password (Token).
DIA1004	Invalid credentials specified. Unable to authenticate to ERP instance with the credentials specified.

Response JSON Sample

```
Success:200

{
  "msgcode": "DIA0000",

  "msgbody":"Updated User Id and Password Successfully/Updated Token
```

```
Successfully"  
}
```

Glossary

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