Dell – <Process Area L1>

Technical Lean Specification

Outbound - EPBCS - Integration - Approved Projects to PPM - (PTA\_EPB\_INT\_030)

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# Summary

## Purpose/Justification

The purpose of this outbound integration using Oracle Integration Cloud (OIC) is to streamline the data transfer process from the Enterprise Performance Budgeting (EPB) system to the Project Portfolio Management (PPM) system. By automating the export of data into a .csv file through a Groovy script in EPB, which is then picked up by OIC from the Inbox/Outbox explorer and loaded into PPM, this integration aims to enhance efficiency, reduce manual intervention, and ensure timely and accurate data synchronization between the two systems.

## Interface Description and Overview

The connection to EPBCS will consist of Oracle Integration Cloud (OIC) to facilitate data transfer from EPB to PPM. A Groovy script in EPB exports data into a .csv file, which is then picked up by OIC from the Inbox/Outbox explorer and loaded into PPM. This ensures seamless data synchronization between the two systems.

**Integration Layer:**

* <OIC team to input steps>

|  |  |  |
| --- | --- | --- |
| **Reference Document Type** | **Reference Document Name** | **Reference Document Link** |
| Functional Specification |  |  |

## Business Rules

* Mav\_PFP\_Export\_Budgets\_Groovy - This rule exports data from OEP\_PFP cube for fixed columns

## Sample Output

A screenshot of a computer

AI-generated content may be incorrect.

## Definitions and Acronyms

| Acronym | Meaning | Description |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

# Oracle Cloud Technical Design

## Overview:

To connect to EPMCS, a rest adapter is required.

**Integration Layer:**

* Get substitution variables from FCCS system
* Submit copy data job using rest adapter
* Check the job status whether the job is completed or not
* Submit extract data job using rest adapter
* Check the job status whether the job is completed or not
* Notify to business

## Detailed Interface Design

EPMCS

<OIC Design>

## High Level Flow Diagram

A diagram of a data flow

AI-generated content may be incorrect.

## Interface Process

|  |  |
| --- | --- |
| **Process Step** | **Description** |
| Step1 | The OIC will trigger the schedule based integration by assigning schedule parameters |
| Step2 | Get the substitution variables from fccs service using rest api call |
| Step3 | Submit the copy data job using rest api call |
| Step4 | Check the job status |
| Step5 | Submit the extract data job using rest api call |
| Step6 | Check the job status |
| Step7 | OIC will notify the details |
|  |  |

|  |  |
| --- | --- |
| **NFR Category** | **Applicability** |
| Encryption / Decryption - Data Security |  |
| Interface SLA |  |
| Date/time format alignment on Payload |  |
| Sequence of Processing |  |
| Uniqueness of Payload |  |
| Logging for SRE Applications |  |
| Auto reprocessing Scenarios |  |
| Determination of if the interface will be trigger/Invoke or both |  |
| Full Payload Processing or Partial Processing Allowed |  |

## Interface Details

Oracle Integration Cloud (OIC) facilitates data retrieval from Enterprise Performance Management (EPM) as part of the outbound integration process. Get Substitution variables from EPMCS - FCCS system while invoking rest adapter. When the rest api call is invoked to submit the copy data job, the EPM at the designated location is connected. Verify the job status by giving the URL through a rest api request. Invoke the rest api call to submit the extract data. If the job is finished, it notifies the business.

## <Interface\_Name>> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_FCCS\_ONO\_TRANSLATION |
| **Interface Type** | Outbound |
| **Interface Tool** | OIC |
| **Data Source** (check all that apply) |  |
|  |  |
| **Transformation** | Doc Transformation <name of file>  **XSLT <name of XSLT file(s)>**  None |
| **Delivery / Retrieval Service** |  |
| **Output/Inbound Filename** |  |
| **File Format** |  |
| **Sequence Generators** |  |
| **Document Retention** | <number of days> |
| **Interface System User** | <document the ISU or user ID of custom report owner> |
| **Interface System Security Group** | <document the ISSG or Not Applicable> |
| Additional Information | <Document any details not described above.> |

**<Needed in Case on Inbound Interfaces>**

|  |  |
| --- | --- |
| **Integration Details** | |
| **Entity Names** | * Provide the HDL or PBL entity/entities which are getting loaded |
| **Interface Attributes** | * List of attributes |
| **Interface Maps** | * <list if applicable> |
| **Validation** | * <list if applicable> |
| **Defaulting Logic** | <List of any attributes whose values are defaulted > |
| **Additional Logic** | Add any additional logic specific to the interface |
| **Deployment Details** | Details of Deployment (PaaS or Client Network) |
| **Database Details** | Database connection details for the program |

## Data File Format

|  |  |
| --- | --- |
| Property Name | Value |
| File Format |  |
| Sample Data File |  |

## Web Services

Rest API

To get subVariables

**URL: (hostname)/HyperionPlanning/rest/v3/applications/DELLCONS/substitutionvariables/**

To Submit the job

**URL**: ([hostname)/ **HyperionPlanning/rest/v3/applications/DELLCONS**/jobs](https://dellepm1-test-delltechnologies.epm.us-phoenix-1.ocs.oraclecloud.com/armARCS/rest/v1/jobs)

**To get the job status**

**URL: (hostname)/ HyperionPlanning/rest/v3/applications/DELLCONS /jobs/{jobID}**

To Submit the job

**URL**: ([hostname)/ **HyperionPlanning/rest/v3/applications/DELLCONS**/jobs](https://dellepm1-test-delltechnologies.epm.us-phoenix-1.ocs.oraclecloud.com/armARCS/rest/v1/jobs)

**To get the job status**

**URL: (hostname)/ HyperionPlanning/rest/v3/applications/DELLCONS /jobs/{jobID}**

## Conditions and Filters

| Sr. No | Data Condition | Business Rule |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

## Environment Configurations

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameter Name | Environment | Value |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

## Validation & Error Handling

| Sr. No. | Error Scenario | Description | Handling Processing |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Rollback & Recovery

## Purging

## Notification Requirements

| Sr. No. | Error Scenario | Description | Action |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Security Requirement

|  |  |
| --- | --- |
| Transport Protocol | HTTP  FTP |
| Message Protocol | SOAP  REST  File  IDoc |
| Authentication Mode | Basic  Certificate based  PGP |

## File and Directory Locations

|  |
| --- |
| **ENVIRONMENT: Development** |

|  |  |
| --- | --- |
| File Storage Link |  |
| Folder Location for Output Data File |  |
| File Name for Output Data File |  |
| Output Data File Format | TXT  CSV  XML  Other |
| Folder Location for Error File (if any) |  |
| File Name for Error File (if any) |  |
| Error File Format (if any) | TXT  CSV  XML  Other |

## Miscellaneous

## Components List

| Component Name | Component Type | Purpose |
| --- | --- | --- |
|  |  |  |

## Data Selection Criteria

| Table Name | Select | Insert | Update | Delete |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## SQLs for Data Extraction/Selection/Filtration

## Data Transmission Mechanism (Required for Interfaces)

## File Layout / Report Output

# Technical Unit Test

| Sr. No | Conditions to be tested | Expected Result | Executed? |
| --- | --- | --- | --- |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

# Application Setup and Technical Requirements

## Program/Report Scheduling

## Security and Controls Requirements

## Archiving & Purging

# Interface Reporting Requirements



## Data Validation & Error Reporting

## Data Processing / Derivation / Validation / Transformation Rules

## Error handling and Retry Mechanism

# Open and Closed Issues



## Open Issues

| Issue Id | Description | Opened By | Responsible | Due Date |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Closed Issues

| Issue Id | Description | Resolution | Signoff | Closed Date |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

# Appendix