Dell – <Process Area L1>

Technical Lean Specification

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

Document Control Information

Document Information

|  |  |
| --- | --- |
| Document Identification | PTA\_EPB\_INT\_030 |
| Document Name | **EPBCS - Integration - Approved Projects to PPM** |
| Project Name | Project Maverick |
| Client | Dell |
| Document Author |  |
| Document Version | V1.0 |
| Document Status | Draft |
| Date Released | XX-XX-2024 |

Document Edit History

| Version | Date | Additions/Modifications | Prepared/Revised by |
| --- | --- | --- | --- |
| 1 |  | Initial version | <Name> |
|  |  |  |  |
|  |  |  |  |

Document Review/Approval History

| Date | Document Version | Name | Organization/Title | Comments |
| --- | --- | --- | --- | --- |
| < dd-mmm-yyyy > | <Name> | <Organization/Title> | <Comments> | < dd-mmm-yyyy > |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Distribution of Final Document

The following people are designated recipients of the final version of this document:

| Name | Organization/Title |
| --- | --- |
| <Name> | <Organization/Title> |
|  |  |
|  |  |
|  |  |

Table of Contents

[1. Summary 5](#_Toc189094576)

[1.1. Purpose/Justification 5](#_Toc189094577)

[1.2. Interface Description and Overview 5](#_Toc189094578)

[1.3. Business Rules 5](#_Toc189094579)

[1.4. Sample Output 5](#_Toc189094580)

[1.5. Definitions and Acronyms 5](#_Toc189094581)

[2. Oracle Cloud Technical Design 6](#_Toc189094582)

[2.1. Overview 6](#_Toc189094585)

[2.2. Detailed Interface Design 6](#_Toc189094586)

[2.3. High Level Flow Diagram 6](#_Toc189094587)

[2.4. Interface Process 6](#_Toc189094588)

[2.5. Interface Details 6](#_Toc189094589)

[2.6. <Interface\_Name>> Interface Design 6](#_Toc189094590)

[2.7. HCM Extracts <Needed in case of HCM Extracts> 8](#_Toc189094591)

[2.8. BI Reports <Needed in case of BI Reports> 8](#_Toc189094592)

[2.9. Data File Format 9](#_Toc189094593)

[2.10. Custom Database Objects 9](#_Toc189094594)

[2.11. Custom Stored Procedures 9](#_Toc189094595)

[2.12. BI Publisher Report Details 10](#_Toc189094596)

[2.13. FBDI Processing 10](#_Toc189094597)

[2.14. Web Services 10](#_Toc189094598)

[2.15. UCM Upload (for FBDI Processing) 10](#_Toc189094599)

[2.16. Enterprise Scheduler Services (ESS) 10](#_Toc189094600)

[2.17. ESS Job details 10](#_Toc189094601)

[2.18. ESS Parameters 10](#_Toc189094602)

[2.19. Conditions and Filters 11](#_Toc189094603)

[2.20. Environment Configurations 11](#_Toc189094604)

[2.21. Validation & Error Handling 11](#_Toc189094605)

[2.22. Rollback & Recovery 11](#_Toc189094606)

[2.23. Purging 11](#_Toc189094607)

[2.24. Notification Requirements 11](#_Toc189094608)

[2.25. Security Requirement 12](#_Toc189094609)

[2.26. File and Directory Locations 12](#_Toc189094610)

[2.27. Miscellaneous 13](#_Toc189094611)

[2.28. Components List 13](#_Toc189094612)

[2.29. Data Selection Criteria 13](#_Toc189094613)

[2.30. SQLs for Data Extraction/Selection/Filtration 13](#_Toc189094614)

[2.31. Data Transmission Mechanism (Required for Interfaces) 13](#_Toc189094615)

[2.32. File Layout / Report Output 13](#_Toc189094616)

[3. Technical Unit Test 14](#_Toc189094617)

[4. Application Setup and Technical Requirements 15](#_Toc189094618)

[4.1. Program/Report Scheduling 15](#_Toc189094621)

[4.2. Security and Controls Requirements 15](#_Toc189094622)

[4.3. Archiving & Purging 15](#_Toc189094623)

[5. Interface Reporting Requirements 16](#_Toc189094624)

[5.1. Data Validation & Error Reporting 16](#_Toc189094626)

[5.2. Data Processing / Derivation / Validation / Transformation Rules 16](#_Toc189094627)

[5.3. Error handling and Retry Mechanism 16](#_Toc189094628)

[6. Open and Closed Issues 17](#_Toc189094629)

[6.1. Open Issues 17](#_Toc189094631)

[6.2. Closed Issues 17](#_Toc189094632)

[7. Appendix 18](#_Toc189094633)

# 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:**

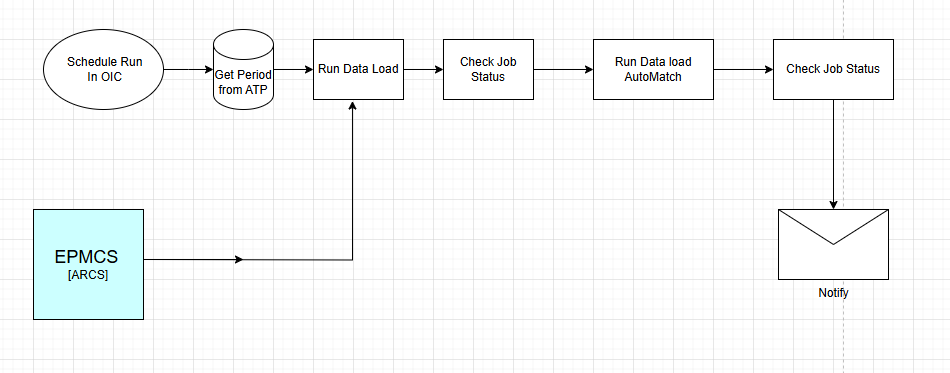
* Run data load using rest adapter
* Check the job status whether the job is completed or not
* Run transaction data load for automatch
* Get the job status for automatch
* Notify to stake holders

## Detailed Interface Design

EPMCS

<OIC Design>

## High Level Flow Diagram



## Interface Process

|  |  |
| --- | --- |
| **Process Step** | **Description** |
| Step1 | The OIC will trigger the schedule based integration by assigning schedule parameters |
| Step2 | Get period details from ATP |
| Step3 | Run the data load using rest api call |
| Step4 | Check the job status |
| Step5 | Run the auto match data load using rest api call |
| Step6 | Check the job status |
| Step7 | OIC will notify the details to stake holder |
|  |  |

|  |  |
| --- | --- |
| **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. When the rest api call is invoked, the EPM at the designated location is connected. Verify the job status by giving the URL through a rest api request. If the job is finished, invoke the rest api call for automatch. verify the job status by giving the URL through a rest api request. If the job is finished, it notifies the stake holder.

## <Interface\_Name>> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_ARCS\_DLR\_ODESSA |
| **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 Submit the job

**URL**: ([hostname)/ aif/rest/V1/jobs](https://dellepm1-test-delltechnologies.epm.us-phoenix-1.ocs.oraclecloud.com/armARCS/rest/v1/jobs)

To get the job status

**URL: (hostname)/** **aif/rest/V1/jobs /{jobID}**

**To submit the job for automatch**

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

To get the job status

**URL: (hostname)/** **arm/rest/v1/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