Dell – <RTR\_EPM\_FCC\_VERSIONING\_PIPELINE>

Technical Lean Specification

Outbound - EPMCS - Integration - EPM\_FCC\_VERSIONING\_PIPELINE- (RTR\_FCC\_INT\_03)

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# Summary

## Purpose/Justification

## The purpose of this outbound integration using Oracle Integration Cloud(OIC) is automate the data loads in FCCS Application which is module of EPM (Enterprise Performance Management).we are using Account Reconciliation REST APIs to automate FCC versioning pipeline data loads.This integration aims to enhance efficiency,reduce manual intervention,and ensure timely and accurate run FCC versioning pipeline balance data loads.

## Interface Description and Overview

This project implements a fully automated integration using **Oracle Integration Cloud (OIC)** to orchestrate the scheduled execution of **data pipeline jobs** in **Oracle Enterprise Performance Management Cloud – Financial Consolidation and Close (FCCS)**. The integration is designed to remove the need for manual execution of consolidation or transformation processes, reducing operational overhead and improving accuracy through timely job automation and reporting.

**Integration Layer:**

* Fetch runtime substitution variables (e.g., Period, Year) for pipeline execution.
* Launch a pipeline process in FCCS (e.g., data rule, business rule set, consolidation job).
* Poll job status until the pipeline job completes (Succeeded or Failed).
* Inform stakeholders about the job completion status.

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

## Business Rules

## Sample Output

## Definitions and Acronyms

| **Acronym** | **Meaning** | **Description** |
| --- | --- | --- |
| ATP | Autonomous Transaction Processing | The Oracle Autonomous Transaction Processing (ATP) adapter in Oracle Integration Cloud. |
| OIC | Oracle Integration Cloud | OIC refers to Oracle Integration Cloud, a cloud-based integration platform from Oracle. |
| EPMCS | Oracle Enterprise Performance Management Cloud Services | a standalone service used to manage master, reference, and metadata across an enterprise. |
| FCCS | Oracle Financial Consolidation and Close Cloud Service | It's designed to streamline and automate financial consolidation and reporting processes for businesses. |

# Oracle Cloud Technical Design

## Overview:

To connect to EPMCS, a rest adapter is required.

**Integration Layer:**

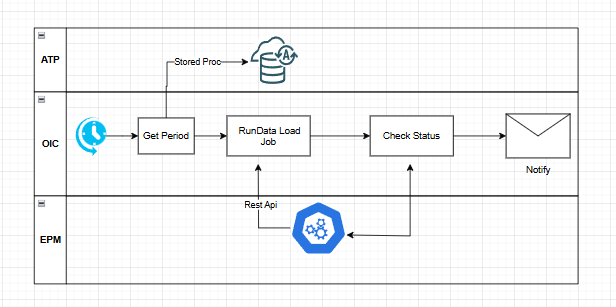
* Get substitution variables from FCCS system
* Run pipeline using rest adapter
* Check the job status whether the job is completed or not
* Notify to business

## Detailed Interface Design

EPMCS

<OIC Design>

## High Level Flow Diagram



## 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 | Run the pipeline using rest api call |
| Step4 | Check the job status |
| Step5 | 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 run pipeline, 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, it notifies the business.

## < RTR\_EPM\_FCC\_VERSIONING\_PIPELINE> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_FCC\_VERSIONING\_PIPELINE |
| **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.> |

## 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)/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**](https://dellepm1-test-delltechnologies.epm.us-phoenix-1.ocs.oraclecloud.com/armARCS/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

Reprocessing the integration by running schedule based integration on adhoc basis.

# Open and Closed Issues

## Open Issues

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

## Closed Issues

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

# Appendix