Dell – <RTR\_EPM\_FCCS\_EXCHANGE\_RATE\_LOAD>

Technical Lean Specification

Inbound - EPMCS - Integration - EPM\_FCCS\_EXCHANGE\_RATE\_LOAD - (RTR\_FCC\_INT\_02)

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# Summary

## Purpose/Justification

The purpose of this inbound 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 EXCHANGE RATE data loads.This integration aims to enhance efficiency,reduce manual intervention,and ensure timely and accurate run EXCHANGE RATE data loads.

## Interface Description and Overview

The Oracle Integration Cloud (OIC) will be used to connect with the Oracle Financial Consolidation and Close Cloud Service**(**FCCS) of Oracle EPM. This connection enables OIC to retrieve exchange rates data from specific modules within the FCCS. By leveraging OIC, we ensure a seamless foreign exchange rates data loading process

**Integration Layer:**

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

|  |  |  |
| --- | --- | --- |
| **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) 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:**

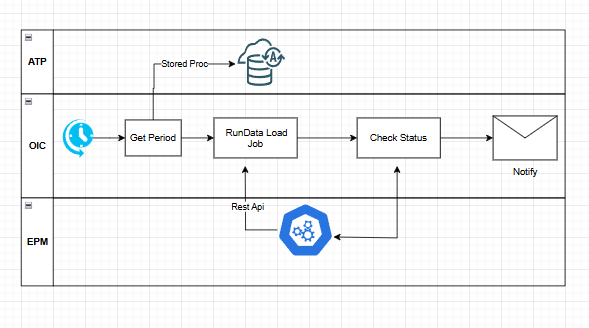
* Get sub variables from FCCS system
* Submit copy data job using rest adapter
* Check the job status whether the job is completed or not
* Notify to business

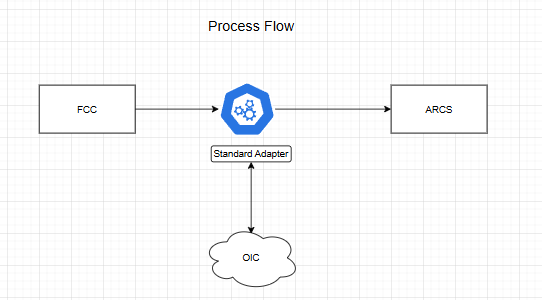
## Detailed Interface Design

EPMCS

<OIC Design>

## High Level Flow Diagram





## 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 data job 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 inbound integration process. Get Substitution variables from EPMCS - FCCS system while invoking rest adapter. When the rest api call is invoked to submit the exchange rates data job, 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\_FCCS\_EXCHANGE\_RATE\_LOAD> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_FCCS\_EXCHANGE\_RATE\_LOAD |
| **Interface Type** | Inbound |
| **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>**

## 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)

**Input Parameters:**

**Job Name : DLR\_FX\_RATES-ERP**

**Job Type : INTEGRATION**

**Profile Name : CopyRatesNextPeriod\_Actuals**

**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

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