Dell – <RTR\_EPM\_ARCS\_FX\_RATES>

Technical Lean Specification

Outbound – EPMCS - Integration - EPM\_ARCS\_FX\_RATES- (RTR\_ARC\_INT\_01)

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# Summary

## Purpose/Justification

The purpose of this outbound integration using Oracle Integration Cloud (OIC) is to process the data of Enterprise Performance Management system. Data is picked from Account Reconciliation( ARCS) using oic, which is sub module of EPMCS. This integration aims to enhance efficiency, reduce manual intervention, and ensure timely and accurate run foreign exchange data loads. After initial data loading, the integration is executed again to import exchange rates and verify the import status.

## Interface Description and Overview

The Oracle Integration Cloud (OIC) is used to connect with the Oracle Account Reconciliation System (ARCS) of Oracle EPM. This connection allows OIC to access data from specific ARCS modules. Leveraging OIC ensures a seamless process for loading foreign exchange data. After initial data loading, the integration is executed again to import exchange rates and verify the import status

**Integration Layer:**

* Run data load 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) 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 | The EPM adapter allows you to integrate Oracle's EPM Cloud services with other applications and systems using OIC. |
| ARCS | Account Reconciliation Cloud Services | For automating and streamlining the reconciliation process of financial accounts within Oracle's Enterprise Performance Management Cloud. |

# Oracle Cloud Technical Design

## Overview:

To connect to EPMCS, a rest adapter is required.

**Integration Layer:**

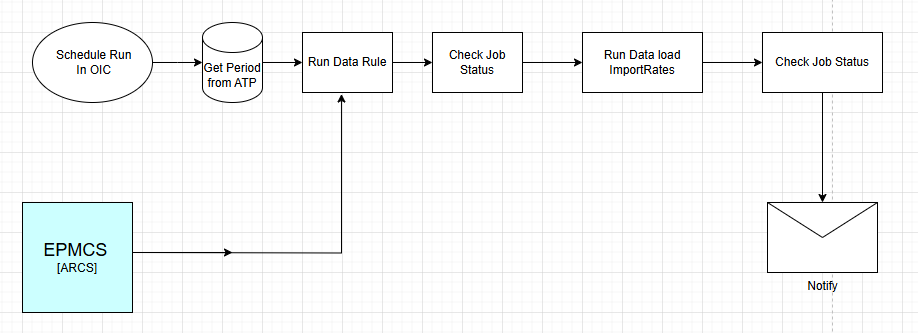
* Run data rule using rest adapter
* Check the job status whether the job is completed or not
* Run transaction data load for importRates
* Get the job status for importRates
* Notify to stake holders

## 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 rule using rest api call |
| Step4 | Check the job status |
| Step5 | Run the import rates 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. Get period while invoking db. When the rest api call is invoked, the EPM at the designated location is connected to run the foreign exchange data loads. Verify the job status by giving the URL through a rest api request. If the job is finished, invoke the rest api call for importRates. verify the job status by giving the URL through a rest api request. If the job is finished, it notifies the stake holder.

## < RTR\_EPM\_ARCS\_FX\_RATES> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_ARCS\_FX\_RATES |
| **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 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) /armARCS/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)/** **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

Get period details from ATP

• Schema : RTR\_INT

• Package : default package

• Procedure Name : PRC\_RTR\_ARC\_008

## 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