Dell – <RTR\_EPM\_ARCS\_FA\_Subledger\_

Balances\_Reserve>

Technical Lean Specification

Inbound - EPMCS - Integration - EPM\_ARCS\_FA\_Subledger\_Balances\_Reserve- (RTR\_ARC\_INT\_05)

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# Summary

## Purpose/Justification

The purpose of this inbound integration using Oracle Integration Cloud(OIC) is automate the data loads in ARCS Application which is module of EPM (Enterprise Performance Management). We are using Account Reconciliation REST APIs to automate Subledger Balances Reserve. This integration aims to enhance efficiency, reduce manual intervention, and ensure timely and accurate run Subledger Balances Reserve.

## Interface Description and Overview

The Oracle Integration Cloud (OIC) will be used to connect with the Oracle Account Reconciliation System (ARCS) of Oracle EPM. This connection enables OIC to retrieve data from specific modules within the ERP and to transfer to ARCS. By leveraging OIC, we ensure a seamless FA subledger reserve balances data loading process.

**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 | A standalone service used to manage master, reference, and metadata across an enterprise. |
| ARCS | Account Reconciliation Cloud Services | For automating and streamlining the reconciliation process of financial accounts within Oracle's Enterprise Performance Management Cloud. |
| ERP | Enterprise Resource Planning | ERP is a software system that helps businesses manage and integrate their key operations like finance, HR, and supply chain in one platform. |

# Oracle Cloud Technical Design

## Overview:

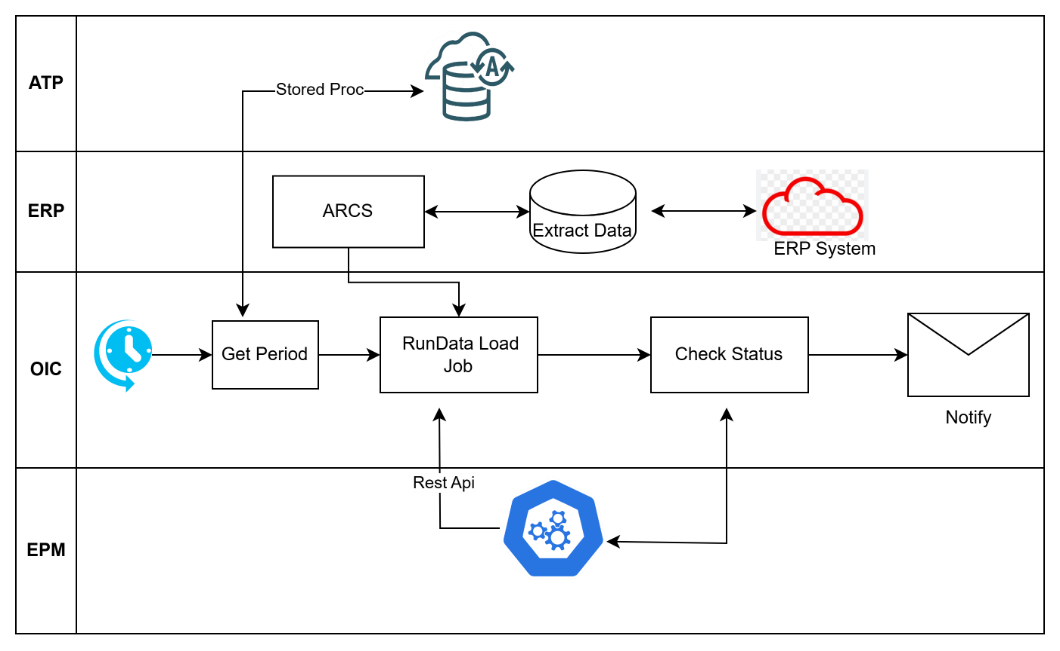
To connect to EPMCS, a rest adapter is required.

**Integration Layer:**

* Run data load using rest adapter
* Check the job status whether the job is completed or not
* Notify to business

## Detailed Interface Design OIC will trigger the schedule-based integration by assigning parameters, retrieve the period value from ATP, perform the data load using a REST API call, check the job status, and notify the details.

## 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 period value from ATP |
| Step3 | Run the data load 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 period details by giving current date as input to DB. 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, it notifies the business.

## <RTR\_EPM\_ARCS\_FA\_Subledger\_Balances\_Reserve> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_ARCS\_FA\_Subledger\_Balances\_Reserve |
| **Interface Type** | Inbound from FA Subledger |
| **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)/armARCS/rest/v1/jobs](https://dellepm1-test-delltechnologies.epm.us-phoenix-1.ocs.oraclecloud.com/armARCS/rest/v1/jobs)

Input Parameters

Dl\_Definiton: DLD\_SL\_FA\_RESERVE\_FUNC

JobName: IMPORT\_BALANCES

Period: May-25 Format

**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

* + ATP connection Name : RTR ATP DB CONN
  + Schema : RTR\_INT
  + Table Name : RTR\_ARC\_INT\_03\_Period\_list
  + 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

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