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

Balances>

Technical Lean Specification

Inbound - EPMCS - Integration – EPM\_ARCS\_AR\_Subledger\_Balances- (RTR\_ARC\_INT\_03)

Document Control Information

Document Information

|  |  |
| --- | --- |
| Document Identification | RTR\_ARC\_INT\_03 |
| Document Name | EPMCS - Integration - EPM\_ARCS\_AR\_Subledger\_Balances |
| 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 | 15-MAY-2025 | Initial version | Pavan Kumar |
|  |  |  |  |
|  |  |  |  |

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 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 AR subledger balances. This integration aims to enhance efficiency, reduce manual intervention, and ensure timely and accurate run AR subledger balances.

## 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 ARCS. By leveraging OIC, we ensure a seamless account receivables subledger balance 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.  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 load 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

A screenshot of a computer

AI-generated content may be incorrect.

A diagram of a data processing process

AI-generated content may be incorrect.

## 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 the 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\_AR\_Subledger\_Balances> Interface Design

|  |  |
| --- | --- |
| **Interface Design** | |
| **Interface System Name** | RTR\_EPM\_ARCS\_AR\_Subledger\_Balances |
| **Interface Type** | Inbound from AR 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.> |

1.12 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: SL Data Load\_AR

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