DS.140 Integration Design Specification



Miscellaneous Transaction Upload Interface (Oracle Apex)

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# Document Control

## Change Record

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## Reviewers

| Name | Position |
| --- | --- |
| FHL Business | Business User |
| FHL IT Group | Fortis IT Team |
|  |  |
|  |  |

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# Introduction

### Scope for this Document

This analysis specification document is prepared to layout the Item management Apex based application.

### Intended Audience

This document is intended for the following groups to provide the action items and consideration that are required to complete the implementation of the various Supply Chain and Finance related functionalities from Oracle Fusion.

#### Fortis Business Users

This document will be helpful for Fortis Business users to understand the technical design and process change with the new structure implemented in Oracle. The business user will validate this document after the verification of the requirement.

#### PwC Technical Team

The PwC technical team will use this document as a source technical design document to develop the technical solution to implement / deploy in Oracle Fusion.

#### Fortis IT Team

The Fortis IT Team must facilitate the PwC technical team for requisite details and other elements required from Business. The Fortis IT team is also responsible to arrange and provide required technical information wherever is required.

# Overview

Fortis Healthcare Limited (FHL) is a chain of hospitals, headquartered in India. Fortis started its health care operations from Mohali where first Fortis hospital was started. Later, the hospital chain purchased the healthcare branch of the Escorts group and increased its strength in various parts of the country. The Fortis health care also operates its hospital in Vasant Kunj, Faridabad, Gurgaon. The FMRI hospital at Gurgaon is the headquarter of Fortis healthcare with all the major facilities at the hospital.

This specification document is prepared to layout the design of the Item management Apex based application.

## Business Objectives

The following are the business objectives.

1. To have a secure, reliable, and scalable design flow to validate and interface cycle count updates to Oracle fusion.
2. To have a solution providing the monitoring capabilities.

## Major Features

The proposed solution will have the following features involved:

1. The Misc Transactions upload application has been designed in Oracle APEX.
2. Multiple OIC integrations are involved for the various functionalities.

## Glossary

REST

Representational State Transfer.

OIC

Oracle Integration Cloud

# High-Level Fusion Integration flow



# Technical Design Details

This section describes the technical details of all the components involved in the Cycle Count Apex based application.

## OIC Services

Fortis Cycle Count Details Integration has been developed in OIC to get the details of cycle count which user has uploaded, this detail is used to validate the data which user has uploaded:

A screenshot of a computer

Description automatically generated

|  |  |
| --- | --- |
| **OIC Integration Name** | Fortis Misc Txn Details Intg |
| **OIC REST Endpoint URL** | https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443/ic/api/integration/v1/flows/rest/FORTIS\_MISC\_TXN\_DETAIL\_INTG/1.0/misctxndtls |
| **Method** | POST |

Fortis Misc Trx Upload Integrationhas been developed to upload files ,it also updates the errors in paas tables if fbdi returns any error:

|  |  |
| --- | --- |
| **OIC Integration Name** | [Fortis Misc Trx Upload Integration](https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com/ic/home/?root=integrations&oj_Router=1N4IgTg9hAuIFygGYEsA20CmYDKHrWQDsBzAZ3lCM2LAEMCJDyERSIxoB5ABwaYoC+AGhAp0WHn2YBtALojSGWmADGACwCShbgFdYLRcvUAhAJ4A1Wqh0Z4IAAQrTK1LeEhaKvncOq1AWjFMMH82DhARNSUAEyxsdmDJZEZmYAF09KA) |
| **OIC REST Endpoint URL** | [https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443/ /ic/api/integration/v1/flows/rest/FORTIS\_MISC\_TRX\_UPLOAD\_INTEGR/1.0/misctrx](https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com/ic/api/integration/v1/flows/rest/FORTIS_CYCLE_COUNT_FBDI_INTEGR/1.0/cyclecount) |
| **Method** | POST |

Fortis Misc Trx Upload Count Corr Integration has been developed to upload count correction.

|  |  |
| --- | --- |
| **OIC Integration Name** | [Fortis Misc Trx Upload Count Corr Integration](https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com/ic/home/?root=integrations&oj_Router=1N4IgTg9hAuIFygGYEsA20CmYDKHrWQDsBzAZ3lCM2LAEMCJDyERSIxoB5ABwaYoC+AGhAp0WHn2YBtALojSGWmADGACwCShbgFdYLRcvUAhAJ4A1Wqh0Z4IAAQrTK1LeEhaKvncOq1AWjFMMH82DhARNSUAEyxsdmDJZEZmYAF09KA) |
| **OIC REST Endpoint URL** | [https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443 /ic/api/integration/v1/flows/rest/FORT\_MISC\_TRX\_UPLO\_COUN\_CORR\_INT/1.0/misctrx](https://fortisuat-nr5lr39yailj-bo.integration.ocp.oraclecloud.com/ic/api/integration/v1/flows/rest/FORTIS_CYCLE_COUNT_FBDI_INTEGR/1.0/cyclecount) |
| **Method** | POST |

## Oracle PaaS DBCS components

This integration design uses the following components from Oracle PaaS DBCS:

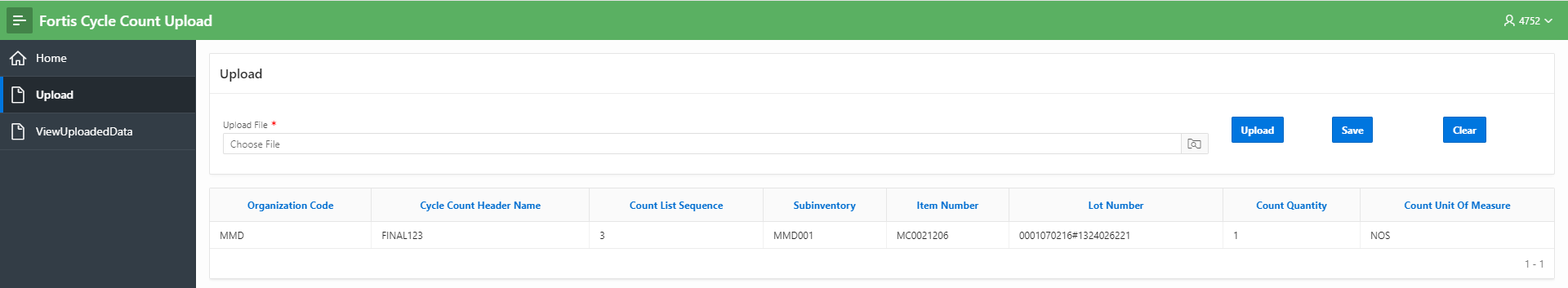
## Oracle APEX – [Fortis Cycle Count Upload](https://fusionbolton.fortishealthcare.com/portal/fh_ws/r/fortiscyclecountupload/uploadexcel?session=13765742639444) application

This application consists of the following pages mainly:

| S. No | Page Title | Description / Function | Key Features |
| --- | --- | --- | --- |
| 1 | Upload | Allows the users to upload the files. | * Users can upload and view the uploaded data. * Save button stores data from file to paas table. * Clear button clears the selected file. |
| 2 | View  Uploaded  Data | Allows the users to submit their file for FBDI | * Validate button is used to run validations on the data which user has uploaded. * After data is validated, validated records are submitted for FBDI. * Users can view status for records. * Errored records can be viewed here with error message. |

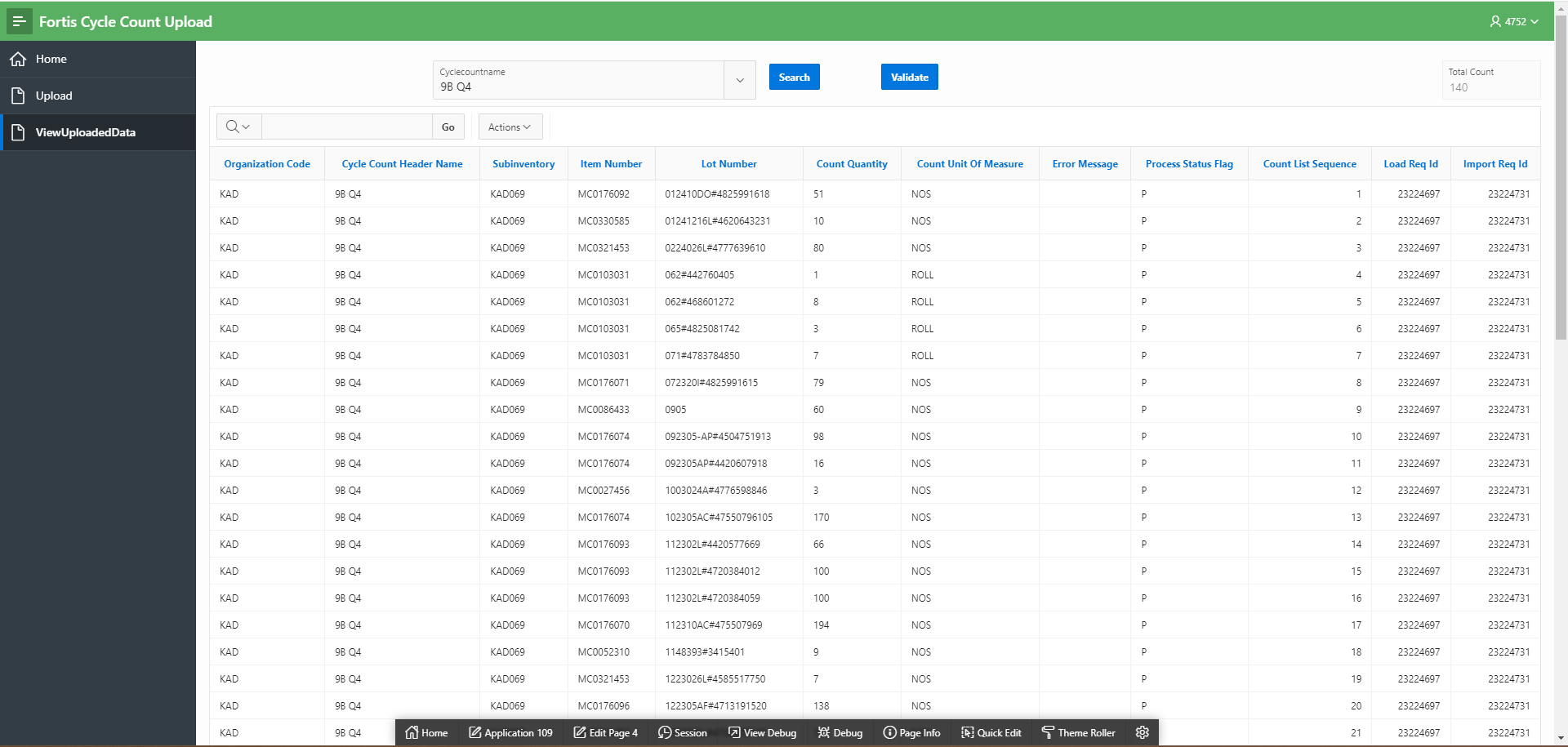
### PAGE LAYOUT

* Following is the Home page which is “Upload” to upload files.
* This same page also has a section for viewing the data which user has uploaded.



| Page Field / Button Name | Field / Button | Page Name | Page Section | Mandatory? | Field / Button Derivation Logic | Placement & Comments |
| --- | --- | --- | --- | --- | --- | --- |
| Upload | Button | Upload |  |  | This button is used to upload file to temporary collection. |  |
| Save | Button | Upload |  |  | This button is used to store data from temporary collection to paas table. |  |
| Clear | Button | Upload |  |  | It is used to clear the uploaded file. |  |
| Upload File | Field | Upload |  |  | This field is used to browse file.  File Drag and drop also works on this filed. |  |

* Following is the “View Uploaded Data”, which is used to search the uploaded files and to submit the file for FBDI.



| Page Field / Button Name | Field / Button | Page Name | Page Section | Mandatory? | Field Type | Field / Button Derivation Logic | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cycle  Count  Name | Field |  |  |  | LOV | To browse the uploaded files. |  |
| Search | Button |  |  |  | Text | Search the name selected in field and display file content. |  |
| Validate | Button |  |  |  | LOV | Run validations on the selected cycle count and submit them for FBDI. |  |

## Technical flow

**Server details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Server** | **Host name** | **Port** | **Service Name** | **Username** |
| Oracle PaaS DB | 140.238.225.129 | 1521 | PRODPDB1.fhpubsn.fhvcn.oraclevcn.com | XXFH & XXFH\_RO |

TABLE\_NAME: **XXFH\_MISC\_INV\_TRX\_UPD\_TBL**

Application Export File:



1. The PL/SQL code Fortis Miscellaneous Transactions Upload Application for Page 3 has been updated.   
     
   Code:  
   
2. Logic for sub-inventory changed in upload file page (Page 2) to process the hyphen.

Process for store data in collection need to be changed for the same.



## General Note

* This interface has been developed to upload Misc Txns.
* It is developed in APEX along with three OIC integrations.
* Users can upload a csv file into APEX interface having transactions.
* Some validation rules will run on the uploaded data.
* After running validations, ERROR/Validated will be marked on each record.
* The validated records will be further sent to Fusion and will be uploaded.
* The final upload status will also be displayed in the APEX interface.

# Data FIELD Mapping

NA

## File format

NA

## Frequency

NA

## Security and Access

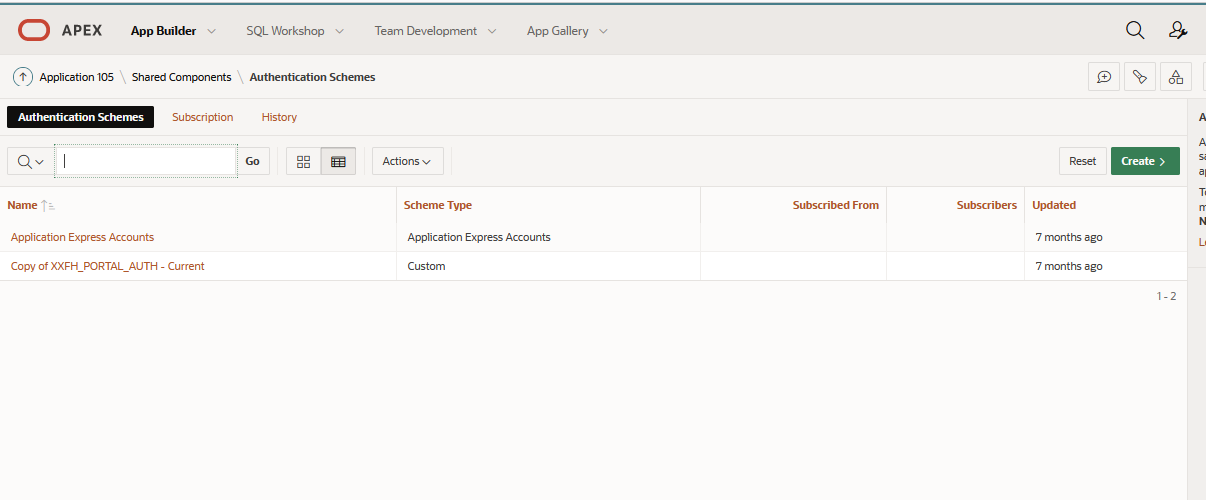
Cycle Count application can be accessed via Fusion application, any of the following custom roles are required to access it, however the functionality access within bolt-on shall be different as per the role:

|  |  |  |
| --- | --- | --- |
| SI No | Role Code | Meaning |
| 1 | JOB\_CYCLE\_COUNT\_SCM | Users in fusion with this role can access the application. |

## Apex application Authentication scheme

Item management application’s authentication is validated using the following authentication scheme defined within Oracle APEX. This authentication scheme basically invokes a procedure: XXFH\_CUSTOM\_AUTH.ITEM\_AUTHENTICATE\_USER by passing the entered username & password. This procedure validates this credential against the details present in XXFH\_PER\_USERS table and allow successful login to the application if the credentials & access are correct. Otherwise, user get “invalid credential” error.

XXFH\_PER\_USERS.ITEM\_APP\_ACCESS\_FLAG is set to Y if the given user has any of the 5 roles assigned for Item (defined under 6.3 section). This flag is also validated within this procedure to check if the given user should be able to login to the Item management application or not.



## Apex application List of Values

NA

# Assumptions / Considerations

The Proposed Solution will have the following technical considerations.

In the future, if any product bug arises in functionality then this process needs to be revisited after the bug is fixed.

# Open and Closed Issues

## Open Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Closed Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
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