DS.140 Integration Design Specification



Item Planning load demand Integration

SCM\_RICE\_318

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**Approvals:**

|  |  |
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# Document Control

## Change Record

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2

## Reviewers

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

Contents

1 Document Control ii

1.1 Change Record ii

1.2 Reviewers ii

2 Introduction 4

2.1.1 Scope for this Document 4

2.1.2 Intended Audience 4

3 Overview 5

3.1 Business Objectives 5

3.2 Major Features 5

3.3 Glossary 5

4 High-Level Fusion Integration flow 6

5 Technical Design Details 7

5.1 OIC Services 7

5.2 Oracle PaaS DBCS components 8

5.3 Technical flow 8

6 Data FIELD Mapping 23

6.1 File format 23

6.2 Frequency 23

7 Exception handling 24

7.1 Scenarios 24

8 Assumptions / Considerations 25

9 Open and Closed Issues 26

9.1 Open Issues 26

9.2 Closed Issues 26

# Introduction

### Scope for this Document

This analysis specification document is prepared to layout the design for an integration to load the planning demand in Fusion application based on the transactions of the last 56 days.

### 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 for an integration to load the planning demand in Fusion application based on the transactions of the last 56 days.

## Business Objectives

The following are the business objectives.

1. To have a secure, reliable, and scalable design flow to extract and load the planning demand data.
2. To have a solution providing the monitoring capabilities.

## Major Features

The proposed solution will have the following features involved:

1. OIC integration invokes Fusion ESS job (BI report) to fetch the eligible planning demand data in the FBDI format.
2. The OIC integration then invokes the seeded ESS job: Load Interface File for Import to upload this data in Fusion application.

## Glossary

REST

Representational State Transfer.

OIC

Oracle Integration Cloud

ESS

Enterprise Scheduler Service

# High-Level Fusion Integration flow



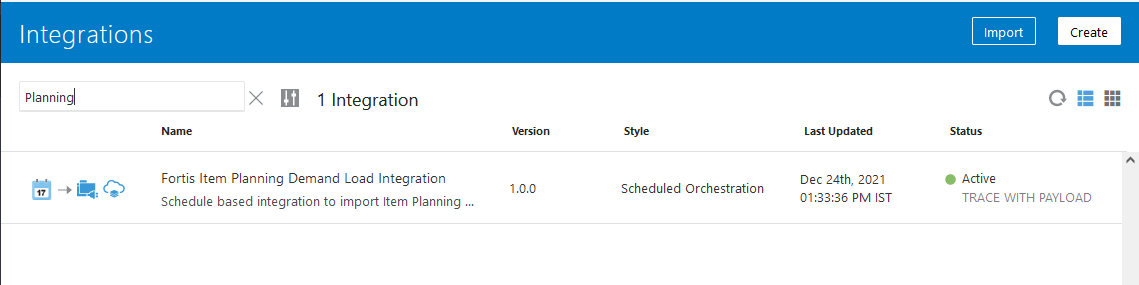
# Technical Design Details

This section describes the technical details of all the components involved in the design for an integration to load the planning demand in Fusion.

## OIC Services

A scheduled orchestration has been designed in OIC to load the planning demand in the system:

|  |  |
| --- | --- |
| **OIC Integration Name** | Fortis Item Planning Demand Load Integration |
| **OIC REST Endpoint URL** | [NA](https://oic-prod-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443/ic/api/integration/v1/flows/rest/FORTI_TRIGG_AUTO_PR_CANCEL_INTG/1.0/prCancellation/) |
| **Method** | NA |
| **Frequency** | Daily, 11 PM IST |



## Oracle PaaS DBCS components

This integration design does not use any DBCS related component.

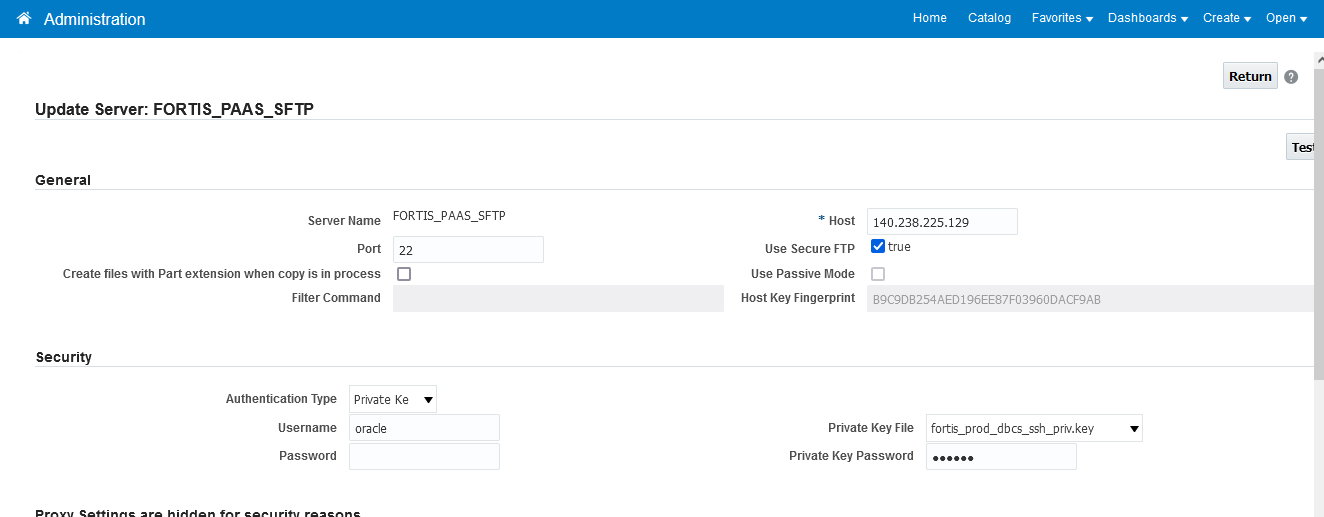
## Technical flow

Following is the complete technical flow for this integration design:

1. The OIC integration invokes ESS Job: Fortis Item Org Demand Load Report (path: /oracle/apps/ess/custom/scm/inv) which internally invokes BI Report: Fortis Item Org Demand Load Report to fetch the eligible data as per 4 planners from the system.
2. This ESS job (or BI report) has the following input parameters:

|  |  |
| --- | --- |
| **Input parameter name** | **Details** |
| P\_FTP\_SERVER | The BI server alias name, where the report output needs to be bursted. |
| P\_FTP\_PATH | The SFTP server path of PaaS DBCS |
| P\_FILE\_NAME | The output file name of the report output |
| P\_PLANNER\_A | Possible values as Y/N. If this parameter is passed as ‘Y’, then transactions for Planner A will be fetched from the system. |
| P\_PLANNER\_B | Possible values as Y/N. If this parameter is passed as ‘Y’, then transactions for Planner B will be fetched from the system. |
| P\_PLANNER\_C | Possible values as Y/N. If this parameter is passed as ‘Y’, then transactions for Planner C will be fetched from the system. |
| P\_PLANNER\_D | Possible values as Y/N. If this parameter is passed as ‘Y’, then transactions for Planner D will be fetched from the system. |

1. The SFTP Server has been configured in BI Admin > Delivery Channel > FTP with the details of PaaS DBCS SFTP server. The server name: FORTIS\_PAAS\_SFTP is then used as an input parameter value in the above BI report.



1. This BI report uses the following query to fetch the data. This query fetches the material transactions which have been created in IO (other than FMO) and for transaction type: (Department Consumption, Patient Consumption, OPD Pharmacy Consumption, Departmental Consumption – Adjustment, Patient Return) in the last 56 days.

SELECT \* FROM (

SELECT 'OPS' AS KEY,

iop.organization\_code organization\_code,

1 forecast\_prioprity,

egib.item\_number item\_name,

NULL demand\_class,

1 bucket\_type,

NULL forecast\_mad,

mp.planner\_code forecast\_designator,

round(((ABS(SUM(imt.transaction\_quantity))/56)\*7)/6,0) using\_requirement\_quantity,

NULL using\_assembly\_item\_name,

to\_char(xx.date1,'yyyy/mm/dd') using\_assembly\_demand\_date,

NULL AS customer\_name,

NULL AS customer\_site\_code,

NULL AS forecast\_mape,

NULL AS forecast\_intermit\_demand\_flag,

NULL AS forecast\_avg\_interarrival\_time,

NULL AS disable\_date,

NULL AS sub\_inventory\_code,

NULL AS global\_attribute\_number11,

NULL AS global\_attribute\_number12,

NULL AS global\_attribute\_number13,

NULL AS global\_attribute\_number14,

NULL AS global\_attribute\_number15,

NULL AS global\_attribute\_number16,

NULL AS global\_attribute\_number17,

NULL AS global\_attribute\_number18,

NULL AS global\_attribute\_number19,

NULL AS global\_attribute\_number20,

NULL AS global\_attribute\_number21,

NULL AS global\_attribute\_number22,

NULL AS global\_attribute\_number23,

NULL AS global\_attribute\_number24,

NULL AS global\_attribute\_number25,

'END' END

FROM inv\_material\_txns imt,

egp\_system\_items\_b egib,

inv\_secondary\_inventories isi,

inv\_org\_parameters iop ,

inv\_txn\_source\_types\_tl itst,

msc\_planners mp,

inv\_transaction\_types\_vl itt,

(SELECT A.date1

FROM (SELECT (TRUNC(sysdate)+70 - LEVEL) date1

FROM dual

WHERE 1=1 --TRIM(to\_char((TRUNC(sysdate)+70 -LEVEL),'DAY')) != 7

CONNECT BY LEVEL <=70 ORDER BY 1) A

WHERE ROWNUM <=56) xx

WHERE imt.inventory\_item\_id = egib.inventory\_item\_id

AND imt.organization\_id = iop.organization\_id

AND imt.organization\_id = egib.organization\_id

AND imt.subinventory\_code = isi.secondary\_inventory\_name

AND imt.organization\_id = isi.organization\_id

AND upper(isi.SECONDARY\_INVENTORY\_NAME) NOT LIKE '%RTV%'

AND imt.transaction\_source\_type\_id = itst.transaction\_source\_type\_id ( + )

AND egib.demand\_period IS NOT NULL

AND egib.planner\_code IS NOT NULL

AND egib.approval\_status ='A'

AND egib.inventory\_item\_status\_code = 'Active'

AND TRUNC(imt.transaction\_date)>=(TRUNC(sysdate)- 56) --egib.demand\_period)

AND mp.planner\_code = egib.planner\_code

AND itt.transaction\_type\_id = imt.transaction\_type\_id

AND nvl(:p\_planner\_a,'N') = 'Y'

AND mp.planner\_code = 'Planner A'

AND EXISTS (SELECT 1

FROM fnd\_lookup\_values flv

where flv.lookup\_type = 'INV\_MATERIAL\_PLANNING'

AND flv.lookup\_code = egib.INVENTORY\_PLANNING\_CODE

AND upper(flv.meaning) = upper('Reorder point planning')

AND flv.enabled\_flag = 'Y'

AND NVL(flv.end\_date\_active, SYSDATE+1) >= SYSDATE )

AND itt.transaction\_type\_name IN ('Department Consumption', 'Patient Consumption', 'OPD Pharmacy Consumption',

'Departmental Consumption - Adjustment', 'Patient Return')

AND iop.organization\_code ! = 'FMO'

AND EXISTS (SELECT 1

FROM inv\_organization\_definitions\_v iod

WHERE iod.organization\_id = iop.organization\_id

and (iod.ORGANIZATION\_NAME like 'DTH%'

OR iod.ORGANIZATION\_NAME like 'OP Pharmacy%'))

AND EXISTS (SELECT 1

FROM EGP\_ITEM\_CLASSES\_B eicb

WHERE egib.item\_catalog\_group\_id = eicb.item\_class\_id

AND eicb.ITEM\_CLASS\_CODE IN ('Pharmaceuticals', 'Medical\_Consumables', 'EXTN\_PH','EXTN\_MC'))

GROUP BY egib.item\_number,

iop.organization\_code,

mp.planner\_code,

xx.date1

UNION ALL

SELECT 'OPS' AS KEY,

iop.organization\_code organization\_code,

1 forecast\_prioprity,

egib.item\_number item\_name,

NULL demand\_class,

1 bucket\_type,

NULL forecast\_mad,

mp.planner\_code forecast\_designator,

round(((ABS(SUM(imt.transaction\_quantity))/56)\*7)/6,0) using\_requirement\_quantity,

NULL using\_assembly\_item\_name,

to\_char(xx.date1,'yyyy/mm/dd') using\_assembly\_demand\_date,

NULL AS customer\_name,

NULL AS customer\_site\_code,

NULL AS forecast\_mape,

NULL AS forecast\_intermit\_demand\_flag,

NULL AS forecast\_avg\_interarrival\_time,

NULL AS disable\_date,

NULL AS sub\_inventory\_code,

NULL AS global\_attribute\_number11,

NULL AS global\_attribute\_number12,

NULL AS global\_attribute\_number13,

NULL AS global\_attribute\_number14,

NULL AS global\_attribute\_number15,

NULL AS global\_attribute\_number16,

NULL AS global\_attribute\_number17,

NULL AS global\_attribute\_number18,

NULL AS global\_attribute\_number19,

NULL AS global\_attribute\_number20,

NULL AS global\_attribute\_number21,

NULL AS global\_attribute\_number22,

NULL AS global\_attribute\_number23,

NULL AS global\_attribute\_number24,

NULL AS global\_attribute\_number25,

'END' END

FROM inv\_material\_txns imt,

egp\_system\_items\_b egib,

inv\_secondary\_inventories isi,

inv\_org\_parameters iop ,

inv\_txn\_source\_types\_tl itst,

msc\_planners mp,

inv\_transaction\_types\_vl itt,

(SELECT A.date1

FROM (SELECT (TRUNC(sysdate)+70 - LEVEL) date1

FROM dual

WHERE 1=1 --TRIM(to\_char((TRUNC(sysdate)+70 -LEVEL),'DAY')) != 7

CONNECT BY LEVEL <=70 ORDER BY 1) A

WHERE ROWNUM <=56) xx

WHERE imt.inventory\_item\_id = egib.inventory\_item\_id

AND imt.organization\_id = iop.organization\_id

AND imt.organization\_id = egib.organization\_id

AND imt.subinventory\_code = isi.secondary\_inventory\_name

AND imt.organization\_id = isi.organization\_id

AND upper(isi.SECONDARY\_INVENTORY\_NAME) NOT LIKE '%RTV%'

AND imt.transaction\_source\_type\_id = itst.transaction\_source\_type\_id ( + )

AND egib.demand\_period IS NOT NULL

AND egib.planner\_code IS NOT NULL

AND egib.approval\_status ='A'

AND egib.inventory\_item\_status\_code = 'Active'

AND TRUNC(imt.transaction\_date)>=(TRUNC(sysdate)- 56) --egib.demand\_period)

AND mp.planner\_code = egib.planner\_code

AND itt.transaction\_type\_id = imt.transaction\_type\_id

AND nvl(:p\_planner\_b,'N') = 'Y'

AND mp.planner\_code = 'Planner B'

AND EXISTS (SELECT 1

FROM fnd\_lookup\_values flv

where flv.lookup\_type = 'INV\_MATERIAL\_PLANNING'

AND flv.lookup\_code = egib.INVENTORY\_PLANNING\_CODE

AND upper(flv.meaning) = upper('Reorder point planning')

AND flv.enabled\_flag = 'Y'

AND NVL(flv.end\_date\_active, SYSDATE+1) >= SYSDATE )

AND itt.transaction\_type\_name IN ('Department Consumption', 'Patient Consumption', 'OPD Pharmacy Consumption',

'Departmental Consumption - Adjustment', 'Patient Return')

AND iop.organization\_code ! = 'FMO'

AND EXISTS (SELECT 1

FROM inv\_organization\_definitions\_v iod

WHERE iod.organization\_id = iop.organization\_id

and (iod.ORGANIZATION\_NAME like 'DTH%'

OR iod.ORGANIZATION\_NAME like 'OP Pharmacy%'))

AND EXISTS (SELECT 1

FROM EGP\_ITEM\_CLASSES\_B eicb

WHERE egib.item\_catalog\_group\_id = eicb.item\_class\_id

AND eicb.ITEM\_CLASS\_CODE IN ('Pharmaceuticals', 'Medical\_Consumables', 'EXTN\_PH','EXTN\_MC'))

GROUP BY egib.item\_number,

iop.organization\_code,

mp.planner\_code,

xx.date1

UNION ALL

SELECT 'OPS' AS KEY,

iop.organization\_code organization\_code,

1 forecast\_prioprity,

egib.item\_number item\_name,

NULL demand\_class,

1 bucket\_type,

NULL forecast\_mad,

mp.planner\_code forecast\_designator,

round(((ABS(SUM(imt.transaction\_quantity))/56)\*7)/6,0) using\_requirement\_quantity,

NULL using\_assembly\_item\_name,

to\_char(xx.date1,'yyyy/mm/dd') using\_assembly\_demand\_date,

NULL AS customer\_name,

NULL AS customer\_site\_code,

NULL AS forecast\_mape,

NULL AS forecast\_intermit\_demand\_flag,

NULL AS forecast\_avg\_interarrival\_time,

NULL AS disable\_date,

NULL AS sub\_inventory\_code,

NULL AS global\_attribute\_number11,

NULL AS global\_attribute\_number12,

NULL AS global\_attribute\_number13,

NULL AS global\_attribute\_number14,

NULL AS global\_attribute\_number15,

NULL AS global\_attribute\_number16,

NULL AS global\_attribute\_number17,

NULL AS global\_attribute\_number18,

NULL AS global\_attribute\_number19,

NULL AS global\_attribute\_number20,

NULL AS global\_attribute\_number21,

NULL AS global\_attribute\_number22,

NULL AS global\_attribute\_number23,

NULL AS global\_attribute\_number24,

NULL AS global\_attribute\_number25,

'END' END

FROM inv\_material\_txns imt,

egp\_system\_items\_b egib,

inv\_secondary\_inventories isi,

inv\_org\_parameters iop ,

inv\_txn\_source\_types\_tl itst,

msc\_planners mp,

inv\_transaction\_types\_vl itt,

(SELECT A.date1

FROM (SELECT (TRUNC(sysdate)+70 - LEVEL) date1

FROM dual

WHERE 1=1 --TRIM(to\_char((TRUNC(sysdate)+70 -LEVEL),'DAY')) != 7

CONNECT BY LEVEL <=70 ORDER BY 1) A

WHERE ROWNUM <=56) xx

WHERE imt.inventory\_item\_id = egib.inventory\_item\_id

AND imt.organization\_id = iop.organization\_id

AND imt.organization\_id = egib.organization\_id

AND imt.subinventory\_code = isi.secondary\_inventory\_name

AND imt.organization\_id = isi.organization\_id

AND upper(isi.SECONDARY\_INVENTORY\_NAME) NOT LIKE '%RTV%'

AND imt.transaction\_source\_type\_id = itst.transaction\_source\_type\_id ( + )

AND egib.demand\_period IS NOT NULL

AND egib.planner\_code IS NOT NULL

AND egib.approval\_status ='A'

AND egib.inventory\_item\_status\_code = 'Active'

AND TRUNC(imt.transaction\_date)>=(TRUNC(sysdate)- 56) --egib.demand\_period)

AND mp.planner\_code = egib.planner\_code

AND itt.transaction\_type\_id = imt.transaction\_type\_id

AND nvl(:p\_planner\_c,'N') = 'Y'

AND mp.planner\_code = 'Planner C'

AND EXISTS (SELECT 1

FROM fnd\_lookup\_values flv

where flv.lookup\_type = 'INV\_MATERIAL\_PLANNING'

AND flv.lookup\_code = egib.INVENTORY\_PLANNING\_CODE

AND upper(flv.meaning) = upper('Reorder point planning')

AND flv.enabled\_flag = 'Y'

AND NVL(flv.end\_date\_active, SYSDATE+1) >= SYSDATE )

AND itt.transaction\_type\_name IN ('Department Consumption', 'Patient Consumption', 'OPD Pharmacy Consumption',

'Departmental Consumption - Adjustment', 'Patient Return')

AND iop.organization\_code ! = 'FMO'

AND EXISTS (SELECT 1

FROM inv\_organization\_definitions\_v iod

WHERE iod.organization\_id = iop.organization\_id

and (iod.ORGANIZATION\_NAME like 'DTH%'

OR iod.ORGANIZATION\_NAME like 'OP Pharmacy%'))

AND EXISTS (SELECT 1

FROM EGP\_ITEM\_CLASSES\_B eicb

WHERE egib.item\_catalog\_group\_id = eicb.item\_class\_id

AND eicb.ITEM\_CLASS\_CODE IN ('Pharmaceuticals', 'Medical\_Consumables', 'EXTN\_PH','EXTN\_MC'))

GROUP BY egib.item\_number,

iop.organization\_code,

mp.planner\_code,

xx.date1

UNION ALL

SELECT 'OPS' AS KEY,

iop.organization\_code organization\_code,

1 forecast\_prioprity,

egib.item\_number item\_name,

NULL demand\_class,

1 bucket\_type,

NULL forecast\_mad,

mp.planner\_code forecast\_designator,

round(((ABS(SUM(imt.transaction\_quantity))/56)\*7)/6,0) using\_requirement\_quantity,

NULL using\_assembly\_item\_name,

to\_char(xx.date1,'yyyy/mm/dd') using\_assembly\_demand\_date,

NULL AS customer\_name,

NULL AS customer\_site\_code,

NULL AS forecast\_mape,

NULL AS forecast\_intermit\_demand\_flag,

NULL AS forecast\_avg\_interarrival\_time,

NULL AS disable\_date,

NULL AS sub\_inventory\_code,

NULL AS global\_attribute\_number11,

NULL AS global\_attribute\_number12,

NULL AS global\_attribute\_number13,

NULL AS global\_attribute\_number14,

NULL AS global\_attribute\_number15,

NULL AS global\_attribute\_number16,

NULL AS global\_attribute\_number17,

NULL AS global\_attribute\_number18,

NULL AS global\_attribute\_number19,

NULL AS global\_attribute\_number20,

NULL AS global\_attribute\_number21,

NULL AS global\_attribute\_number22,

NULL AS global\_attribute\_number23,

NULL AS global\_attribute\_number24,

NULL AS global\_attribute\_number25,

'END' END

FROM inv\_material\_txns imt,

egp\_system\_items\_b egib,

inv\_secondary\_inventories isi,

inv\_org\_parameters iop ,

inv\_txn\_source\_types\_tl itst,

msc\_planners mp,

inv\_transaction\_types\_vl itt,

(SELECT A.date1

FROM (SELECT (TRUNC(sysdate)+70 - LEVEL) date1

FROM dual

WHERE 1=1 --TRIM(to\_char((TRUNC(sysdate)+70 -LEVEL),'DAY')) != 7

CONNECT BY LEVEL <=70 ORDER BY 1) A

WHERE ROWNUM <=56) xx

WHERE imt.inventory\_item\_id = egib.inventory\_item\_id

AND imt.organization\_id = iop.organization\_id

AND imt.organization\_id = egib.organization\_id

AND imt.subinventory\_code = isi.secondary\_inventory\_name

AND imt.organization\_id = isi.organization\_id

AND upper(isi.SECONDARY\_INVENTORY\_NAME) NOT LIKE '%RTV%'

AND imt.transaction\_source\_type\_id = itst.transaction\_source\_type\_id ( + )

AND egib.demand\_period IS NOT NULL

AND egib.planner\_code IS NOT NULL

AND egib.approval\_status ='A'

AND egib.inventory\_item\_status\_code = 'Active'

AND TRUNC(imt.transaction\_date)>=(TRUNC(sysdate)- 56) --egib.demand\_period)

AND mp.planner\_code = egib.planner\_code

AND itt.transaction\_type\_id = imt.transaction\_type\_id

AND nvl(:p\_planner\_d,'N') = 'Y'

AND mp.planner\_code = 'Planner D'

AND EXISTS (SELECT 1

FROM fnd\_lookup\_values flv

where flv.lookup\_type = 'INV\_MATERIAL\_PLANNING'

AND flv.lookup\_code = egib.INVENTORY\_PLANNING\_CODE

AND upper(flv.meaning) = upper('Reorder point planning')

AND flv.enabled\_flag = 'Y'

AND NVL(flv.end\_date\_active, SYSDATE+1) >= SYSDATE )

AND itt.transaction\_type\_name IN ('Department Consumption', 'Patient Consumption', 'OPD Pharmacy Consumption',

'Departmental Consumption - Adjustment', 'Patient Return')

AND iop.organization\_code ! = 'FMO'

AND EXISTS (SELECT 1

FROM inv\_organization\_definitions\_v iod

WHERE iod.organization\_id = iop.organization\_id

and (iod.ORGANIZATION\_NAME like 'DTH%'

OR iod.ORGANIZATION\_NAME like 'OP Pharmacy%'))

AND EXISTS (SELECT 1

FROM EGP\_ITEM\_CLASSES\_B eicb

WHERE egib.item\_catalog\_group\_id = eicb.item\_class\_id

AND eicb.ITEM\_CLASS\_CODE IN ('Pharmaceuticals', 'Medical\_Consumables', 'EXTN\_PH','EXTN\_MC'))

GROUP BY egib.item\_number,

iop.organization\_code,

mp.planner\_code,

xx.date1)

ORDER BY forecast\_designator,

using\_assembly\_demand\_date

1. This query uses the following formula to find the final quantity for ROL planning. It uses natural round off.

round(((ABS(SUM(imt.transaction\_quantity))/56)\*7)/6,0)

1. This OIC integration then invokes the seeded ESS job: Load Interface File for Import to load this file into the system. Once this ESS job completes, the OIC integration triggers an email notification with ESS job id for reference.

**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 |



# Data FIELD Mapping

NA

## File format

NA

## Frequency

The integration is scheduled to run daily at 11 PM IST.

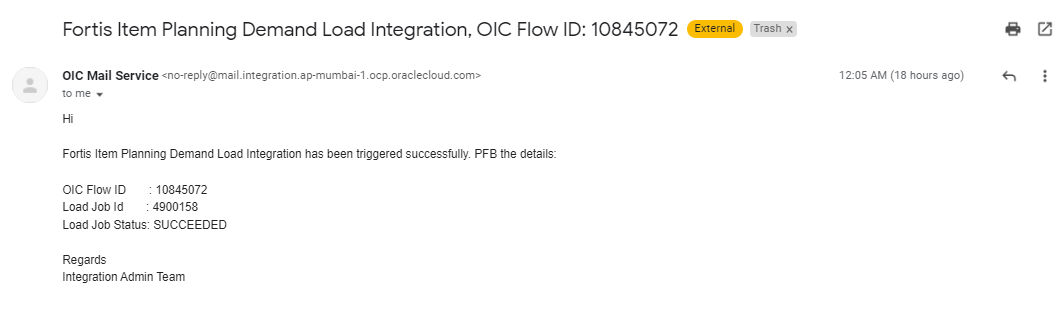
# Exception handling

There can be various scenarios for an error to occur. This section defines those error scenarios, and the exception handling has been done to notify and act accordingly.

## Scenarios

In a tabular format give list of scenarios and exception handling

* If any of the step or node fails within the OIC integration, Global Fault section is configured within this OIC integration to send an OIC error notification with relevant details.
* The email id has been stored in OIC Lookup: Fortis\_FaultNotification\_EmailAddress\_Lookup against the given OIC integration name.
* It also sends a notification once the integration completes with the details of the ESS job which have been processed in the given run. This notification also acts as a confirmation that the integration has been running fine.



# 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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|  |  |  |  |  |  |
|  |  |  |  |  |  |