DS.140 Integration Design Specification



Auto PR Close/Cancel Integration

SCM\_RICE\_005

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**Approvals:**

|  |  |
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| <Approver 2> | <Business Owner> |

# Document Control

## Change Record

| Date | Author | Version | Change Reference |
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| 19-May-2022 | Pranjul Garg | 1.0 | No Previous Document |
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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 design for an integration to auto cancel the PR line based on need by date.

### 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 auto cancel the PR line based on need by date.

## Business Objectives

The following are the business objectives.

1. To have a secure, reliable, and scalable design flow to validate and close/cancel the PR line where need by date has been passed.
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 BI report to fetch the eligible PR line which should be cancelled.
2. The OIC integration then invokes a REST API to cancel the given PR line.

## Glossary

REST

Representational State Transfer.

OIC

Oracle Integration Cloud

# High-Level Fusion Integration flow



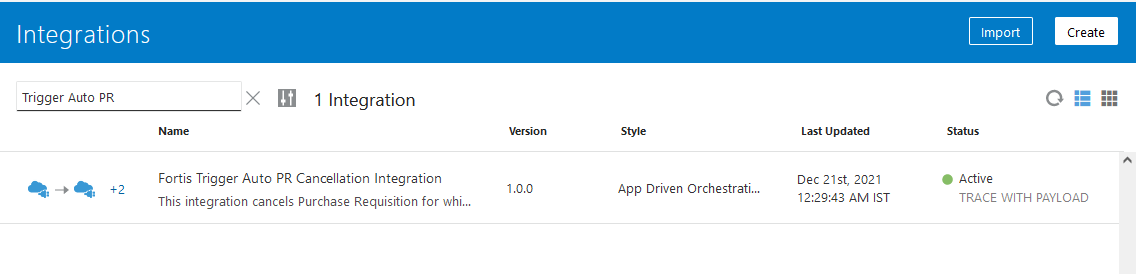
# Technical Design Details

This section describes the technical details of all the components involved in the design for an integration to auto cancel the PR line based on need by date.

## OIC Services

An App driven orchestration has been designed in OIC to build a REST Endpoint URL:

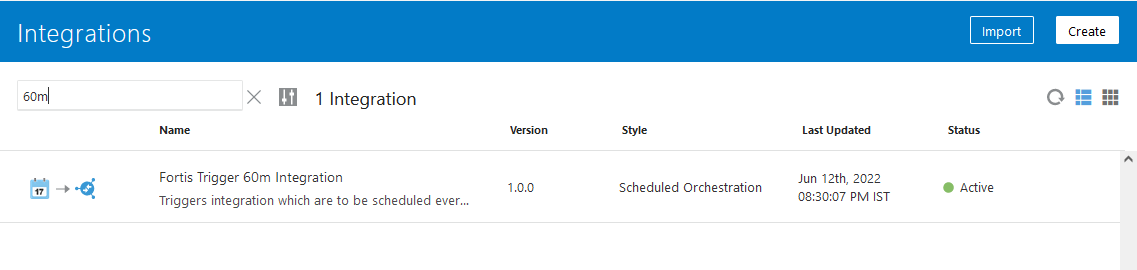
|  |  |
| --- | --- |
| **OIC Integration Name** | Fortis Trigger Auto PR Cancellation Integration |
| **OIC REST Endpoint URL** | <https://oic-prod-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443/ic/api/integration/v1/flows/rest/FORTI_TRIGG_AUTO_PR_CANCEL_INTG/1.0/prCancellation/> |
| **Method** | POST |



This is an app driven integration which is invoked via a following common scheduled OIC integration:

|  |  |
| --- | --- |
| **OIC Integration Name** | Fortis Trigger 60m Integration |
| **OIC REST Endpoint URL** | [NA](https://oic-prod-nr5lr39yailj-bo.integration.ocp.oraclecloud.com:443/ic/api/integration/v1/flows/rest/FORTIS_TRIG_GRN_PUT_AWAY_TXN_INT/1.0/grnPutAway/) |
| **Method** | NA |
| **Frequency** | Scheduled every 60 minutes |

This wrapper scheduled integration has been configured due to the limit of scheduled integrations within OIC. Hence all the required scheduled integrations have been clubbed together as per their required frequency.



## 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. A common scheduled OIC integration (Fortis Trigger 60m Integration) invokes this Auto PR cancellation integration.
2. The OIC integration invokes ESS Job: Fortis Cancel Purchase Requisition (path: /oracle/apps/ess/custom/XXFORTIS/PR) which internally invokes BI Report: Fortis Cancel PR Report to fetch the eligible PR where need by date has been passed.
3. This BI report uses the following query to fetch the eligible PR lines:

SELECT DISTINCT prla.REQUISITION\_HEADER\_ID

,prha.REQUISITION\_NUMBER

,prla.requisition\_line\_id

,prla.line\_number

,SYSDATE Cancel\_Date

,'Out of Date Range' Cancel\_reason

FROM POR\_REQUISITION\_LINES\_ALL prla

,POR\_REQUISITION\_HEADERS\_ALL prha

WHERE prla.need\_by\_date < SYSDATE

AND prha.requisition\_header\_id = prla.requisition\_header\_id

AND prha.document\_status = 'APPROVED'

AND prla.line\_status = 'APPROVED'

AND nvl(prha.emergency\_req\_flag,'N') = 'N'

AND NOT EXISTS (SELECT 1

FROM PO\_DISTRIBUTIONS\_ALL pda

,POR\_REQ\_DISTRIBUTIONS\_ALL prda

WHERE pda.req\_distribution\_id = prda.distribution\_id

AND prda.requisition\_line\_id = prla.requisition\_line\_id)

ORDER BY prla.requisition\_line\_id desc

1. This OIC integration then invokes the following REST API for each & every record to cancel the given line:

|  |  |
| --- | --- |
| REST API URL | https://fa-ermg-saasfaprod1.fa.ocs.oraclecloud.com/fscmRestApi/resources/11.13.18.05/purchaseRequisitions/{RequisitionHeaderId}/child/lines/{RequisitionLineId} |
| Method | POST |
| Request Payload | {  "name" : "cancel",  "parameters" : [ {  "cancelReason" : "Cancelled via REST"  } ]  } |
| Response Payload | {  "result" : {  "STATUS" : [ {  "CODE" : "SUCCESS"  } ]  }  } |

**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 GRN Put away integration is scheduled to run every 60 minutes.

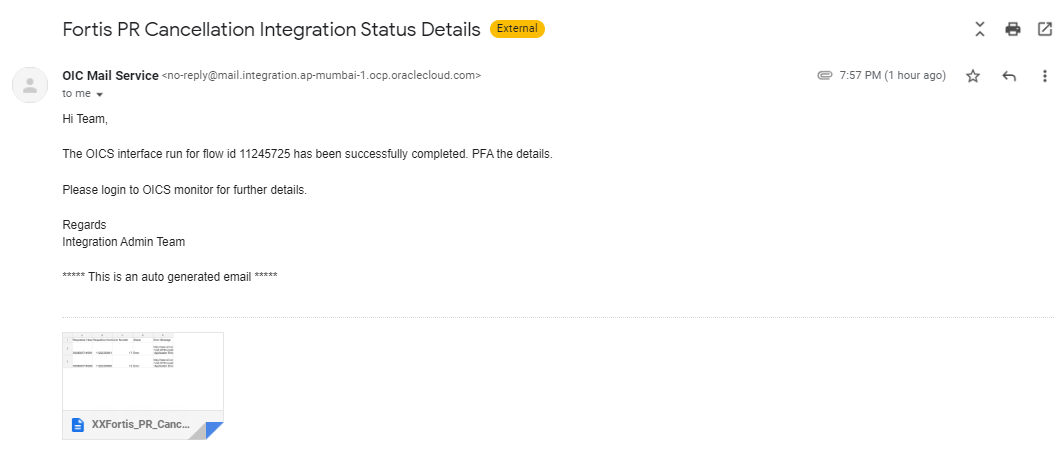
# Exception handling

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 every 10 minutes with the details of the GRN 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 |
| --- | --- | --- | --- | --- | --- |
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## Closed Issues

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