O2\_GENAI\_INT3818

Lean Specification

O2\_GENAI\_INT3818\_Items (Oracle to Logfire)

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# Summary

## Purpose/Justification

This document forms a basis for the detailed technical design for **Items (Oracle to Logfire)**.It captures all technical details to address the business requirements given in the functional specification “**XXXX – Items (Cloud to Logfire)**” for developing the “**CLIENTXX INV Items from Cloud to Logfire Interface**”. This document is intended to provide the developer with necessary information to implement effective and accurate “Items (Oracle to Logfire)” design and build.

## Integration Description and Overviews

NA

## Sample Output / Screen Layout

NA

## Definitions and Acronyms

| Acronym | Meaning | Description |
| --- | --- | --- |
| API | Application Programming Interface | The interface that a computer system, library or application provides in order to allow requests for services to be made of it by other computer programs, and/or to allow data to be exchanged between them. |
| FBDI | File Based Data Import | FBDI template for loading records through cloud application |
|  |  |  |
|  |  |  |

# Functional Design

## Integration Details

|  |  |
| --- | --- |
| Integration System Name | O2\_GENAI\_INT3818\_Items (Oracle to Logfire) |
| Integration Source |  |
| Integration Target |  |
| Delivery or Retrieval Method |  |
| Full Extract / Changes Only |  |
| Expected Volume | Normal: TBD  Peak: |
| Run Frequency/Schedule |  |
| Integration Notifications | Notifications will be sent to technical or functional resources depending upon the nature of the error. |

## Launch Parameters

NA

## Data Selection and Sorting

NA

## Data Mapping

NA

## Interface Trigger Details

NA

## Security & Control Requirements

NA

## Encryption Requirements

NA

## Error Handling Logic

NA

## Assumptions

DBCS needs to be refreshed whenever Cloud ERP is refreshed

## Application Setup Requirements

NA

## Test Scenarios

NA

# Oracle Cloud Technical Design

## Overview

This document defines the technical component details required to implement the configuration and customization for the “Items (Oracle to Logfire)”. This Technical Specifications (Clientxx Interface MD70120 LOG-INT-07 Items (Oracle to Logfire)) document complements the Functional Specifications (XXXX - Items (Cloud to Logfire)) document for Items Integration from Oracle to Logfire and the set should be considered as the complete detailed design.

.

## Detailed Integration Design

NA

## High Level Flow Diagram

NA

## Integration Process

|  |  |
| --- | --- |
| **Process Step** | **Description** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Integration Details

### Integration\_Name Integration Design

NA

|  |  |
| --- | --- |
| **Integration Design** | |
| **Integration System Name** | O2\_GENAI\_INT3818\_Items (Oracle to Logfire) |
| **Integration Type** | Inbound  Outbound |
| **Integration Tool** | HCM Extract  BIP  HDL  PBL  REST Services |
| **Data Source** (check all that apply) | Custom Report <insert report name>  Cloud Connect Template Type <specify CCW/PICOF/Other>  Web Service <insert WWS name or external web service>  File Inbound into Oracle <insert file name> |
|  |  |
| **Transformation** | Doc Transformation <name of file>  XSLT <name of XSLT file(s)>  None |
| **Delivery / Retrieval Service** | <insert delivery/retrieval details such as UCM/SFTP/PAAS> |
| **Output/Inbound Filename** | <filename or Not Applicable> |
| **File Format** | <csv, pipe delimited, Not Applicable> |
| **Sequence Generators** | <list> |
| **Document Retention** | <number of days> |
| **Integration System User** | <document the ISU or user ID of custom report owner> |
| **Integration System Security Group** | <document the ISSG or Not Applicable> |
| Additional Information | <Document any details not described above.> |

**<Needed in case of HCM Extracts>**

|  |  |
| --- | --- |
| **HCM Extract Details** | |
| **Entity Names** | * <list if applicable> |
| **Parameters** | * <list if applicable> |
| **Links** | * <document the logic, if applicable> |
| **Filters** | * <list if applicable> |

### HCM Extracts <Needed in case of HCM Extracts>

NA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HCM Extract Attribute Details** | | | | | |
| **Column** | **Entity Name** | **Attribute Name** | **Conditional Action** | **Conditional Replacement** | **Comments** |

### BI Reports <Needed in case of BI Reports>

NA

**<Needed in Case on Inbound Integrations>**

|  |  |
| --- | --- |
| **Integration Details** | |
| **Entity Names** | * Provide the HDL or PBL entity/entities which are getting loaded |
| **Integration Attributes** | * List of attributes |
| **Integration 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

NA

|  |  |
| --- | --- |
| Property Name | Value |
| File Format | csv/xml/Oracle FBDI etc |
| Sample Data File | <embed sample file> |

## Custom Database Objects

NA

|  |  |  |  |
| --- | --- | --- | --- |
| Schema | Object Name | Object Type | Purpose |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Custom Stored Procedures

NA

|  |  |  |  |
| --- | --- | --- | --- |
| Schema | Object Name | Object Type | Purpose |
|  |  | Procedure/Function/Package |  |
| Pseudocode |  | | |

## BI Publisher Report Details

|  |  |
| --- | --- |
| BI Publisher Details | |
| Data Model Name |  |
| Report SQL | <SQL Query> |

## FBDI Processing

NA

## Web Services

NA

## UCM Upload (for FBDI Processing)

NA

## Enterprise Scheduler Services (ESS)

NA

### ESS Job details

NA

| Program | Short Name | Application | Description | Executable Name | Output Format |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### ESS Parameters

NA

| Program Name | Parameter Name | Value | Comment |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Conditions and Filters

NA

| Sr. No | Data Condition | Business Rule |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

## Environment Configurations

NA

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameter Name | Environment | Value |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

## Validation & Error Handling

**Validations**

The validations provided below are specific to Items Integrations and the items extracted from cloud should follow below selection criteria.

Inventory Flag: ‘Yes’

Stock Enabled Flag: ‘Yes’

Item Code upto 40 Chars is considered.

Item Description with ‘,’ and ‘|’ are replaced both with ‘/’

The following information is entered, as necessary, for each unit received: Company Code, Item Code, Part A, Barcode, Unit Cost, Unit Length, Unit Width, Unit Height, Unit Weight, Unit Volume, Retail Price, Net Cost, Currency Code

**Error Handling**

1. When Cloud ERP System is down and the ERP Services are down

* ICS Integration process stops after sending an email notification to the specified email id.
* During the next scheduled integration process run, the unprocessed records will be picked up for processing.

1. When DBCS is down

* ICS Integration process stops after sending an email notification to the specified email id.
* During the next scheduled integration process run, the records will be picked up for processing.

1. When the records don’t get imported successfully

* The error messages and error codes are updated in the staging table for each record.
* Any failed records has to be corrected and the scheduled integration should be run. For immediate reprocessing, fire an adhoc run by clicking on Submit Now option in ICS Console. Else wait for next scheduled run of the interface so that this file will be processed.

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Error / Warning / Information | Description | Handling Process |
| 01 | Item not found: DCT700-SI REFURB | When an item is not available in logifire and the same item is run in update mode the logfire system throws and error. | If the item is not available in system then run update the item action code to ‘Create’ |
|  |  |  |  |

## Rollback & Recovery

NA

## Purging

NA

## Notification Requirements

NA

| Sr. No. | Error Scenario | Description | Action |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Security Requirement

Below are the security and control requirements for this interface:

|  |  |  |
| --- | --- | --- |
| **Security/Control ID** | **Description** | **Comments** |
|  |  |  |
|  |  |  |
|  |  |  |

## File and Directory Locations

NA

|  |
| --- |
| **ENVIRONMENT: Development** |

|  |  |
| --- | --- |
| SFTP 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

NA

## Components List

NA

## Data Selection Criteria

NA

## SQLs for Data Extraction/Selection/Filtration

SQL1

SELECT 'CLIENTXX' company\_code,

esib.item\_number item\_alternate\_code,

NULL part\_a,

NULL part\_b,

NULL part\_c,

NULL part\_d,

NULL part\_e,

NULL part\_f,

flv.meaning item\_type,

NULL pre\_pack\_code,

'CREATE' action\_code,

(SELECT esit.description

FROM egp\_system\_items\_tl esit

WHERE esib.inventory\_item\_id = esit.inventory\_item\_id

AND esib.organization\_id = esit.organization\_id

AND language = 'US'

) description,

esib.item\_number barcode,

NULL unit\_cost,

esib.unit\_length,

esib.unit\_width,

esib.unit\_height,

esib.unit\_weight,

esib.unit\_volume,

NULL hazmat,

NULL recv\_type,

NULL ob\_lpn\_type,

NULL catch\_weight\_method,

NULL order\_consolidation\_attr,

edc.abc\_class\_name season\_code,

NULL brand\_code,

NULL cust\_attr\_1,

NULL cust\_attr\_2,

list\_price\_per\_unit retail\_price,

NULL net\_cost,

'CAD' currency\_code,

NULL std\_pack\_qty,

NULL std\_pack\_length,

NULL std\_pack\_width,

NULL std\_pack\_height,

NULL std\_pack\_weight,

NULL std\_pack\_volume,

NULL std\_case\_qty,

NULL max\_case\_qty,

NULL std\_case\_length,

NULL std\_case\_width,

NULL std\_case\_height,

NULL std\_case\_weight,

NULL std\_case\_volume,

NULL dimension1,

NULL dimension2,

NULL dimension3,

NULL hierarchy1\_code,

NULL hierarchy1\_description,

NULL hierarchy2\_code,

NULL hierarchy2\_description,

NULL hierarchy3\_code,

NULL hierarchy3\_description,

NULL hierarchy4\_code,

NULL hierarchy4\_description,

NULL hierarchy5\_code,

NULL hierarchy5\_description,

NULL group\_code,

NULL group\_description,

NULL external\_style,

NULL vas\_group\_code,

NULL short\_descr,

cat.category\_name putaway\_type,

NULL conveyable,

NULL stackability\_code,

NULL sortable,

NULL min\_dispatch\_uom,

NULL product\_life,

NULL percent\_acceptable\_prod\_life,

NULL lpns\_per\_tier,

NULL tiers\_per\_pallet,

ndc.abc\_class\_name velocity\_code,

NULL req\_batch\_nbr\_flg,

serial\_number\_control\_code serial\_nbr\_tracking,

NULL regularity\_code,

NULL harmonized\_tariff\_code,

NULL harmonized\_tariff\_description,

NULL full\_oblpn\_type,

NULL case\_oblpn\_type,

NULL pack\_oblpn\_type,

cat.category\_name description\_2,

mfg.mfg\_part\_num description\_3,

NULL invn\_attr\_a\_tracking,

NULL invn\_attr\_a\_dflt\_value,

NULL invn\_attr\_b\_tracking,

NULL invn\_attr\_b\_dflt\_value,

NULL invn\_attr\_c\_tracking,

NULL invn\_attr\_c\_dflt\_value,

NULL nmfc\_code,

NULL conversion\_factor,

NULL invn\_attr\_d\_tracking,

NULL invn\_attr\_e\_tracking,

NULL invn\_attr\_f\_tracking,

NULL invn\_attr\_g\_tracking,

NULL host\_aware\_item\_flg,

NULL packing\_tolerance\_percent

FROM egp\_system\_items\_b esib,

inv\_org\_parameters iop,

fnd\_lookup\_values flv,

(SELECT eic.inventory\_item\_id,

organization\_id,

egv.category\_name

FROM egp\_item\_categories eic,

egp\_categories\_vl egv,

egp\_category\_sets\_vl ecsv

WHERE eic.category\_id =egv.category\_id

AND ecsv.category\_set\_id =eic.category\_set\_id

AND ecsv.category\_set\_name='CLIENTXX\_MTL\_APPROVAL\_CATALOG'

) cat,

(SELECT iaa.inventory\_item\_id,

iaa.assignment\_group\_id,

iaa.abc\_class\_id,

iac.abc\_class\_name

FROM inv\_abc\_assignment\_groups iaag,

inv\_abc\_assignments iaa,

inv\_abc\_classes iac

WHERE 1 =1

AND iaag.assignment\_group\_id=iaa.assignment\_group\_id

AND iaa.abc\_class\_id =iac.abc\_class\_id

AND assignment\_group\_name ='NDC ABC Assignment Group'

) ndc,

(SELECT iaa.inventory\_item\_id,

iaa.assignment\_group\_id,

iaa.abc\_class\_id,

iac.abc\_class\_name

FROM inv\_abc\_assignment\_groups iaag,

inv\_abc\_assignments iaa,

inv\_abc\_classes iac

WHERE 1 =1

AND iaag.assignment\_group\_id=iaa.assignment\_group\_id

AND iaa.abc\_class\_id =iac.abc\_class\_id

AND assignment\_group\_name ='EDC ABC Assignment Group'

) edc,

egp\_mfg\_part\_numbers mfg

WHERE 1 =1

AND esib.organization\_id = iop.organization\_id

AND iop.organization\_id = iop.master\_organization\_id

AND esib.inventory\_item\_id = cat.inventory\_item\_id(+)

AND esib.organization\_id = cat.organization\_id(+)

AND esib.inventory\_item\_id = ndc.inventory\_item\_id(+)

AND esib.inventory\_item\_id = edc.inventory\_item\_id(+)

AND esib.inventory\_item\_id = mfg.inventory\_item\_id(+)

AND iop.organization\_code = 'GLO'

AND esib.stock\_enabled\_flag = 'Y'

AND esib.inventory\_item\_flag = 'Y'

AND esib.item\_type = flv.lookup\_code

AND flv.lookup\_type = 'EGP\_ITEM\_TYPE'

AND flv.enabled\_flag = 'Y'

AND flv.language = userenv('LANG')

AND TO\_DATE(SUBSTR(esib.creation\_date,1, 10) || ' '

|| SUBSTR(esib.creation\_date,12,8),'YYYY-MM-DD HH24:MI:SS') > TO\_DATE(SUBSTR('

SQL2

SELECT 'CLIENTXX' company\_code,

esib.item\_number item\_alternate\_code,

NULL part\_a,

NULL part\_b,

NULL part\_c,

NULL part\_d,

NULL part\_e,

NULL part\_f,

flv.meaning item\_type,

NULL pre\_pack\_code,

'UPDATE' action\_code,

(SELECT esit.description

FROM egp\_system\_items\_tl esit

WHERE esib.inventory\_item\_id = esit.inventory\_item\_id

AND esib.organization\_id = esit.organization\_id

AND language = 'US'

) description,

esib.item\_number barcode,

NULL unit\_cost,

esib.unit\_length,

esib.unit\_width,

esib.unit\_height,

esib.unit\_weight,

esib.unit\_volume,

NULL hazmat,

NULL recv\_type,

NULL ob\_lpn\_type,

NULL catch\_weight\_method,

NULL order\_consolidation\_attr,

edc.abc\_class\_name season\_code,

NULL brand\_code,

NULL cust\_attr\_1,

NULL cust\_attr\_2,

list\_price\_per\_unit retail\_price,

NULL net\_cost,

'CAD' currency\_code,

NULL std\_pack\_qty,

NULL std\_pack\_length,

NULL std\_pack\_width,

NULL std\_pack\_height,

NULL std\_pack\_weight,

NULL std\_pack\_volume,

NULL std\_case\_qty,

NULL max\_case\_qty,

NULL std\_case\_length,

NULL std\_case\_width,

NULL std\_case\_height,

NULL std\_case\_weight,

NULL std\_case\_volume,

NULL dimension1,

NULL dimension2,

NULL dimension3,

NULL hierarchy1\_code,

NULL hierarchy1\_description,

NULL hierarchy2\_code,

NULL hierarchy2\_description,

NULL hierarchy3\_code,

NULL hierarchy3\_description,

NULL hierarchy4\_code,

NULL hierarchy4\_description,

NULL hierarchy5\_code,

NULL hierarchy5\_description,

NULL group\_code,

NULL group\_description,

NULL external\_style,

NULL vas\_group\_code,

NULL short\_descr,

cat.category\_name putaway\_type,

NULL conveyable,

NULL stackability\_code,

NULL sortable,

NULL min\_dispatch\_uom,

NULL product\_life,

NULL percent\_acceptable\_prod\_life,

NULL lpns\_per\_tier,

NULL tiers\_per\_pallet,

ndc.abc\_class\_name velocity\_code,

NULL req\_batch\_nbr\_flg,

serial\_number\_control\_code serial\_nbr\_tracking,

NULL regularity\_code,

NULL harmonized\_tariff\_code,

NULL harmonized\_tariff\_description,

NULL full\_oblpn\_type,

NULL case\_oblpn\_type,

NULL pack\_oblpn\_type,

cat.category\_name description\_2,

mfg.mfg\_part\_num description\_3,

NULL invn\_attr\_a\_tracking,

NULL invn\_attr\_a\_dflt\_value,

NULL invn\_attr\_b\_tracking,

NULL invn\_attr\_b\_dflt\_value,

NULL invn\_attr\_c\_tracking,

NULL invn\_attr\_c\_dflt\_value,

NULL nmfc\_code,

NULL conversion\_factor,

NULL invn\_attr\_d\_tracking,

NULL invn\_attr\_e\_tracking,

NULL invn\_attr\_f\_tracking,

NULL invn\_attr\_g\_tracking,

NULL host\_aware\_item\_flg,

NULL packing\_tolerance\_percent

FROM egp\_system\_items\_b esib,

inv\_org\_parameters iop,

fnd\_lookup\_values flv,

(SELECT eic.inventory\_item\_id,

organization\_id,

egv.category\_name

FROM egp\_item\_categories eic,

egp\_categories\_vl egv,

egp\_category\_sets\_vl ecsv

WHERE eic.category\_id =egv.category\_id

AND ecsv.category\_set\_id =eic.category\_set\_id

AND ecsv.category\_set\_name='CLIENTXX\_MTL\_APPROVAL\_CATALOG'

) cat,

(SELECT iaa.inventory\_item\_id,

iaa.assignment\_group\_id,

iaa.abc\_class\_id,

iac.abc\_class\_name

FROM inv\_abc\_assignment\_groups iaag,

inv\_abc\_assignments iaa,

inv\_abc\_classes iac

WHERE 1 =1

AND iaag.assignment\_group\_id=iaa.assignment\_group\_id

AND iaa.abc\_class\_id =iac.abc\_class\_id

AND assignment\_group\_name ='NDC ABC Assignment Group'

) ndc,

(SELECT iaa.inventory\_item\_id,

iaa.assignment\_group\_id,

iaa.abc\_class\_id,

iac.abc\_class\_name

FROM inv\_abc\_assignment\_groups iaag,

inv\_abc\_assignments iaa,

inv\_abc\_classes iac

WHERE 1 =1

AND iaag.assignment\_group\_id=iaa.assignment\_group\_id

AND iaa.abc\_class\_id =iac.abc\_class\_id

AND assignment\_group\_name ='EDC ABC Assignment Group'

) edc,

egp\_mfg\_part\_numbers mfg

WHERE 1 =1

AND esib.organization\_id = iop.organization\_id

AND iop.organization\_id = iop.master\_organization\_id

AND esib.inventory\_item\_id = cat.inventory\_item\_id(+)

AND esib.organization\_id = cat.organization\_id(+)

AND esib.inventory\_item\_id = ndc.inventory\_item\_id(+)

AND esib.inventory\_item\_id = edc.inventory\_item\_id(+)

AND esib.inventory\_item\_id = mfg.inventory\_item\_id(+)

AND iop.organization\_code = 'GLO'

AND esib.stock\_enabled\_flag = 'Y'

AND esib.inventory\_item\_flag = 'Y'

AND esib.item\_type = flv.lookup\_code

AND flv.lookup\_type = 'EGP\_ITEM\_TYPE'

AND flv.enabled\_flag = 'Y'

AND flv.language = userenv('LANG')

AND TO\_DATE(SUBSTR(esib.creation\_date,1, 10)

|| ' '

|| SUBSTR(esib.creation\_date,12,8),'YYYY-MM-DD HH24:MI:SS') < TO\_DATE(SUBSTR('

## Data Transmission Mechanism (Required for Interfaces)

NA

## File Layout / Report Output

NA

Technical Unit Test

| Sr. No | Conditions to be tested | Expected Result | Executed? |
| --- | --- | --- | --- |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

# Application Setup and Technical Requirements

## Programs/Report and Parameters

NA

## ESS Program, Scheduling and Executables

NA

## Security and Controls Requirements

NA

## Archiving & Purging

NA

# Interface Reporting Requirements

## Data Validation & Error Reporting

NA

### Data Processing / Derivation / Validation / Transformation Rules

NA

### Error handling and Retry Mechanism

NA

## Data Reconciliation

NA

# Open and Closed Issues

## Open Issues

| Issue Id | Description | Opened By | Responsible | Due Date |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Closed Issues

| Issue Id | Description | Resolution | Signoff | Closed Date |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

# Appendix

NA