Banglalink

Banglalink Point Of Sale System [POS]

Design Specification – POS-ESS Integrations

INT106BL – Inventory Adjustment - Inbound POS to ESS

March 2022 (Release Draft 1)

# **Preface**

This document aims at documenting the integration proposed to be followed at Banglalink for the purpose of INT106BL Integrations.

This document would form the basis for team to start preparing Build for integration and migration of the data as well as rollover to various test environments during this deployment, eventually leading to conversion and integration of data to applications within the specified timelines of the project.

The Integration and Data Conversion Requirements and Strategy document would enable team in the following ways:

* The primary use of this document is to record and communicate the integration and data conversion scope, objectives, approach, and requirements.
* The development team will use this document to communicate the strategy for successfully Integrating to source system between POS and ESS.

This document requires distribution and communication with:

* Banglalink ESS team and POS Team stakeholders, who should understand and sign-off on the integration and conversion requirements and strategy

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# **Integration BUSINESS Requirements**

## **Integration Definition**

|  |  |
| --- | --- |
| Property | Value |
| Describe this integration | This interface will carry the Inventory Adjustment information of POS and create a CSV file in a FTP file location. |
| POS | ESS |
| Fusion Functional Area | ESS and External POS System |
| Fusion Process Area | Inventory Adjustment information in POS system for ESS |
| Service/Integration Name | Inventory Adjustment -Inbound FROM POS TO ESS |
| Type of Integration | Scheduled |
| Source | POS |
| Source Connector | CSV File in FTP file location |
| Target | ESS |
| Target Connector | Windows scheduler with .bat file |
| Input to the integration/what triggers this integration | Schedule |
| What do you want to call your integration? | INT106BL |
| Identifier | INT106BL |
| Version | 01.00.0000 |
| Which package does this integration belong to? | ESS – Inbound |
| Integration Tool Used | Windows scheduler with .bat file |

## **Purpose of the Integration**

The purpose of the integration is synchronizing Inventory adjusment information from POS system to ESS. POS system will be soul system to capture Inventory Adjustment information.

And for this integration, ESS & POS system will be synced with each other so that Inventory Adjustment information updated in both systems. INT106BL will facilitates Inventory Adjustment synchronization between these both systems.

|  |  |  |
| --- | --- | --- |
| **Type** | **Reference** | **Short Description** |
| Integration | INT106BL | This Integration will carry the Inventory Adjustment information of POS and create a CSV file in a FTP file location |

## **Audience**

This document is primarily aimed at:

* Banglalink POS Team
* ESS Integration development team

## **Related Documents**

The content of this document is based on the following reference documents.

|  |  |  |
| --- | --- | --- |
| Reference | Description | Version |
|  |  | V1.0 |

## **Integration Design**

This integration provides link between Inventory Adjustment information between POS and ESS.

Note: The yellow boxes indicate integration flow

## **High Level Integration Flow**

* POS system generate a CSV file and store it in a FTP file location.
* ESS team will fetch the CSV file and integrate it into their system.
* ESS system will receive the following information from POS.
  + organization\_code,product\_code, transaction\_quantity, transaction\_date, transaction\_code, item\_price

The below diagram represents the high-level steps/processes for this integration

* Invoke Inventory Adjusment information details from the CSV file
* Map POS to ESS attributes.

**POS system**

**ESS**

**INT106BL – Inventory Adjustment from POS to ESS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Type | Component | Solution | Schedule Frequency |
| 1 | Integration | Fetching required Inventory Adjustment information from POS system | Export data as CSV file in FTP file location | Daily |

## **Fields/Parameters Mapping**

Below is the templates and instructions from the user perspective on how the Inventory Adjustment information will need to be populated. The data structure, such as field names, formats, references, are the same for file and needs to be treated as a rule for the source system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CSV file column | DB column | Table | DataType | Example |
| organization\_code | centercode/ warehousecode | tblwarehouse/  tblcenter | VARCHAR2(100 BYTE) | CSS312 |
| product\_code | productcode | tblproduct | VARCHAR2(50 BYTE) | BKSWAP |
| transaction\_quantity | qty | tblwriteoffchild/  tblwhproductionchild | NUMBER(20,0) | 4 |
| transaction\_date | writeoffdate/ whproductiondate | tblwriteoffmaster/  tblwhproductionmaster | DATE | 31-DEC-15 |
| transaction\_code | writeoffcode/ whproductioncode | pos\_fn\_get\_price (productid, promotioncycleid) | VARCHAR2(20 BYTE) | WROF15CSS53169 |
| item\_price | pos\_fn\_get\_price (productid, promotioncycleid) | tblwarehouse/tblcenter | NUMBER | 50 |

**SQL Query**: “SELECT warehousecentercode AS organization\_code

, productcode AS product\_code

, transaction\_quantity

, transaction\_date

, transaction\_code

, pos\_fn\_get\_price (productid, promotioncycleid) AS item\_price

FROM (

SELECT cen.centercode AS warehousecentercode

, p.productcode

, c.qty AS transaction\_quantity

, m.writeoffdate AS transaction\_date

, m.writeoffcode AS transaction\_code

, p.productid

,( SELECT NVL (rfd.promotioncycleid, 0)

FROM tblrfdetails rfd

WHERE rfd.productid = p.productid

AND ROWNUM = 1) promotioncycleid

FROM tblwriteoffmaster m

JOIN tblwriteoffchild c ON m.writeoffid = c.writeoffid

JOIN tblcenter cen ON cen.centerid = c.warehousecenterid

JOIN tblproduct p ON c.productid = p.productid

UNION ALL

SELECT w.warehousecode AS warehousecentercode

, p.productcode

, pc.qty AS transaction\_quantity

, pm.whproductiondate AS transaction\_date

, pm.whproductioncode AS transaction\_code

, p.productid

,( SELECT NVL (rfd.promotioncycleid, 0)

FROM tblrfdetails rfd

WHERE rfd.productid = pc.productid

AND ROWNUM = 1) promotioncycleid

FROM tblwhproductionmaster pm

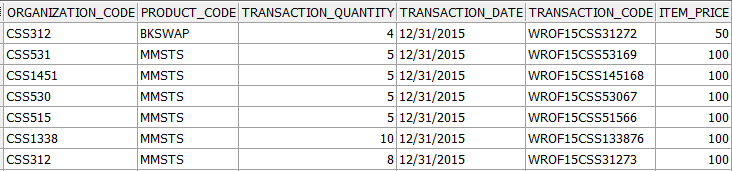
JOIN tblwhproductionchild pc ON pm.whproductionid = pc.whproductionid

JOIN tblwarehouse w ON pm.warehouseid = w.warehouseid

JOIN tblproduct p ON p.productid = pc.productid

)”

**Data Template:**



## **Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change Reference |
| 22-03-2022 | Hasib Ahmed Abir | Draft 1a | No Previous Document |
|  |  |  |  |

## **Reviewers**

# **Open Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Topic | Question | Status | Response |
| 001 |  |  |  |  |