Analysis and Design Specification

INT\_003 Purchase Order Receipt Inbound Interface

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# Document Control

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1

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# Executive Summary

Sanford Health is replacing their current legacy system with CloudSuite Finance and Supply Management (FSM). This document describes the Purchase Order Receipt interface requirements between **FSM and the following third-party systems: Niko Health, Made4Net, and SC Logic**

## Business Objectives

This **Inbound** interface intends to create a process by importing purchase order receipt records from Niko Health, Made4Net, SC Logic export files into Infor Financials and Supply Management (FSM), ensuring accurate and timely import of Purchase Order Receipt Records at a frequency of four times per hour.

## Assumptions

This specification assumes that the following statements are true. Any changes can result in a change of order and will be managed using the change order process as defined in the Service Workorder.

* The data/file exchange protocol is via Secured File Transfer Protocol (SFTP). The SFTP repository is provided and maintained by Sanford.
* The interface files generated by the source application are in FSM acceptable format and uploaded to the specified SFTP repository.
* The interface files will be processed as they get uploaded into the SFTP repository. Only files that follow the naming convention and uploaded to the correct folders are processed.
* The three interface files (Header, Line, and Detail) can be processed independently. It is possible to provide only the Header and Line files, as the Detail file is optional.
* If the existing Purchase Order already contains detail records and no Detail file is provided, the IPA will retain the existing detail information when updating the UOM, Quantity, and Unit Cost.
* If the existing Purchase Order does not contain any detail records and a Detail file is provided, the Purchase Order will not be updated.
* Sanford is responsible for ensuring the interface files contain valid data for processing and any error handling such as but not limited to resolving failed interface files.
* Infor is responsible for the configuration and development of the Process Flow that automates the consumption of interface files (Header and Line) from the SFTP repository and loads the data into the **PurchaseOrderReceiptImport** and **PurchaseOrderReceiptLineImport** business classes in the FSM environment.
* The Detail file is optional. If provided and contains Serial or Lot controlled items, the Process Flow will also automate the consumption of this file—**along with the Header and Line file when applicable**—and load the data into the **POReceiptInventoryDetailImport** business class.
* Niko Health, Made4Net, and SC Logic will provide the purchase order receipt import file in the format specified in the document.
* The file will be in a CSV pipe-delimited FSM format, and the data are compliant with FSM requirement for purchase order receipt interface import.
* Sanford will drop the files from the third-party systems into the SFTP folder at a frequency of every 20 minutes, continuously (24/7)
* The exact frequency of importing records is every 20 minutes, 24hours a day, including non-business days.
* The interface process will be automated to run at this scheduled time.
* Notifications will be sent to <TBD> when interface error occurs.
* Validation checks will be applied to ensure data quality, accuracy, and consistency before integration into FSM.
* The file will include all necessary fields as outlined in the Purchase Order Receipt Inbound Interface mapping section of this document.
* IPA will process first the files to update the Purchase Order Lines. *Refer to* [*EXT29 – Update PO UOM if Receipt Interface UOM.*](https://inforonline.sharepoint.com/:w:/r/sites/PWA-SanfordHealth/Shared%20Documents/050%20RICE%20Development/02%20Extensions/EXT29%20-%20Updating%20PO%20UOM%20if%20Receipt%20Interface%20UOM/SANFORD_%20ANA-050+DES-020_EXT_SCM_29_Updating%20PO%20UOM%20if%20Receipt%20Interface%20UOM.docx?d=w6211a14342434be2bd6d5d611507139f&csf=1&web=1&e=1kfCZb)
* Once PO Lines are updated, it will proceed to process and import PO Receipts.

# Functional Specifications

## Overview

This **inbound** interface needs to be created to load purchase order receipts from Niko Health, Made4Net, and SC Logic into Infor FSM.

The purpose of this document is to assemble all the information that is required to describe a complete Analysis Specification for the Niko Health, Made4Net, and SC Logic purchase order receipt interface to Infor FSM.

The document can also be thought as a “Functional Design Document”.

## Functional Requirements

|  |  |
| --- | --- |
| Functional Requirement ID | Requirement Definition |
| 1.1 | Sanford receives the purchase order receipts information from Niko Health, Made4Net, and SC Logic four times per hour. |
| 1.2 | IPA reads from the purchase order receipt input files in FSM format to create PO receipt records. |
| 1.3 | IPA processes files to update Purchase Order Lines. |
| 1.4 | IPA will pick up the receipt input file in FSM import format from the designated SFTP folder  IPA will consume the data and import the purchase order receipts in the following business class:   * **PurchaseOrderReceiptImport** * **PurchaseOrderReceiptLineImport**   ***Optional:***   * ***POReceiptInventoryDetailImport*** |
| 1.5 | If there are errors encountered upon Interface of the purchase order receipts, these errors will be stored and consolidated. Once all data is processed, an error file will be generated. IPA shall then send an email to <TBD*>* with the error report file. |
| 1.6 | Purchase Order Receipts created will be available on the Manage Purchase Order Receipts. |

1. Purchase order receipt FILES SENT TO A DESIGNATED SFTP FOLDER

Sanford will drop the purchase order receipt files from Niko Health, Made4Net, and SC Logic to the designated SFTP Folder. The following naming convention must be used:

|  |  |
| --- | --- |
| **Interface Type** | Inbound |
| **Source System** | Niko Health, Made4Net, SC logic |
| **Target System** | FSM |
| **Frequency** | Daily - every 20 minutes, continuously (24/7) |
| **Trigger** | Once PO is released. |
| **File Location** | SFTP: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/ |
| **File Name** | PORI\_<3rd Party System>\_xxx.csv  PORL\_<3rd Party System>\_xxx.csv  *Optional:*  *PORD\_<3rd Party System>\_xxx.csv*  **Where:**  PORI = PurchaseOrderReceiptImport  PORL = PurchaseOrderReceiptLineImport  *Optional:*  *PORD = POReceiptInventoryDetailImport*  **Third Party systems:**  M4NS = Made4Net Shipment  M4NR = Made4Net Receipt  SCLO = SC Logic  NIKO = Niko Health  xxx = indicator of the system and source system receipt/shipment number (Made4Net) |
| **File Format** | CSV pipe-delimited |
| **Archive File Location** | SFTP: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/Archive |
| **Archive File Name** | PORI\_<3rd Party System>\_xxx\_ar.csv  PORL\_<3rd Party System>\_xxx\_ar.csv  *Optional:*  *PORD\_<3rd Party System>\_xxx\_ar.csv* |
| **Error File Location** | SFTP: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/ Error |
| **Error File Name** | PORI\_<3rd Party System>\_xxx\_err.csv  PORL\_<3rd Party System>\_xxx\_err.csv  *Optional:*  *PORD\_<3rd Party System>\_xxx\_err.csv* |

1. IPA READS DATA FROM THE purchase order receipt INPUT FILE in FSM Format TO CREATE po receipt records

Upon pickup of the input file in the designated SFTP folder, the inbound interface will parse the file and map the data into the corresponding fields in the **PurchaseOrderReceiptImport**, **PurchaseOrderReceiptLineImport**, and, if applicable, the **POReceiptInventoryDetailImport** business classes. *Refer to Section 3.4 for the field mapping.*

1. IPA PROCESSEs FILES TO UPDATE PO LINES

When files are available in the designated SFTP Folder, IPA processes these files to update PO Lines. *Refer to* [*EXT29 – Update PO UOM if Receipt Interface UOM.*](https://inforonline.sharepoint.com/:w:/r/sites/PWA-SanfordHealth/Shared%20Documents/050%20RICE%20Development/02%20Extensions/EXT29%20-%20Updating%20PO%20UOM%20if%20Receipt%20Interface%20UOM/SANFORD_%20ANA-050+DES-020_EXT_SCM_29_Updating%20PO%20UOM%20if%20Receipt%20Interface%20UOM.docx?d=w6211a14342434be2bd6d5d611507139f&csf=1&web=1&e=1kfCZb)

1. IPA TRIGGERS Interface ACTION

Once PO Lines have been updated, purchase order receipts are imported. PO receipts will be available in the Interface maintenance table (**PurchaseOrderReceiptImport**) business class. IPA triggers interface action to create the records to target PurchaseOrderReceiptImport, PurchaseOrderReceiptLineImport, and, if applicable, the POReceiptInventoryDetailImport business classes.

IPA triggers interface action to create the records to target **Purchase Order Receipt** and detail business class.

Interface Purchase Order Receipt criteria: RunGroup, Company

A screenshot of a computer

AI-generated content may be incorrect.

|  |  |
| --- | --- |
| Purchase Order Receipt Interface File Fields | Parameters |
| Run Group | Naming Convention:  [Purchase Order Receipt Import (File Name Used for the Purchase Order Receipt)](#_Functional_Requirements) |
| Company |  |
| Release Receipt | Default = No |
| Release Option | Receive and Deliver |
| Allow Dropship Receivers |  |
| Allow Match On Either Item or Vendor Item |  |
| Include Records in Error |  |
| Move Errors To New Run Group |  |
| Error Run Group Prefix |  |

1. REVIEW Purchase order receipts RECORDS CREATED IN FSM

Purchase Order Receipts created will be available under Manage Purchase Order Receipts.

A screenshot of a computer

AI-generated content may be incorrect.

## Business Process Flow

A diagram of a flowchart

AI-generated content may be incorrect.

## Field Mapping

### Field Mapping for Purchase order receipt import business class

|  |  |
| --- | --- |
| FSM Field | Comment |
| Company | Map Default Company |
| PurchaseOrderReceiptImport | The one used in PO Receipt Import Interface |
| RunGroup | [The one used in for the file name of po receipt](#_Purchase_order_receipt) |
| InterfacedPurchaseOrder | Same as PurchaseOrderRecieptImport |
| Reference Number | Same as PurchaseOrderRecieptImport |
| BillOfLanding | Bill of Landing |
| ReceiptComments | Receipt Comments |

### Field Mapping for Purchase order receipt line import business class

|  |  |
| --- | --- |
| FSM Field | Comment |
| Company | Map Default Company |
| PurchaseOrderReceiptImport | The one used in PO Receipt Import Interface |
| PurchaseOrderReceiptLineImport.LineNumber | Line number |
| RunGroup | [The one used in for the file name of po receipt](#_Purchase_order_receipt) |
| PurchaseOrderReceiptLine.SequenceNumber | FSM Item number |
| Location | FSM ItemLocation |
| EnteredReceivedQuantity | Item type |
| ReceivedUOM | FSM Item UOM |
| OriginalUnitCost | Received Unit Cost of the item. |
| CancelBackorder | This indicates if Back Ordered items are to be cancelled or not. |
| RecComments | Receipt Comments |

### FIELD MAPPING FOR PURCHASE ORDER RECEIPT inventory detail IMPORT BUSINESS CLASS (IF APPLICABLE)

|  |  |
| --- | --- |
| FSM Field | Comment |
| Company | Map default company |
| PurchaseOrderReceiptImport | The one used in PO receipt import interface |
| LineNumber | Line number |
| SequenceNumber | Sequence Number |
| RunGroup | [The one used in for the file name of po receipt](#_Purchase_order_receipt) |
| Serial | Serial Number |
| Lot | Lot Number |
| Quantity | Item quantity |
| LotExpirationDate | Lot Expiration Date of item |

## Email Notification Requirements

If errors are encountered during the import and interface of the Purchase Order Receipts, they will be captured and consolidated. After all data has been processed, an error report file will be generated. IPA will then send an email to <TBD> with the attached error report:

* Purchase Order Update and Purchase Order Receipt Import – Completed Successfully
* Purchase Order Update and Purchase Order Receipt Import is – Completed With Errors
* Purchase Order Receipt Import Failed
* Purchase Order Receipt Line Import Failed
* Purchase Order Receipt Inventory Detail Import Failed
* Purchase Order Receipt Line File Not Found
* Purchase Order Receipt Inventory Detail File Not Found
* ProcessData Async Trigger Failed

### Purchase Order Update and Purchase Order Receipt Import – Completed Successfully

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Update and Purchase Order Receipt Import - Completed Successfully |
| Email Content | Purchase Order Line Update and Receipt Import completed successfully.  View Purchase Order Receipt Interface result by clicking here [link].  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase Order Update and Purchase Order Receipt Import – Completed With Errors

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Update and Purchase Order Receipt Import - Completed With Errors |
| Email Content | Purchase Order Line Update and Purchase Order Receipt Import completed with errors.  Please review: [Error Log] in the error directory: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/Error for more details and take necessary actions.  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase Order Receipt Import Failed

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Receipt Import Failed |
| Email Content | Importing of Purchase Order Receipt records has encountered an error.  Please review: [dbImport Error Log] in the error directory: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/Error for more details and take necessary actions.  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase Order Receipt Line Import Failed

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Receipt Line Import Failed |
| Email Content | Importing of Purchase Order Receipt Line records has encountered an error.  Please review: [dbImport Error Log] in the error directory: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/Error for more details and take necessary actions.  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase Order Receipt Inventory Detail Import Failed

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Receipt Inventory Detail Import Failed |
| Email Content | Importing of Purchase Order Receipt Inventory Detail records has encountered an error.  Please review: [dbImport Error Log] in the error directory: /Infor\_FSM/SAN/PurchaseOrderReceiptImport/Error for more details and take necessary actions.  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase order Receipt Line File Not Found

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Receipt Line File Not Found |
| Email Content | Purchase Order Receipt Line File [ReceiptLineFile] was not detected in the source directory /Infor\_FSM/SAN/PurchaseOrderReceiptImport  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Purchase order Receipt Inventory Detail File Not Found

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: Purchase Order Receipt Inventory Detail File Not Found |
| Email Content | Purchase Order Receipt Inventory Detail File [ReceiptLineFile] was not detected in the source directory /Infor\_FSM/SAN/PurchaseOrderReceiptImport  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

### Processdaya async trigger failed

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | WU [WorkUnit]: ProcessData Async Trigger Failed |
| Email Content | Processing of Purchase Order Receipt Import data has failed.  Review the Async Action Trigger: [AsyncActionTrigger] Business Class: [BusinessClass]. Delete the checkpoint if necessary and try again.  *The following information is for Infor Support reference purposes only:*  **Environment:** [Environment]  **Process Name:** [PorcessName]  **Work Unit:** [WorkUnit] |

# Technical Specifications

## Solution Overview

# Appendix

## Sample PO receipt Files

## Client Approval