Analysis and Design Specification

Sanford Health FSM Migration

EXT29 – Updating PO UOM if Receipt Interface UOM

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# Document Control

## Change Record

1

|  |  |  |  |
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| Date | Author | Version | Change Reference |
| 06/12/2025 | Julianne Sitoy | 1.0 | Initial draft: Executive Summary, Functional Specification, Testing Process |
| 06/23/2025 | Julianne Sitoy | 1.1 | Updated Initial draft: Executive Summary, Functional Specification, Testing Process |

## Reviewers

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| Name | Position |
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# Overview

## Summary

Sanford Health seeks an extension within the CloudSuite Finance and Supply Management (FSM) system to **update the Purchase Order UOM, in the Receipt Line**.

## Business Objectives

This extension is intended to create an IPA flow that will **update the existing Purchase Order lines** within Infor FSM using the receipt file provided from INT003 and then release the Purchase Order.

## Assumptions

This specification assumes that the following statements are true. Any changes can result in a change 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.
* Item UOM conversion should be setup in the item used in the Purchase Order Line. Only valid UOMs configured for the item can be used. If an invalid UOM is specified on the Purchase Order Line, an email notification will be triggered, indicating that the UOM is not valid for the item.
  + For more details, please see section [3.5 Email Notification Requirements.](#_ITEM_UOM_IS)
* Once files are placed in the designated SFTP folder, IPA processes them to update the Purchase Order lines.
* IPA will update the Purchase Order Lines using the receipt records from the third-party vendors (Made4Net, Niko Health, and SC Logic).
* The fields that the IPA flow will update are: UOM, Quantity, and Unit Cost.
* If the Unit Cost field in the Made4Net receipt file has value, the IPA will update the field. However, if the value is 0 or there is no value, no update will occur.
* IPA will process the Purchase Order receipt file to update the Purchase Order Lines in FSM.
* Purchase Order status (header and line) should be in released status. If the Purchase Order status is either unreleased or closed, the process will stop, and an email notification will be sent indicating the Purchase Order cannot be updated due to its status.
  + For more details, please see section [3.5 Email Notification Requirements.](#_PURCHASE_ORDER_STATUS)
* After the Purchase Order Lines are updated and released, the process will continue with the Receipt Interface flow.
  + Referencing: [INT003 – Purchase Order Receipt Inbound Interface.](https://inforonline.sharepoint.com/:w:/r/sites/PWA-SanfordHealth/Shared%20Documents/050%20RICE%20Development/01%20Interfaces/SC/INT_003%20-%20Receipt%20Interface/Sanford_ANA-050+DES-020_INT_003_Purchase%20Order%20Receipt%20Inbound%20Interface.docx?d=we872fefee5514dc09680c9b8a035d5c4&csf=1&web=1&e=jxvGP4)
* Functions not described are excluded from the deliverables.
* Sanford Health will maintain the configuration console setup in FSM.
* All pre-requisite setups applicable to testing the extension in FSM are completed *(Purchasing setup).*

# Functional Specifications

## Overview

Using the receipt interface file provided, this specification outlines the creation of an IPA flow designed to update existing Purchase Order Lines in FSM. The process will begin with the IPA flow processing the receipt interface file provided from the third-party vendors (Made4Net, Niko Health, and SC Logic), then mapping it to the corresponding Purchase Order and Purchase Order Line, and then updating the required fields UOM, Quantity, and Unit Cost (if needed). Finally, the flow will proceed to update and release the purchase order (PurchaseOrder and PurchaseOrderLine business class).

## Functional Requirements

|  |  |
| --- | --- |
| Functional Requirement ID | Requirement Definition |
| FR 1.1 | Purchase Order Receipt File |
| FR 1.2 | Receipt Files Placed in Designated SFTP Folder |
| FR 1.3 | Fields to Update |
| FR 1.4 | IPA Executes the Receipt Interface Process |

1. **PURCHASE ORDER RECEIPT FILE**

* The purchase order receipt file provided by third-party vendors—Made4Net, Niko Health, and SC Logic—will serve as the source for mapping the necessary fields used to update the UOM, Quantity, and Price.

A screenshot of a computer

AI-generated content may be incorrect.

* Additionally, the Purchase Order header and Purchase Order line must have a status of "Released" before any updates can be applied.

1. **RECEIPT FILES PLACED IN DESIGNATED SFTP FOLDER**

The third-party vendors (Made4Net, Niko Health, and SC Logic) sends Purchase Order Receipt files to a designated SFTP Folder. The IPA will then automatically process files in the specified SFTP folder to update the Purchase Order Line.

The following file 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)~~Four time per hour~~ |
| **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  PORD\_<3rd Party System>\_xxx.csv  **Where:**  PORI = PurchaseOrderReceiptImport  PORL = PurchaseOrderReceiptLineImport  PORD = POReceiptInventoryDetailImport  **Third Party systems:**  M4NS = Made4Net Shipment  M4NR = Made4Net Receipt  SCLO = SC Logic  NIKO = Niko Health  xxxx = 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  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  PORD\_<3rd Party System>\_xxx\_err.csv |

1. **FIELDS TO UPDATE**

|  |  |
| --- | --- |
| Business Class | Field Name |
| PurchaseOrderLine | EnteredBuyUOM |
| PurchaseOrderLine | Quantity |
| PurchaseOrderLine | VendorBuyUnitCost |

1. **IPA EXECUTES THE RECEIPT INTERFACE PROCESS**

After updating the Purchase Order Line, the IPA proceeds to execute the Receipt Interface process. Refer to the receipt interface documentation for further details:

[INT003 – Purchase Order Receipt Inbound Interface.](https://inforonline.sharepoint.com/:w:/r/sites/PWA-SanfordHealth/Shared%20Documents/050%20RICE%20Development/01%20Interfaces/SC/INT_003%20-%20Receipt%20Interface/Sanford_ANA-050+DES-020_INT_003_Purchase%20Order%20Receipt%20Inbound%20Interface.docx?d=w9e8a69e3449446fe84cc54e0ebf0c687&csf=1&web=1&e=crZ5Gw)

## Business Process Flows

A diagram of a process flow

AI-generated content may be incorrect.

## Field Mapping

### BUSINESS CLASS: PURCHASEORDER

|  |  |
| --- | --- |
| FSM Field | Comment |
| Company | Map Default Company (1) |
| PurchaseOrder | Purchase Order Number |

### BUSINESS CLASS: PURCHASEorderline

|  |  |
| --- | --- |
| FSM Field | Comment |
| Company | Map Default Company (1). |
| PurchaseOrder | Purchase order number associated with the purchase order receipt. |
| PurchaseOrderLine | Purchase order line number |
| Item | FSM Item identifier/number. |
| Quantity | Quantity of the item. |
| EnteredBuyUOM | The unit of measure in which you buy the item. |
| VendorBuyUnitCost | Unit cost of the item. |

## Email Notification Requirements

If errors are encountered during the 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:

* When the Item UOM is Invalid.
* When the status of the Purchase Order is either Unreleased or Closed.

### ITEM UOM IS INVALID NOTIFICATION

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | <!WorkUnit>: Item UOM is Invalid |
| Email Content | Item UOM is invalid.  Please review and update the UOM to ensure that a valid UOM associated with the item is used.  *This is a system-generated email by Infor Process Flow. Do not reply.*  Work Unit: <!WorkUnit> |

### PURCHASE ORDER STATUS IS UNRELEASED/CLOSED NOTIFICATION

|  |  |
| --- | --- |
| To | [RecipientList] |
| Cc | [CCRcipientList] |
| Subject | <!WorkUnit>: Purchase Order Status is [Purchase Order Status] |
| Email Content | Purchase Order Status is [Purchase Order Status]  Please note that both the Purchase Order header and line must be in a *Released* status for the update process to continue successfully.  *This is a system-generated email by Infor Process Flow. Do not reply.*  Work Unit: <!WorkUnit> |

# Technical Design

Section to be filled up by Technical Consultant. Remove sections that are not applicable. Artifacts such as but not limited to IPA and LPL should be regularly backed up for reference.

## Proposed Solution

Describe high level proposed solution. Add components, trigger code, flowchart, etc as applicable. If using Change Management, provide Tag ID to be used.

Add flow chart diagram for IPA.

# Appendix

## Client Approval

Applicable only if not using any approval trackers ex. IPON, JIRA.

Attach approval email.

By signing this document both Infor and <Client> agree and confirm their acceptance of information contained within this specification which encompasses detailed business processes, requirements, scope and solution design.