

# Background

ESH plans to use Odoo (version 8.0) as the backend system to collect their business transactions (sales, purchase, inventory and accounting). Their main business is trading of goods. Their main sales channels are e-commerce platforms such as Amazon, Rakuten, etc. They currently do not expect to integrate those e-commerce platforms directly with Odoo. However, they would like to make their operation as efficient as possible by eliminating some of manual operations in Odoo. They find manually replicating the transactions of e-commerce platforms in Odoo too tedious.

With regards to inventory management, they use a warehouse management system called Logizard. There is no direct integration expected between Logizard and Odoo, but they would like to process receipts and delivery by importing CSV files which originates from Logizard transactions.

## Module development requirements

### 1. Module development for purchase data import

- use connector-flow community module
- import purchase data CSV file [1]
- for each purchase record, process the following:
  - purchase order creation [2]
  - supplier invoice creation and validation with reference to the purchase order [3]
  - supplier payment creation and validation with reference to the invoice [4]

[1] User is expected to prepare purchase records in designated CSV format.

[2] Add some checking on imported records (e.g. existence of supplier/product, consistency between supplier currency and transaction currency, etc.)

[3] One-to-one relationship is expected between purchase orders and invoices

[4] One-to-one relationship is expected between supplier invoices and supplier payments.

No bank charges should be involved.

Note that there is chance that ESH later requests that product creation function be added to this - check if the product already exists in Odoo by matching with Internal Reference, create product in Odoo if it does not.

### 2. Module development for sales data import

- use `base\_import\_log` module for log management

- import sales data .xlsx file [1]
- for each sales record, process the following:
  - sales order creation
  - stock availability check to update the picking status
  - customer invoice creation and validation with reference to the sales order [2]
  - customer payment creation and validation with reference to the invoice [3]
- if there is an error in imported records, no transaction should be created (same as Purchase Data Import)

[1] User is expected to prepare sales records in designated .xlsx format.

[2] Add some checking on imported records (e.g. existence of customer/product, ~~consistency between customer currency and transaction currency~~, etc.)

[3] One-to-one relationship is expected between sales orders and customer invoices

[4] One-to-one relationship is expected between customer invoices and customer payments.  
No bank charges should be involved.

**Mustufa:**

1. Here we are creating delivery order which will not in draft state but if stock is completely available then ready to transfer and if stock is not available then error log?

Means if there is not stock available we never process that line and always show error untill all records in excel will get stock for ready to transfer ?

-> [Yoshi] No, there should be no error regardless of the result of stock availability checking. Even if there is no stock available (i.e. status is "Waiting Availability"), no error should be recorded, thus the step of availability check should never be the cause to block the processing of transactions for imported records.

2. Format/columns of excel will be same as PO import excel ?

-> [Yoshi] Yes, we would like to follow suit to purchase data import. I should be like below image.

A	B	C	D	E	F	G	H	I	J	K	L
Group	Customer	Line Product	Line Description	Line Unit Price	Line Qty	Line Tax	Notes	Pricelist	Warehouse	Picking Policy	Order Policy
a	山原花織	NTD3DS	ニンテンドー3DS シルバー	16000	1	(仮受消費税(内))		Pricelist JPY YourCompany		利用可能になった時に各製品を配達	オンデマンド
a	山原花織	TSBRBY	東芝 ロボット掃除機 トルネオ ロボ イエロー VC-RVD1-R	58000	1	(仮受消費税(内))		Pricelist JPY YourCompany		利用可能になった時に各製品を配達	オンデマンド
b	斎藤 まや	PNSRR	PANASONIC MC-RX1S-W レッド RULO(ルーロ) [ロボット掃除機]	75000	1	(仮受消費税(内))		Pricelist JPY YourCompany		利用可能になった時に各製品を配達	オンデマンド
c	小島 綾	TSBRBY	東芝 ロボット掃除機 トルネオ ロボ イエロー VC-RVD1-R	58000	1	(仮受消費税(内))		Pricelist JPY YourCompany		利用可能になった時に各製品を配達	オンデマンド

### 3. Module development for picking transfer data (receipts and deliveries) import

- use `base\_import\_log` module for log management
- import receipt/shipment data (reference numbers) .xlsx file [1]
- for each receipt/shipment record, process the following
  - process transfer in case all the stock moves for the picking are "ready to transfer" (for shipment, process availability check first)
  - otherwise, show error in the way user can identify the problem record
- if there is an error in imported records, no transaction should be created (same as Purchase Data Import)

[1] The import file should keep "PO Number" for receipts and "SO Number" for shipments. For clarity, we may separate wizards or fields in the wizard for receipts and shipments.

Module tentatively prepared:

[https://github.com/rfhk/odoo8.0-wip/tree/master/connector\\_flow\\_process\\_transfer](https://github.com/rfhk/odoo8.0-wip/tree/master/connector_flow_process_transfer)

Mustufa:

1. As we already process pickings while data import and it will be ready to transfer always for given SO number or PO number ?

-> [Yoshi] No, the pickings may still not be "Ready to Transfer" before availability check.

2. Means we have to check again availability even we checked in sales order import. ?

-> [Yoshi] Yes, we need to check the availability before transfer (delivery) just as you do in normal operation. The purpose of the availability check in sales data import is to update the status of pickings so that the warehouse operator can know what products to pick (and deliver).

Note: For PO import, incoming shipment is in draft state only so we have to only process here to **ready to transfer and transferred**.