



LS Retail

Item and Shelf Labels User Guide

LS Nav (2013 R2) 7.1



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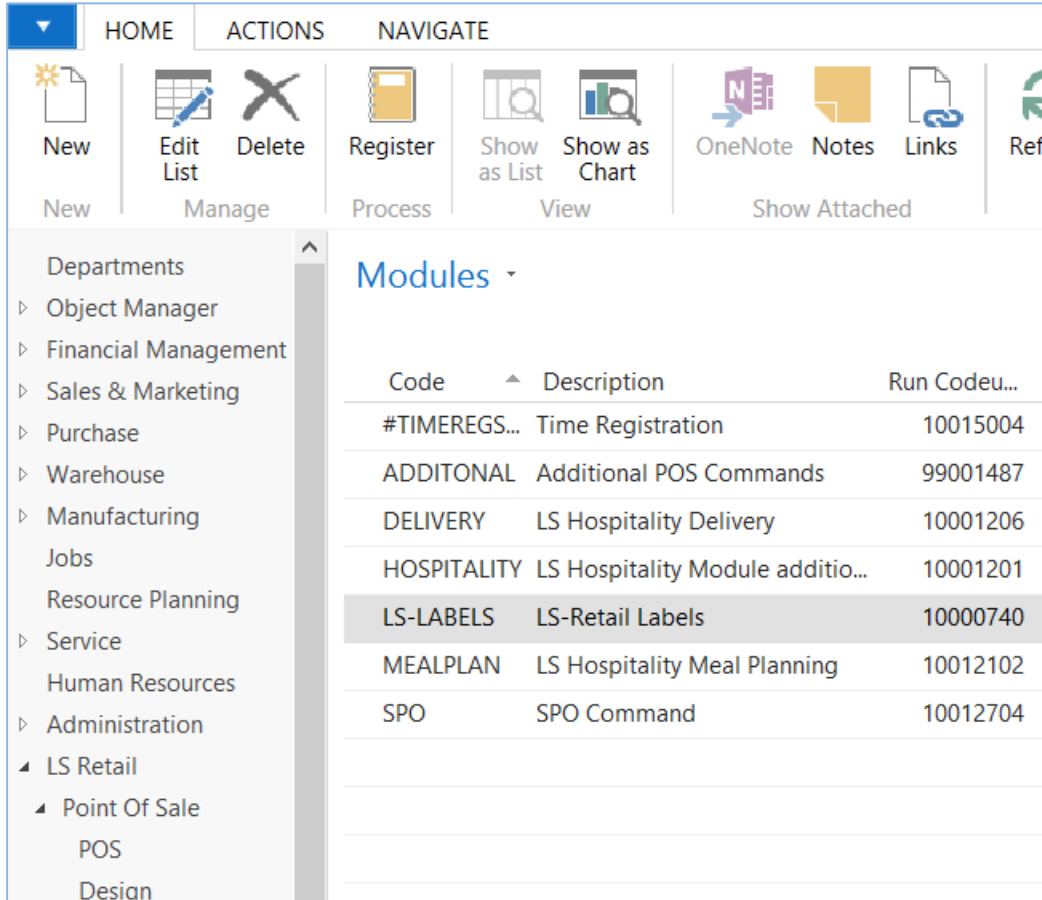
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1 Introduction

The purpose of this document is to give a quick overview of Item and Shelf Labels setup. A series of screenshots will lead the user through the procedure.

2 Label Setup

The first step in Label Setup is to register a new **Module**, Running Codeunit 10000740 at **LS Retail > Point Of Sale > Design > Functionality > Modules**.



The screenshot shows the 'Modules' list in the LS Retail software. The 'LS-LABELS' module is highlighted, indicating it is the selected module for registration. The list includes the following modules:

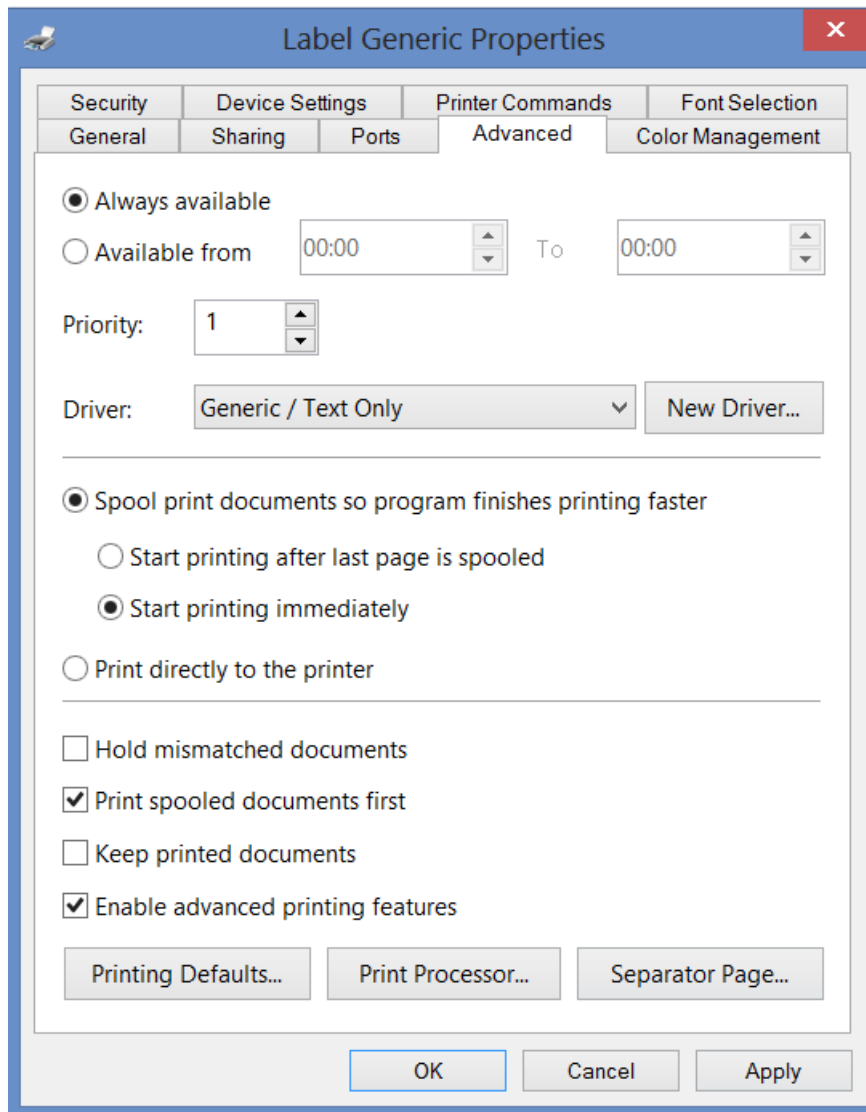
Code	Description	Run Codeu...
#TIMEREGS...	Time Registration	10015004
ADDITIONAL	Additional POS Commands	99001487
DELIVERY	LS Hospitality Delivery	10001206
HOSPITALITY	LS Hospitality Module additio...	10001201
LS-LABELS	LS-Retail Labels	10000740
MEALPLAN	LS Hospitality Meal Planning	10012102
SPO	SPO Command	10012704

- Registering this module will create 2 types of Labels.
 - One Shelf label “Continuous label 38x70 mm.”
 - One Item label “Adhesive label 71x120 mm.”
- Both these Label types are designed to work with the Zebra Printers through EPL coding.
- EPL2 Programming guide can be found online at :
https://support.zebra.com/cpws/docs/eltron/epl2/EPL2_Prog.pdf
- Labels are now printed using Codeunits. Predesigned Labels are designed in Codeunits 10000741 and 10000742.

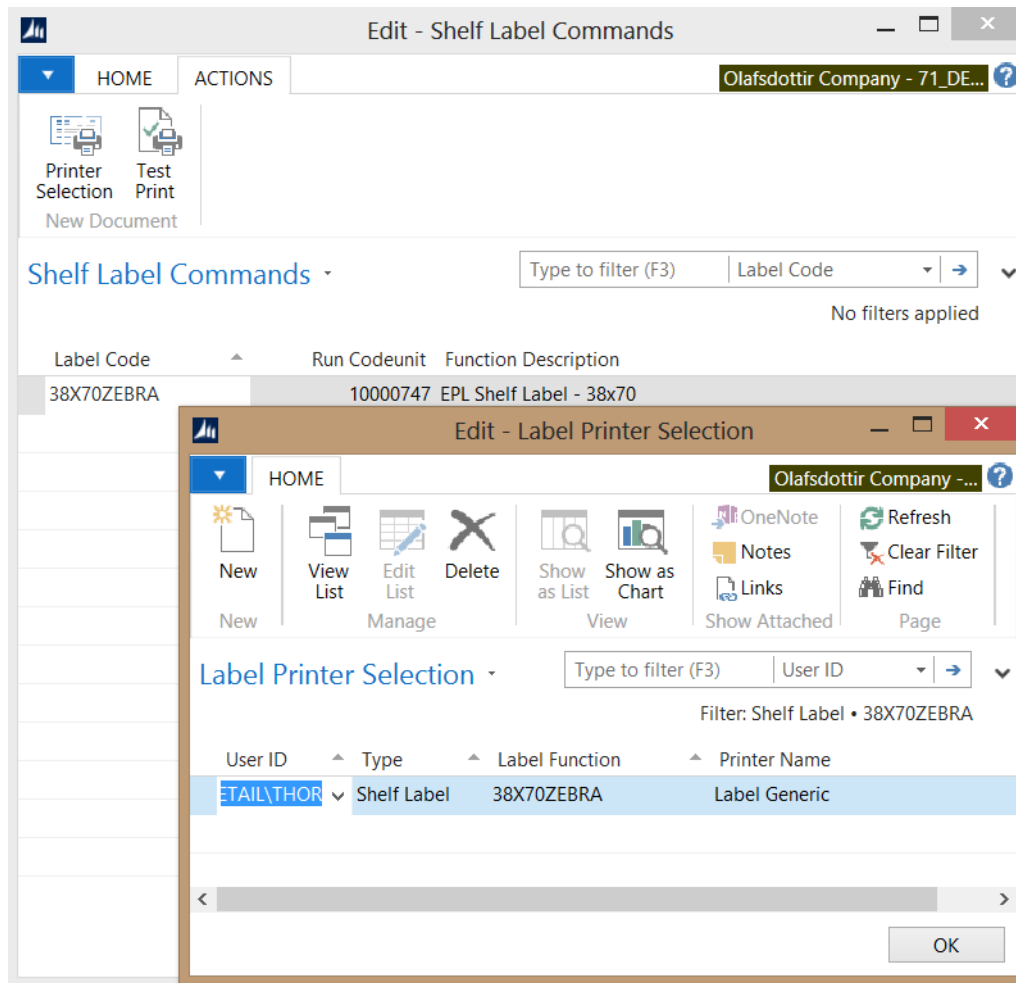
2.1 Printer Selection

Printer for EPL Labels must be created using “Generic Text”-driver.

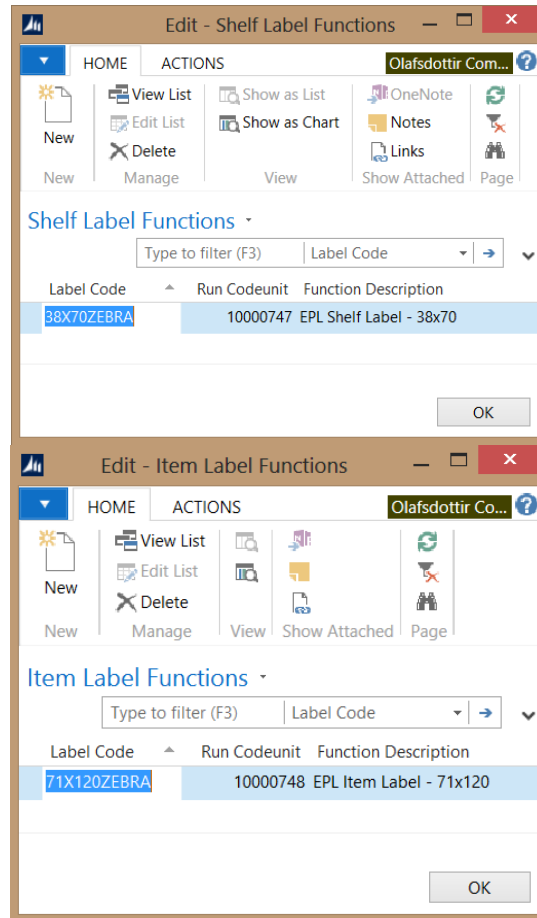
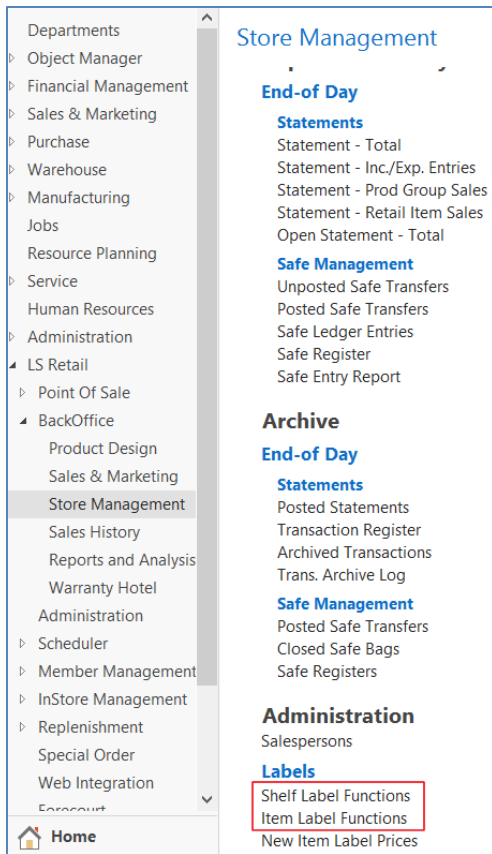
1. Add a printer in Windows:



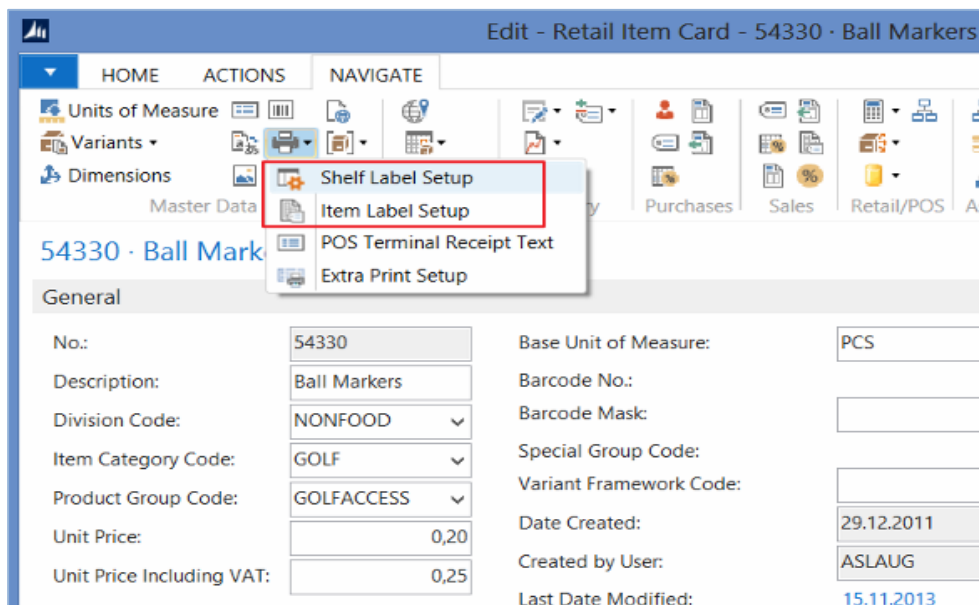
2. **Printer selection** is done for each individual Label, for each user that should be able to print the selected label. Similar to **Printer selection** for **Reports**. **LS Retail > BackOffice > Store Management > Shelf Label Functions > Actions > Printer Selection**



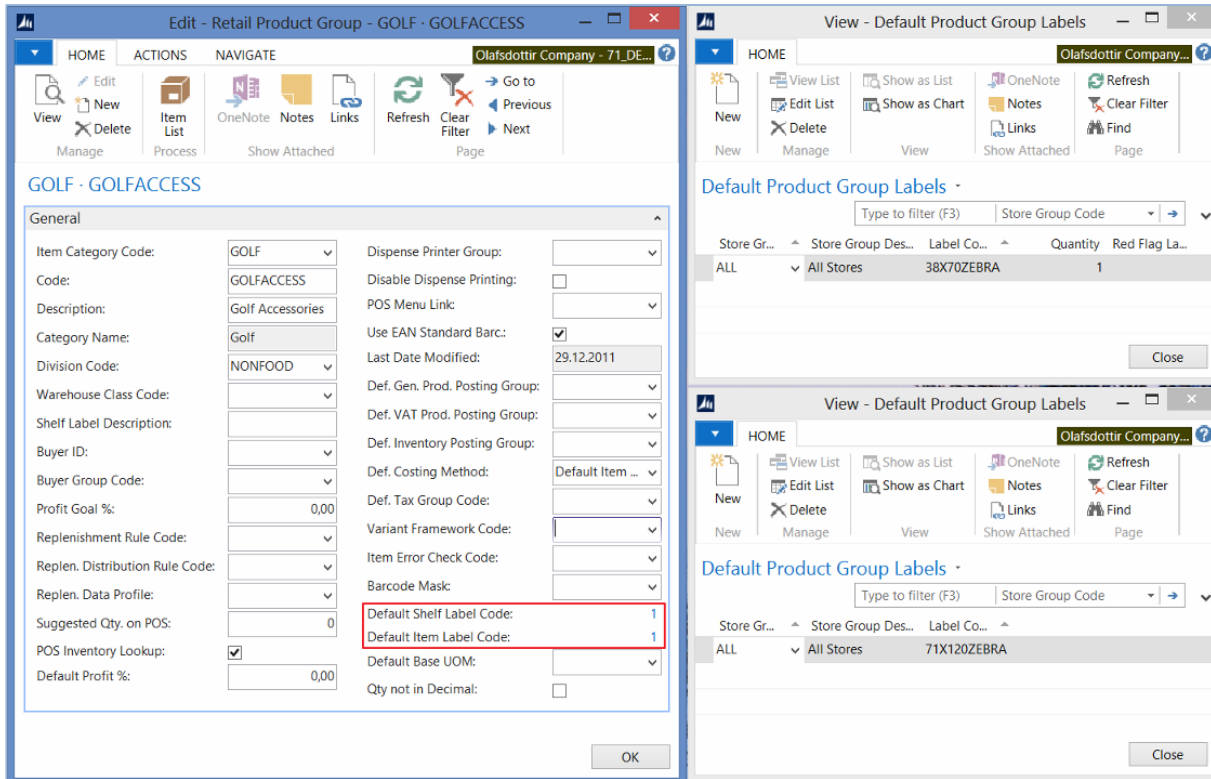
3. On the **Shelf Label Functions** page it is also possible to test if the printer is connected, set up and ready to print by clicking the **Test Print** button once the setup is done.
4. Using Codeunits for label printing make it easier to customize your own Codeunits to print labels. Whether it is to call a **Report**, print directly to Zebra printer, and send info through XML or Web service to electronic labels, web stores and so on.



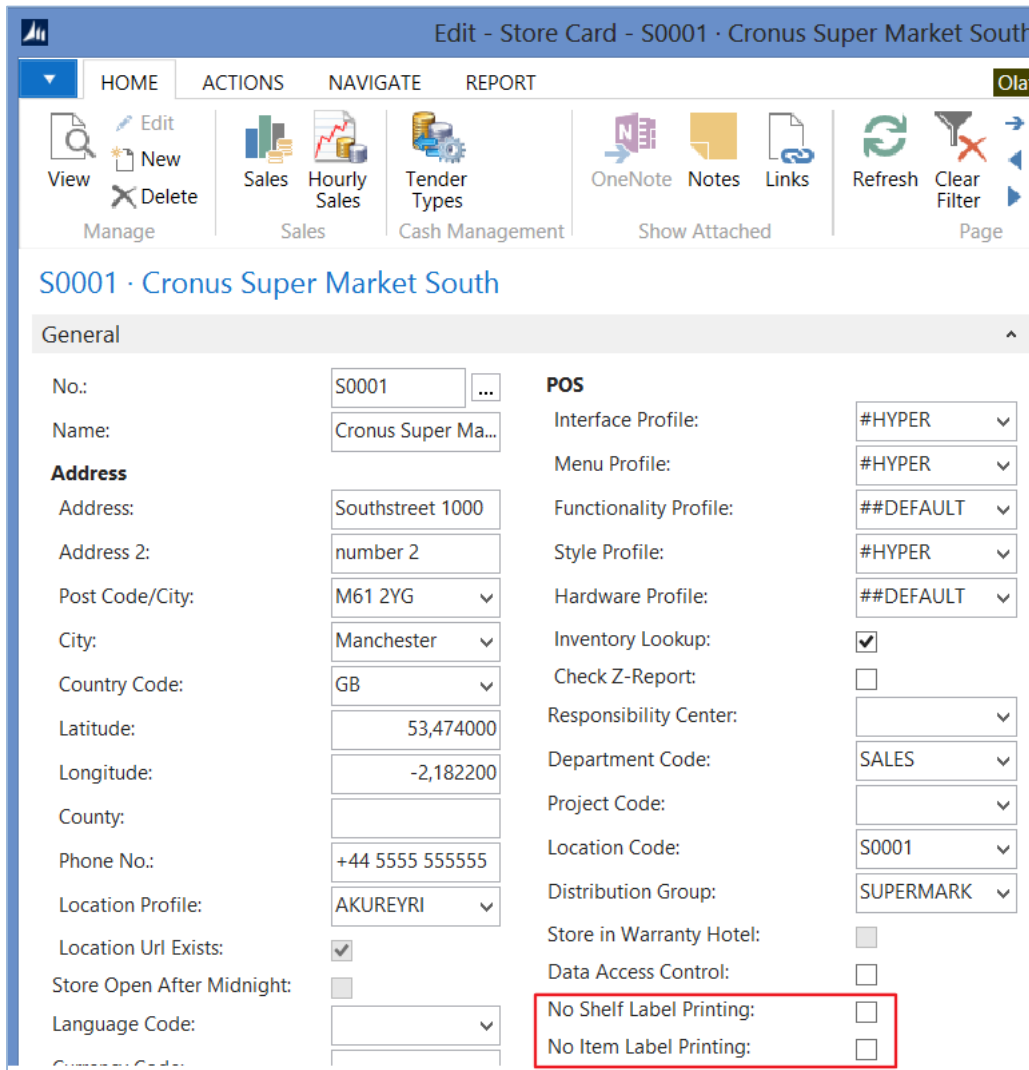
5. **Label Functions** are assigned to the item and can be store-specific:



You can assign default shelf and item labels to a **Product Group**, which will be the default for the item when the product group is assigned to it:



There are two Label parameters on the **Store**. They should be selected if you don't want any Label printing in the store:



Edit - Store Card - S0001 - Cronus Super Market South

HOME ACTIONS NAVIGATE REPORT Olat

View Edit New Delete Manage Sales Hourly Sales Tender Types OneNote Notes Links Refresh Clear Filter Page

S0001 - Cronus Super Market South

General

No.: S0001 ...

Name: Cronus Super Ma...

Address

Address: Southstreet 1000

Address 2: number 2

Post Code/City: M61 2YG

City: Manchester

Country Code: GB

Latitude: 53,474000

Longitude: -2,182200

County:

Phone No.: +44 5555 555555

Location Profile: AKUREYRI

Location Url Exists:

Store Open After Midnight:

Language Code:

POS

Interface Profile: #HYPER

Menu Profile: #HYPER

Functionality Profile: ##DEFAULT

Style Profile: #HYPER

Hardware Profile: ##DEFAULT

Inventory Lookup:

Check Z-Report:

Responsibility Center:

Department Code: SALES

Project Code:

Location Code: S0001

Distribution Group: SUPERMARK

Store in Warranty Hotel:

Data Access Control:

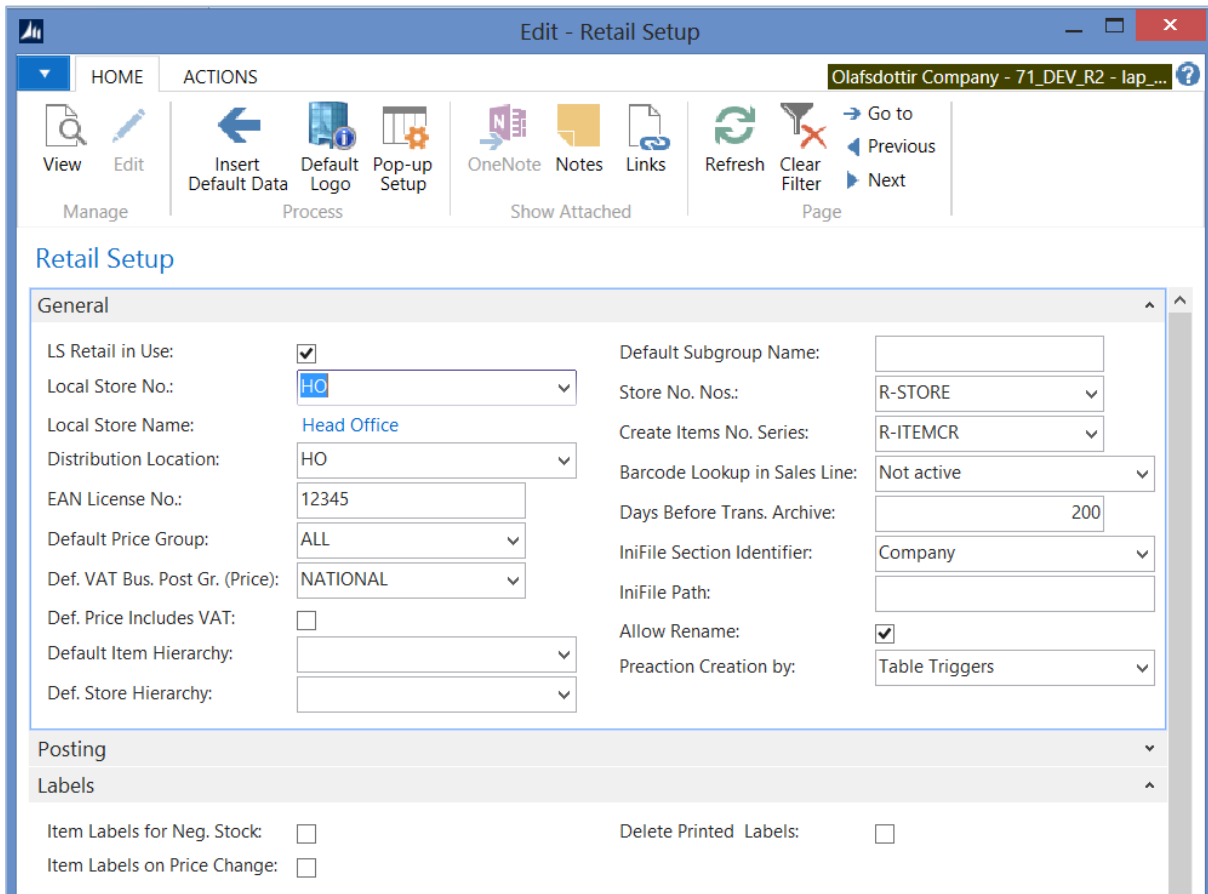
No Shelf Label Printing:

No Item Label Printing:

There are three Label parameters in **Retail Setup**:

- **Item Labels for Neg. Stock.** For Item Labels the quantity printed is calculated from the stock. If the **Item Labels for Neg. Stock** check box is selected, one label is ordered if the stock is non-positive, otherwise no label is ordered.
- **Item Labels on Price Change.** If the check box is selected then Item Labels are ordered when creating needed labels using the same criteria as for Shelf Labels. **Note:** This is more than just the prices.
- **Delete Printed Labels.** If the check box is selected then the printing history is not kept. **Note:** Even with the option selected, the latest printed label is never deleted as it is used for reference if new labels are needed. Also note that only one label is saved for each day so in

the case of many printings on the same day the data from the last print is saved in the history.



2.2 Label Actions

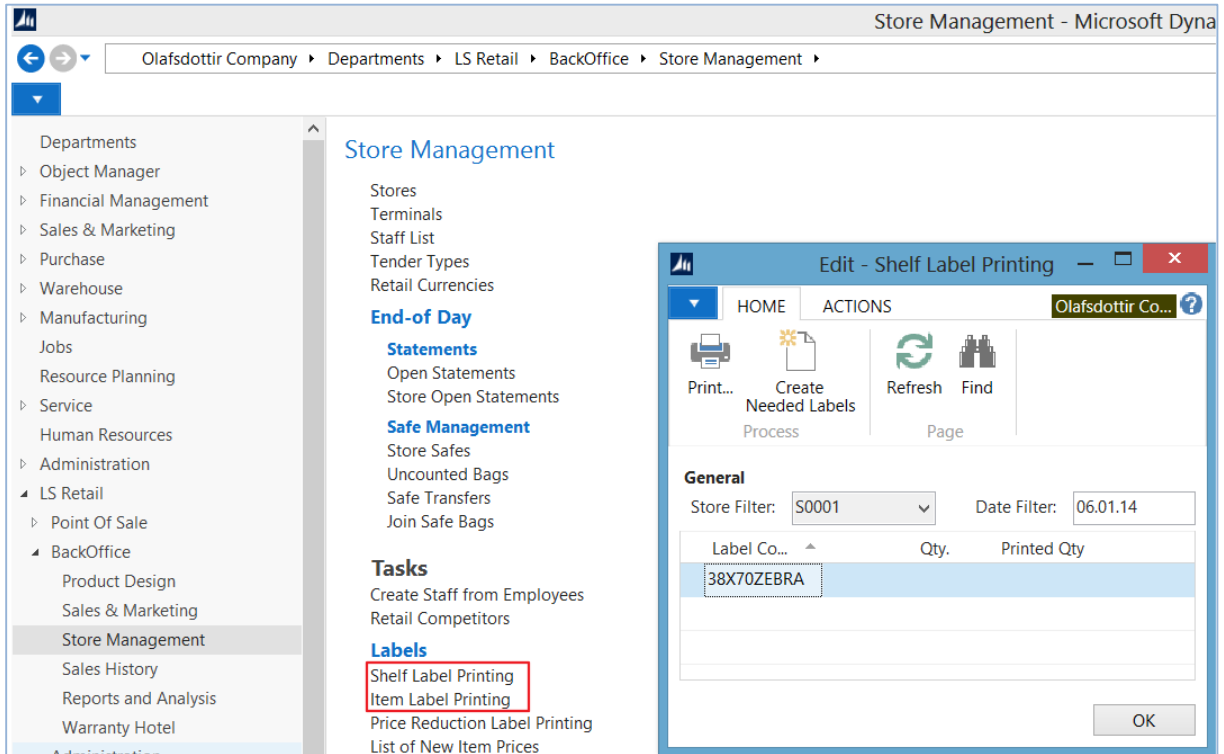
When a record is created, modified or deleted in the following tables, an action is triggered for printing labels for the current item.

27	Item
5401	Item Variant
5404	Item Unit of Measure
7002	Sales Price*
99001451	Barcodes
99001502	Offer
99001549	Item Label Setup
99001572	Shelf Label Setup

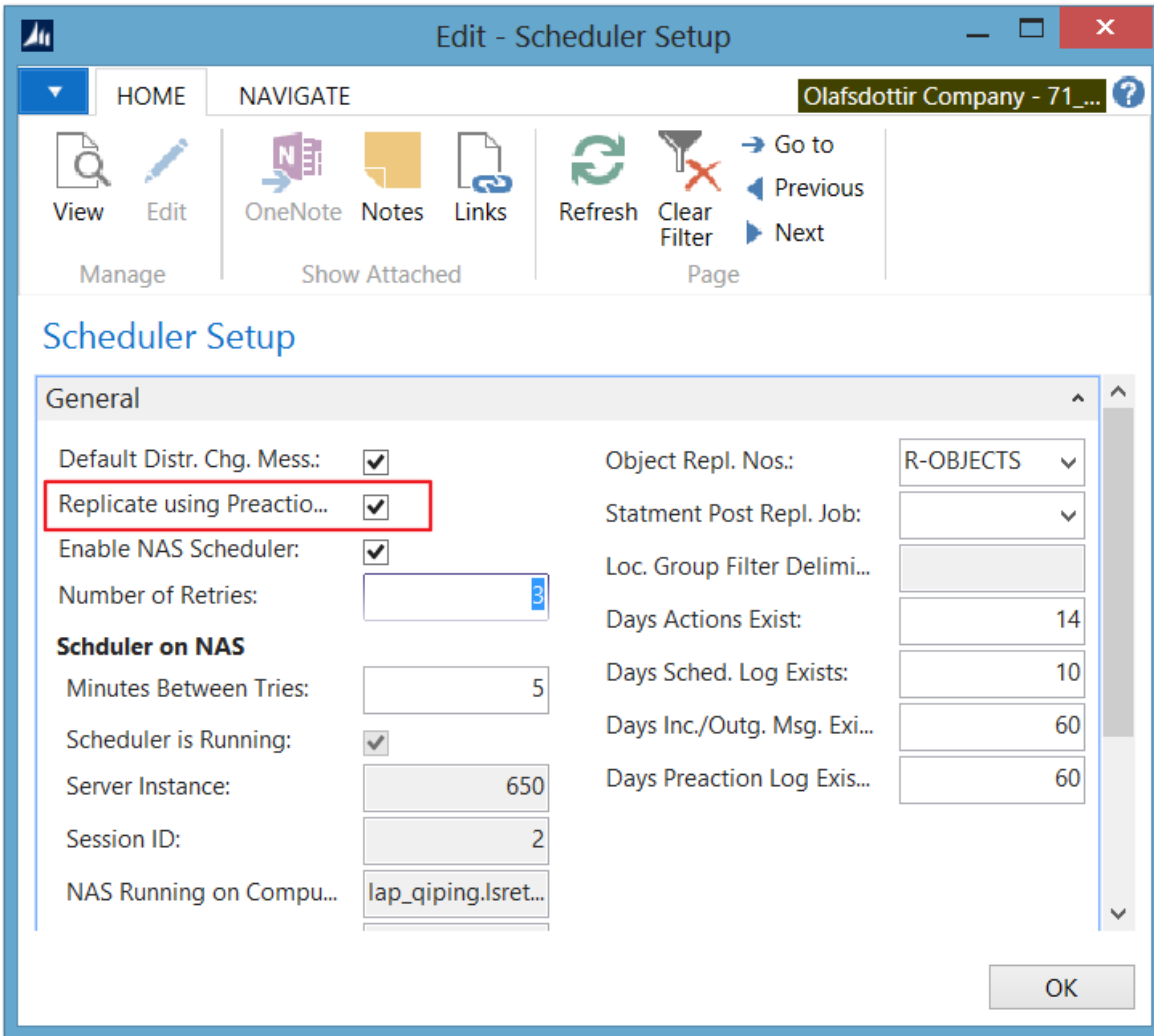
*Only if the field **Item labels on Price change** is check marked in Retail Setup.

2.3 Needed Labels

When the forms **Shelf Label Print** and **Item Label Print** are opened, the needed labels are created for the current Store.



If the system is set up to replicate by pre-actions in the **Scheduler Setup**, the system will run through all pre-actions, otherwise all Actions for the tables listed in **Needed Labels**.



Entry No.	Location	A...	Table No.	Key	Link Down	Date	Time	User ID	BatchID
31444	ALL#ALL	U..	27	WRAP-PITA		21.01.10	12:27:58	SUPER	
31445	ALL#ALL	U..	7002	20075;1;ALL;;;;;0		21.01.10	12:29:05	SUPER	
31446	ALL#ALL	U..	27	20075		21.01.10	12:29:09	SUPER	
31447	ALL#ALL	U..	7002	20078;1;ALL;;;;;0		21.01.10	12:29:23	SUPER	
31448	ALL#ALL	U..	27	20078		21.01.10	12:29:26	SUPER	
31449	ALL#ALL	U..	7002	32201;1;ALL;;;;;0		21.01.10	12:29:35	SUPER	
31450	ALL#ALL	U..	27	32201		21.01.10	12:29:38	SUPER	
31451	ALL#ALL	U..	27	33050		21.01.10	12:29:47	SUPER	
33932	ALL#ALL	U..	7002	65020;1;ALL;;;;;0		22.01.10	10:17:44	ADDA	
33933	ALL#ALL	U..	27	65020		22.01.10	10:17:45	ADDA	
34074	ALL#ALL	I...	7002	30090;1;ALL;;;;;0		22.01.10	13:01:08	SUPER	
34075	ALL#ALL	I...	27	30090		22.01.10	13:01:08	SUPER	
34076	ALL#ALL	U..	27	30090		22.01.10	13:01:14	SUPER	
34088	ALL#ALL	U..	27	30090		22.01.10	13:10:21	SUPER	
34089	ALL#ALL	U..	27	30090		22.01.10	13:10:34	SUPER	
34090	ALL#ALL	U..	7002	30090;1;ALL;;;;;0		22.01.10	13:10:34	SUPER	
34093	ALL#ALL	I...	5404	30090;CLIP		22.01.10	13:11:18	SUPER	
34094	ALL#ALL	U..	27	30090		22.01.10	13:11:38	SUPER	
34095	ALL#ALL	U..	7002	30090;1;ALL;;;;;0		22.01.10	13:11:45	SUPER	
34096	ALL#ALL	U..	7002	30090;1;ALL;;;;;0		22.01.10	13:11:53	SUPER	
34100	ALL#ALL	U..	5401	30090;1		22.01.10	13:12:08	SUPER	
34102	ALL#ALL	U..	5401	30090;2		22.01.10	13:12:09	SUPER	
34104	ALL#ALL	U..	27	30090		22.01.10	13:12:36	SUPER	
34996	ALL#ALL	I...	7002	R0003;1;CATLUNCH;1801201...		22.01.10	15:17:00	SUPER	
34998	ALL#ALL	I...	7002	R0006;1;CATLUNCH;1801201...		22.01.10	15:17:12	SUPER	
35000	ALL#ALL	I...	7002	20061;1;CATLUNCH;1801201...		22.01.10	15:17:46	SUPER	
35002	ALL#ALL	I...	7002	R0004;1;CATLUNCH;1801201...		22.01.10	15:17:53	SUPER	
42743	ALL#ALL	I...	99001549	1000;ALL;A4PORTRAIT 3X5		04.11.10	15:34:59		
42744	ALL#ALL	U..	27	1000					
42745	ALL#ALL	U..	27	1000					

After running through the pre-actions or Actions, the system updates the Store table for the current store with the last Actions for Label update.

Field	Filter
Table No.	27 7002 99001502 99001549 99001572 5401 99001451 5404

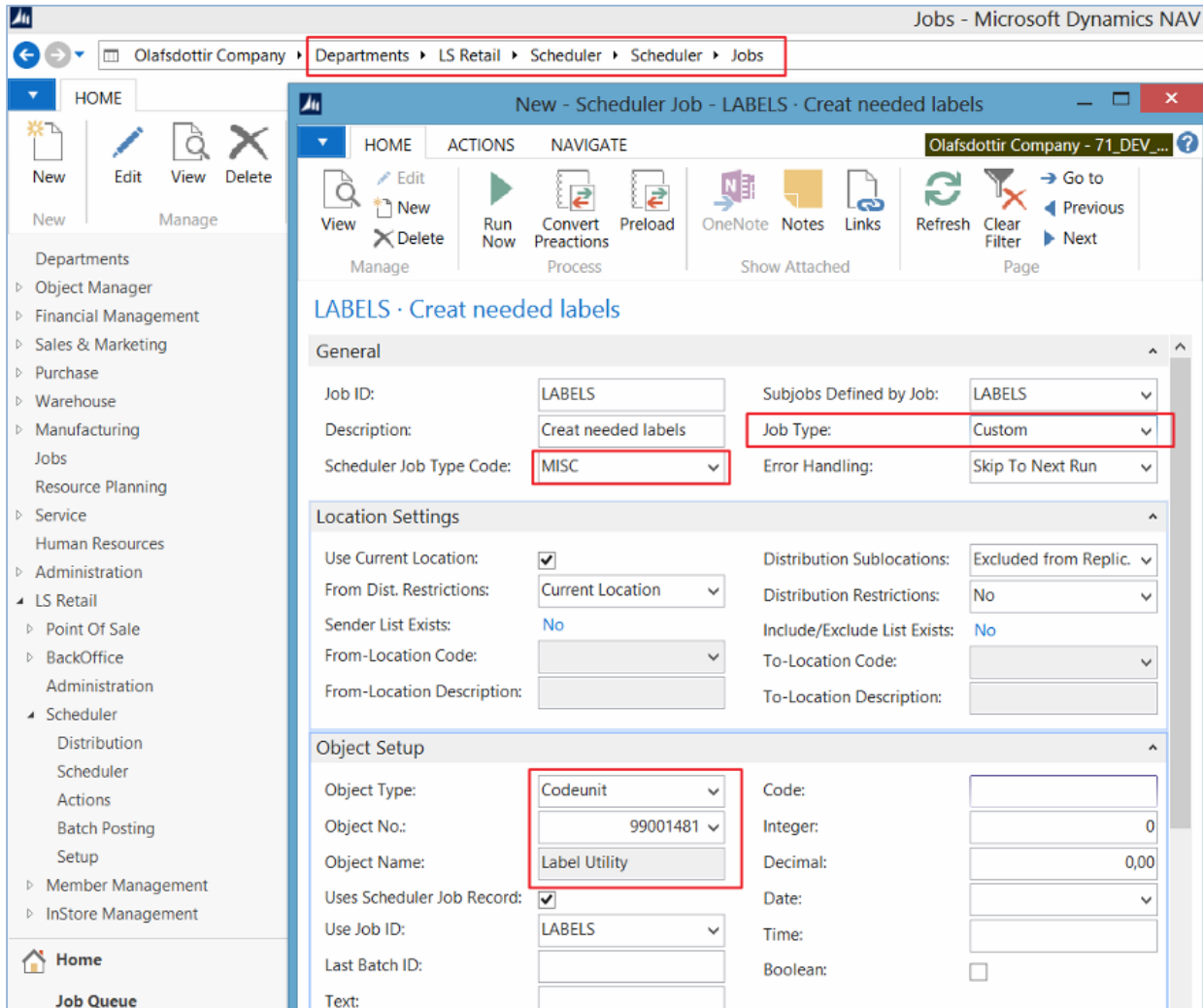
Label Printer (1025):	Label Generic
Language Code (170):	
Last Action for Item Label Upd (240):	1231625
Last Action for Label Upd (235):	1231496
Last Date Modified (35):	2.1.2014

For the Label to be created, a few conditions needs to be met:

1. Is the item distributed to the store?
2. Does the item have label setup?
3. Does the item have a valid Unit of Measure?

2.4 Scheduling Label Creation

The **Label Utility** Codeunit can run automatically in Scheduler to create needed labels automatically:



3 Label Printing

Labels are generated by using actions (or pre-actions if used for replication). The system scans the Action table for any data changes that require new labels to be printed.

The system holds information about all labels needed in the future, thus for example making a print request both at the beginning date of a periodic offer and at the ending date.

Label orders are made to each store, item, variant and unit of measure. New labels to print should be made if:

- Price changes
- Comp. price change
- Description changes (item or variant)
- Barcode to use for item changes
- Label function changes
- New variant added
- New unit of measure is marked to be printed

The label functions in the system are for reference. They should show prices up to 100.000 otherwise you will have to modify the functions.

Label Printer selection can be used to print on different printers.

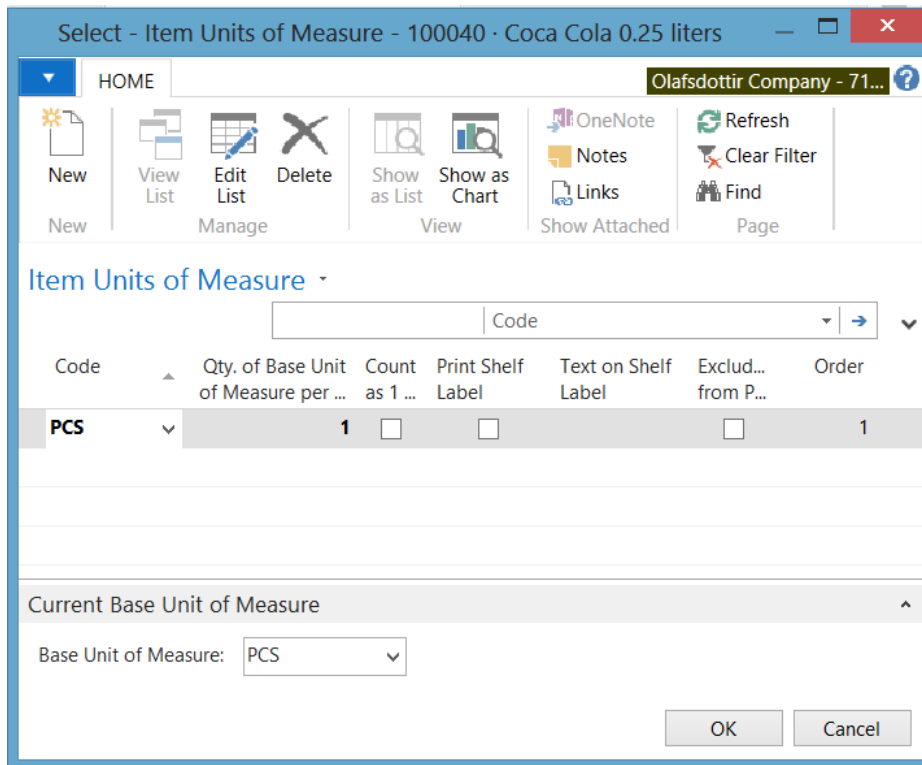
3.1 Item Setup

On the Item Card (**LS Retail > BackOffice > Product design > Retail Items > Edit**) there is one setup field on the **General** tab:

- **Print Variants Shelf Labels.** If selected, then Shelf Labels are ordered for each variant.

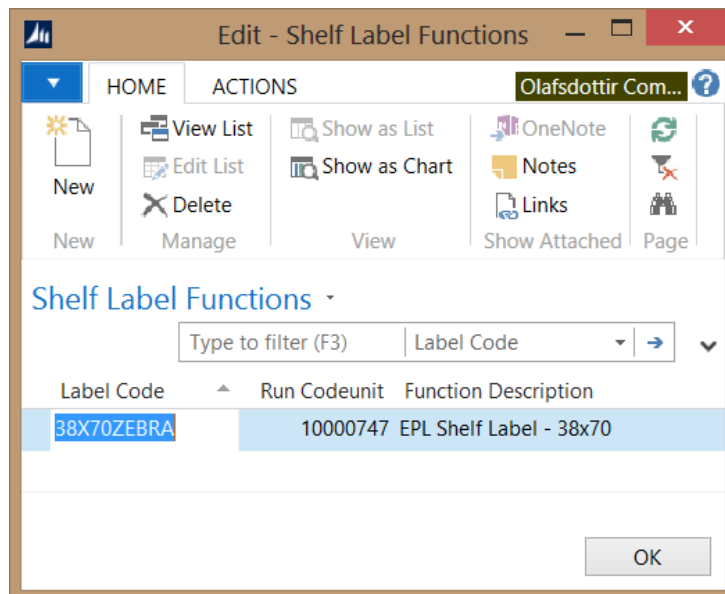
3.2 Unit of Measure Setup

You can let the system order labels for other units than the sales unit of measure. On the **Item Units of Measure** card, mark the **Print Shelf Label** field and add description for the label if needed.



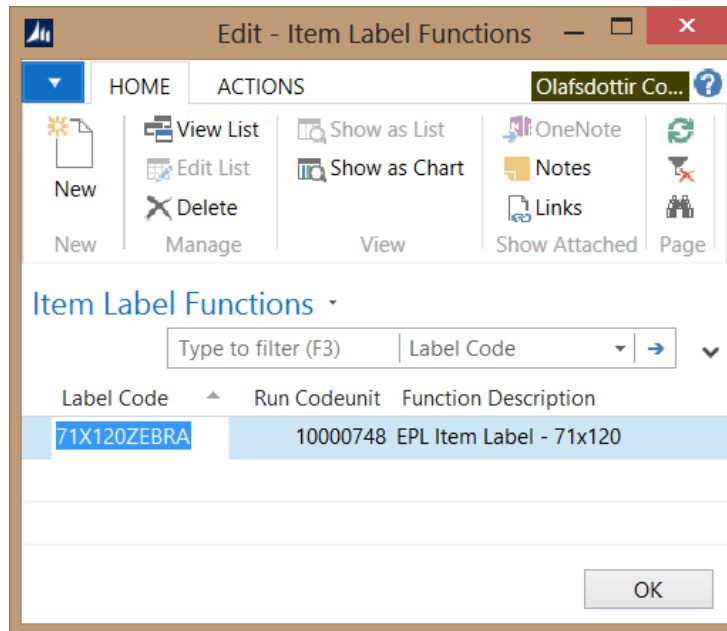
3.3 Shelf Label Functions

To set up Shelf Labels and assign functions to them click **LS Retail > BackOffice > Store Management > Shelf Label Functions**. Enter a **Label Code** and assign Codeunit to it. This code is the reference used in the system. You can change the Codeunit ID in the label functions and thus change the label printing for all labels with that specific label defined for them.



3.4 Item Label Functions

To set up Item Labels and assign functions to them click **LS Retail > BackOffice > Store Management > Item Label Functions**. Enter a **Label Code** and assign Codeunit to it. This code is the reference used in the system. You can change the **Codeunit ID** in the label functions and thus change the label printing for all labels with that specific label defined for them.

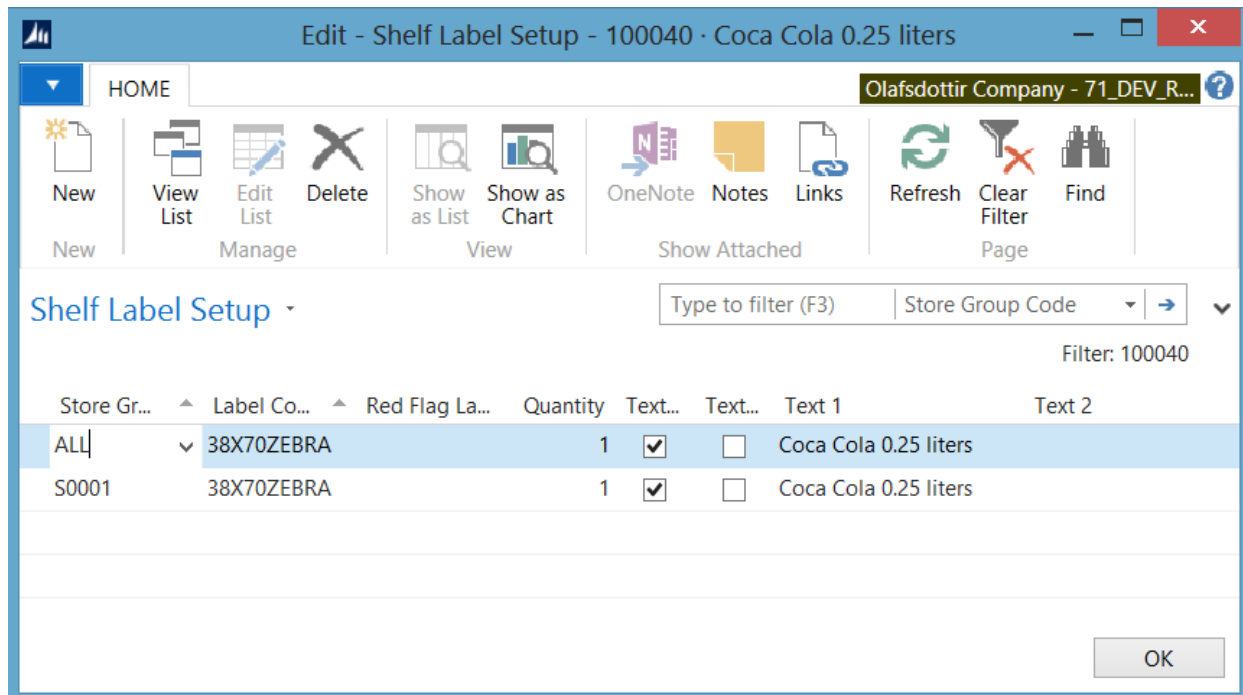


3.5 Assigning Shelf Labels to Item

To assign Shelf Labels to an Item click **LS Retail > BackOffice > Product Design > Retail Items > Edit**. On the **Navigate** tab Click **Labels and Printing > Shelf Label Setup** and run the **Shelf Label Setup** page. Assign Labels to the item.

You can define labels down to an individual store using the **Store Group Code**. The system chooses the most detailed setup. You can also define more than one label for each store and define quantity for each setup.

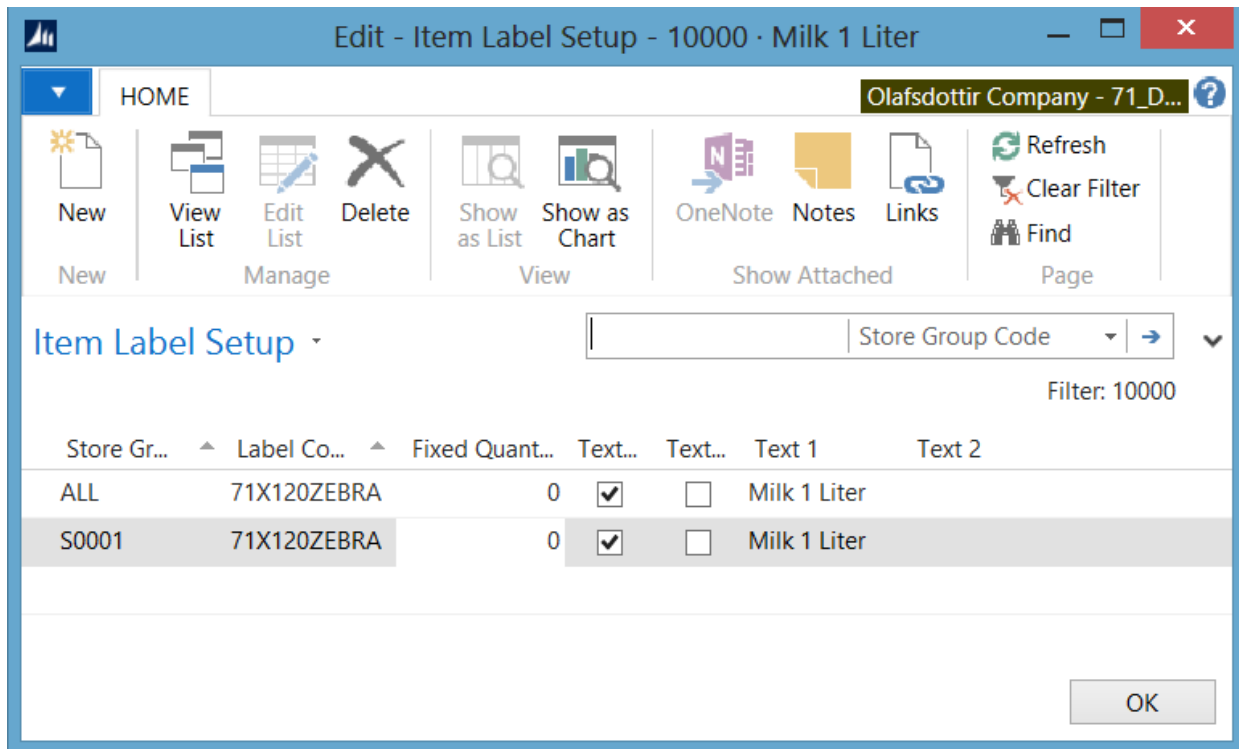
If you define label in the **Red Flag Label** field the system will use that label if the price originates from **Promotion** rather than the price table.



The label setup on items has **Text 1** and **Text 2** for printing text on the labels. If the Boolean field **Text 1 Is Item Descr.** is selected, **Text 1** is taken from the **Item Card** or the variant (if the label is for variant). If it is not selected for **Text 1**, any text written in the field overwrites the description from the item/variant. The same goes for **Text 2**; any text there is used for the label but if it is empty, **Description 2** from the item or variant is used.

3.6 Assigning Item Labels to Item

To assign Item Labels to Item click **LS Retail – BackOffice > Retail Item Card**. Click **Item > Text and Printing Setup > Item Label Setup** and run the **Item Label Setup** page. Assign Labels to the item. You can define labels down to an individual store using the Store Group Code; the system chooses the most detailed setup. You can also define more than one label for each store.

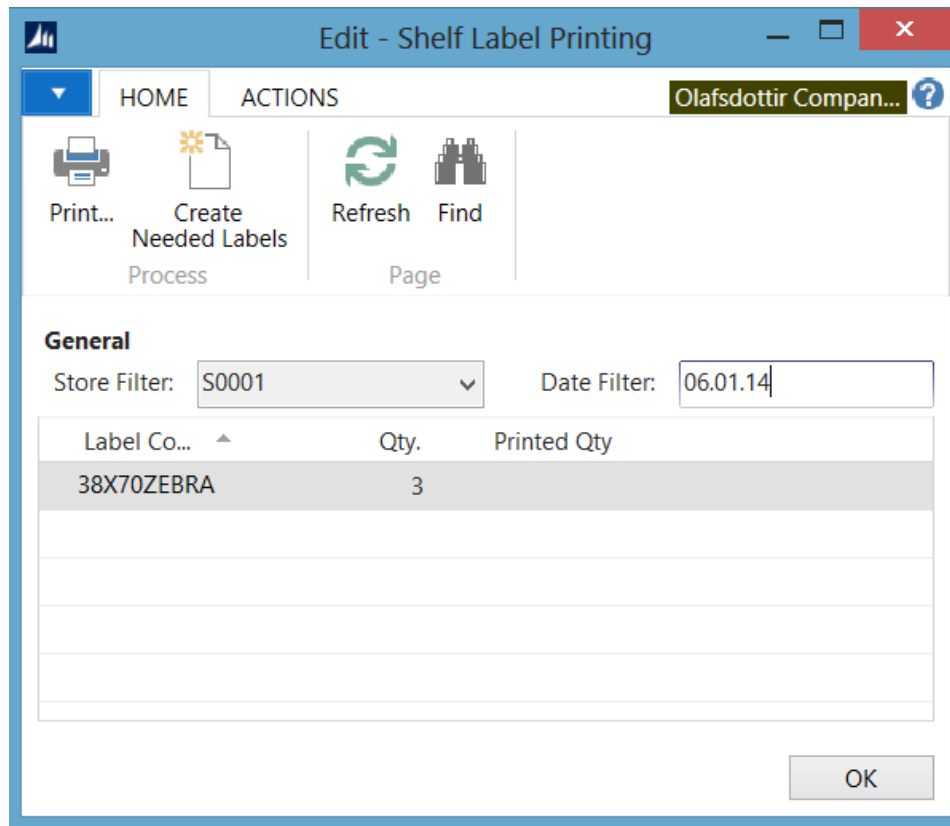


The label setup on items has **Text 1** and **Text 2** for printing text on the labels. If the Boolean field **Text 1 Is Item Descr.** is selected then **Text 1** is taken from the **Item Card** or the variant (if the label is for variant). If it is not selected for **Text 1** then any text written in the field overwrites the description from the item/variant. Same goes for **Text 2**, any text there is used for the label but if it is empty then **Description 2** from the item or variant is used.

3.7 Shelf Label Printing

To print Shelf Labels click **LS Retail > BackOffice > Store Management > Shelf Label Printing** and open the **Shelf Label Printing** page. The page shows the labels defined, quantity to be printed and printed quantity for single store on a single date. You can change the store and/or date, for example to print out Monday labels on Friday.

To print labels just click the **Print** button and the labels in the line you are in are printed. You can also reprint labels by going to the **Actions** tab and click **Reprint Printed Labels**.



On the **Actions** tab you can also generate label orders. There are four functions to generate labels:

- **Create Needed Labels.** Runs through the **Action Table** and checks if any data has change that needs to be updated on label.
- **Create Labels by Item.** Creates labels for items based on your selection.
 - Add filters and highlight items you want to create labels for. Only highlighted items will be processed.
- **Create Labels by Purch. doc.** Creates labels from the lines in chosen unposted **Purchase Doc.**
 - Add filters and highlight documents you want to create labels for. Only highlighted documents will be processed.
- **Create Labels by Posted Purch. doc.** Creates labels from the lines in chosen posted **Purchase Invoice.**
 - Add filters and highlight documents you want to create labels for. Only highlighted documents will be processed.

3.8 Shelf Label Layout

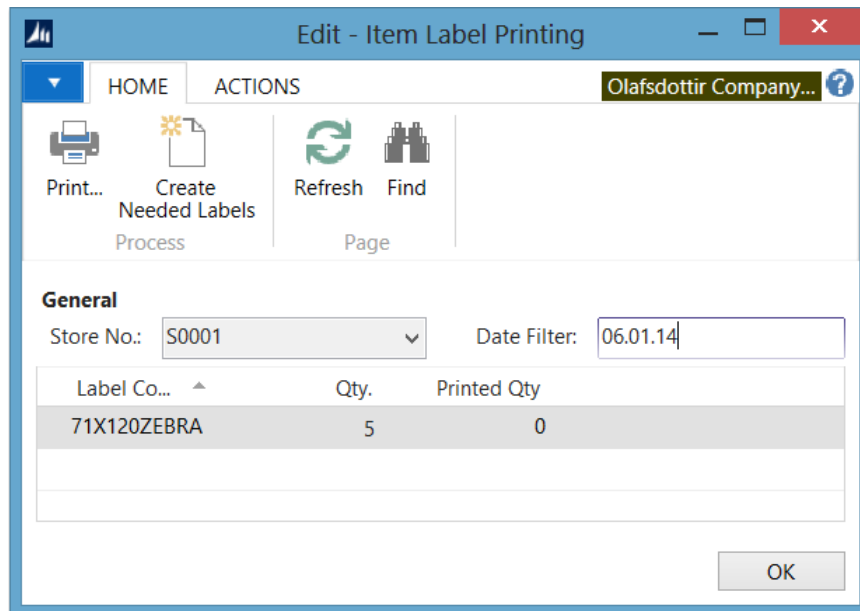
One type of Shelf label is included in the release for direct implementation or as a reference for designing your own layouts.



3.9 Item Label Printing

To print Item Labels click **LS Retail > BackOffice > Store Management > Item Label Printing** and open the **Item Label Printing** Page. The page shows the labels defined, quantity to be printed and printed quantity for single store on single date. You can change the store and/or date, for example to print out Monday labels on Friday.

To print labels just click the **Print** button and the labels in the line you are in are printed. You can also reprint labels by going to the **Actions** tab and click **Reprint Printed Labels**.



On the **Actions** tab you can also generate label orders. There are four functions to generate labels:

- **Create Needed Item Labels.** Runs through the **Action Table** and checks if any data has change that needs to be updated on label.
- **Create Item Labels by Item.** Creates labels for items based on your selection.
 - Add filters and highlight items you want to create labels for. Only highlighted items will be processed.
- **Item Labels by Purch. doc.** Creates labels from the lines in chosen un-posted **Purchase Doc.**
 - Add filters and highlight documents you want to create labels for. Only highlighted documents will be processed.
- **Item Labels by Posted Purch. doc.** Creates labels from the lines in chosen posted **Purchase Invoice.**
 - Add filters and highlight documents you want to create labels for. Only highlighted documents will be processed.

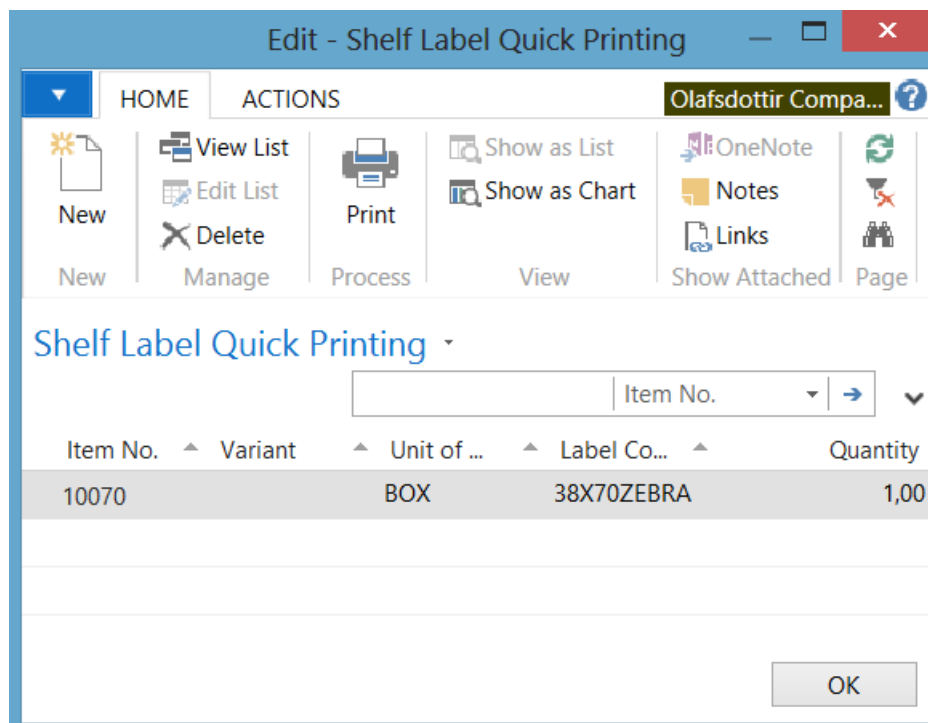
3.10 Item Label Layout

One type of Item label is included in the release for direct implementation or as a reference for designing your own layouts.



3.11 Quick Printing - Printing from Item Card

Shelf and Item Labels can be printed straight from the **Item Card**. On the **Item Card > Actions** tab click either **Print Shelf Labels** or **Print Item Labels**. In both cases the system opens a form showing what will be printed based on the setup for the item. You can modify the records, change the quantity, delete or add as you wish. To print just click **Print** and all labels on the form will be printed.

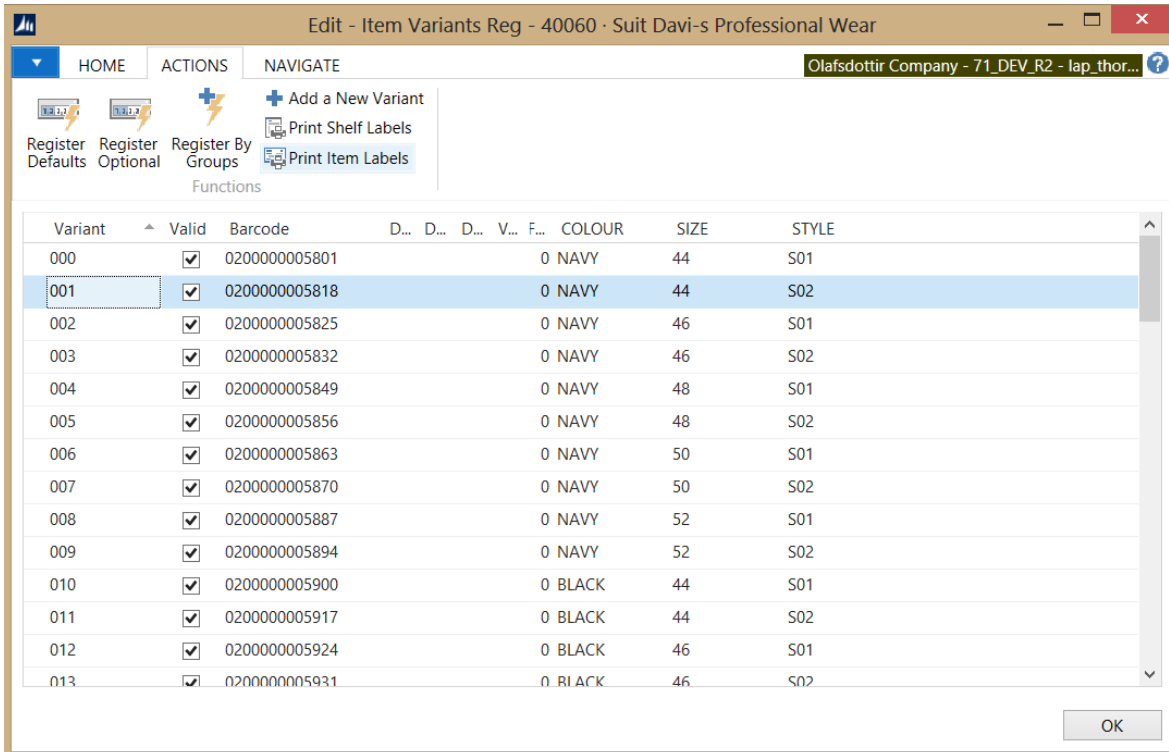


The screenshot shows a software window titled 'Edit - Shelf Label Quick Printing'. The window has a ribbon interface with 'HOME' and 'ACTIONS' tabs. The 'ACTIONS' tab is active, showing various icons for 'New', 'View List', 'Edit List', 'Delete', 'Print', 'Show as List', 'Show as Chart', 'OneNote', 'Notes', 'Links', 'Show Attached', and 'Page'. Below the ribbon, there is a section titled 'Shelf Label Quick Printing' with a search bar and a dropdown menu for 'Item No.'. Below this is a table with the following data:

Item No.	Variant	Unit of ...	Label Co...	Quantity
10070		BOX	38X70ZEBRA	1,00

An 'OK' button is located at the bottom right of the window.

Printing from **Item Card** sets up printing for all variants. To choose just one variant printing is also available from the variant framework printing only the record you are in. On the **Item Variants Reg.** page **LS Retail > BackOffice > Product Design > Retail Items > Edit**, On the **Navigate** tab click **Variants > Variant Framework**. On the **Actions** tab click **Print Shelf Labels** or **Print Item Labels**. **Note:** Item needs to be marked “**Print Variants Shelf Labels**” for this to work.



Variant	Valid	Barcode	D...	D...	D...	V...	F...	COLOUR	SIZE	STYLE
000	<input checked="" type="checkbox"/>	0200000005801						0 NAVY	44	S01
001	<input checked="" type="checkbox"/>	0200000005818						0 NAVY	44	S02
002	<input checked="" type="checkbox"/>	0200000005825						0 NAVY	46	S01
003	<input checked="" type="checkbox"/>	0200000005832						0 NAVY	46	S02
004	<input checked="" type="checkbox"/>	0200000005849						0 NAVY	48	S01
005	<input checked="" type="checkbox"/>	0200000005856						0 NAVY	48	S02
006	<input checked="" type="checkbox"/>	0200000005863						0 NAVY	50	S01
007	<input checked="" type="checkbox"/>	0200000005870						0 NAVY	50	S02
008	<input checked="" type="checkbox"/>	0200000005887						0 NAVY	52	S01
009	<input checked="" type="checkbox"/>	0200000005894						0 NAVY	52	S02
010	<input checked="" type="checkbox"/>	0200000005900						0 BLACK	44	S01
011	<input checked="" type="checkbox"/>	0200000005917						0 BLACK	44	S02
012	<input checked="" type="checkbox"/>	0200000005924						0 BLACK	46	S01
013	<input checked="" type="checkbox"/>	0200000005931						0 BLACK	46	S02

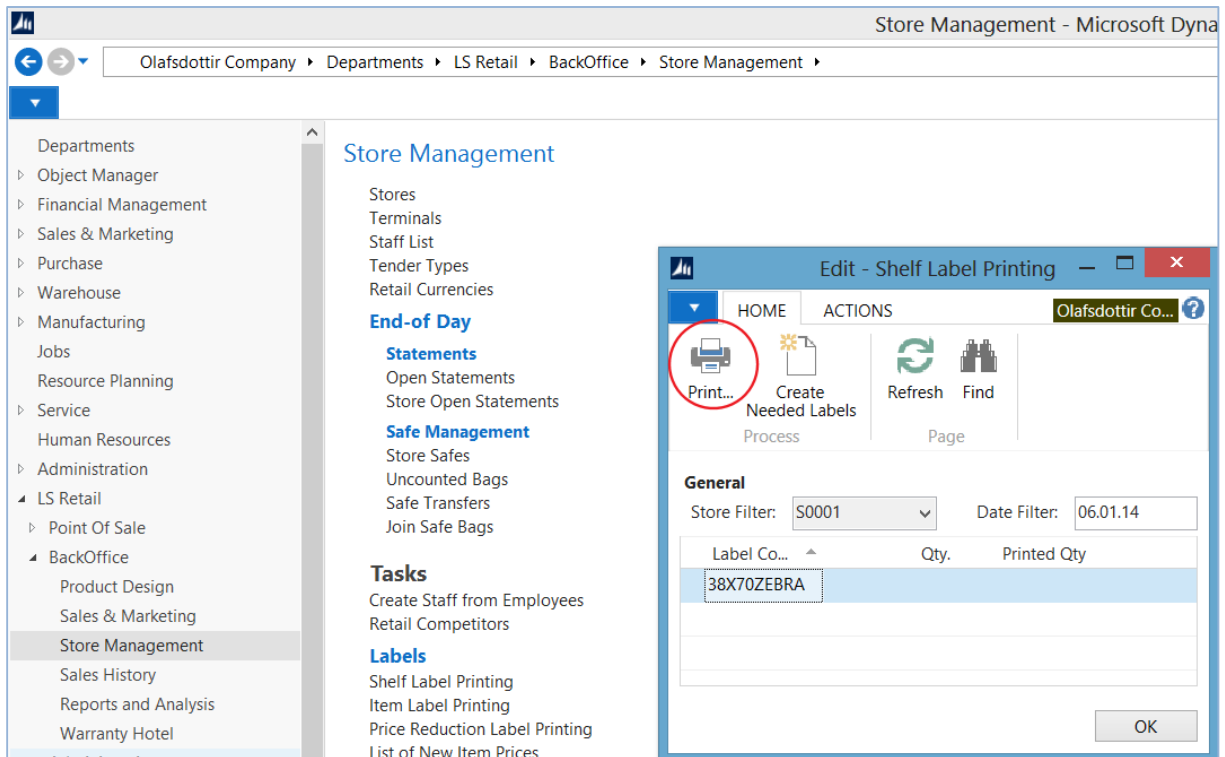
3.12 Printing from Retail Purchase Order

Item Labels can be printed straight from **Retail Purchase Order**. To print go on the **Actions** tab and click **Print Item Labels** on the **Retail Purchase Order** card. The system prints the Item Labels for the whole order and always for sales unit of measure. The setup from items is used so only items with Item Label setup are printed.

3.13 Printing Labels



The Label Functions in the LS Nav system are only an example of what a label code could look like and it needs to be redesigned for customers.



The screenshot shows the Microsoft Dynamics Store Management interface. The main window is titled "Store Management - Microsoft Dyna" and displays a navigation pane on the left with "Store Management" selected. The main content area shows "Store Management" with sections for "Stores", "End-of Day", "Safe Management", "Tasks", and "Labels". An "Edit - Shelf Label Printing" window is open in the foreground, showing a "Print..." button circled in red. The window also includes a "HOME" tab, "ACTIONS" tab, and a table with columns "Label Co...", "Qty.", and "Printed Qty". The table contains one row with the label "38X70ZEBRA".

- It is not possible to preview Labels before printing with Zebra design labels.
- Printed Labels can be reprinted through the **Actions** tab > **Reprint Printed Labels** button.