



Technical Release Notes – K3 Landed Cost

Update: January 2023



Contents

1	General	1
1.1	Data model	1
1.2	Role center	2
2	Setup	3
2.1	Landed Cost Setup	3
2.2	Surcharge Posting Groups	3
2.3	General Posting Setup	4
2.4	Source Code Setup	5
2.5	Landed Cost Groups	5
2.6	Calculation Templates	9
3	Process	12
3.1	Item calculation sheet	12
3.2	Posting	17
4	Update May 2022	19
4.1	Unit Cost and Carry-over	19
4.2	Change values in item calculation card	23
5	Update July 2022	25
5.1	Simulated purchase price	25
5.2	Currency Code	27
5.3	Copy RRP to Item	27
5.4	Style Expression on calculation sheet	28
6	Update January 2023	30
6.1	No. of columns	30
6.2	Change Base Calculation	30
6.3	Editable Columns	30
6.4	Add Items	30
6.5	Event Publishers	30

1 General

The Landed Cost module serves two main purposes:

- Calculate the Landed Costs
- Differentiate the standard BC posting of overhead into numerous surcharge postings.

This document also contains a basic example of a Calculation.

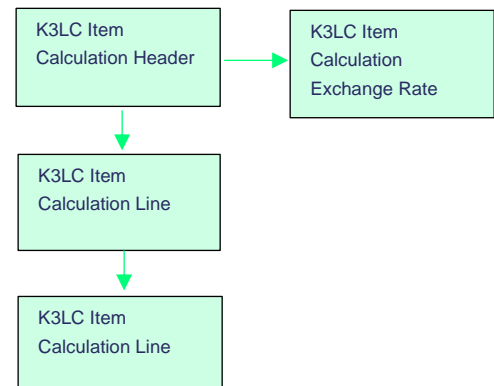
- Starting point is a Purchase Price.
- Add Insurance, Freight and Duties to calculate the Landed Cost
- Increase the Landed Cost with a Margin to calculate a Price
- Increase the Price with a Markup to calculate the Recommended Retail Price (RRP)
The RRP in this case always ends with x4.95 or x9.95
- Based on the RRP and the Retail Markup the Sales Price for the Wholesale Customers can be calculated

1.1 Data model

This App adds a number of Tables

- *K3LC Landed Cost Setup*
Used to store settings
- *K3LC Landed Cost Group* and *K3LC Landed Cost Element*
- Used to hold default values. *K3LC Landed Cost Element* is a child of *K3LC Landed Cost Group*.
- *K3LC Surcharge Posting Group*.
- Used to set up a number of records with a reference to a G/L Account. This prevents selecting records from the G/L Account table.
- *K3LC Template Header* and *K3LC Template Line*.
This is a header – lines structure to hold various templates that are used for calculations.

- **K3LC Item Calculation Header, K3LC Item Calculation Header and K3LC Item Calculation Line.**
The Sheet header can contain multiple Sheet Lines. Each Sheet Line can contain multiple Item Calculation Lines.
- **K3LC Item Calculation Exchange Rates.**
This table contains the exchange rates used for calculation lines that are in foreign currencies



1.2 Role center

The landed Cost functionality is added to the page “K3BR Business Manager RC”, the Role Center default used for the K3 Pebblestone Roles.

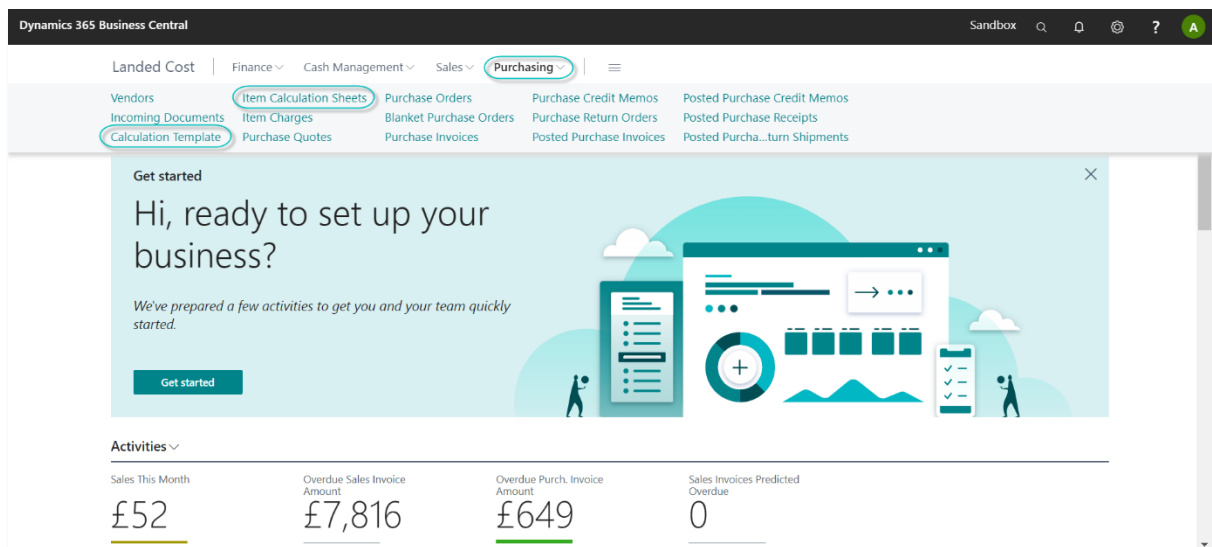


Figure 1 Landed Cost functionality in Role Center

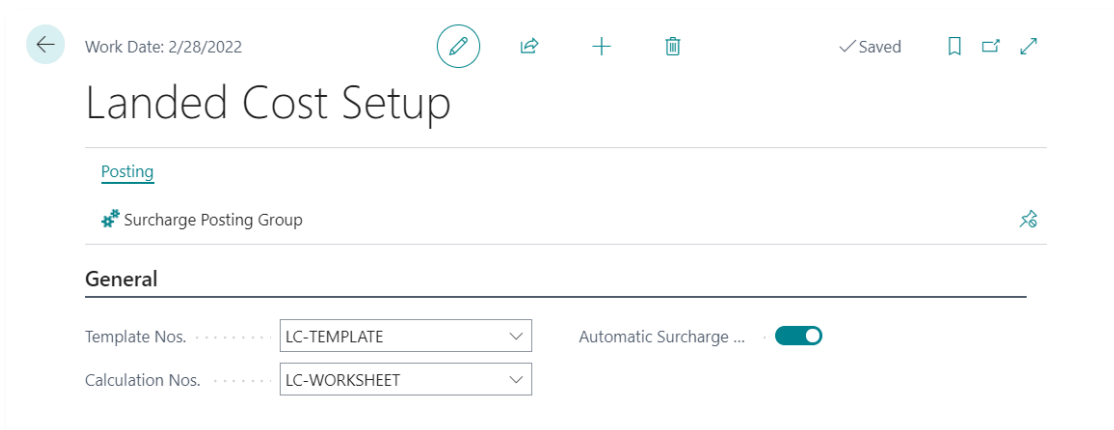
2 Setup

2.1 Landed Cost Setup

Fields:

- **Template Nos.**
A number serie that will be used for numbering the Calculation Templates
- **Calculation Nos.**
A number serie that will be used for numbering the Item Calculation Sheets
- **Automatic Surcharge**
By default surcharges are posted during the *Post Purchase Invoice* process.
By checking this field, the surcharges are not posted during the invoicing process. To post surcharges afterwards, codeunit *K3LC Post Surcharges* should be processed, either in a job queue or manually by clicking on *Post Surcharges to G/L* on the Landed Cost Setup card.

All the set up can be found under Landed Cost Setup

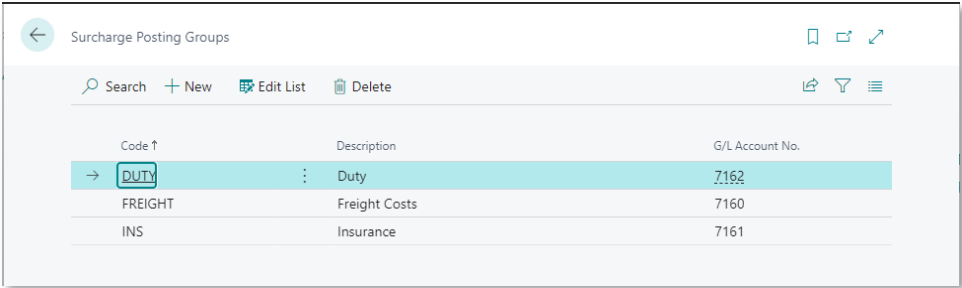


The screenshot displays the 'Landed Cost Setup' card. At the top, there's a header bar with a back arrow, 'Work Date: 2/28/2022', and icons for edit, share, add, and delete. Below the header, the title 'Landed Cost Setup' is prominent. The card is divided into sections: 'Posting' and 'General'. Under 'Posting', there is a 'Surcharge Posting Group' field with a search icon. Under 'General', there are two dropdown menus: 'Template Nos.' set to 'LC-TEMPLATE' and 'Calculation Nos.' set to 'LC-WORKSHEET'. To the right of these is an 'Automatic Surcharge' toggle switch, which is currently turned on.

Figure 2 Landed Cost Setup

2.2 Surcharge Posting Groups

Surcharge posting Groups can be set up. Basically, these groups are used to let users that perform calculations select from these groups instead of selecting a G/L Account from the G/L Account table.

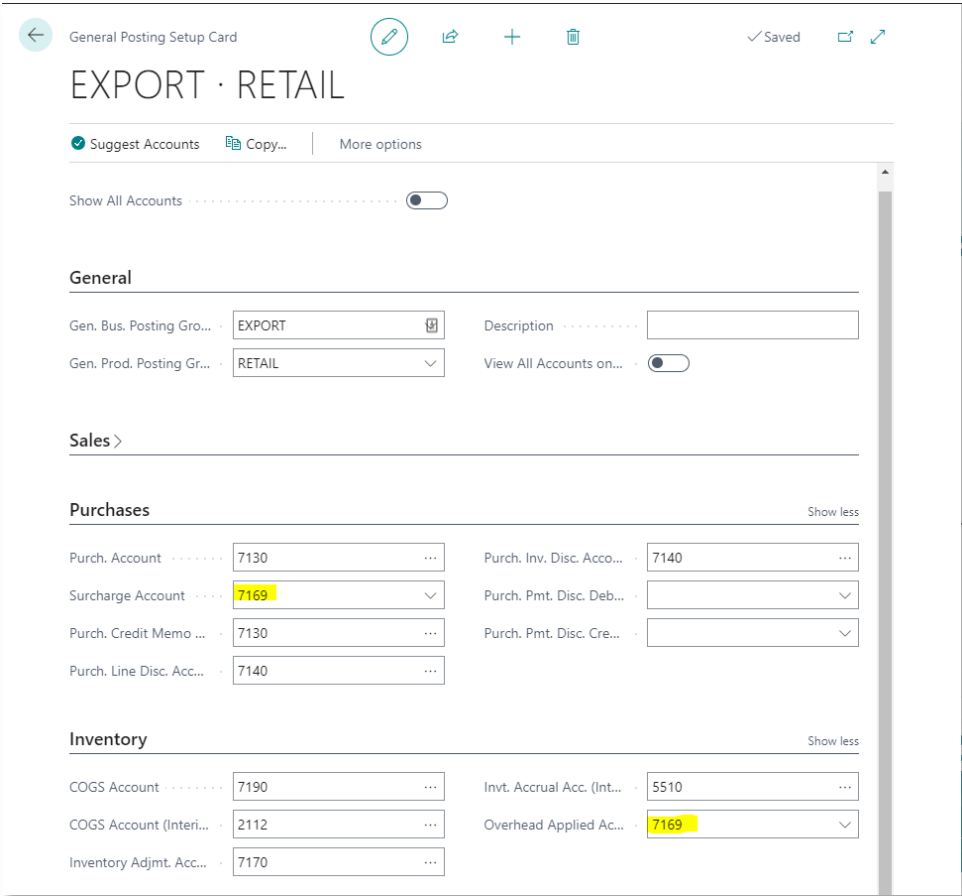


Code ↑	Description	G/L Account No.
DUTY	Duty	7162
FREIGHT	Freight Costs	7160
INS	Insurance	7161

Figure 3 Surcharge Posting Groups

2.3 General Posting Setup

In the General Posting Setup the field Surcharge Account must be filled. On this account the total of the individual surcharges will be posted.
If an item is invoiced with the expected purchase price (and eventually exchange rate) this account will level the standard Business Central *Overhead Applied Account*.
An example can be found in screenshot Figure 22 G/L Entries Posted Invoice.
Depending on the customers preferences the *Surcharge Account* can be the same as the *Overhead Applied Account*, so the account total will be zero, or a different account, so these two accounts have the same (but opposite) value.



General Posting Setup Card

EXPORT · RETAIL

Suggest Accounts Copy... More options

Show All Accounts

General

Gen. Bus. Posting Gro... EXPORT Description

Gen. Prod. Posting Gr... RETAIL View All Accounts on...

Sales

Purchases

Purch. Account 7130 Purch. Inv. Disc. Acco... 7140

Surcharge Account 7169 Purch. Pmt. Disc. Deb...

Purch. Credit Memo ... 7130 Purch. Pmt. Disc. Cre...

Purch. Line Disc. Acc... 7140

Inventory

COGS Account 7190 Invt. Accrual Acc. (Int... 5510

COGS Account (Interi... 2112 Overhead Applied Ac... 7169

Inventory Adjmt. Acc... 7170

Figure 4 General Posting Setup

2.4 Source Code Setup

The G/L Entries created by the Surcharge Posting routine are posted with the Source Code that can be entered in the Source Code Setup.

The screenshot shows the 'Source Code Setup' window. At the top, there is a toolbar with icons for back, edit, share, add, and delete, along with a 'Saved' indicator. The main content area is titled 'Source Code Setup' and lists several categories, each followed by a right-pointing arrow: 'Inventory >', 'Resources >', 'Jobs >', 'Fixed Assets >', 'Manufacturing >', 'Service >', 'Cost Accounting >', 'Order Difference >', 'Buying Group >', and 'Post Surcharges'. Below the 'Post Surcharges' category, there is a dropdown menu with the text 'Post Surcharges' and a selected value 'SURCHARGES'.

Figure 5 Source Code Setup

2.5 Landed Cost Groups

Landed Cost Groups are used to pre-define a number of settings used in the calculations. These groups are optional. A Calculation can also be set up without these groups. The Group Type can have 3 different values

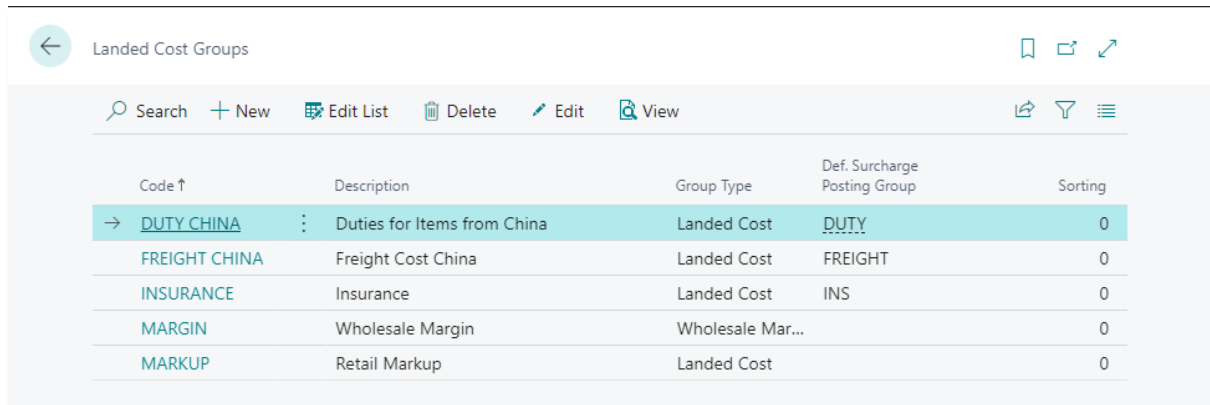
- Landed Cost
- Wholesale Margin
- Retail Markup

In the Calculation Template depending on the Type, you can select only the groups of the given Group Type.

The Default Surcharge Posting Group will be copied to the Landed Cost Elements but can be changed on that level.

The following screenshots show some examples.

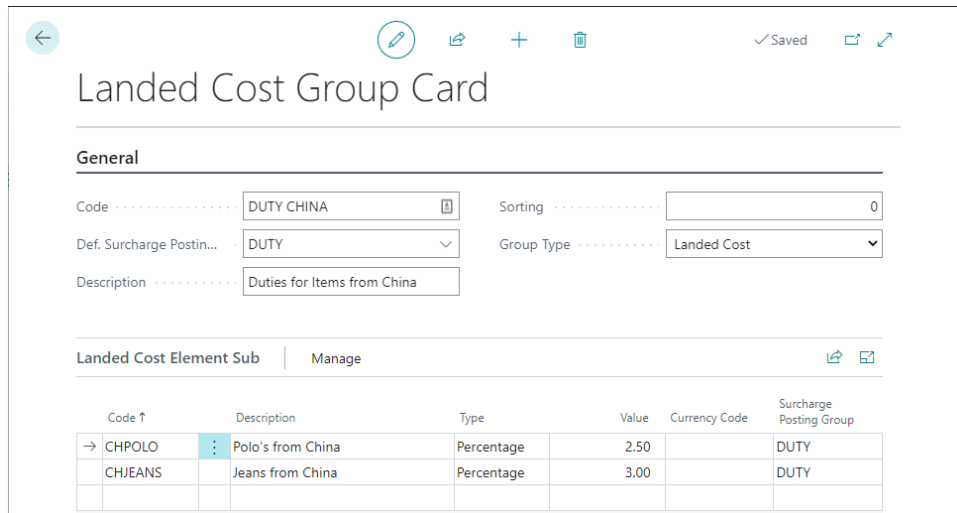
Technical Release Notes K3 Landed Cost



The screenshot shows the 'Landed Cost Groups' interface. At the top, there is a back arrow, the title 'Landed Cost Groups', and icons for bookmark, copy, and share. Below this is a toolbar with 'Search', '+ New', 'Edit List', 'Delete', 'Edit', and 'View'. The main table lists the following groups:

Code ↑	Description	Group Type	Def. Surcharge Posting Group	Sorting
→ DUTY CHINA	Duties for Items from China	Landed Cost	DUTY	0
FREIGHT CHINA	Freight Cost China	Landed Cost	FREIGHT	0
INSURANCE	Insurance	Landed Cost	INS	0
MARGIN	Wholesale Margin	Wholesale Mar...		0
MARKUP	Retail Markup	Landed Cost		0

Figure 6 Landed Cost Groups



The screenshot shows the 'Landed Cost Group Card' for the 'DUTY CHINA' group. The card has a title bar with a back arrow, edit icon, share icon, and a 'Saved' status. The 'General' section contains the following fields:

- Code: DUTY CHINA (with a copy icon)
- Sorting: 0
- Def. Surcharge Postin...: DUTY (dropdown)
- Group Type: Landed Cost (dropdown)
- Description: Duties for Items from China

Below the 'General' section is a 'Landed Cost Element Sub' section with a 'Manage' button. It contains a table with the following data:

Code ↑	Description	Type	Value	Currency Code	Surcharge Posting Group
→ CHPOLO	Polo's from China	Percentage	2.50		DUTY
CHJEANS	Jeans from China	Percentage	3.00		DUTY

Figure 7 Landed Cost Group Duties

✓ Saved

Landed Cost Group Card

General

Code

FREIGHT CHINA

Sorting

Def. Surcharge Postin...

FREIGHT

Group Type

Landed Cost

Description

Freight Cost China

Landed Cost Element Sub

Manage

Code ↑	Description	Type	Value	Currency Code	Surcharge Posting Group
AIR	From China by Air	Fixed Value	1.25		FREIGHT
SEA 20FT	From China by Sea 20 ft container	Fixed Value	0.40		FREIGHT
→ SEA 40FT	From China by Sea 40 ft container	Fixed Value	0.30		FREIGHT

Figure 8 Landed Cost Group Freight Cost

✓ Saved

Landed Cost Group Card

General

Code

INSURANCE

Sorting

0

Def. Surcharge Postin...

INS

Group Type

Landed Cost

Description

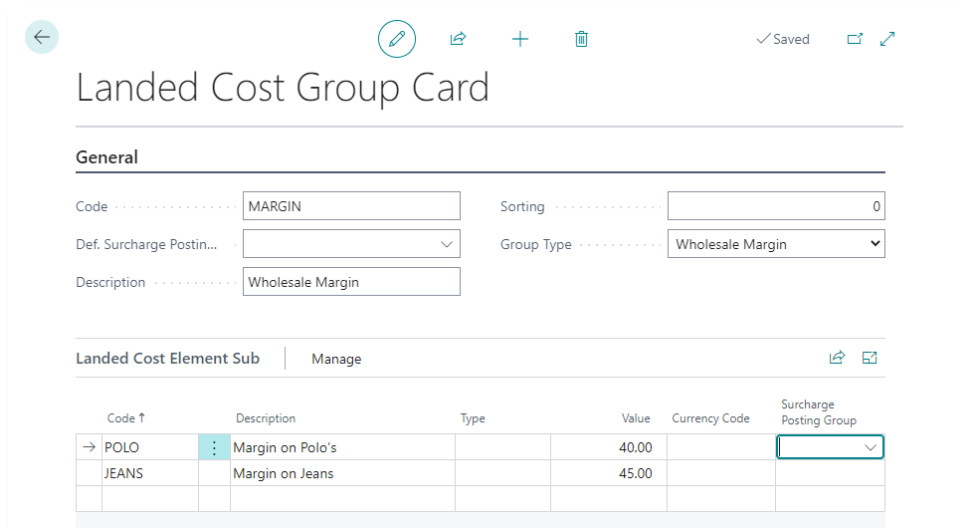
Insurance

Landed Cost Element Sub

Manage

Code ↑	Description	Type	Value	Currency Code	Surcharge Posting Group
LLOYDS	Insurance by Lloyds		0.25		INS
→ TVM	Insurance by TVM		0.30		INS

Figure 9 Landed Cost Group Insurance



Landed Cost Group Card

General

Code MARGIN Sorting 0

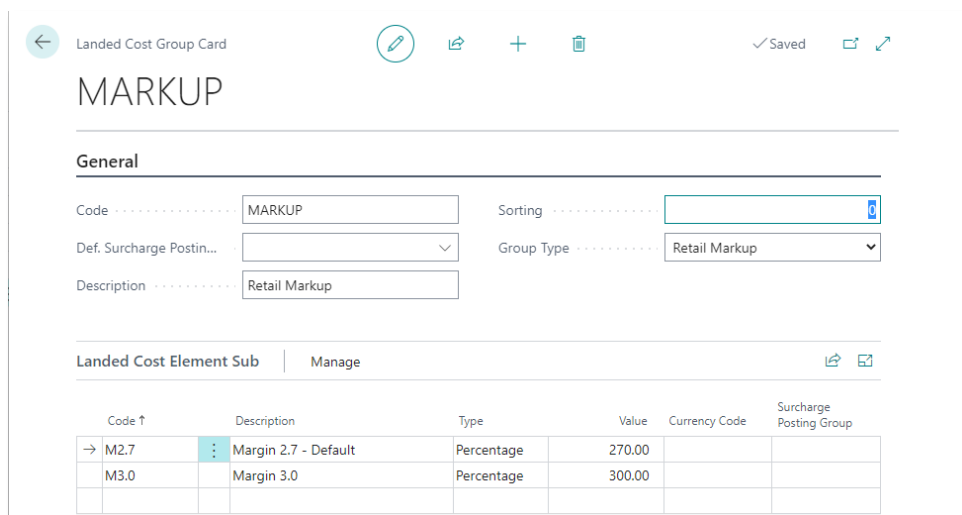
Def. Surcharge Postin... Group Type Wholesale Margin

Description Wholesale Margin

Landed Cost Element Sub | Manage

Code ↑	Description	Type	Value	Currency Code	Surcharge Posting Group
→ POLO	Margin on Polo's		40.00		
JEANS	Margin on Jeans		45.00		

Figure 10 Landed Cost Group Margin



Landed Cost Group Card

MARKUP

General

Code MARKUP Sorting 1

Def. Surcharge Postin... Group Type Retail Markup

Description Retail Markup

Landed Cost Element Sub | Manage

Code ↑	Description	Type	Value	Currency Code	Surcharge Posting Group
→ M2.7	Margin 2.7 - Default	Percentage	270.00		
M3.0	Margin 3.0	Percentage	300.00		

Figure 11 Landed Cost Group Markup

2.6 Calculation Templates

In Order to calculate landed costs you first have to set up Templates.
The Template defines the base of the calculation.

Most of the time the starting point will be an expected purchase price, so this will be the first line.

- Row ID
This must be a unique ID within the Template. Only the letters A to Z and numbers can be used. A Row ID must at least contain one alphanumeric character.
- Type
The Type can have a number of options
 - Purchase price
This indicates that this line represents the Purchase Price.
When updating Items from the Item calculation sheet, the Line Value (LCY) of this line will be copied to the *Last Direct Cost* field of the Item.
 - Landed Cost Element
In this case you can select a Landed Cost Group where the type equals Landed Cost
 - Landed Cost
This indicates that this line represents the landed Cost.
When updating Items from the Item calculation sheet, the Line Value (LCY) of this line will be copied to the *Standard Cost* field of the Item if the Item Costing Method equals Standard. For all other Costing methods, the field *unit Cost* will be updated.
 - Margin
In this case you can select a Landed Cost Group where the type equals Wholesale Margin
 - Sales Price
This indicates that this line represents the Sales Price.
When updating Items from the Item calculation sheet, the Line Value (LCY) of this line will be copied to the *Unit Price* field of the Item.
 - Retail Markup
In this case you can select a Landed Cost Group where the type equals Retail Markup
 - Recommended Retail Price
This indicates that this line represents the List Price.
When updating Items from the Item calculation sheet, the Line Value (LCY) of this line will be copied to the *Unit List Price* field of the Item.
 - Overhead Cost
This indicates that this line represents the Total Overhead Cost.
When updating Items from the Item calculation sheet, the Line Value (LCY) of this line will be copied to the *Overhead Rate* field of the Item.
Attention! You can set up a calculation in a way the the Total Overhead Cost does not

match the total of the individual surcharges. In that case the *Overhead Applied Account* does not necessarily equals the *Surcharge Account*.

- Group Code
Using the Types *landed Cost Element*, *Margin* or *Retail Markup*, you can select a predefined group that matched the given type.
- Element Code
If a Group Code is entered, you can select an Element of the given Group.
- Element Type
The element type can be *Fixed Value* or *Percentage*. If an Element Code is selected, the value defined in the Element will be copied to the Template Line.
This value can be changed.
- Value
This represents the value (in the displayed currency code)
- Currency Code
If the value is a Fixed Value this field contains the Currency Code if it is not the Local Currency.
- Reference
If the Element Type is a percentage and you enter a Reference the formula will be composed automatically. The reference must be an existing Row ID.
- Formula
This indicates how the value should be calculated. You can use Row ID's, fixed values and the following characters + - * / ()
- Rounding Method
The Line Value (LCY) will be rounded using the given rounding method.
(see example in Figure 13 Rounding methods)
- Column Sorting
In the Item calculation sheet the Lines of the Calculation template will be shown in Columns. With this field you can set the sorting of the Columns.
If you don't want a column to be displayed in the sheet, you can set the value to zero.
The line with Purchase Price cannot contain a Sorting Value. It will be shown automatically in the Item Calculation Sheet.
Attention! If a user personalizes the Item calculation sheet it is not guaranteed the column sorting matches the Sorting set in this field.
- Column Name
In the Item calculation sheet the Column Header will display the name entered in this field. If no Column Name is entered, the Row ID will be displayed in the header.

Calculation Template

CHPOLO

Actions

General

No. CHPOLO Description Polo's from China

CalculationTemplateLine Manage

Row ID	Type	Group Code	Element Code	Element Type	Value	Reference	Formula	Rounding Method	Column Sorting	Column Name
PP	Purchase Price				0.00			N0.01	0	
INSURANCE	Landed Cost Ele...	INSURANCE	LLOYDS	Fixed Value	0.25			N0.01	10	Insurance
FREIGHT	Landed Cost Ele...	FREIGHT CHINA	SEA 40FT	Fixed Value	0.30			N0.01	20	Freight
DUTIES	Landed Cost Ele...	DUTY CHINA	CHPOLO	Percentage	2.50	PP	PP * 2.5 / 100	N0.01	30	Duty
OVERHEAD	Overhead Cost				0.00		INSURANCE+FREIGHT+DUTIES	N0.01	0	OVH
LANDED	Landed Cost				0.00		PP+OVERHEAD	N0.01	40	Landed Cost
MARGIN	Margin	MARGIN	POLO	Percentage	40.00	LANDED	LANDED * 40 / 100	N0.01	50	Margin
→ PRICE					0.00		LANDED * MARGIN	N0.01	0	
MARKUP	Retail Markup	MARKUP	M2.7	Fixed Value	270.00				70	Markup
RRP	Recommended R...				0.00		PRICE * MARKUP / 100	U4.95	80	RRP
SALESPRICE	Sales Price				0.00		RRP * 100 / MARKUP		90	Sales Price

Figure 12 Calculation Template

2.6.1 Rounding Method

Select - Rounding Methods

Code ↑	Minimum Amount ↑	Amount Added Before	Type	Precision	Amount Added After
N0.01	0	0	Nearest	0.01	0
U4.95	0	0	Up	5	-0.05
→ N0.01	0	0	Nearest	0.5	0

Figure 13 Rounding methods

3 Process

After all the setup and default values are defined, the sheets can be created.

Basically, a sheet contains a group of items that will be calculated using the same Calculation Template. An Item can be used in multiple sheets so for example it's possible to have 2 calculations for an item, one for manufacturing in China and one for manufacturing in Turkey.

A sheet line can be marked as *Base Calculation*. This means that, unless specifically defined otherwise, this calculation will be used for posting the surcharges.

On Purchase line it's possible to select a specific calculation. A sheet(line) must be certified before it can be used for posting purposes.

Most Item calculation sheets are set up using the following steps

- Create a sheet header and specify at least which Calculation Template Will be used.
- Add currencies and exchange rates
- Add Items to the sheet
- Enter the (expected) purchase prices.
- Calculate the sheet
- Change the status to *Certified*.
- Update Items

3.1 Item calculation sheet

3.1.1 Create a sheet Header

In the header you can enter values that indicate the source of the items to be calculated.

If you use foreign currencies the Currency Date must be entered. To enter Exchange Rates (Figure 15 Exchange rates), click on Exch. Rates in the ribbon of the header.

After entering a Currency Code the system will get the Exchange Rate for the given Currency Date from the standard Business Central Exchange Rate table and copy the value to the Item calculation sheet. This way you can have Exchange Rates to use in the calculation without affecting the Exchange Rates used in the financial section of Business Central.

The status (Open, Certified or Closed) as shown in the header is based on the status of the lines.

- Open: At least one line has an Open status. It's possible that there are Certified and/or Closed lines as well.
- Certified: All lines are Certified
- Closed: All lines are Closed

To change the status of all lines, the buttons *Certify*, *Reopen* and *Close* in the ribbon can be used. If you use the *Reopen* function and Closed line exist, the system will ask if you want to reopen the closed lines as well.

Item Calculation Sheet | Work Date: 2/28/2022

LCW00004

Process Release

General

No. LCW00004 Status Certified

Name Item 10082 supplier 121 Calculation Template No. LCT000006

Vendor No. 121 Currency Date 2/21/2022

Country of Origin GB

Figure 14 Item Calculation Sheet Header

Item Calculation Exchange Rates | Work Date: 2/28/2022

Search + New Edit List Delete

Currency Code ↑	Exchange Rate
→ USD	1.5412500154125

Figure 15 Exchange rates

3.1.2 Get Items

Use the function *Get Items* in the ribbon of the header.

This will open a selection page where you can enter filters on Item Level. Note that the calculations are always on Item Level so it's not possible to enter filters on colors, sizes or variants.

All items within the given selection will be added to the sheet. If an item already exists in the sheet, it will be skipped. It's not possible to add an item twice to the same sheet.

Figure 16 Get Items selection page

3.1.3 Enter Purchase Prices

After the items are added (Figure 17 Sheet with added items), you can enter the expected purchase prices.

Once you change the purchase price the lines will be shown in *Red* to indicate that (re)calculation is required (Figure 18 Sheet with changed purchase prices).

The entire sheet can be calculated using the Calculate button in the ribbon of the header.

To inspect the details of the calculation you can use the Card button in the ribbon of the lines (Figure 20 Calculation Card). It's possible to change the purchase price on this card as well. The value will be copied to the Purchase Price on the sheet line.

Technical Release Notes K3 Landed Cost

Calculation Worksheet
LCW0002

Calculate Certify Reopen Update Item Add Items Exch. Rates

General

No. LCW0002 Status Open

Name Polo's from China Calculation Template No. CHPOLO

Vendor No. 117 Currency Date 01/02/2022

Country of Origin CN

Calculation Worksheet Line Manage

New Line Delete Line Card Certify Update Item

Item No. ↑	Item description	Base Calc...	Status	Item Category	Transport Method	Currency Code	Purchase Price	Purchase Price (LCV)	Insurance	Freight	Duty	Landed Cost	Margin	Markup
10007	T-shirt polo uni	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10009	T-shirt polo print	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10037	Poloshirt longleeve striped	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10201	T-shirt polo print	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10222	Poloshirt longleeve striped	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10229	T-shirt polo uni	<input type="checkbox"/>	Open	SHIRTS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
→		<input type="checkbox"/>	Open				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 17 Sheet with added items

Calculation Worksheet
LCW0002

Calculate Certify Reopen Update Item Add Items Exch. Rates

General

No. LCW0002 Status Open

Name Polo's from China Calculation Template No. CHPOLO

Vendor No. 117 Currency Date 01/02/2022

Country of Origin CN

Calculation Worksheet Line Manage

New Line Delete Line Card Certify Update Item

Item No. ↑	Item description	Base Calc...	Status	Item Category	Transport Method	Currency Code	Purchase Price	Purchase Price (LCV)	Insurance	Freight	Duty	Landed Cost	Margin	Markup
10007	T-shirt polo uni	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	9.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00
10009	T-shirt polo print	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	12.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00
10037	Poloshirt longleeve striped	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	10.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00
10201	T-shirt polo print	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	10.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00
10222	Poloshirt longleeve striped	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	15.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
→ 10229	T-shirt polo uni	<input checked="" type="checkbox"/>	Open	SHIRTS		USD	9.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 18 Sheet with changed purchase prices

Technical Release Notes K3 Landed Cost

Calculation Worksheet

LCW0002

Calculate Certify Reopen Update Item Add Items Exch. Rates

General

No. LCW0002 Status Open

Name Polo's from China Calculation Template No. CHPOLO

Vendor No. 117 Currency Date 01/02/2022

Country of Origin CN

Calculation Worksheet Line Manage

New Line Delete Line Card Certify Update Item

Item No. 1	Item description	Base Calc.	Status	Currency Code	Purchase Price	Purchase Price (BCT)	Insurance	Freight	Duty	Landed Cost	Margin	Markup	RRP	Sales Price
→ 10007	T-shirt polo uni	<input checked="" type="checkbox"/>	Open	USD	9.00	6.00	0.25	0.30	0.15	6.70	2.68	270.00	29.95	11.09
10009	T-shirt polo print	<input checked="" type="checkbox"/>	Open	USD	12.00	8.00	0.25	0.30	0.20	8.75	3.50	270.00	34.95	12.94
10037	Poloshirt longleeve striped	<input checked="" type="checkbox"/>	Open	USD	10.50	7.00	0.25	0.30	0.18	7.73	3.09	270.00	29.95	11.09
10201	T-shirt polo print	<input checked="" type="checkbox"/>	Open	USD	10.50	7.00	0.25	0.30	0.18	7.73	3.09	270.00	29.95	11.09
10222	Poloshirt longleeve striped	<input checked="" type="checkbox"/>	Open	USD	15.00	10.00	0.25	0.30	0.25	10.80	4.32	270.00	44.95	16.65
10229	T-shirt polo uni	<input checked="" type="checkbox"/>	Open	USD	9.00	6.00	0.25	0.30	0.15	6.70	2.68	270.00	29.95	11.09

Figure 19 Sheet after calculation

Calculation Card

LCW0002 · 10007

Calculate

General

Worksheet No. LCW0002 Country of Origin CN

Item No. 10007 Minimum Order Quantity 0

Item description T-shirt polo uni Starting Date

Base Calculation ☒ Item Category SHIRTS

Vendor No.

Calculation Line Sub Manage

Row ID	Type	Group Code	Element Code	Element Type	Currency Code	Value	Reference	Formula	Rounding Method	Line Value (LCV)	Surcharge Posting Group
→ PP	Purchase Price				USD	9.00			N0.01	6.00	
INSURANCE	Landed Cost EL...	INSURANCE	LLOYDS	Fixed Value		0.25			N0.01	0.25	INS
FREIGHT	Landed Cost EL...	FREIGHT CHINA	SEA 40FT	Fixed Value		0.30			N0.01	0.30	FREIGHT
DUTIES	Landed Cost EL...	DUTY CHINA	CHPOLO	Percentage		2.50	PP	PP * 2.5 / 100	N0.01	0.15	DUTY
OVERHEAD	Overhead Cost					0.00		INSURANCE+FREIGHT+DUTIES	N0.01	0.70	
LANDED	Landed Cost					0.00		PP+OVERHEAD	N0.01	6.70	
MARGIN	Margin	MARGIN	POLO	Percentage		40.00	LANDED	LANDED * 40 / 100	N0.01	2.68	
PRICE						0.00		LANDED + MARGIN	N0.01	9.38	
MARKUP	Retail Markup	MARKUP	M2.7	Fixed Value		270.00				270.00	
RRP	Recommended ...					0.00		PRICE * MARKUP / 100	U4.95	29.95	
SALESPRICE	Sales Price					0.00		RRP * 100 / MARKUP		11.09	

Figure 20 Calculation Card

3.1.4 Update Items

Once the sheet is calculated and certified, use the function *Update Item*. This will update fields on the item card based on the *Type* in the Calculation Template Line.

- Type = Landed Cost.
If the costing method is Standard, the *Standard Cost* will be updated. For other costing methods the *unit Cost* will be updated.

- Type = Overhead Cost.
The *Overhead Rate* will be updated.
- Type = Purchase Price.
The *Last Direct Cost* will be updated.
- Type = Sales Price.
The *Unit Price* will be updated.
- Type = recommended Retail Price.
The *Unit List Price* will be updated.

Item Card

10007 · T-shirt polo uni

We have created a short video that explain's how-to create a Overview in k3|pebblestone. [Start Video](#) | Don't show this notification again.

Process Report Item Prices & Discounts Request Approval Actions Related Reports Fewer options

inventory

Costs & Purchasing

Cost Details

Costing Method: FIFO

Standard Cost: 0.00

Unit Cost: 6.70

Net Invoiced Qty: 0

Cost is Adjusted: ☐

Purchase Prices & Discounts: [View Existing Prices and Discounts...](#)

Posting Details

Gen. Prod. Posting Group: RETAIL

Inventory Posting Group: RESALE

Default Deferral Template:

Foreign Trade

Tariff No.: 6109 10 0012

Prices & Sales

Unit Price: 11.09259

Unit Price Excl. VAT: 11.09

Recommended Retail Price: 19.95

Price/Profit Calculation: Profit=Price-Cost

Profit %: 39.60

Sales Prices & Discounts: [View Existing Prices and Discounts...](#)

Special Recommended Retail Prices: [Create New...](#)

Allow Invoice Disc.: ☐

Item Disc. Group: APPAREL

Sales Unit of Measure: PCS

Sales Blocked: ☐

Item Availability

Inventory: 0

Item Availability: -

Qty. on Purch. Order: 0

Qty. on Sales Order: 0

Wash and Care

Washing: ☐ Bleaching: ☐ Drying: ☐

Figure 21 Item Card with updated fields

3.2 Posting

For posting surcharges a number of criteria must be met:

- The Calculation template Line must have a Surcharge Posting Group.
- The Surcharge posting Group must have a valid G/L Account
- The calculation must be certified

During the posting routine of the purchase invoice, *Calculation entries* will be inserted. The value that must be posted is registered in these entries.

Unless otherwise indicated in the Landed Cost Setup, the calculation entries will be posted during the same Purchase Invoice Posting routine.

The standard Business Central posting is untouched. The Landed Cost functionality will only add a number of G/L Entries.

In the given example (Figure 22 G/L Entries Posted Invoice) the yellow marked values are the result of the Landed Cost functionality.

Technical Release Notes K3 Landed Cost

7170 Inventory Adjmt., Retail

General Ledger Entries | Search | Edit List | Process | Entry | More options

Posting Date ▼	Document Type	Document No. ▼	G/L Account No. ▼	Description	Gen. Posting Type	Gen. Bus. Posting Group	Gen. Prod. Posting Group	Amount	Bal. Account Type	Bal. Account No.	Entry No.
→ 16/02/2022	:	108004	7170	Direct Cost 117 on 16/02/22				-6,000.00	G/L Account		21
16/02/2022		108004	7169	Overhead Applied				700.00	G/L Account		34
16/02/2022		108004	7169	Indirect Cost 117 on 16/02/22				-700.00	G/L Account		21
16/02/2022		108004	7162	Surcharges Duties				-150.00	G/L Account		31
16/02/2022		108004	7161	Surcharges Insurance				-250.00	G/L Account		31
16/02/2022		108004	7160	Surcharges Freight				-300.00	G/L Account		31
16/02/2022	Invoice	108004	7130	Order 106010	Purchase	EXPORT	RETAIL	6,000.00	G/L Account		21
16/02/2022	Invoice	108004	5420	Order 106010				-6,000.00	G/L Account		31
16/02/2022		108004	2110	Indirect Cost 117 on 16/02/22				700.00	G/L Account		21
16/02/2022		108004	2110	Direct Cost 117 on 16/02/22				6,000.00	G/L Account		21

Figure 22 G/L Entries Posted Invoice

4 Update May 2022

4.1 Unit Cost and Carry-over

The following Item calculation is created for item 10022 (The field “Base Calculation” is marked):

Item Calculation Sheet
LCW00032

Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Process Release

General

No. LCW00032 Vendor No. 100 Calculation Template No. LCT000020

Name Country of Origin Currency Date

Status Certified

Lines Manage Line Fewer options

Item No. T	Item description	Base Calcul.	Status	Item Category	Currency Code	Purchase Price	Purchase Price SCTY	Freight	Insurance	VAT	Import Duty	Landed Cost	Overhead Cost	Margin	Sales Price	Retail Markup	RSP
10028	Short checked		Certified	SHORTS		25.00	25.00	0.50	2.00	5.25	5.00	37.75	12.75	19.06	56.95	170.95	227.95

The fields “Unit Cost”, “Overhead Rate”, “Last Direct Cost” and “Calculated Landed Cost” are updated in the item card:

Item Card
10028 · Short checked

Notifications: 2 We have created a short video that explains how-to create a Overview in K3 Pebblestone. | Reminder: your work date is 01/04/2022

Process Report Item Prices & Discounts Request Approval Actions Related Reports Fewer options

Costs & Purchasing

Cost Details

Costing Method FIFO

Standard Cost 0.00

Unit Cost 37.75

Indirect Cost % 0

Overhead Rate 12.75

Last Direct Cost 25.00

Calculated Landed Cost 37.75

Net Invoiced Qty. 0

Cost is Adjusted

Cost is Posted to G/L

Purchase Prices & Discounts View Existing Prices and Discounts...

Posting Details

Gen. Prod. Posting Group RETAIL

VAT Prod. Posting Group STANDARD

Inventory Posting Group RESALE

Default Deferral Template

Foreign Trade

Tariff No. 6103 42 1065

Country/Region of Origin Code US

When creating a purchase order for item 10028, the field “Direct Unit Cost” = 25 and the field “Unit Cost” = 37.75 (Direct Unit Cost + Overhead Rate and this is done by standard BC). The difference between Unit Cost and Direct Unit Cost is the Overhead Rate (= indirect cost).

Technical Release Notes K3 Landed Cost

Purchase Order

106068 · London Fashion Makers

✕ Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Process Release Posting Prepare Order Request Approval Print/Send Navigate More options

General

Vendor Name London Fashion Makers Vendor Invoice No. 000004

Contact David Hamilton Vendor Shipment No.

Document Date 01/04/2022 Purchaser Code BC

Lines | Manage More options

Type	Style No.	No.	Item Reference No.	Item Description	Location Code	Quantity	Auto Can... Re...	Unit of Measure Code	Direct Unit Cost Excl. VAT
→ Item	ORIGINAL	10028		Short checked	MAIN	1 ...	<input type="checkbox"/>	PCS	25.00

> Page Inspection ✕

See information about the page, its different elements, and the source behind the data it displays.

Page
Purchase Order Subform (54, ListPart)

Table
Purchase Line (39)

View table

Table Fields Extensions Page Filters

cost

Direct Unit Cost (22, Decimal)
25
Base Application

Unit Cost (LCY) (23, Decimal)
37.75
Base Application

Indirect Cost % (54, Decimal)
0
Base Application

Unit Cost (100, Decimal)
37.75
Base Application

When posting the purchase order, you get the following value entries:

Value Entries

✕ Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Search Entry More options

Posting Date	Item Ledger Entry Type	Entry Type	Adj...	Document Type	Document No. 1	Item Charge No.	Description	Sales Amount (Actual)	Cost Amount (Expected)	Cost Amount (Actual)	Cost Amount (Non-Invtbl)	Cost Posted to G/L
01/04/2022	Purchase	Direct Cost	<input type="checkbox"/>	Purchase In...	108031		Short checked Grey-M	0.00	0.00	25.00	0.00	25.00
01/04/2022	Purchase	Indirect Cost	<input type="checkbox"/>	Purchase In...	108031			0.00	0.00	12.75	0.00	12.75

In a new season a new item calculation is created for item 10028 (The field “Base Calculation” is marked)

The fields “Overhead Rate”, “Last Direct Cost” and “Calculated Landed Cost” are updated in the item card. The field “Unit Cost” is based on FIFO (Costing Method = FIFO) and a purchase order is posted for item 10022 (See above) and according to standard BC you cannot change the “Unit Cost” anymore after a transaction is executed for an item when costing method = FIFO. You only can change the field “Unit Cost” after a transaction is executed for an item when the field “Costing Method” = Standard for that item.

When creating a purchase order for item 10028, the field “Direct Unit Cost” = 30 and the field “Unit Cost” = 44.30 (Direct Unit Cost + Overhead Rate and this is done by standard BC). The difference between Unit Cost and Direct Unit Cost is the Overhead Rate (= indirect cost).

Technical Release Notes K3 Landed Cost

Purchase Order

106070 · London Fashion Makers

✕ Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Process Release Posting Prepare Order Request Approval Print/Send Navigate More options

General

Vendor Name London Fashion Makers Vendor Invoice No. 00005

Contact David Hamilton Vendor Shipment No.

Document Date 01/04/2022 Purchaser Code BC

Lines | Manage More options

Type	Style No.	No.	Item Reference No.	Item Description	Location Code	Quantity	Auto Can. Re...	Unit of Measure Code	Direct Unit Cost Excl. VAT
→ Item	ORIGINAL	10028		Short checked	MAIN	1 ...	<input type="checkbox"/>	PCS	30.00

> Page Inspection ✕

See information about the page, its different elements, and the source behind the data it displays.

Page

Purchase Order Subform (54, ListPart)

Table

Purchase Line (39)

View table

Table Fields Extensions Page Filters

cost ✕

Direct Unit Cost (22, Decimal)
30
Base Application

Unit Cost (LCY) (23, Decimal)
44.3
Base Application

Indirect Cost % (54, Decimal)
0
Base Application

Unit Cost (100, Decimal)
44.3
Base Application

When posting the purchase order, you get the following value entries:

Value Entries

✕ Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Search Entry More options

Posting Date	Item Ledger Entry Type	Entry Type	Adj...	Document Type	Document No. 1 ▼	Item Charge No.	Description	Sales Amount (Actual)	Cost Amount (Expected)	Cost Amount (Actual)	Cost Amount (Non-Invtbl.)	Cost Posted to G/L
01/04/2022	Purchase	Direct Cost	<input type="checkbox"/>	Purchase In...	108032		Short checked Grey-M	0.00	0.00	30.00	0.00	30.00
01/04/2022	Purchase	Indirect Cost	<input type="checkbox"/>	Purchase In...	108032			0.00	0.00	14.30	0.00	14.30

4.2 Change values in item calculation card

For example, you have the following Item Calculation Card (created from the item calculation sheet) for item 10028.

Edit - Item Calculation Card - LCW00033 - 10028

Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Manage Calculate Page

General

Calculation No. LCW00033 Base Calculation ☒ Minimum Order Quantity 0

Item No. 10028 Vendor No. Starting Date

Item description Short checked Country of Origin US Item Category SHORTS

Lines

Row ID	Type	Group Code	Element Code	Element Type	Currency Code	Value	Reference	Formula	Rounding Method	Line Value (LC)	Surcharge Posting Group
A	Purchase Price					30.00				30.00	
B	Landed Cost Element	FREIGHT	SEA	Percentage		10.00	A	A * 10 / 100		3.00	FREIGHT
C	Landed Cost Element	INSURANCE	CF-INS	Percentage		8.00	A	A * 8 / 100		2.40	INSURANCE
D	Landed Cost Element	VAT DUTY	HIGH-VAT	Percentage		21.00	A	A * 21 / 100		6.30	
E	Landed Cost Element	IMPORTDUTY	IMPORT	Fixed Value		4.00				4.00	DUTIES
F	Landed Cost					0.00		A+B+C+D+E		45.70	
G	Overhead Cost					0.00		B+C+D+E		15.70	
H	Margin			Percentage		50.50	F	F * 50.5 / 100	2DECIMALS	23.08	
I	Sales Price					0.00		F+H	NEARWHOLE	68.95	
J	Retail Markup			Percentage		300.00	I	I * 300 / 100	COMMERCIAL	206.95	
K	Recommended Retail					0.00		I+J	NEARWHOLE	275.95	

If you want another “Element Code” or another “Value” for one of the lines in the calculation card of an item, then this is possible. You can change the fields “Element Code” and “Value” in the Item Calculation Card.

- When you change the field “Value”, the field “Formula” will be updated (see Row ID = C).
- When you change the field “Element Code”, the fields “Value” and “Formula” will be updated (see Row ID = D).

Edit - Item Calculation Card - LCW00033 - 10028

Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Manage Calculate Page

General

Calculation No. LCW00033 Base Calculation ☒ Minimum Order Quantity 0

Item No. 10028 Vendor No. Starting Date

Item description Short checked Country of Origin US Item Category SHORTS

Lines

Row ID	Type	Group Code	Element Code	Element Type	Currency Code	Value	Reference	Formula	Rounding Method	Line Value (LC)	Surcharge Posting Group
A	Purchase Price					30.00				30.00	
B	Landed Cost Element	FREIGHT	SEA	Percentage		10.00	A	A * 10 / 100		3.00	FREIGHT
C	Landed Cost Element	INSURANCE	CF-INS	Percentage		8.00	A	A * 8 / 100		2.40	INSURANCE
D	Landed Cost Element	VAT DUTY	LOW-VAT	Percentage		9.00	A	A * 9 / 100		6.30	
E	Landed Cost Element	IMPORTDUTY	IMPORT	Fixed Value		4.00				4.00	DUTIES
F	Landed Cost					0.00		A+B+C+D+E		45.70	
G	Overhead Cost					0.00		B+C+D+E		15.70	
H	Margin			Percentage		50.50	F	F * 50.5 / 100	2DECIMALS	23.08	
I	Sales Price					0.00		F+H	NEARWHOLE	68.95	
J	Retail Markup			Percentage		300.00	I	I * 300 / 100	COMMERCIAL	206.95	
K	Recommended Retail					0.00		I+J	NEARWHOLE	275.95	

When you are ready with all the changes in the calculation card of an item, you must select Calculate in the ribbon.

Edit - Item Calculation Card - LCW00033 - 10028

Reminder: your work date is 01/04/2022 Use today | Change to... | Turn off reminder

Manage Calculate Page

Technical Release Notes K3 Landed Cost

The values in the field “Line Value (LCY)” are now recalculated.

Edit - Item Calculation Card - LCW00033 - 10028

Reminder: your work date is 01/04/2022. Use today | Change to... | Turn off reminder

Manage Calculate Page

General

Calculation No. LCW00033 Base Calculation ☒ Minimum Order Quantity 0

Item No. 10028 Vendor No. Starting Date

Item description Short checked Country of Origin US Item Category SHORTS

Lines

Row ID	Type	Group Code	Element Code	Element Type	Currency Code	Value	Reference	Formula	Rounding Method	Line Value (LCY)	Surcharge Posting Group
A	Purchase Price					30.00				30.00	
B	Landed Cost Element	FREIGHT	SEA	Percentage		10.00	A	A * 10 / 100		3.00	FREIGHT
C	Landed Cost Element	INSURANCE	CIF-INS	Percentage		6.00	A	A * 6 / 100		1.80	INSURANCE
D	Landed Cost Element	VAT DUTY	LOW-VAT	Percentage		9.00	A	A * 9 / 100		2.70	
E	Landed Cost Element	IMPORTDUTY	IMPORT	Fixed Value		4.00				4.00	DUTIES
F	Landed Cost					0.00		A+B+C+D+E		41.50	
G	Overhead Cost					0.00		B=C+D+E		11.50	
H	Margin			Percentage		50.50	F	F * 50.5 / 100	DECIMALS	20.96	
I	Sales Price					0.00		F+H	NEARWHOLE	62.46	
J	Retail Markup			Percentage		300.00	I	I * 300 / 100	COMMERCIAL	188.46	
K	Recommended Retail ...					0.00		I+J	NEARWHOLE	251.95	

5 Update July 2022

5.1 Simulated purchase price.

When calculating backwards (from simulated RRP to purchase price) the calculated purchase price was always in Local Currency. However, it makes more sense to have this value in Foreign Currency. To achieve this the following changes are implemented.

Two types are added to the Type field.

- **Simulated Purchase Price (LCY).**
Use this type to indicate the line that is used to calculate the simulated purchase price in LCY.
- **Simulated Purchase Price (FCY).**
Use this type to indicate the line that should get the value of purchase price in a certain currency. The currency code can be entered on the line.
The calculation off this line requires the presence of a line with type *Simulated Purchase Price (LCY)*. This line will be used as the base for the *Simulated Purchase Price (LCY)*.
The exchange rated for the currency must be defined in the Item Calculation Sheet.

Row ID	Type	Currency Code	Value	Formula	Rounding Method	Column Sorting	Column Name	Style expression
→ MARGINAMT			0.00	LANDED * MARGIN / 100		0		None
SLSPRICE1			0.00	LANDED + MARGINAMT	N0.01	80	Sales Price	StandardAccent
MARKUP1	Retail Markup		270.00			0		None
CALCRRP	Recommended Retail Price		0.00	SLSPRICE1 * MARKUP1 / 100	U4.95	100	RRP	Strong
RRPOS	Simulated RRP		0.00			110	RRP (Sim)	StrongAccent
SLSPRICE2			0.00	100 * RRPOS / MARKUP1	N0.01	0	Sales Price (Sim)	AttentionAccent
MARGIN2			0.00	SLSPRICE2 * MARGIN / (100 + MARGIN)	N0.01	0		None
LANDED2			0.00	SLSPRICE2 - MARGIN2	N0.01	0	Landed (Sim)	AttentionAccent
OVHFIXED			0.00	INSURANCE + FREIGHT	N0.01	0		None
OVHPERC			0.00	DUTIES	N0.01	0		None
LANDEXFIX			0.00	LANDED2 - OVHFIXED	N0.01	0		None
PPPOSSIBLE	Simulated Purchase Price (LCY)		0.00	100 * LANDEXFIX / (100 + OVHPERC)		0	Purch. Price (Sim)	None
PPPOFCY	Simulated Purchase Price (FCY)	USD	0.00		N0.01	190	Purch. Price (USD)	StrongAccent

Figure 23 Simulated Purchase Price LCY and FCY in Template

An example is given in the following screenshots.

Figure 24 Calculating Forward

Starting with a purchase price of USD 9,- (= 6,- in LCY) the calculated RRP is 29.95 (in LCY).

Figure 25 Calculating backwards

We think we can sell this beautiful item for a RRP of 34.95 instead of 29.95. So, we enter this value on the *Simulated RRP* line. Calculated backwards, the system already was able to calculate the simulated purchase price in LCY (in this example 8.48).

Compared to the previous version there are 2 settings that should be added in the calculation (template and sheet).

- Add the type *Simulated Purchase Price (LCY)* to the line with the simulated purchase price.
- Add a line with type *Simulated Purchase Price (FCY)*. There is no need to enter any value on this line. The system will try to find a line with type *Simulated Purchase Price (LCY)* and use that for the calculation of the purchase price (FCY).

Row ID	Type	Currency Code	Value	Formula	Line Value (LCY)
→ PP	Purchase Price	USD	9.00		6.00
INSUR...	Landed Cost Element		0.25		0.25
FREIGHT	Landed Cost Element		0.30		0.30
DUTIES	Landed Cost Element		2.50		2.50
DUTIES...			0.00	PP * DUTIES / 100	0.15
OVERH...	Overhead Cost		0.00	INSURANCE+FREIGHT+DUTIES...	0.70
LANDED	Landed Cost		0.00	PP + OVERHEAD	6.70
MARGIN	Margin		40.00		40.00
MARGI...			0.00	LANDED * MARGIN / 100	2.68
SLSPRI...			0.00	LANDED + MARGINAMT	9.38
MARK...	Retail Markup		270.00		270.00
CALCRP	Recommended Retail Price		0.00	SLSPRICE1 * MARKUP1 / 100	29.95

Figure 24 Calculating Forward

CALCRP	Recommended Retail Price		0.00	SLSPRICE1 * MARKUP1 / 100	29.95
RRPPOS	Simulated RRP		34.95		34.95
SLSPRI...			0.00	100 * RRPPOS / MARKUP1	12.94
MARGI...			0.00	SLSPRICE2 * MARGIN / (100 + ...	3.70
LANDE...			0.00	SLSPRICE2 - MARGIN2	9.24
OVHFI...			0.00	INSURANCE + FREIGHT	0.55
OVHPE...			0.00	DUTIES	2.50
LANDE...			0.00	LANDED2 - OVHFIXED	8.69
PPPOS...	Simulated Purchase Price (LCY)		0.00	100 * LANDEXFIX / (100 + OVH...	8.48
PPPOS...	Simulated Purchase Price (FCY)	USD	12.72		8.48

Figure 25 Calculating backwards

Item No. ↑	Item description	Base Curren...	Status	Item Category	Curren... Code	Purchase Price	Purchase Price (LCY)	Insurance	Freight	DUTIES	Duties	OVERHEAD	Landed Cost	Sales Price	RRP	RRP (Sim)	Purch. Price (USD)
→ 10000	T-shirt print		<input type="checkbox"/> Open	SHIRTS	USD	9.00	6.00	0.25	0.30	2.50	0.15	0.70	6.70	9.38	29.95	34.95	12.72

Figure 26 Item calculation sheet - Calculation overview

5.2 Currency Code

The *Currency Code* is added to the Template Lines page.

We assume that the currency code for the *Simulated Purchase Price (FCY)* will be the same as for the *Purchase Price*. Therefore, if a currency code in one of the lines is entered, it will automatically be copied to the other.

5.3 Copy RRP to Item

The RRP is copied to the Item when using the function *Update Item*.

However, if you enter a simulated RRP, you want to use this value to be copied to the Item Card. If the line with *Simulated RRP* contains a value, this value will be used to update the item.

Prices & Sales

Unit Price	<input type="text" value="10.98"/>
Unit Price Excl. VAT	<input type="text" value="10.98"/>
Recommended Retail Price	<input type="text" value="34.95"/>
Price Includes VAT	<input checked="" type="checkbox"/>

Figure 27 RRP on Item Card

5.4 Style Expression on calculation sheet

On Template Lines new fields, *Style Expression* is added.

With this field the user can set the Style Expression for the columns on the Calculation Subline page.

- (Figure 28 Calculation Template - Style Expression added - Example for calculate from Purchase Price to RRP and back)
- (Figure 29 Item Calculation Sheet - Usage of different Style Expressions)

On Template Line a new option is added to the calculation Type. Simulated RRP.

This field can be used in scenario's where you start with a purchase price and calculate an RRP. Next you want to calculate backwards. So calculate the purchase price starting with an RRP that is not necessary the calculated RRP. Hence the new field.

On the Item Calculation Subpage the column that represents the Simulated RRP is editable. Entering a value in this column will automatically lead to the same value in the corresponding Item Calculation Detail Line.

- (Figure 28 Calculation Template - Style Expression added - Example for calculate from Purchase Price to RRP and back)

A Template header/line can only be deleted if no calculation sheet lines exist that are based on the template.

On Item calculation Header the field *Calculation template No.* can only be changed if no calculation Detail Lines exist.

An Item calculation line can only be deleted if the calculation does not exist on any purchase line.

On the calculation detail lines the fields *Value*, *Currency Code* and *Formula* are now editable.

Technical Release Notes K3 Landed Cost

Calculation Template

CNPOLO

Actions

General

No. CNPOLO Description Polo's from China

Lines Manage

Row ID	Type	Group Code	Element Code	Element Type	Value	Ref...	Formula	Rounding Method	Column Sorting	Column Name	Style expression
→ PP	Purchase Pr...				0.00			N0.01	0	Purchase Price	Strong
INSURANCE	Landed Cos...	INSURANCE ...	LLOYDS	Fixed Value	0.25			N0.01	20	Insurance	None
FREIGHT	Landed Cos...	FREIGHT CH	SEA40	Fixed Value	0.30			N0.01	30	Freight	None
DUTIES	Landed Cos...	DUTY CH	CHPOLO	Percentage	2.50				0		None
DUTIESAMT					0.00		PP * DUTIES / 100	N0.01	40	Duties	None
OVERHEAD	Overhead C...				0.00		INSURANCE+FREIGHT+DUTIESAMT	N0.01	0		None
LANDED	Landed Cost				0.00		PP + OVERHEAD	N0.01	60	Landed Cost	Strong
MARGIN	Margin	MARGIN	POLO	Percentage	40.00			N0.01	0		None
MARGINAMT					0.00		LANDED * MARGIN / 100		0		None
SLSPRICE1					0.00		LANDED + MARGINAMT	N0.01	80	Sales Price	StandardAccent
MARKUP1	Retail Mark...	MARKUP	M2.7	Percentage	270.00				0		None
CALCRP	Recommen...				0.00		SLSPRICE1 * MARKUP1 / 100	U4.95	100	RRP	Strong
RRPPOS	Simulated R...				0.00				110	RRP (Sim)	StrongAccent
SLSPRICE2					0.00		100 * RRPPOS / MARKUP1	N0.01	120	Sales Price (Sim)	AttentionAccent
MARGIN2					0.00		SLSPRICE2 * MARGIN / (100 + MARGIN)	N0.01	0		None
LANDED2					0.00		SLSPRICE2 - MARGIN2	N0.01	140	Landed (Sim)	AttentionAccent
OVHFIXED					0.00		INSURANCE + FREIGHT	N0.01	0		None
OVHPERC					0.00		DUTIES	N0.01	0		None
LANDEXFIX					0.00		LANDED2 - OVHFIXED	N0.01	0		None
PPPOSSIBLE					0.00		100 * LANDEXFIX / (100 + OVHPERC)	N0.01	180	Purch. Price (Sim)	StrongAccent

Figure 28 Calculation Template - Style Expression added - Example for calculate from Purchase Price to RRP and back

Item Calculation Sheet

CNPOLO23FW

Process Release

General

No. CNPOLO23FW Status Open

Name Polo's from China 2023 Fall Winter

Calculation Template No. CNPOLO

Vendor No. 121

Currency Date 1/1/2022

Country of Origin CN

Lines Manage Line Fewer options

Item No. #	Item description	Base Calc...	Status	Item Category	Tran... Met...	Curr... Code	Purchase Price	Purchase Price (LCY)	Insuranc...	Freight	Duties	Landed Cost	Sales Price	RRP	RRP (Sim)	Sales Price (Sim)	Landed (Sim)	Purch. Price (Sim)
→ 10000	T-shirt print	<input type="checkbox"/>	Open	SHIRTS		USD	9.00	6.43	0.25	0.30	0.16	7.14	10.00	29.95	39.95	14.80	10.57	9.78
10001	T-shirt print	<input type="checkbox"/>	Open	SHIRTS			9.50	9.50	0.25	0.30	0.24	10.29	14.41	39.95	44.95	16.65	11.89	11.06
10002	T-shirt multicoloured	<input type="checkbox"/>	Open	SHIRTS		USD	9.25	6.61	0.25	0.30	0.17	7.33	10.26	29.95	39.95	14.80	10.57	9.78
10003	T-shirt print	<input type="checkbox"/>	Open	SHIRTS			10.00	10.00	0.25	0.30	0.25	10.80	15.12	44.95	49.95	18.50	13.21	12.35
10004	Polo pique with print	<input type="checkbox"/>	Open	SHIRTS			8.00	8.00	0.25	0.30	0.20	8.75	12.25	34.95	35.95	13.31	9.51	8.74
10007	T-shirt polo uni	<input type="checkbox"/>	Open	SHIRTS			8.40	8.40	0.25	0.30	0.21	9.16	12.82	34.95	40.95	15.17	10.84	10.04
10009	T-shirt polo print	<input type="checkbox"/>	Open	SHIRTS			8.80	8.80	0.25	0.30	0.22	9.57	13.40	39.95	34.95	12.94	9.24	8.48

Figure 29 Item Calculation Sheet - Usage of different Style Expressions

6 Update January 2023

6.1 No. of columns

The number of columns has been increased from 20 to 50.
Internally the number of columns is 98 (99 is used for internal purposes).
There is no warning or error message if the number of columns that are used in the Template is between 50 and 99. Therefore partners can extend the number of columns from 50 to a maximum of 98.

6.2 Change Base Calculation

It is now possible to set the Base Calculation on an item if this item already has a Base Calculation indicator in another calculation sheet. If this is the case, and the user explicitly confirms the action, the Base Calculation in the other Calculation Sheet will be removed and it will be set in the current Calculation Sheet.
Note that the indication in the other Calculation will be set to false even if the status on that line is not Open.

6.3 Editable Columns

In the Calculation Template Lines, a field `Column Editable` has been added.
When set to true, users can change the values in the columns in the Item Calculation Sheet.
Note that this field can not be set to true if the template line contains a formula.

6.4 Add Items

The filter values on the Add Items report now will be saved.

6.5 Event Publishers

A number of publishers have been added.

6.5.1 Table K3LCItem Calculation Header

```
K3LCOnAfterDeleteRelatedData(K3LCItemCalculationHeader: Record "K3LCItem  
Calculation Header")
```

This publisher can be used if a partner has created data related to the K3LCItem Calculation Header table and this data should be deleted when the header is deleted.

6.5.2 Table K3LCItem Calculation Line

```
K3LCOnAfterDeleteRelatedData(K3LCItemCalculationLine: Record "K3LCItem  
Calculation Line")
```

This publisher can be used if a partner has created data related to the K3LCItem Calculation Line table and this data should be deleted when the header is deleted.

```
K3LCOnBeforeCheckStatus(var K3LCItemCalculationLine: Record "K3LCItem  
Calculation Line"; var Handled: Boolean)
```

By default, in order to be able to change lines, the status of the Item Calculation Line must be Open. If not, an error message is generated.

By subscribing to this Publisher and setting the Handled to true, you can skip the error message.

6.5.3 Table K3LC Landed Cost Group

```
K3LCOnAfterDeleteRelatedData(K3LCLandedCostGroup: Record "K3LC Landed Cost  
Group")
```

This publisher can be used if a partner has created data related to the K3LC Landed Cost Group table and this data should be deleted when the landed Cost Group is deleted.

6.5.4 Table K3LC Template Header

```
K3LCOnAfterDeleteRelatedData(K3LCTemplateHeader: Record "K3LC Template  
Header")
```

This publisher can be used if a partner has created data related to the K3LC Template Header table and this data should be deleted when the header is deleted.

6.5.5 Codeunit K3LC Get Items

```
OnBeforeAddItem(K3LCItemCalculationLine: Record "K3LCItem Calculation  
Line"; Item: Record Item; var Handled: Boolean);
```

The calculation function loops through the Items within the selected filter.

For each item the function AddItem is executed.

When Handled is set to true, creating a line for this Item will be skipped.

```
OnBeforeCreateCalcDetailLines(var K3LCTemplateLine: Record "K3LC Template  
Line";var K3LCItemCalculationLine: Record "K3LCItem Calculation
```

```
Line";K3LCItemCalcDetailLine: Record "K3LCItem Calc. Detail Line"; var  
Handled: Boolean);
```

This Publisher is called before the first calculation detail line is created.
When Handled is set to true, the remaining part of the function will not be executed.

```
OnAfterCreateCalcDetailLines(var K3LCItemCalculationLine: Record "K3LCItem  
Calculation Line");
```

This publisher is called after the Detailed Lines are copied from the template lines.
The value of K3LCItemCalculationLine is the updated record for which the Calculation Detail Lines are generated.

```
OnBeforeCreateOneCalcDetailLine(K3LCTemplateLine: Record "K3LC Template Line";  
K3LCItemCalculationHeader: Record "K3LCItem Calculation  
Header" ;K3LCItemCalculationLine: Record "K3LCItem Calculation  
Line";K3LCItemCalcDetailLine: Record "K3LCItem Calc. Detail Line"; var  
Handled: Boolean);
```

This Publisher is called before a calculation detail line is created. However the record K3LCItemCalcDetailLine has already been initialized.
When Handled is set to true, the remaining part of the function will not be executed.

6.5.6 Codeunit K3LC Landed Cost Management

```
K3LCTemplateLineOnBeforeComposeFormula(var K3LCTemplateLine: Record "K3LC  
Template Line"; Handled: Boolean)
```

This Publisher is called when the field Value in the Template Line is validated, before the Formula is composed.
When Handled is set to true, the standard calculation of the formula will not be executed.

```
K3LCCalculationLineOnBeforeComposeFormula(var K3LCItemCalcDetailLine: Record  
"K3LCItem Calc. Detail Line"; Handled: Boolean)
```

This Publisher is called when the field Value in the Calculation Detail Line is validated, before the Formula is composed.
When Handled is set to true, the standard calculation of the formula will not be executed.