

Introduction to MS Dynamics

NAV XV. (Lot numbers and Item Tracking)

Ing.J.Skorkovský,CSc.

MASARYK UNIVERSITY BRNO, Czech Republic
Faculty of economics and business administration
Department of corporate economy

Lot numbers (batches)-Item Tracking

- It enables to mark Item Ledger Entries by Lot (Batch) Number, which is part of the batch card. It enables :
 - Item tracking from purchase, possible subsequent production , transfers and sales
 - It enables to control quality and better specification of rejects (scraps)
 - It enables to control warranty and expiration

New card creation

(Select one item, Edit, Select , Ctrl-C,F3,Ctrl-V, add basic unit of measure – e.g. gr add Unit price, Reordering policy... Lot-for Lot, Add Tracking Code-LOTALL)

X100 Ginko Biloba - Item Card

General Invoicing Replenishment Planning Foreign Trade Item Tracking E-Commerce Warehouse

No. X100 Search Description . . . GINKO BILOBA

Description Ginko Biloba Inventory. 0

Base Unit of Measure . . . PACK Qty. on Purch. Order . . . 0

Bill of Materials Qty. on Prod. Order . . . 0

Shelf No. Qty. on Component Lines . . . 0

Automatic Ext. Texts . . . Qty. on Sales Order . . . 0

Created From Nonstoc... Qty. on Service Order . . . 0

Item Category Code. . . MISC Service Item Group . . .

Product Group Code. . . MEDICINES Blocked

Last Date Modified . . . 17.10.14

Item Sales Purchases Functions Help

X100 Ginko Biloba - Item Card

General Invoicing Replenishment Planning Foreign Trade Item Tracking E-Commerce Warehouse

Costing Method LIFO Gen. Prod. Posting Group RETAIL

Cost is Adjusted. VAT Prod. Posting Group VAT25

Cost is Posted to G/L Inventory Posting Group FINISHED

Standard Cost 0,00 Net Invoiced Qty. 0

Unit Cost 0,00 Allow Invoice Disc.

Overhead Rate 0,00 Item Disc. Group

Indirect Cost % 0 Sales Unit of Measure . . . PACK

Last Direct Cost 0,00

Price/Profit Calculation . . . Profit=Price-... Unit Price 0,00

Profit % 0

Item Sales Purchases Functions Help

150

X100 Ginko Biloba - Item Card

General Invoicing Replenishment Planning Foreign Trade Item Tracking E-Commerce Warehouse

Replenishment System . . . Purchase Production

Purchase Manufacturing Policy . . . Make-to-Stock

Vendor No. 10000 Routing No.

Vendor Item No. X100 Production BOM No.

Purch. Unit of Measure . . . PACK Rounding Precision . . . 1

Lead Time Calculation . . . Flushing Method. Manual

Scrap % 0

Lot Size 0

Item Sales Purchases Functions Help

X100 Ginko Biloba - Item Card

General Invoicing Replenishment Planning Foreign Trade Item Tracking E-Commerce Warehouse

Reordering Policy Lot-for-Lot Reorder Cycle. 1W

Include Inventory Safety Lead Time

Reserve Optional Safety Stock Quantity . . . 0

Order Tracking Policy . . . None Reorder Point 0

Stockkeeping Unit Exists . . . Reorder Quantity 0

Critical Maximum Inventory 0

Minimum Order Quantity . . . 0

Maximum Order Quantity . . . 0

Order Multiple 0

Item Sales Purchases Functions Help

New card creation

The image shows a sequence of three SAP windows illustrating the creation of a new item card with lot-specific tracking.

Window 1: X100 Ginko Biloba - Item Card
This window shows the 'Item Tracking' tab selected. The 'Item Tracking Code' field is set to 'LOTALL'. Other fields include 'Serial Nos.', 'Lot Nos.', and 'Expiration Calculation'. A red box highlights the 'Item Tracking' tab and the 'LOTALL' field.

Window 2: Item Tracking Codes
This dialog box lists available tracking codes. The 'LOTALL' code is selected. A red arrow points from the 'LOTALL' field in the first window to this dialog. A red box highlights the 'Item Tra...' dropdown at the bottom right.

Code	Description
<input type="checkbox"/>	FREEEN... Free entry of tracking
<input checked="" type="checkbox"/>	LOTALL Lot specific tracking
<input type="checkbox"/>	LOTALLEXP Lot specific tracking, manual Expiration
<input type="checkbox"/>	LOTSNS... Lot specific SN Sales Tracking
<input type="checkbox"/>	SNALL SN specific tracking
<input type="checkbox"/>	SNSALES SN Sales tracking

Window 3: LOTALL Lot specific tracking - Item Tracking Code C...
This window shows the configuration for the 'LOTALL' tracking code. The 'Lot Specific Tracking' checkbox is checked. Below, a table shows tracking options for Inbound and Outbound flows.

	Inbound	Outbound
Lot No. Info. Must Exist . . .	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Purchase Tracking . . .	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Sales Tracking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Positive Adjmt. Tra...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Negative Adjmt. Tr...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Manufacturing Tra...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lot Warehouse Tracking .	<input type="checkbox"/>	<input type="checkbox"/>
Lot Transfer Tracking . .	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Purchase X100

106030 London Postmaster - Purchase Order

General Invoicing Shipping Foreign Trade E-Commerce Prepayment

No. 106030 [edit] Posting Date 09.09.12
Buy-from Vendor No. 10000 [up] Order Date 09.09.12
Buy-from Contact No. CT000066 [up] Document Date 09.09.12
Buy-from Vendor Name London Postmaster Quote No. [empty]
Buy-from Address 10 North Lake Avenue Vendor Order No. [empty]
Buy-from Address 2 [empty] Vendor Shipment No. [empty]
Buy-from Post Code/City N12 5XY [up] London [up] Vendor Invoice No. IT_001
Buy-from Contact Mrs. Carol Philips Order Address Code. [up]
No. of Archived Versions. 0 Purchaser Code RL [up]
Responsibility Center LONDON [up]
Assigned User ID [up]
Status Open

Vendor Information

- Buy-from Vendor [edit]
- Order Addresses (2)
- Contacts (3)
- Purchase History
- Pay-to Vendor

Type	No.	Description	Location Code	Quantity	Reserved Quantity	Unit of Measure ...	Direct Unit Cost Excl...	Line Amount Excl. VAT	Line Disc
▶ Item	X100	Ginko Biloba	BLUE	100		PACK	100,00	10 000,00	

Item Information

- Item Card [edit]
- Availability (100)
- Purchase Prices (0)
- Purchase Line Di... (0)

Order Line Functions Posting Print... Help

- Item Availability by ▶
- Reservation Entries
- Item Tracking Lines** Shift+Ctrl+I →
- Dimensions Shift+Ctrl+D
- Comments
- Item Charge Assignment

Item tracking lines

X100 Ginko Biloba - Item Tracking Lines

Source Item Trac... Undefined

Purchase ...

Quantity

Qty. to Handle

Qty. to Invoice

Item Tracking Code . . .

Availa... Serial No.	Serial No.	Availability, Lot No.	Lot No.	Quantity (Base)	Qty. to Handle (Base)	Qty. to Invoice (Base)
			GB_001	50	50	50
			GB_002	50	50	50

Line Functions Help

Data entered by user

Serial No. Information Card

Lot No. Information Card



Lot Number Cards

X100 GB_001 Ginko Biloba 60 mg - Lot No. Inf...

General Inventory

Item No. X100

Variant Code

Lot No. GB_001

Description Ginko Biloba 60 mg

Test Quality. Good

Certificate Number GB_1234567

Blocked

Navigate Lot No. Help

X100 GB_002 Ginko Biloba - Lot No. Informati...

General Inventory

Item No. X100

Variant Code

Lot No. GB_002

Description Ginko Biloba

Test Quality. Average

Certificate Number GB_999999

Blocked

Navigate Lot No. Help

You can use the Navigate function to find where the lot number is used in documents and ledger entries. Will be shown later !!

Lot Number information is saved by ESC

Post PO and Item Ledger Entries

Microsoft Dynamics NA...

Receive
 Invoice
 Receive and Invoice

OK Cancel

Item X100 Ginko Biloba - Item Ledger Entries

Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Lot No.	Location Code	Quantity	Invoiced Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)
09.09.12	Purchase	Purchase Receipt	107034	X100		GB_001	BLUE	50	50	50	0,00	5 000,00
09.09.12	Purchase	Purchase Receipt	107034	X100		GB_002	BLUE	50	50	50	0,00	5 000,00

Lot No. Information List

Lot No.	Description	Test Quality	Certificate Number	Blocked	Comment
GB_001	Ginko Biloba 60 mg	Good	GB_1234...		
GB_002	Ginko Biloba	Average	GB_99999		

OK Cancel Navigate Lot No. Functions Help

X100 GB_001 Ginko Biloba 60 mg - Lot No. Inf...

General Inventory

Item No. X100

Variant Code

Lot No. GB_001

Description Ginko Biloba 60 mg

Test Quality. Good

Certificate Number GB_1234567

Blocked

Navigate Lot No. Help

Sales Order

1017 John Haddock Insurance Co. - Sales Order

General Invoicing Shipping Foreign Trade E-Commerce Prepayment

No. 1017
Sell-to Customer No. 30000
Sell-to Contact No. CT000003
Sell-to Customer Name John Haddock Insurance Co.
Sell-to Address 10 High Tower Green
Sell-to Address 2
Sell-to Post Code/City MO2 4RT Manchester
Sell-to Contact Miss Patricia Doyle
No. of Archived Versions. 0

Posting Date 09.09.12
Order Date 09.09.12
Document Date 09.09.12
Requested Delivery Date
Promised Delivery Date
Quote No.
External Document No.
Salesperson Code PS
Campaign No.
Opportunity No.
Responsibility Center
Assigned User ID
Status Open

Customer Information

- Sell-to Customer
- Ship-to Addresses (0)
- Contacts (3)
- Sales History
- Bill-to Customer
- Avail. Credit 0

Type	No.	Description	Location Code	Quantity	Reserved Quantity	Unit of Measu...	Unit Price Excl. VAT	Line Amount Excl. VAT	Line Disco...	Qty. to Ship	Quantity Shipped
Item	X100	Ginko Biloba	BLUE	60		PACK	150,00	9 000,00		60	

Item Information

- Item Card
- Availability (40)
- Substitutions (0)
- Sales Prices (0)
- Sales Line Di... (0)

Order Line Functions Posting Print Help

- Item Availability by
- Reservation Entries
- Item Tracking Lines** Shift+Ctrl+I
- Select Item Substitution

Item tracking lines

Source Item Trac... Undefined

Sales Line

Quantity 60 60

Qty. to Handle 60 60

Qty. to Invoice 60 60

Item Tracking Code . . . LOTALL Lot specific tracking

Serial No.	Availability, Lot No.	Lot No.	Quantity (Base)	Qty. to Handle (Base)	Qty. to Invoice (Base)
		GB_001	40	40	40
		GB_002	20	20	20

Chosen by use of F6 and stored by ESC

Microsoft Dynamics ...

Ship

Invoice

Ship and Invoice

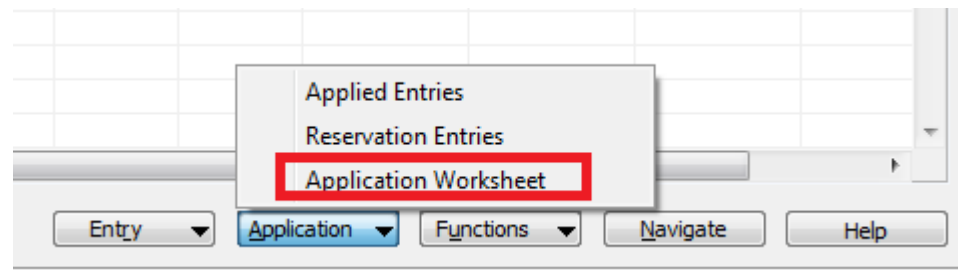
OK Cancel

Item ledger entries after SO was posted and Application worksheet

Item X100 Ginko Biloba - Item Ledger Entries

Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Lot No.	Location Code	Quantity	Invoiced Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)
09.09.12	Purchase	Purchase Receipt	107034	X100		GB_001	BLUE	50	50	10	0,00	5 000,00
09.09.12	Purchase	Purchase Receipt	107034	X100		GB_002	BLUE	50	50	30	0,00	5 000,00
09.09.12	Sale	Sales Shipment	102043	X100		GB_001	BLUE	-40	-40	0	6 000,00	-4 000,00
09.09.12	Sale	Sales Shipment	102043	X100		GB_002	BLUE	-20	-20	0	3 000,00	-2 000,00

Applications



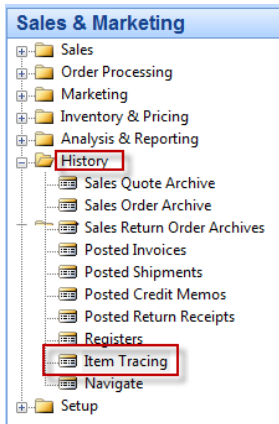
General

Date Filter [] Document No. Filter . . . []

Item Filter X100 [] Location Filter []

Item No.	Document No.	Location Code	Posting Date	Entry Type	Source Type	Document Type	Lot No.	Source No.	Quantity	Remaining Quantity	Invoiced Quantity	Reserved Quantity	Shipped Qty. Not Returned
X100	107034	BLUE	09.09.12	Purchase	Vendor	Purchase Receipt	GB_001	10000	50	10	50	0	0
X100	107034	BLUE	09.09.12	Purchase	Vendor	Purchase Receipt	GB_002	10000	50	30	50	0	0
X100	102043	BLUE	09.09.12	Sale	Customer	Sales Shipment	GB_001	30000	-40	0	-40	0	-40
X100	102043	BLUE	09.09.12	Sale	Customer	Sales Shipment	GB_002	30000	-20	0	-20	0	-20

Item Tracing I.



General

Serial No. Filter ↑

Lot No. Filter **GB_001** ↑

Item Filter ↑

Variant Filter ↑

Show Components . . . Item-tracked Only ▾

Trace Method Usage -> Origin
 Origin -> Usage

Trace

Serial No.: , Lot No.: GB_001, Item: , Variant: , Usage->Origin, Item-tracked Only

E... Description	Serial No.	Lot No.	Item No.	Item Description	Location Code	Quantity	Remaining Quantity
▶ Sales Shipment Header 102043		GB_001	X100	Ginko Biloba	BLUE	-40	0
Purch. Rcpt. Header 107034		GB_001	X100	Ginko Biloba	BLUE	50	10

General

Serial No. Filter ↑

Lot No. Filter **GB_001** ↑

Item Filter ↑

Variant Filter ↑

Show Components . . . Item-tracked Only ▾

Trace Method Usage -> Origin
 Origin -> Usage

Trace

Serial No.: , Lot No.: GB_001, Item: , Variant: , Origin->Usage, Item-tracked Only

E... Description	Serial No.	Lot No.	Item No.	Item Description	Location Code	Quantity	Remaining Quantity
▶ Purch. Rcpt. Header 107034		GB_001	X100	Ginko Biloba	BLUE	50	10
Sales Shipment Header 102043		GB_001	X100	Ginko Biloba	BLUE	-40	0

You can use this window to find the posted documents where an item-tracked item or where a particular lot or serial number was used. You might use this feature for quality control to find which lot a defective component came from or to find all the customers to which a particular lot was sold.

You can also open application worksheet from Item card->Item ledger entries->Application->Application worksheet

Item Tracing II.

General

Serial No. Filter ↑

Lot No. Filter ↑

Item Filter V1 ↑

Variant Filter ↑

Show Components . . . Item-tracked Only ▾

Trace Method Usage -> Origin
 Origin -> Usage

Trace

Serial No.: , Lot No.: , Item: V1, Variant: , Origin->Usage, Item-tracked Only

E... Description	Serial No.	Lot No.	Item No.	Item Description	Location Code	Quantity	Remaining Quantity
Purch. Rcpt. Header 107065		A1	V1	Jododusik	BLUE	4	4
Purch. Rcpt. Header 107065		A2	V1	Jododusik	BLUE	6	6
⊕ Purch. Rcpt. Header 107065		A3	V1	Jododusik	RED	11	9
▶ ⊕ Purch. Rcpt. Header 107065		A4	V1	Jododusik	RED	9	8

General

Serial No. Filter ↑

Lot No. Filter ↑

Item Filter V1 ↑

Variant Filter ↑

Show Components . . . Item-tracked Only ▾

Trace Method Usage -> Origin
 Origin -> Usage

Trace

Serial No.: , Lot No.: , Item: V1, Variant: , Usage->Origin, Item-tracked Only

E... Description	Serial No.	Lot No.	Item No.	Item Description	Location Code	Quantity	Remaining Quantity
▶ ⊖ Sales Shipment Header 102069		A3	V1	Jododusik	RED	-2	0
⊖ Purch. Rcpt. Header 107065		A3	V1	Jododusik	RED	11	9
⊖ Sales Shipment Header 102069		A4	V1	Jododusik	RED	-1	0
⊖ Purch. Rcpt. Header 107065		A4	V1	Jododusik	RED	9	8
⊖ Purch. Rcpt. Header 107065		A2	V1	Jododusik	BLUE	6	6
⊖ Purch. Rcpt. Header 107065		A1	V1	Jododusik	BLUE	4	4

End of the section XV.

