

# 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 screenshots illustrating the creation of a new item card with lot-specific tracking.

**Top Screenshot: X100 Ginko Biloba - Item Card**  
The 'Item Tracking' tab is active. The 'Item Tracking Code' field is set to 'LOTALL'. A red box highlights this field, and a red arrow points to the 'Item Tracking Codes' dialog box.

**Middle Screenshot: Item Tracking Codes**  
A list of tracking codes is shown. 'LOTALL' is selected. A red box highlights the 'Item Tra...' button at the bottom right, with a red arrow pointing to the bottom screenshot.

Code	Description
<input type="checkbox"/> FREEN...	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

**Bottom Screenshot: LOTALL Lot specific tracking - Item Tracking Code C...**  
The 'Lot Specific Tracking' checkbox is checked. The following options are configured:

	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

Availa... Serial No.	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

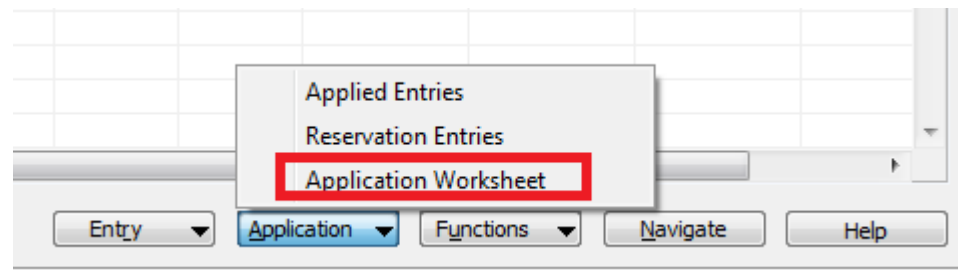
OK Cancel

# 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



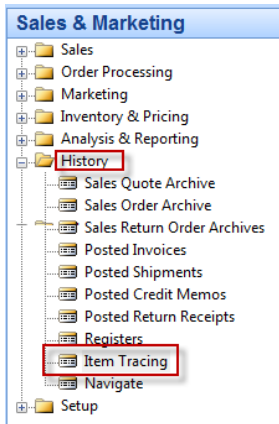
General

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 [v]

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		<b>GB_001</b>	X100	Ginko Biloba	BLUE	-40	0
Purch. Rcpt. Header 107034		<b>GB_001</b>	X100	Ginko Biloba	BLUE	50	10

General

Serial No. Filter . . . . . [ ] [↑]

Lot No. Filter . . . . . **GB\_001** [↑]

Item Filter . . . . . [ ] [↑]

Variant Filter . . . . . [ ] [↑]

Show Components . . . Item-tracked Only [v]

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		<b>GB_001</b>	X100	Ginko Biloba	BLUE	50	10
Sales Shipment Header 102043		<b>GB_001</b>	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.

