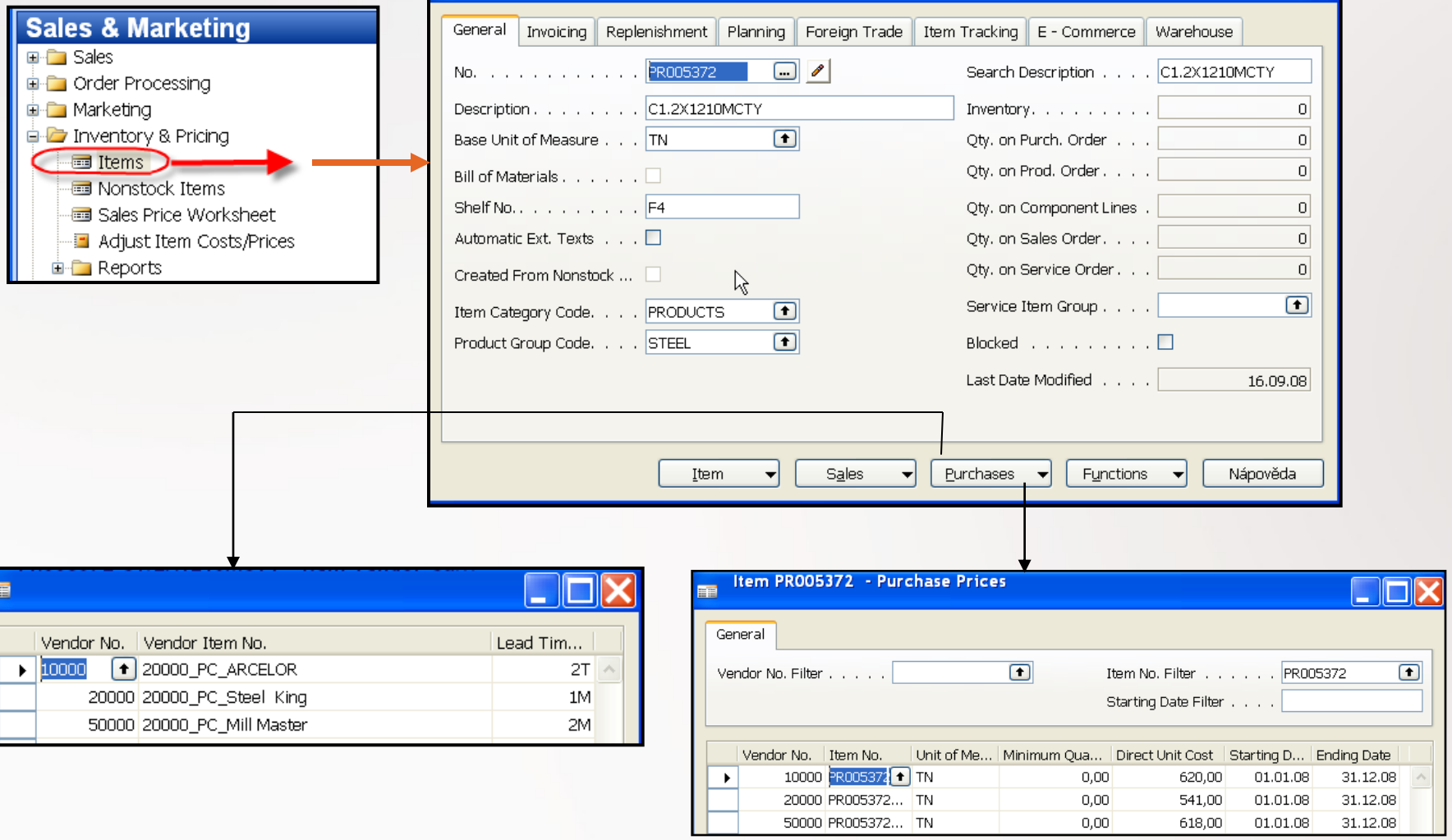
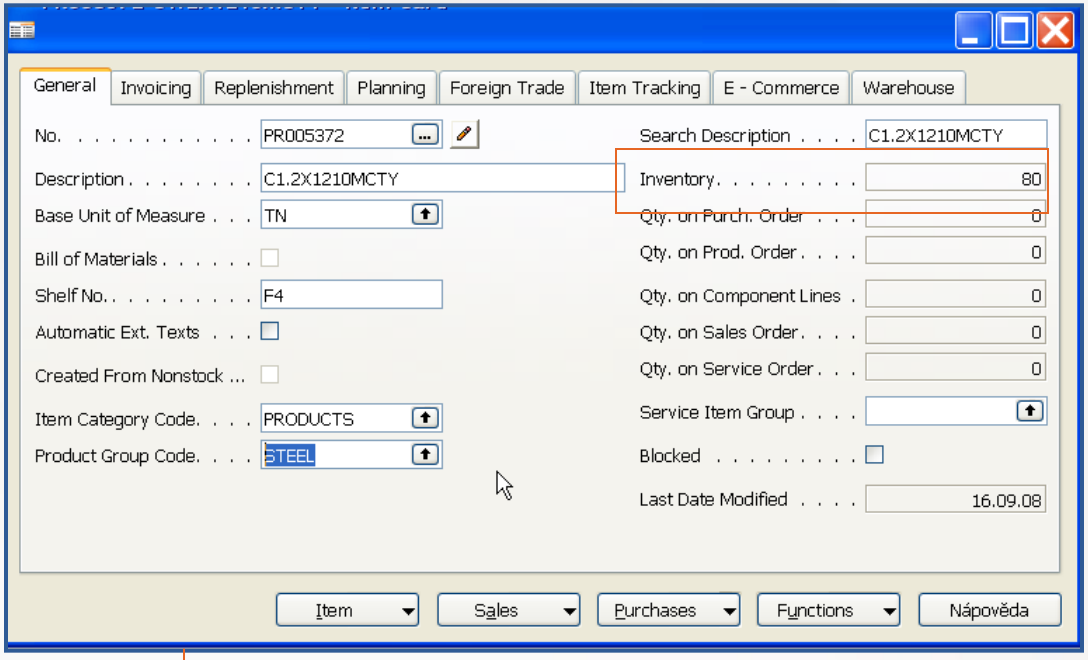
Guidance Store System

Miki Skorkovský

Standard Item Card (Steel)



Purchased Products and Item Ledger Entries (Steel)



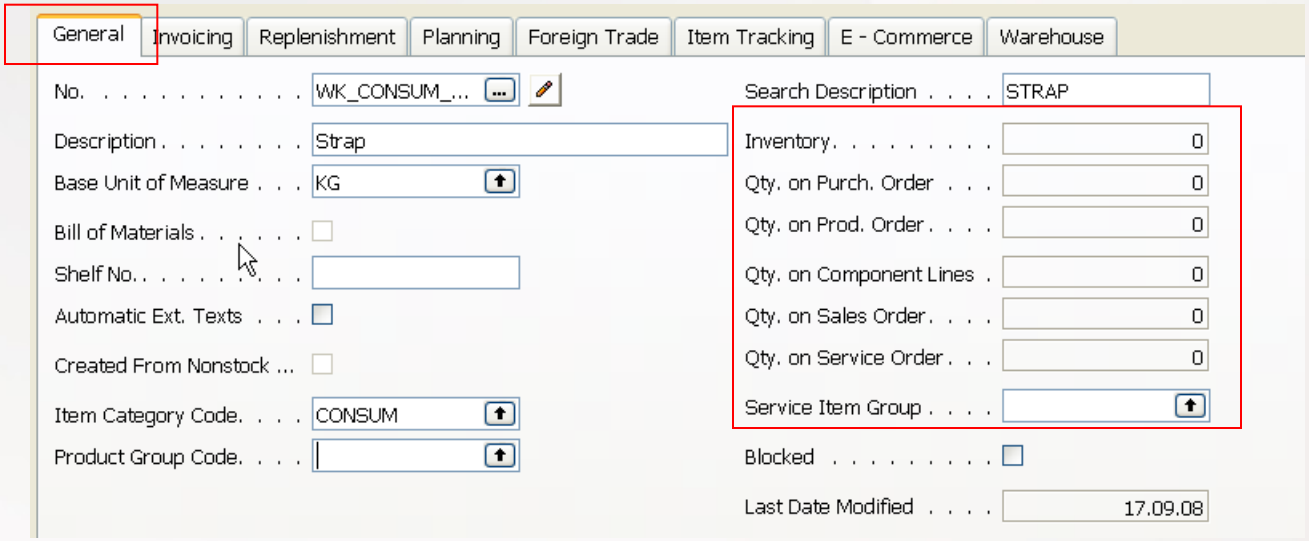
Quantity on hand

Posting Date	E...	D...	Document...	Item No.	Description	Lot No.	Location C...	Quantity	I
19.06.08	P...	P...	107032	PR005372...		AAAAAA	BLUE	24	
19.06.08	P...	P...	107032	PR005372...		AAAAAB	BLUE	26	
19.06.08	P...	P...	107032	PR005372...		AAAAAC	BLUE	15	
19.06.08	P...	P...	107032	PR005372...		AAAAAD	BLUE	15	

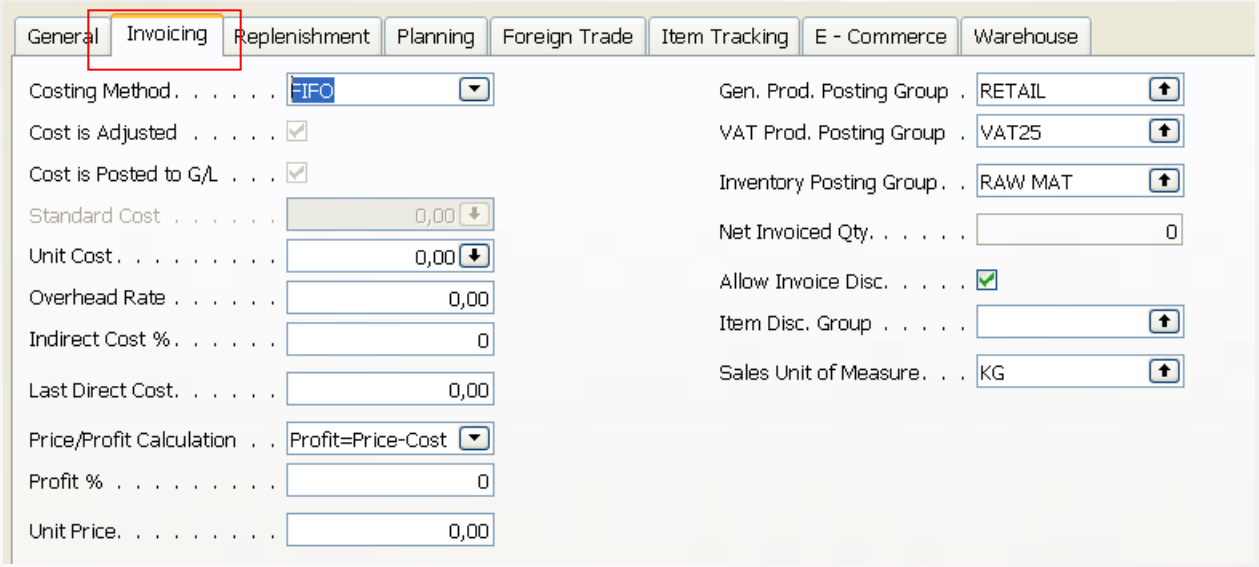
Standard Item Card (Consumables)- Inventory Valuation

Item No.	Description	Bill of M	Base Unit o	As of 31.12.07 Quantity	As of 31.12.07 Value	Increases (LCY) Quantity	Increases (LCY) Value	Decreases (LCY) Quantity	Decreases (LCY) Value	As of 19.06.08 Quantity	As of 19.06.08 Value	Cost Posted to G/L
Inventory Posting Group: FINISHED												
1100	Front Wheel	Ne	PCS	200	25 934,20					200	25 934,20	25 934,20
1110	Rim	Ne	PCS	400	420,00					400	420,00	420,00
1150	Front Hub	Ne	PCS	200	2 488,20					200	2 488,20	2 488,20
1200	Back Wheel	Ne	PCS	200	25 936,30					200	25 936,30	25 936,30
1250	Back Hub	Ne	PCS	200	2 490,30					200	2 490,30	2 490,30
1300	Chain Assy	Ne	PCS	200	2 631,30					200	2 631,30	2 631,30
1310	Chain	Ne	PCS	100	199,00					100	199,00	199,00
1700	Brake	Ne	PCS	200	1 953,00					200	1 953,00	1 953,00
1710	Hand rear wheel Brake	Ne	PCS	200	900,00					200	900,00	900,00
9000	Metal Sheet	Ne	PCS	0	0,00	3 000	1 051 782,00	3 000	1 051 782,00	0	0,00	1 051 782,00
9900	Metal Sheet	Ne	PCS	0	0,00	12				12	0,00	0,00
100000	Guaran	Ne	GR	0	0,00	100	100 000,00			100	100 000,00	0,00
1924-W	CHAMONIX Base Storage Unit	Ano	PCS	6	465,12	20	1 632,00			26	2 097,12	465,12
1928-W	ST.MORITZ Storage Unit/Drawers	Ano	PCS	8	1 459,20	61	11 712,00	1	182,40	68	12 988,80	1 468,80
1952-W	OSLO Storage Unit/Shelf	Ano	PCS	4	355,68	13	1 216,80	1	93,60	16	1 478,88	355,68
1964-W	INNSBRUCK Storage Unit/G.Door	Ano	PCS	11	1 789,04	57	9 758,40	12	1 994,48	56	9 552,96	1 848,96
1968-W	GRENOBLE Whiteboard, red	Ano	PCS	20	13 463,40	-40	-28 344,00	2	1 346,34	-22	-16 226,94	13 534,26
1972-W	SAPPORO Whiteboard, black	Ano	PCS	11	7 404,87					11	7 404,87	7 404,87
1976-W	INNSBRUCK Storage Unit/W.Door	Ano	PCS	9	1 287,63			5	730,41	4	557,22	1 310,22
1984-W	SARAJEVO Whiteboard, blue	Ano	PCS	10	6 731,70			10	7 086,00	0	-354,30	6 731,70
1988-W	CALGARY Whiteboard, yellow	Ano	PCS	27	18 175,59			1	673,17	26	17 502,42	18 211,02
1992-W	ALBERTVILLE Whiteboard, green	Ano	PCS	11	7 404,87			1	708,60	10	6 696,27	7 404,87
766BC-A	CONTOSO Conference System	Ano	PCS	2	6 686,10			2	6 686,10	0	0,00	7 038,00
766BC-B	CONTOSO Office System	Ano	PCS	5	5 917,55					5	5 917,55	5 917,55
766BC-C	CONTOSO Storage System	Ano	PCS	3	1 749,90			1	614,00	2	1 135,90	1 749,90
Inventory Posting Group Total: FINISHED					**135 842,95**		**1 147 757,20**		**1 071 897,10**		**211 703,05**	**1 188 175,25**
Inventory Posting Group: RAW MAT												

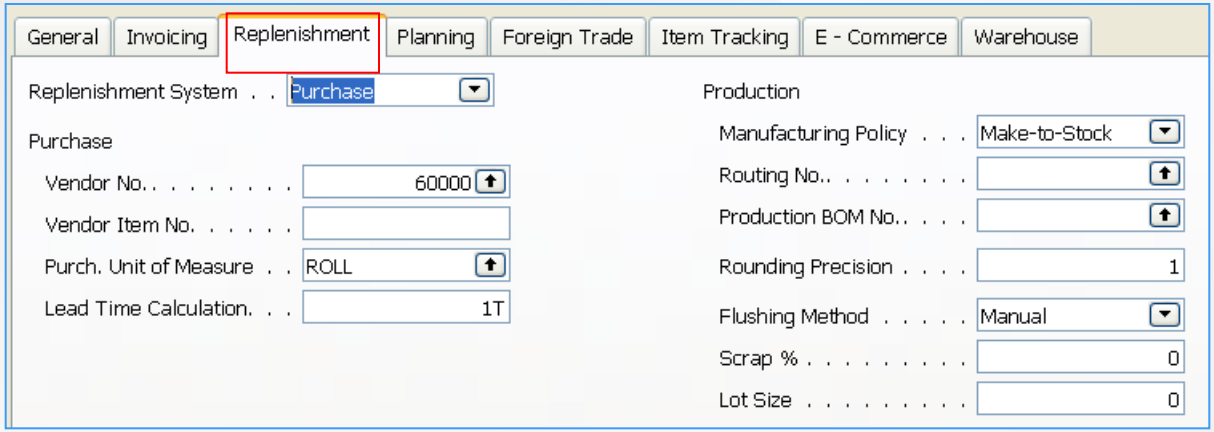
Creation of the new Item Card

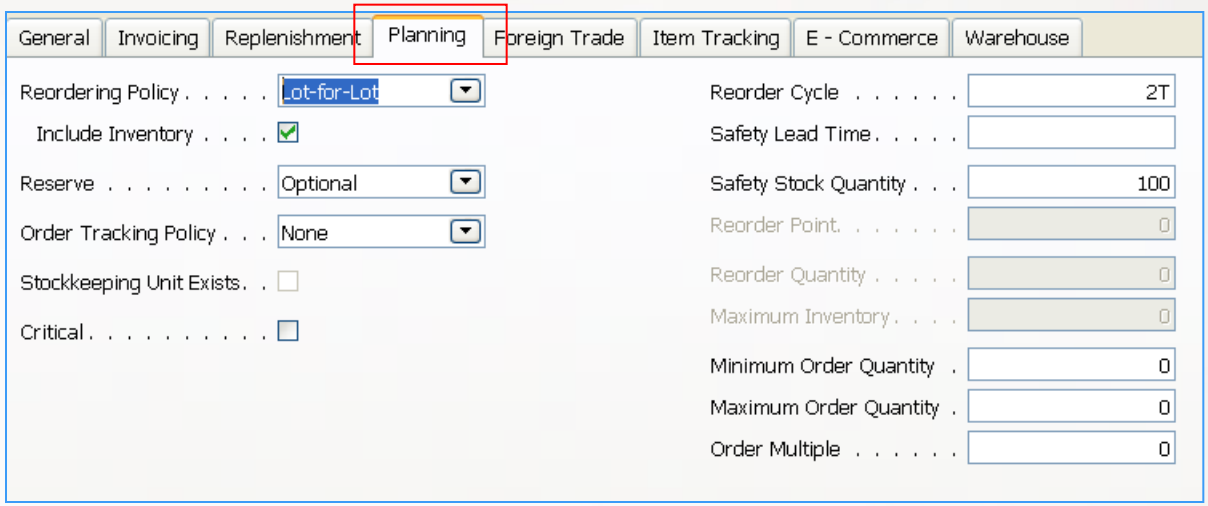


Creation of the new Item Card



Creation of the new Item Card





Item Card and Entries (Item Ledger and Value Entries)

Posting Date	Document Type	Entry Type	Document No.	Item No.	Description	Lot No.	Location Code	Quantity	Invoiced Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)	Cost Amount (Non-Invtbl.)	Open
19.06.08	Purchas...	Purchase	107032	PR005372...		AAAAAA	BLUE	24	24	24	0,00	14 832,00	0,00	✔

Item Card

Posting Date	Item Ledger Entry Type	Entry Type	Document Type	Document No.	Item Charge No.	De		Sales Amount (Actual)	Cost Amount (Expected)	Cost Amount (Actual)	Cost Amount (Non-Invtbl.)
19.06.08	Purchase	Direct Cost	Purchase ...	108031				0,00	0,00	14 832,00	0,00
19.06.08	Purchase	Direct Cost	Purchase ...	108032	P-FREIGHT	Mi	harge (Purch.)	0,00	0,00	120,00	0,00

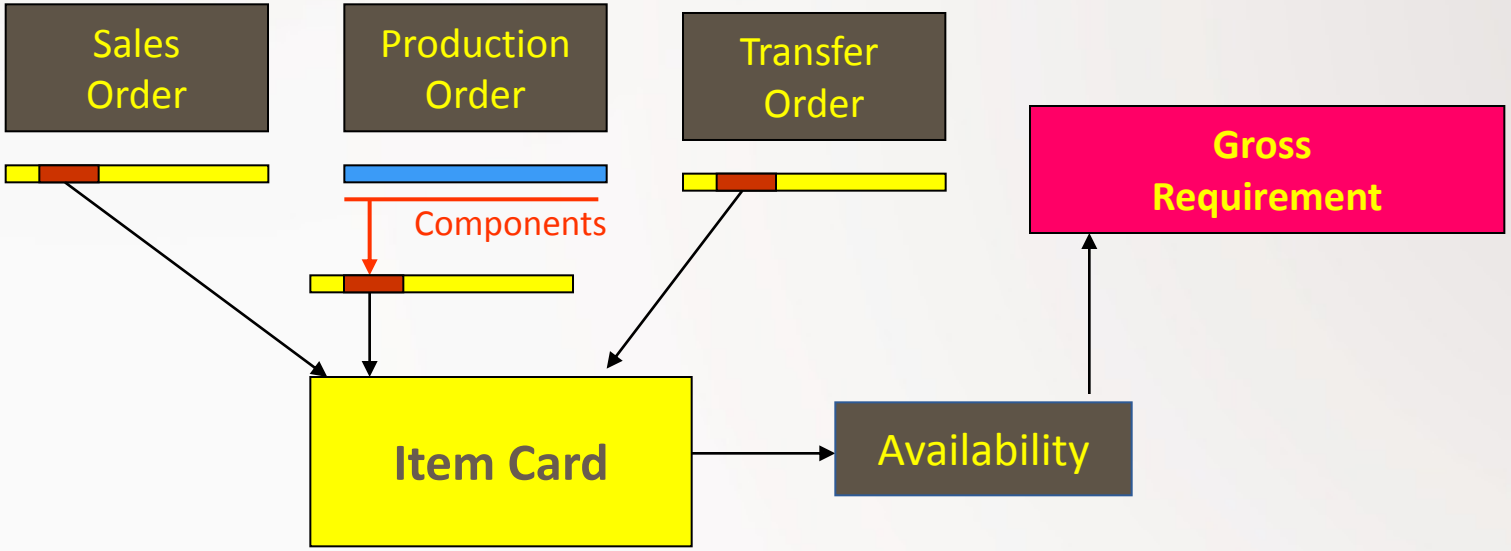
Reservation

Location

Order Tracking

Stock Availability

- Reasons for reordering (replenishment)
  - Sales Order (CR)
  - Production Order
  - Transfer Order
  - Both of above



Stock (Item) Availability by Period

Sales Order Header

T...	No.	Description	Location C...	Quantity	Reserved ...	Unit of Me...	Unit Price ...	Line Amount E...	Lin
I...	WK_CONS...	Strap	BLUE	400					

Sales Line

Item Information
- Item Card
- Availability (-400)
- Substitutions (0)
- Sales Prices (0)
- Sales Line Dis... (0)

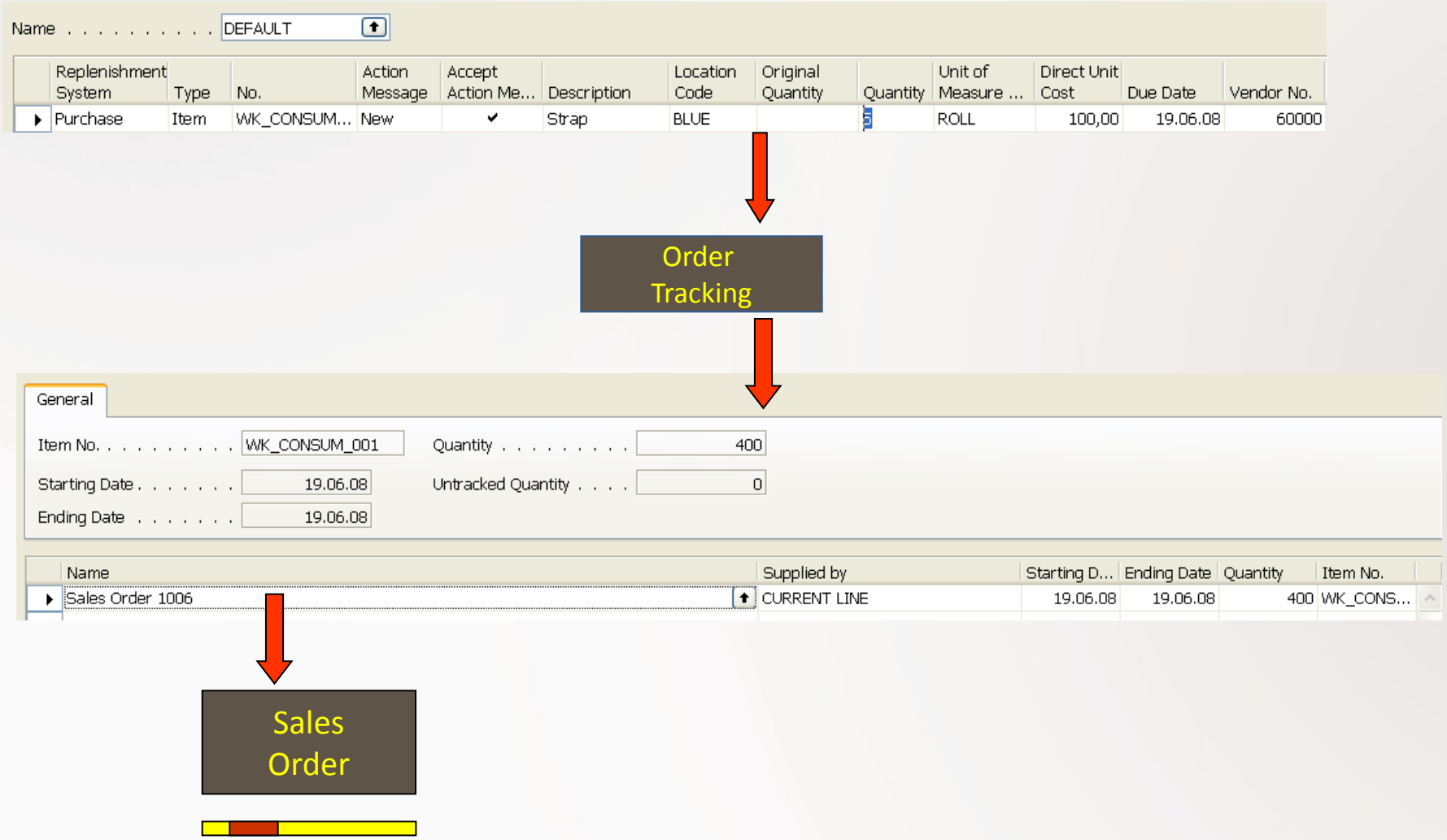
Options

Location Filter . . . . . BLUE

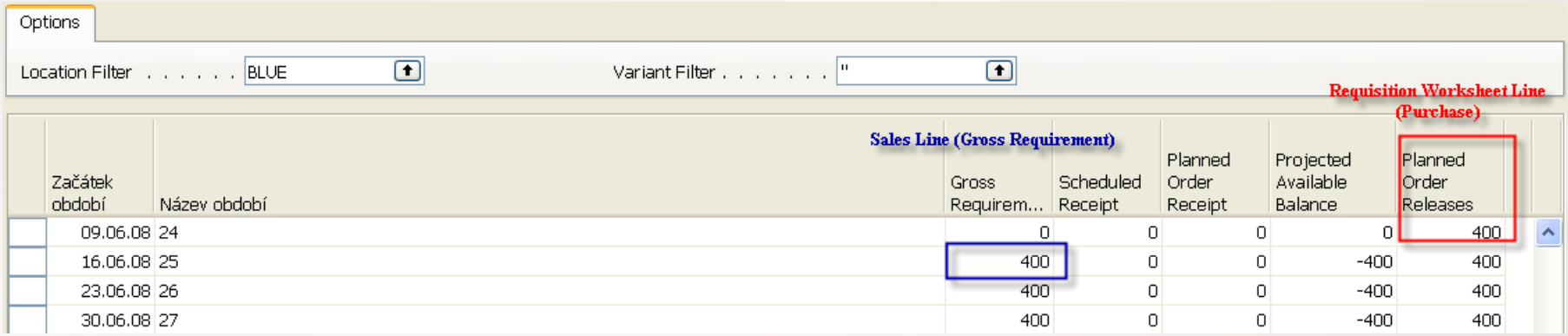
Variant Filter . . . . . ''

Začátek období	Název období	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
16.06.08	pondělí	0	0	0	0	0
17.06.08	úterý	0	0	0	0	0
18.06.08	středa	0	0	0	0	0
19.06.08	čtvrtek	400	0	0	-400	0
20.06.08	pátek	0	0	0	-400	0
21.06.08	sobota	0	0	0	-400	0
22.06.08	neděle	0	0	0	-400	0

Suggested replenishment using standard Req Work Sheet



Stock (Item) Availability by Period



Začátek období	Název období	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
09.06.08	24	0	0	0	0	400
16.06.08	25	400	0	0	-400	400
23.06.08	26	400	0	0	-400	400
30.06.08	27	400	0	0	-400	400

Stock (Item) Availability by Period (after partial Purchase Order is issued)

Options

Location Filter . . . . . BLUE Variant Filter . . . . . ''

Začátek období	Název období	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
30.06.08	27	400	240	0	-160	0
07.07.08	28	400	240	0	-160	0
14.07.08	29	400	240	0	-160	0

and after RQWSHT started again

Options

Location Filter . . . . . BLUE Variant Filter . . . . . ''

Začátek období	Název období	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
19.05.08	21	0	0	0	0	0
26.05.08	22	0	0	0	0	0
02.06.08	23	0	0	0	0	0
09.06.08	24	0	0	0	0	160
16.06.08	25	400	240	160	0	160
23.06.08	26	400	240	160	0	160

Stock (Item) Availability by Period (after another partial Purchase Order has been booked)

Options

Location Filter . . . . . BLUE

Variant Filter . . . . . ''

Začátek období	Název období	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
23.06.08	pondělí	400	240	160	80	160
24.06.08	úterý	400	240	160	80	160
25.06.08	středa	400	240	160	80	160
26.06.08	čtvrtek	400	240	160	80	160
27.06.08	pátek	400	240	160	80	160
28.06.08	sobota	400	240	160	80	160
29.06.08	neděle	400	240	160	80	160
30.06.08	pondělí	400	320	160	160	160
01.07.08	úterý	400	320	160	160	160

What we have at our disposal at the given point of time. This goes beyond the quantity on hand and includes such a factors as allocations, meaning quantities, that have been already put aside or reserved for specific purposes

Stock (Item) by Location (after another partial Purchase Order has been booked)

Options

Show Items in Transit. . . ☐

Show Column Name . . . ☐

No.	Description	BLUE	GREEN	RED	SILVER	WHITE
WK_CONS...	Strap	80	0	80	0	0
1896-S	ATHENS Desk	0	49	20	0	0
1900-S	PARIS Guest Chair, black	52	41	46	0	0
1906-S	ATHENS Mobile Pedestal	70	88	56	0	0
1908-S	LONDON Swivel Chair, blue	234	57	14	0	0
1920-S	ANTWERP Conference Table	38	65	3	0	0
1924-W	CHAMONIX Base Storage Unit	1	8	2	0	0
1928-S	AMSTERDAM Lamp	149	-19	55	0	0
1928-W	ST.MORITZ Storage Unit/Drawers	4	23	-1	0	0
1936-S	BERLIN Guest Chair, yellow	36	46	50	0	0
1952-W	OSLO Storage Unit/Shelf	9	-1	7	0	0
1960-S	ROME Guest Chair, green	153	0	24	0	0
1964-S	TOKYO Guest Chair, blue	59	60	29	0	0

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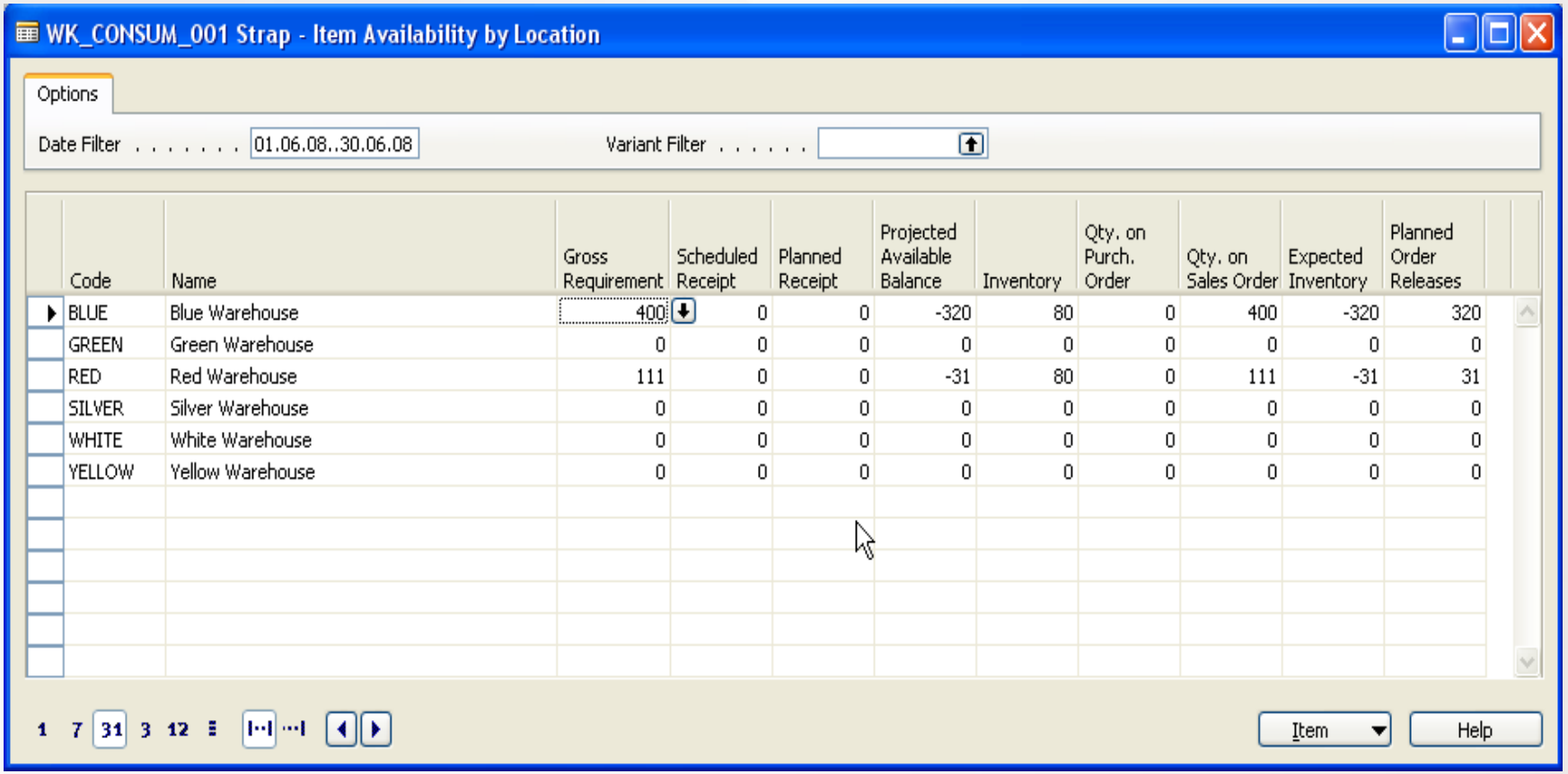
Stock (Item) Availability by Location

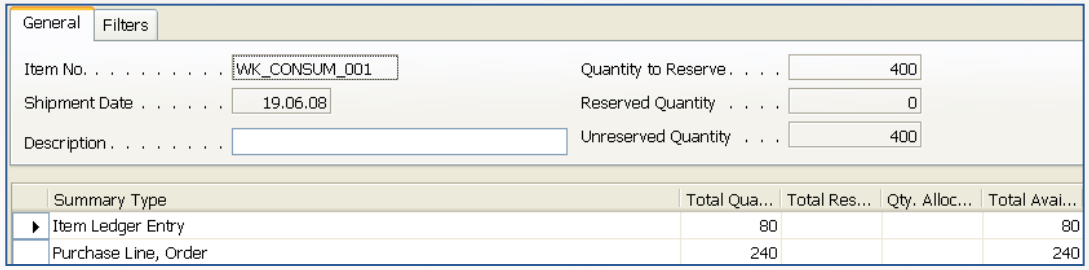


Code	Name	Gross Requirement	Scheduled Receipt	Planned Receipt	Projected Available Balance	Inventory	Qty. on Purch. Order	Qty. on Sales Order	Expected Inventory	Planned Order Releases
BLUE	Blue Warehouse	400	0	0	-320	80	0	400	-320	320
GREEN	Green Warehouse	0	0	0	0	0	0	0	0	0
RED	Red Warehouse	111	0	0	-31	80	0	111	-31	31
SILVER	Silver Warehouse	0	0	0	0	0	0	0	0	0
WHITE	White Warehouse	0	0	0	0	0	0	0	0	0
YELLOW	Yellow Warehouse	0	0	0	0	0	0	0	0	0

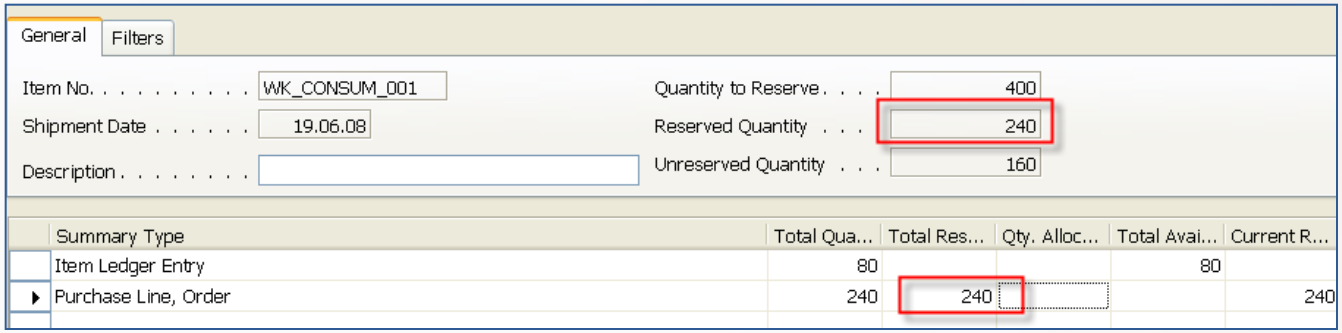
Stock Reservation (from Sales Order Line)

Sales Order

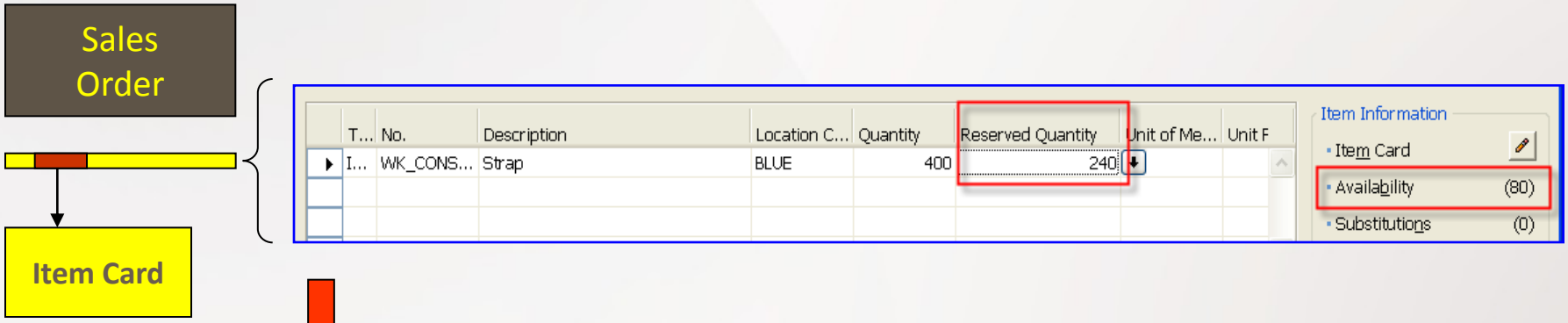
Reservation form before action is taken



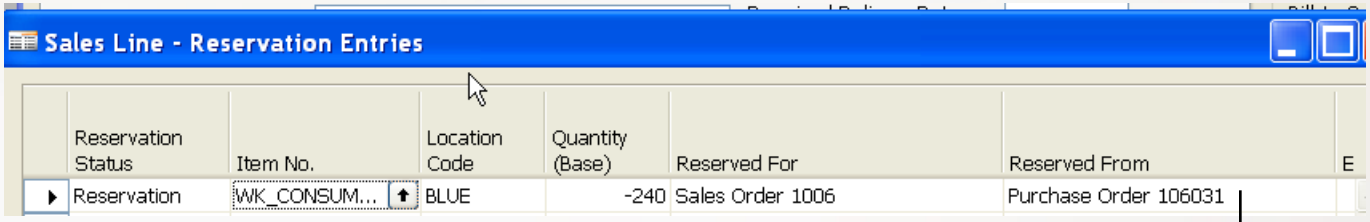
Reservation form after partial action was taken

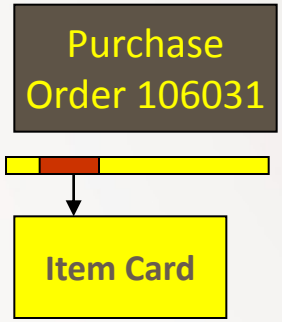


Stock Reservation (from Sales Order Line)



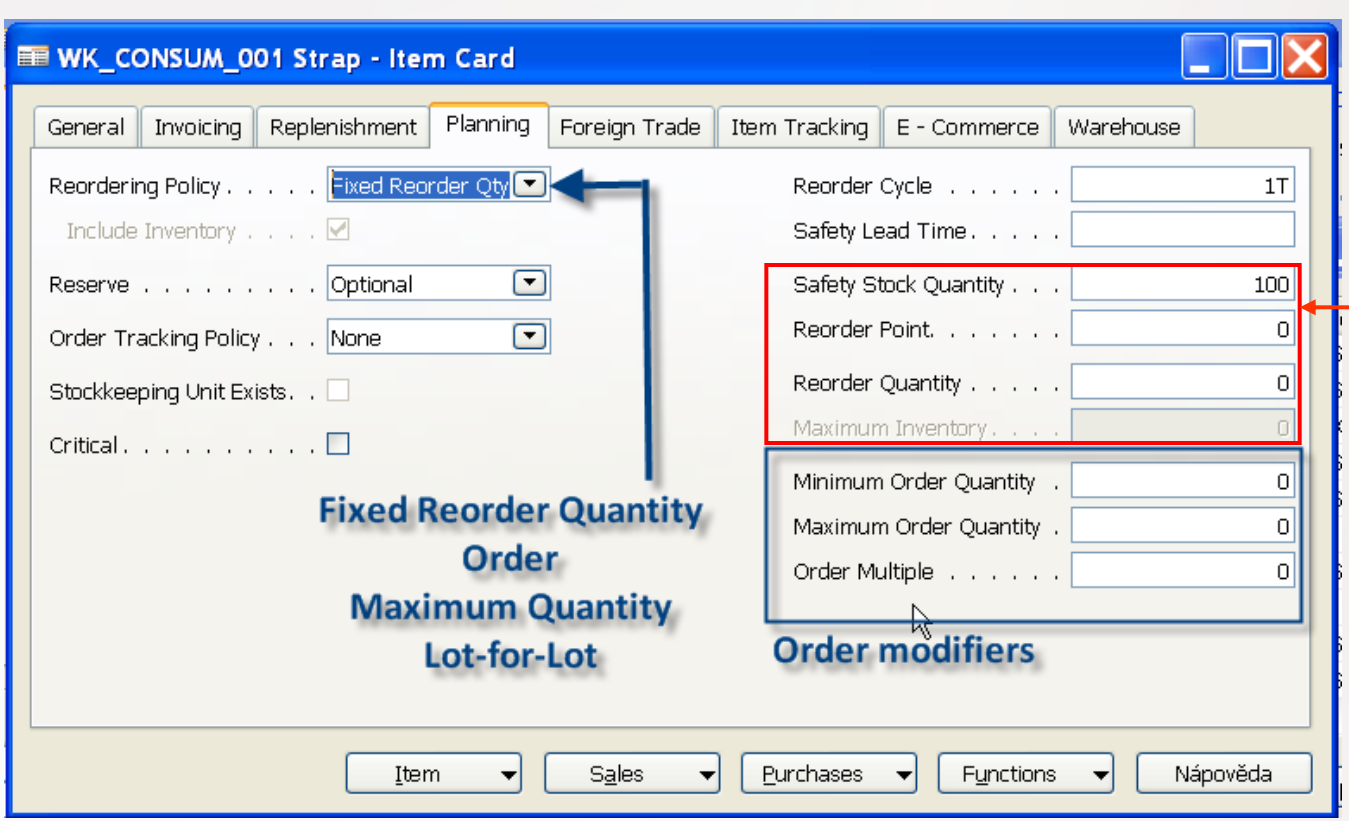
Reservation entries





Stock Reordering Policy

- Once the program has detected the need for replenishment, it uses reordering policy to calculate the lot size per planning period, which you define in Reorder Cycle Field. Depending of chosen value in Reordering policy field your replenishment rules for calculation is driven by Order Modifiers and other fields on right hand side of the form (Safety Stock, Maximum, Reorder Point,..)



Stock Reordering Policy – Fixed Reorder Quantity

- The program uses the quantity specified in Reorder Quantity filed as the standard lot size. Notwithstanding, the program may adjust this quantity to meet additional requirements of the specific inventory level. In this case program disables Maximum Qty field.

In this example we are using 2 Stock Locations (Bays): Red and Blue

Gross Requirement	Reorder Quantity (RQ)	Safety Stock Quantity (SSQ)	Reorder Point (RP)	Projected Available Balance (Stock in Hand)	Calculated Quantity
400	400	500	600	80 Blue + 80 Red	320 Blue + **500 + 400**
400	400	0	0	80 Blue + 80 Red	320 Blue + 400
400	400	500	0	80 Blue + 80 Red	320 Blue + **500**

IF SSQ<RQ-> 320+400

Stock Reordering Policy – Maximum Quantity

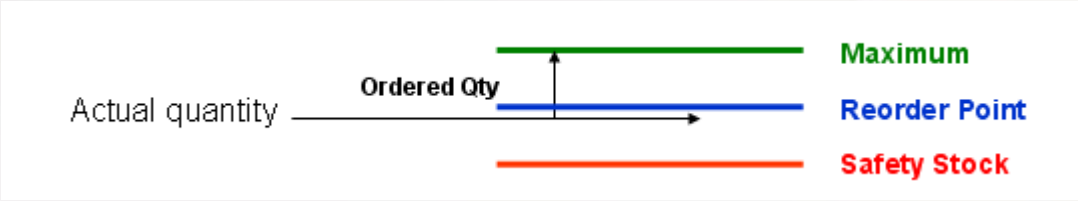
- The program uses the quantity specified in Maximum Quantity to determine the maximum lot size. The program may adjust this quantity to meet additional requirements of the specific inventory level. If this option is selected, than Reorder Quantity field is disabled (it is use only with Fixed Reorder Quantity option.

In this example we are using 2 Stock Locations (Bays): Red and Blue

Gross Requirement	Maximum Quantity (MQ)	Safety Stock Quantity (SSQ)	Reorder Point (RP)	Projected Available Balance (Stock in Hand)	Calculated Quantity
400	300	300	0	80 Blue + 80 Red	320 Blue + 300 + **300**
400	400	0	0	80 Blue + 80 Red	320 Blue
400	330	222	0	80 Blue + 80 Red	320 Blue + 552
400	330	340	0	80 Blue + 80 Red	320 Blue + 340

Note that for optimal results, you should set up this field so that **maximum inventory>reorder point>safety stock.**

Stock Reordering Policy – Maximum Quantity



Note that depending on the current inventory at the time, this may result in order proposal quantities that cause the projected available balance to exceed the maximum inventory that you define

Stock Reordering Policy – Lot-for-Lot

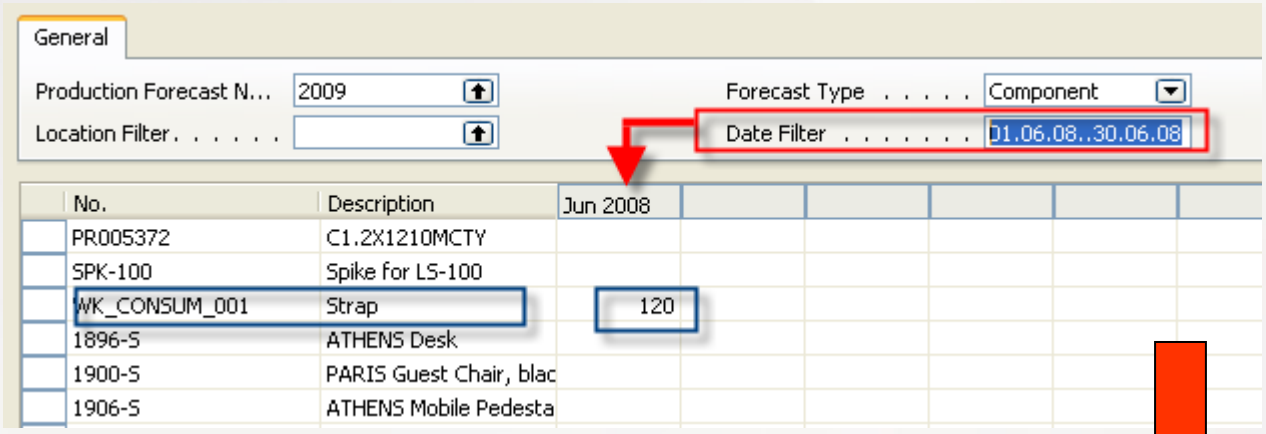
- The program generates an order proposal with a quantity that meets the sum of the requirements that come due within the reorder cycle. If you select this option, the program disables the **Reorder Quantity** field, which is used exclusively with the Fixed Reorder Qty. option, the **Maximum Inventory field**, which is used exclusively with the Maximum Qty. option, and the **Reorder Point** field. Using the reorder point with **Lot-for-Lot** could result in additional (surplus) replenishment order proposals.

Gross Requirement 19.6.2008 (BLUE)	Gross Requirement 29.6.2008 (RED)	Safety Stock Quantity (SSQ)	Reorder Cycle	Projected Available Balance (Stock in Hand)	Calculated Quantity
400	111	200	1M	80 Blue + 80 Red	320 Blue + 200 + 31 Red

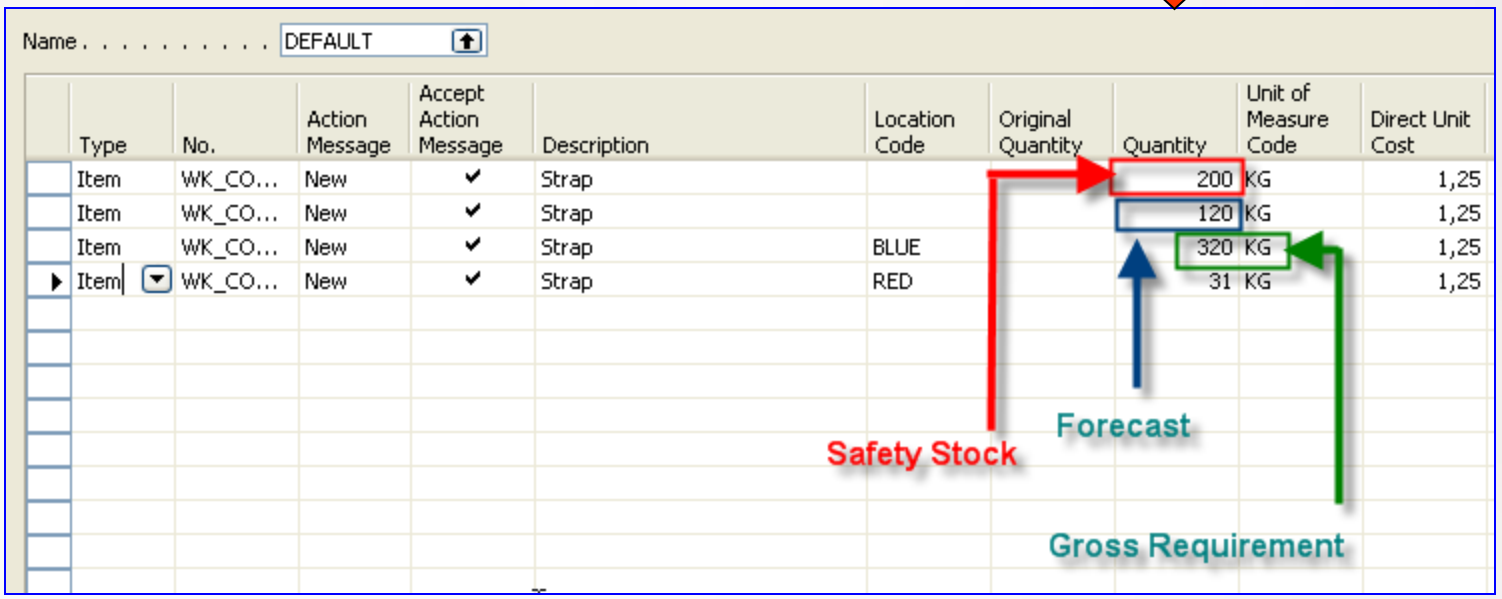
In this example we are using
2 Stock Locations (Bays): Red and Blue

Where 111 = 80 + 31 for Red location

Use of forecast for planning replenishment



Requisition Worksheet



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Net Requirement; Gross Requirement- definitions

- Some helps refer for calculation : firstly calculate availability and then Net Requirement
- **Comments :** i = period, GR- Gross Requirement, NR= Net Requirement, SS- Safety Stock, PO=Purchase Order, SO – Sales Order
- **Definition 1 :** Stock[i] = Expected stock [i] = Stock calculated for the last date of the previous period + Quantity of already generated PO – Quantity of already generated SO - SS
- **Simplified definition :** Stock[i+1] = Stock[i] + Expected receipt – Expected delivery – SS
- **GR=NR** + Stock[i+1] , **Stock availability**
- **NR = GR - Stock[i+1] = GR- Stock[i] – receipts + deliveries + SSZ**

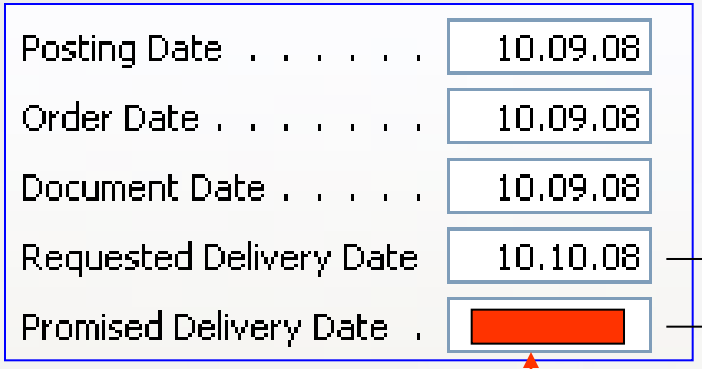
Order Promising I

- **ATP** – based on the inventory reservation system – performing the availability check (calculation of the date of delivery)

- **CTP** – based on WHAT IF scenarios. Earliest date that item will be available

  If no items that can be available, no inbound orders- purchase, transfer , return, production – it calculates Earliest date, create Order lines and reserve inventory. May be integrated to the production scheduling, transfer and purchase

Order Promising II



Part of SO Header

IF RDD exists THAN RDD = PDD

Part of SO Lines

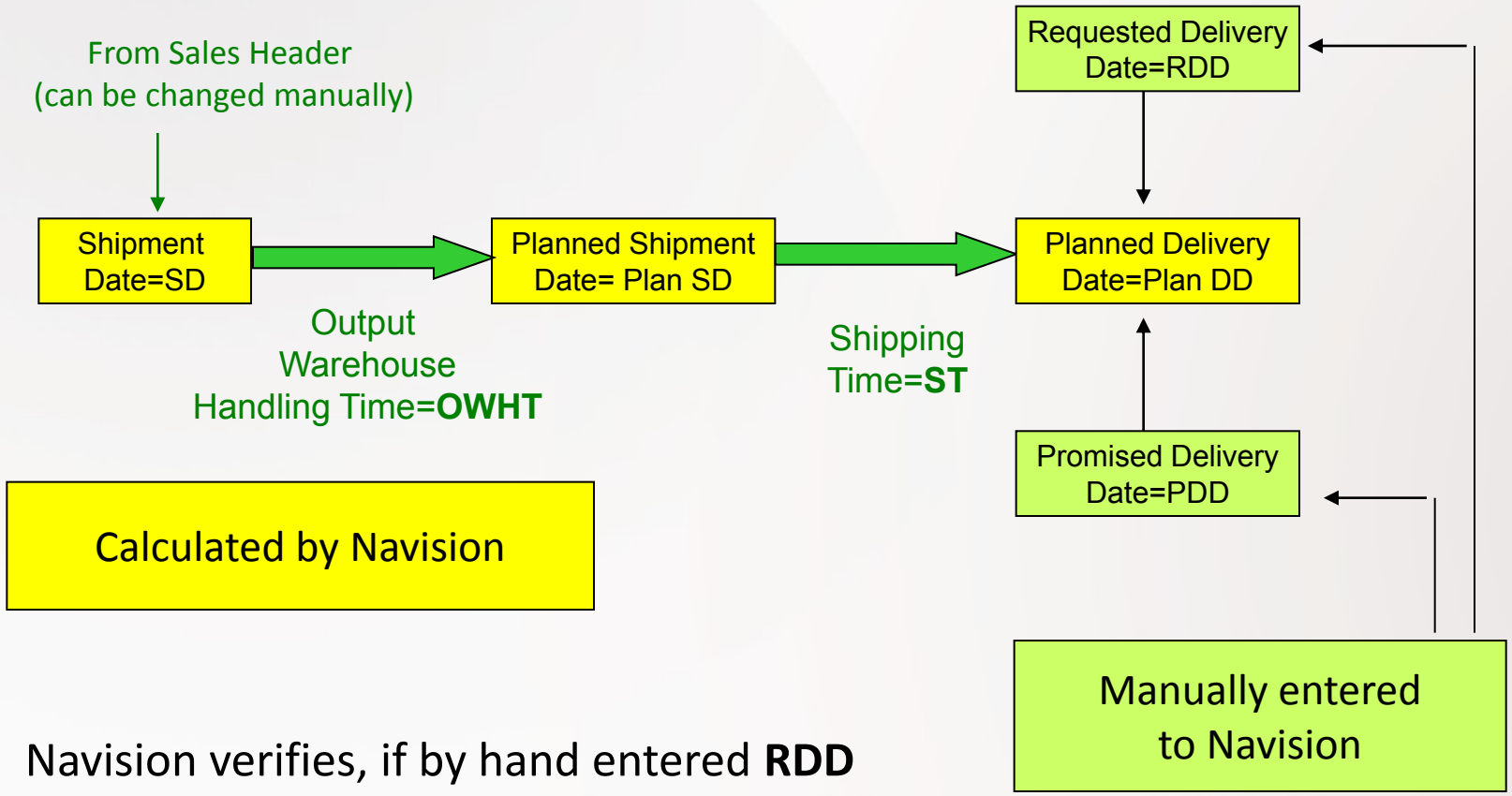
Quantity Invoiced	Qty. to Assign	Qty. Assigned	Requested Delivery Date	Promised Delivery Date	Planned Delivery Date	Planned Shipment Date	Shipment Date	Shipping Time	Whse. Outstanding Qty. (Base)	Outbound Whse. Handling Time
			10.10.08		10.10.08	09.10.08	09.10.08	1D		

Entered manually
to affect calculation

PDD is calculated by Navision
if RDD is not entered

RDD is entered manually if required by customer and it affects the calculation

Order Promising III



Navision verifies, if by hand entered **RDD** is realistic,taking into account inventory availability (using backward calculation)

Scenario I

Comment : Outbound Warehouse Handling Time = OWMT

Scenario II-1

Sales Order Header

Sales Order Line

On must be carefully setup up :

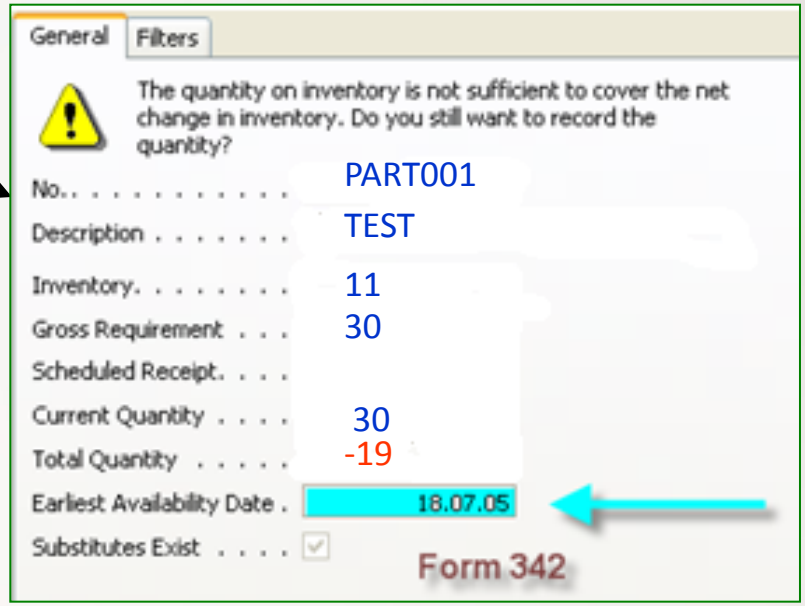
Check Available period Calculation

and

Check Available Time Bucket

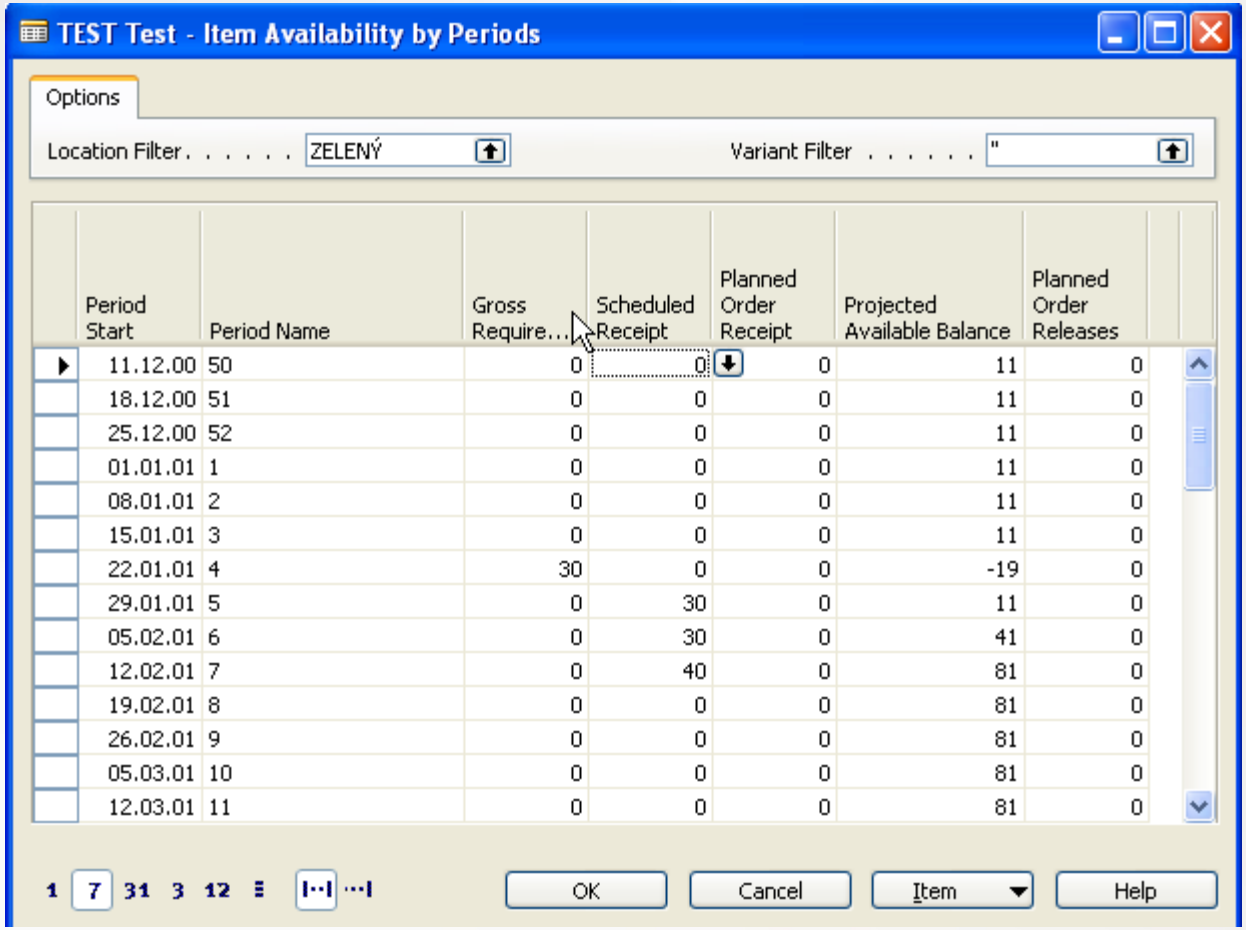
(in Company setting)

Location Green, PART001 – 30 pc



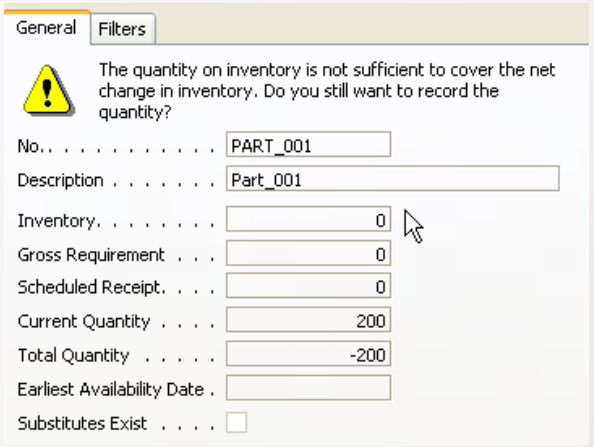
Another possibility to get help in guess of availability is use of
CTP =Capable-To-Promise

Scenario II-2



Scenario III-1

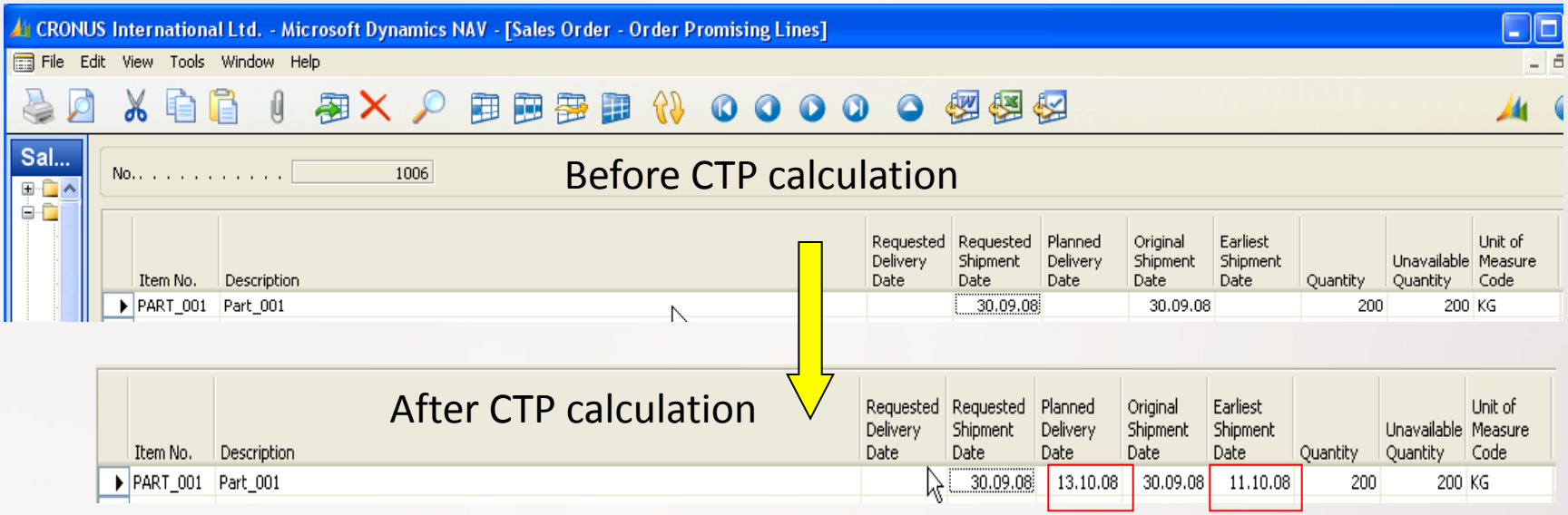
Posting Date	30.09.08
Order Date	30.09.08
Document Date	30.09.08
Requested Delivery Date	
Promised Delivery Date	



Sales Line

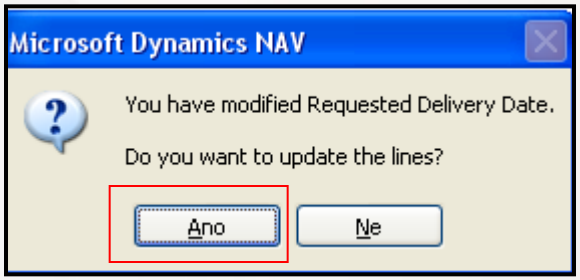
T..	No.	Description	Quantity	Unit of Measure Code	Qty. to Ship	Qty. to Invoice	Requested Delivery Date	Promised Delivery Date	Planned Delivery Date	Planned Shipment Date	Shipment Date	Shipping Time	Outbound Whse. Handling Time
I...	PART_001	Part_001	200	KG	200	200			02.10.08	02.10.08	30.09.08		2D

Scenario III-3



Scenario III-4 – Requested Delivery date entered manually

Posting Date	30.09.08
Order Date	30.09.08
Document Date	30.09.08
Requested Delivery Date	0610
Promised Delivery Date	



[Sales Order - Order Promising Lines]

Item No.	Description	Requested Delivery Date	Requested Shipment Date	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Unavailable Quantity
PART_001	Part_001	06.10.08	04.10.08		04.10.08		200	200

After CTP calculation

Item No.	Description	Requested Delivery Date	Requested Shipment Date	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Unavailable Quantity
PART_001	Part_001	06.10.08	04.10.08	13.10.08	04.10.08	11.10.08	200	200

Sales Line when accepted

No.	Description	Quantity	Unit of Measure Code	Qty. to Ship	Qty. to Invoice	Requested Delivery Date	Promised Delivery Date	Planned Delivery Date	Planned Shipment Date	Shipment Date
PART_001	Part_001	200	KG	200	200	06.10.08		13.10.08	13.10.08	11.10.08

PART is reserved

Request Worksheet is created is CTP accepted

No.	A.. M..	A.. A.. M.	Original Due Date	Due Date	Starting Date-Time	Ending Date-Time	Description	Original Quantity	M.. O..	Quantity	R.. O.. T..	Ref. Order No.
PART_001	N..	✔		11.10.08	01.10.08 00:00	08.10.08 23:59	Part_001			200	P..	101082

Scenario III-5

CRONUS International Ltd. - Microsoft Dynamics NAV - [PART_001 Part_001 - Item Availability by Periods]

Period Start	Period Name	Gross Require...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
10.10.08	Friday	0	0	0	0	0
11.10.08	Saturday	200	200	0	0	0
12.10.08	Sunday	0	0	0	0	0
13.10.08	Monday	0	0	0	0	0
14.10.08	Tuesday	0	0	0	0	0
15.10.08	Wednesday	0	0	0	0	0
16.10.08	Thursday	0	0	0	0	0

Request Worksheet to replenish PROD_001 is created ->Purchase Order is created

CRONUS International Ltd. - Microsoft Dynamics NAV - [DEFAULT Default Journal Batch - Req. Worksheet]

Name . . . . . DEFAULT

T..	No.	Action ...	Accept A...	Description	Location ...	Original ...	Quantity	Unit of M...	Direct U...	Original ...	Due Date	Vendor No.
Ite	OD_01	New	✔	Parent Coil Test 1			4 000	KG	0,00		01.10.08	10000

Scenario III-6 – PC purchased and 50 % of production registered

CRONUS International Ltd. - Microsoft Dynamics NAV - [PART_001 Part_001 - Item Availability by Periods]

Period Start	Period Name	Gross Require...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
25.08.08	35	0	0	0	100	0
01.09.08	36	0	0	0	100	0
08.09.08	37	0	0	0	100	0
15.09.08	38	0	0	0	100	0
22.09.08	39	0	0	0	100	0
29.09.08	40	0	0	0	100	0
06.10.08	41	200	100	0	0	0
13.10.08	42	200	100	0	0	0
20.10.08	43	200	100	0	0	0

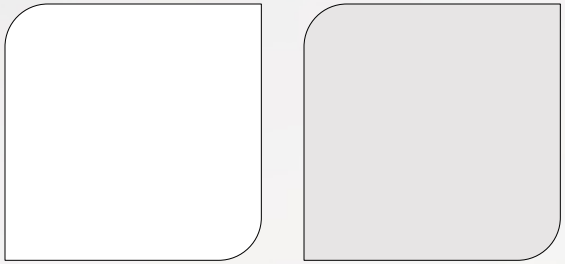
After some stock transfers- bin in standard will be changed and modified to GRID

CRONUS International Ltd. - Microsoft Dynamics NAV - [Item PART_001 Part_001 - Item Ledger Entries]

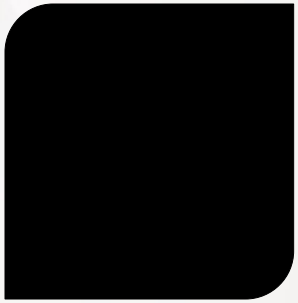
Posting Date	E.. T..	D.. T..	Document No.	Item No.	Description	Location Code	Quantity
30.09.08	T..		T01001	PART_001		WEST WORK	20
30.09.08	T..		T01002	PART_001		WEST WORK	40
30.09.08	T..		T01003	PART_001		WEST WORK	40

Bin Code	Fixed	Default	Item No.	Quantity
A21N	✔	✔	PART_001	60
B32S	✔		PART_001	40

Backgrounds

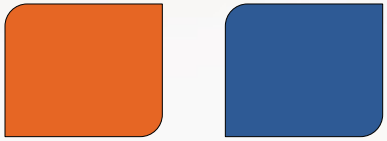


Primary Text



Secondary Text

Accent



Gradient Upper Levels

Accent Gradients