Introduction to MS Dynamics NAV XXVII. **(Requisition worksheet)**

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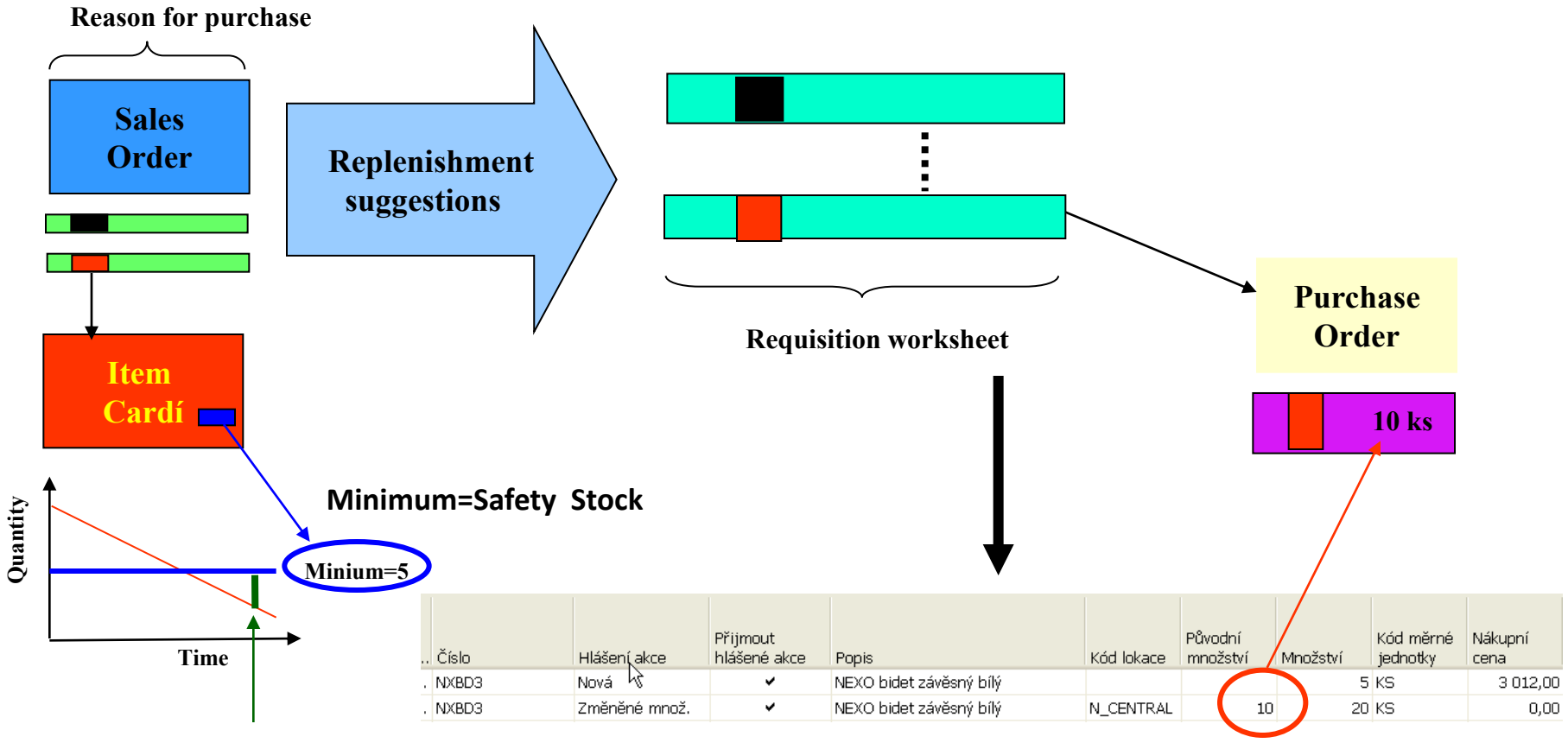
Requisition worksheet

(tool for automatic replenishment suggestion)

- **Impacts of using RW tool**
  - Lower inventory level
  - It balances supply and demand across locations
  - Lower inventory and handling cost
  - Higher liquidity
  - Sufficient service level is maintained-Service level represents the expected probability of not hitting a stock-out. This percentage is required to compute the Safety Stock. Intuitively, the service level represents a trade-off between the cost of inventory and the cost of stock-outs (which incur missed sales, lost opportunities and client frustration among others).

Purchase process

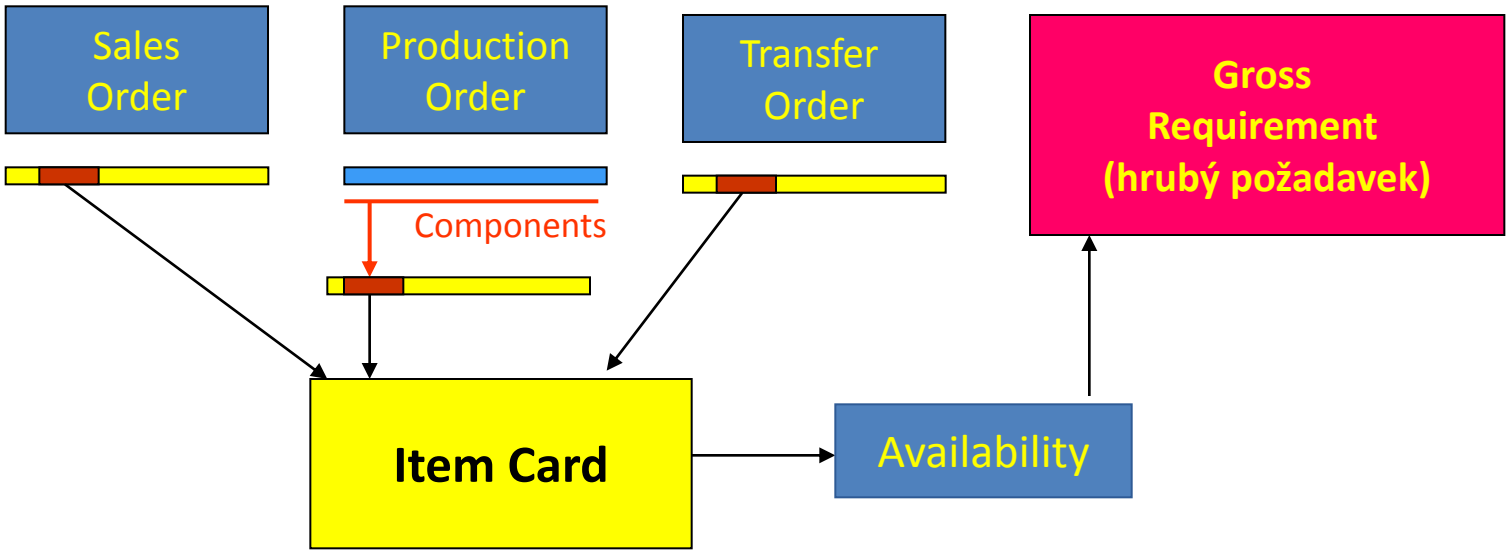
- **Net Requirement=Gross Requirement –Stock level – Purchase Orders + Sales orders +Safety Stock**



Inventory level for today at lower than Safety Stock

Stock Availability

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



Parameters controlling RW functions

(you can find them on the Item card, Tab =Planning)

- Reorder Policy – It uses the reordering policy to calculate the lot size per planning period, which you define in the Reorder Cycle field
- Reorder Cycle - In this field, you enter a date formula that sets the planning time frame for the item.
- Safety Stock
- Reorder Point - Replenishment is typically triggered when the inventory level hits the Reorder Point, which is also called Reorder Trigger Level.
- Reorder Quantity - See Excel file example (resource mentioned there)
- Min and Max Order Quantity
- Order Multiple

Reorder Policy

(see F1 to get detailed Help concerning Reorder Policy)

- Fixed Reorder Qty
- Maxium Quantity
- Order
- Lot-for-Lot

Examples for different setups

(see related Excel file Analýzy sešitu požadavků)

Analýza sešitu požadavků MS Dynamics NAV

Metoda přiobjednání	Hrubý požadavek	Navrženo	Se skladem	Minumum na skladě	Maxium	Přiobjednávané množství	Max objednávané množství	Min objednávané množství	Násobek objednávky
Pevné přiobj. Množství	110	110	Ne	0	0	90	0	0	0
Pevné přiobj. Množství	110	120	Ne	0	0	120	0	0	0
Pevné přiobj. Množství	110	200	Ne	0	0	90	0	200	0
Pevné přiobj. Množství	110	110	Ne	0	0	90	0	80	0
Pevné přiobj. Množství	110	120	Ne	0	0	120	0	80	0
Pevné přiobj. Množství	110	90+20	Ne	0	0	0	90	0	0
Pevné přiobj. Množství	110	120	Ne	0	0	0	0	0	120
Pevné přiobj. Množství	110	180=2*90	Ne	0	0	0	0	0	90
Pevné přiobj. Množství	110	160=2*80	Ne	0	0	130	0	0	80
Maximální množství	110	200=110+90	Ne	0	90	0	0	0	0
Maximální množství	110	230=120+110	Ne	0	120	0	0	0	0
Maximální množství	110	200=90+110	Ne	0	50	0	0	0	90
Dávka pro dávku	110	110	Ne	0	0	0	0	0	0
Dávka pro dávku	110	130	Ne	0	0	0	0	130	0
Dávka pro dávku	110	110	Ne	0	0	0	0	90	0

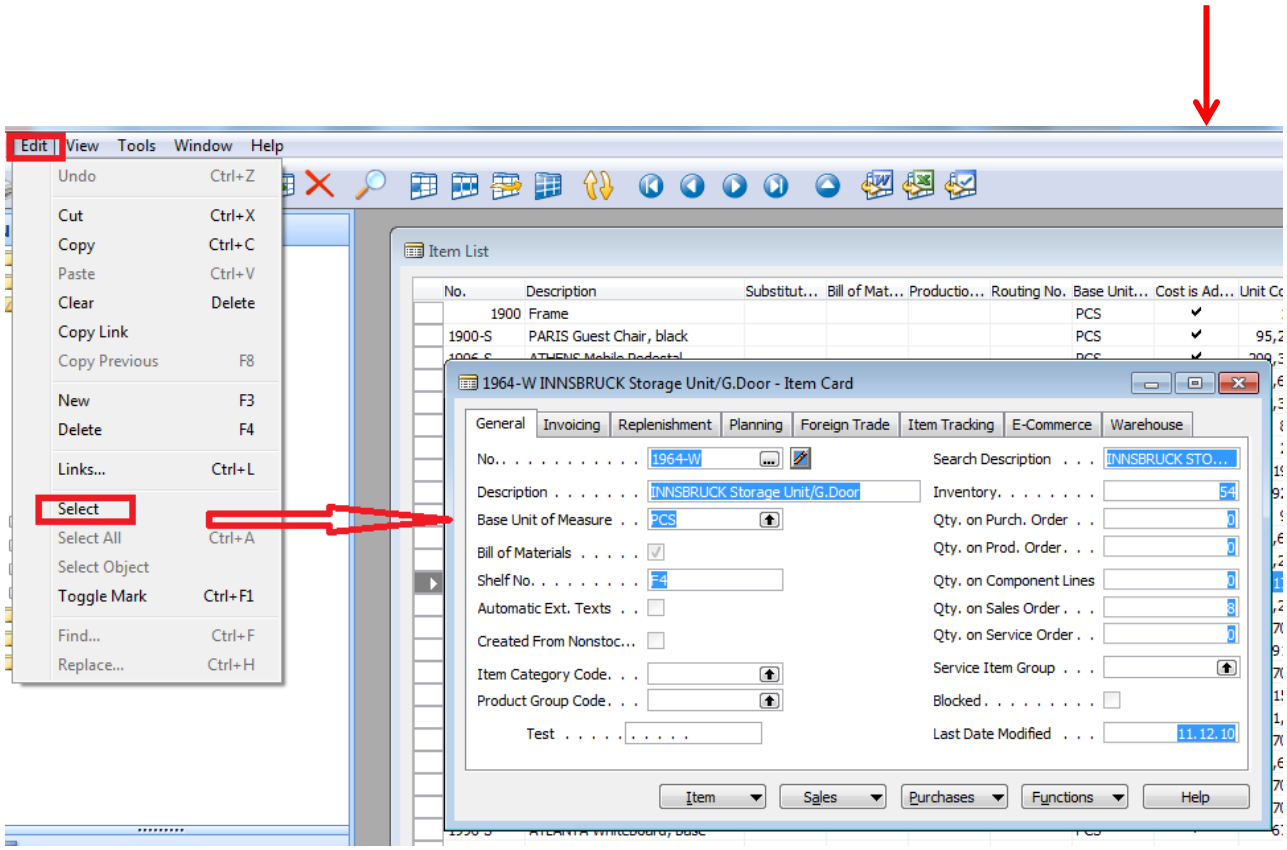
Only for Czech students !!!

Model-test

- Creation of the new item card XX1
  - Use presented principles from TS 4 (slides 3-5)
  - The method and some tiny modifiction of the this procedure is presented in the next few slides
- Create new Sales Order with **100** pcs of XX1
  - Do not post it !!
- Create new Purchase Order with **30** pcs of XX1
  - Do not post it !!

How to create a new Item card

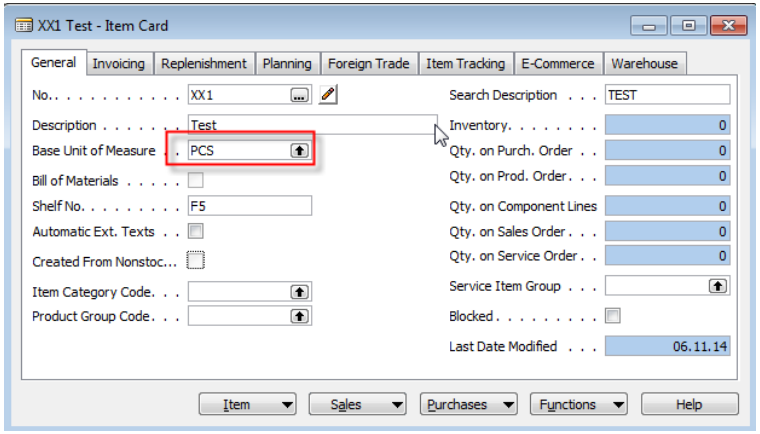
- Open chosen card (e.g. 1964-W) by use of keyboard shortcut **Shift-F5** and from the menu Edit use Select function and you will get

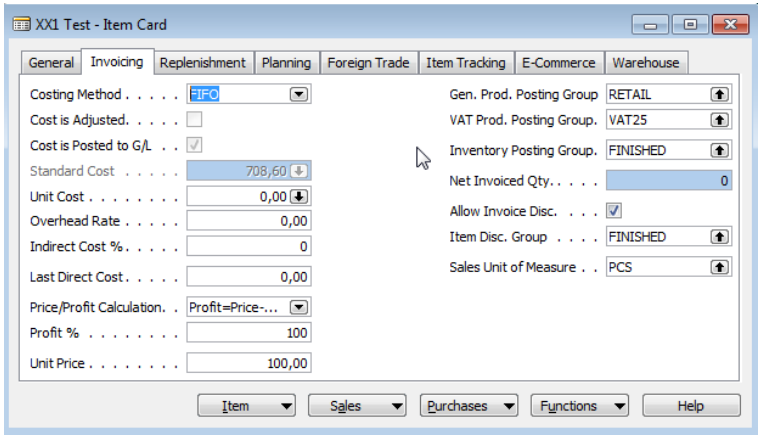


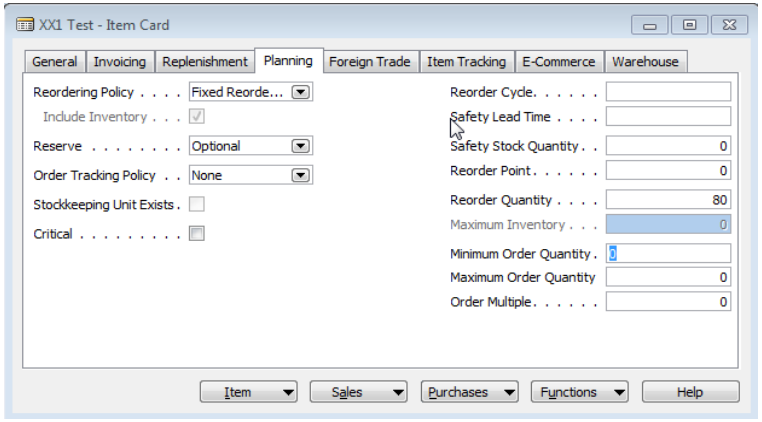
How to create a new Item card

- Ctrl-C (Item card picture is cut into clipboard)
- **F3** in order to create new card
- Ctrl-V (Item picture is pasted from clipboard into new Item card)
- You will get message Item card 1964-W already exists
- You push OK
- You will get another error message Item card could not be pasted . Do not care and make Ok again
- Change original number 1964-W to XX1 *(for instance)*
- Change name to Component 1 *(for instance)*
- In Unit of Measure field make a choice by use of **F6** to Pcs and OK and then ENTER to confirm your choice
- **Tab** Invoice->and change by **F6** to Costing method FIFO and confirm by ENTER
- **Tab** Replenishment ->make a choice of you principal Vendor (by use of **F6**)
- **Tab** Planning **->Reorded Policy**= Fixed Order Quantity

Results 1

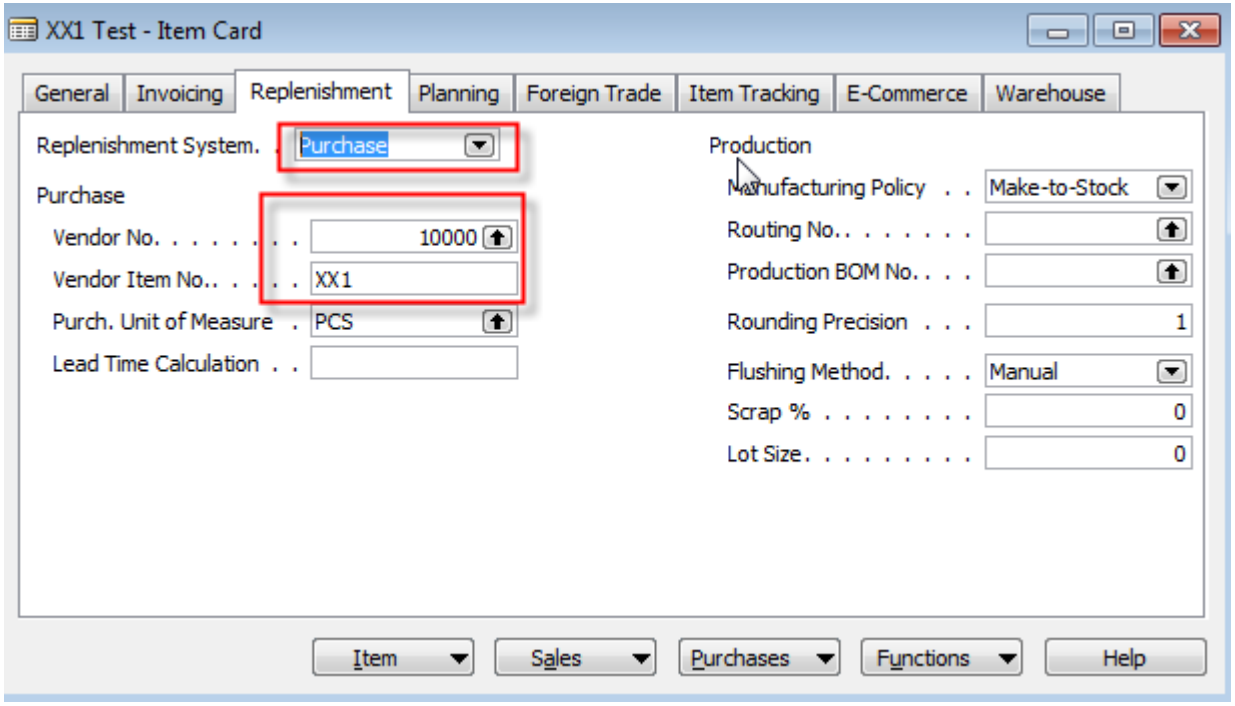

XX1 Test - Item Card
General
Invoicing
Replenishment
Planning
Foreign Trade
Item Tracking
E-Commerce
Warehouse
No.
XX1
Description
Test
Base Unit of Measure
PCS
Bill of Materials
Shelf No.
F5
Automatic Ext. Texts
Created From Nonstoc...
Item Category Code.
Product Group Code.
Search Description
TEST
Inventory.
0
Qty. on Purch. Order
0
Qty. on Prod. Order.
0
Qty. on Component Lines
0
Qty. on Sales Order.
0
Qty. on Service Order.
0
Service Item Group
Blocked.
Last Date Modified
06.11.14
Item
Sales
Purchases
Functions
Help


XX1 Test - Item Card
General
Invoicing
Replenishment
Planning
Foreign Trade
Item Tracking
E-Commerce
Warehouse
Costing Method
FIFO
Cost is Adjusted.
Cost is Posted to G/L
Standard Cost
708,60
Unit Cost
0,00
Overhead Rate
0,00
Indirect Cost %.
0
Last Direct Cost.
0,00
Price/Profit Calculation.
Profit=Price-...
Profit %
100
Unit Price
100,00
Gen. Prod. Posting Group
RETAIL
VAT Prod. Posting Group.
VAT25
Inventory Posting Group.
FINISHED
Net Invoiced Qty.
0
Allow Invoice Disc.
Item Disc. Group
FINISHED
Sales Unit of Measure
PCS
Item
Sales
Purchases
Functions
Help

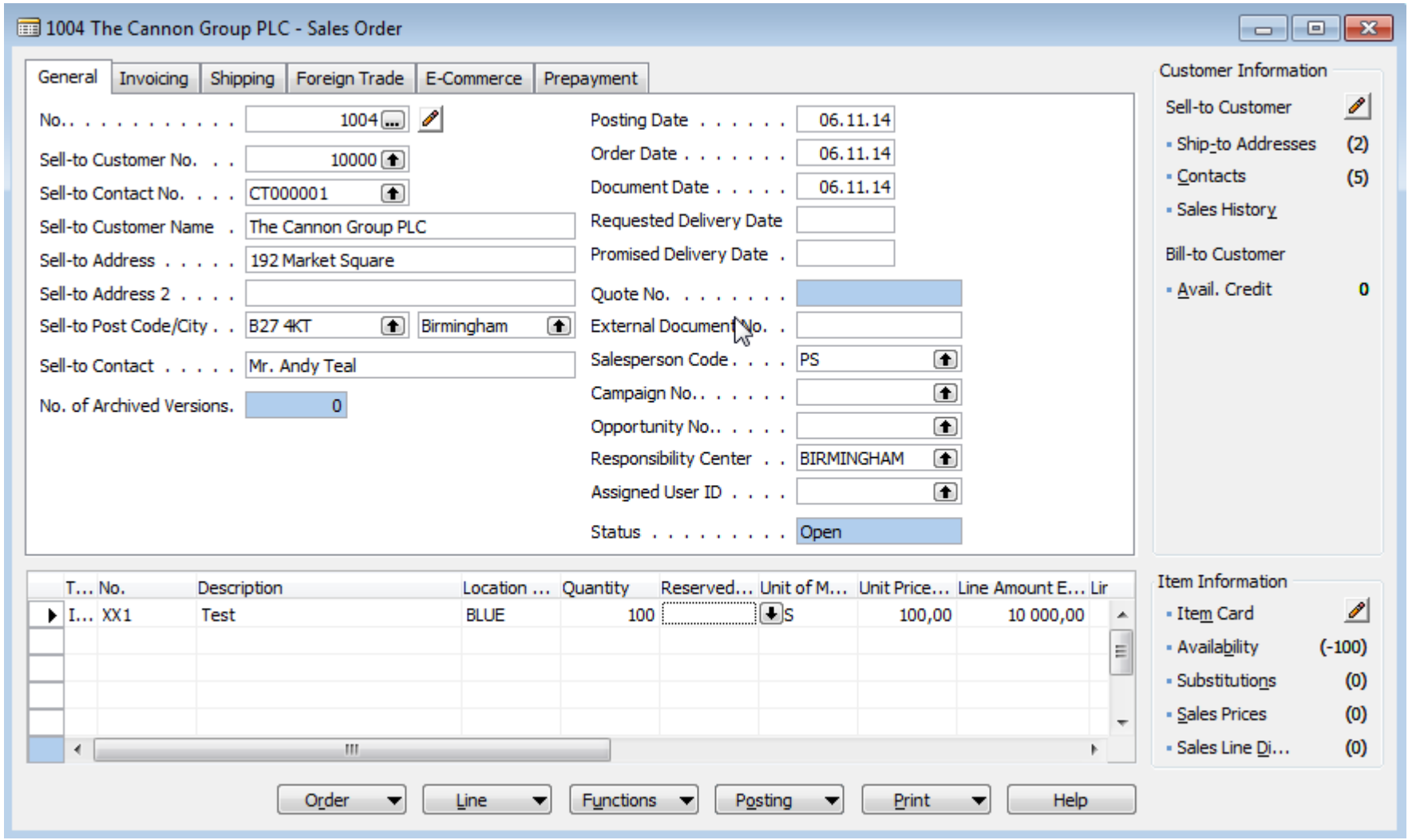

XX1 Test - Item Card
General
Invoicing
Replenishment
Planning
Foreign Trade
Item Tracking
E-Commerce
Warehouse
Reordering Policy
Fixed Reorde...
Include Inventory
Reserve
Optional
Order Tracking Policy
None
Stockkeeping Unit Exists.
Critical
Reorder Cycle.
Safety Lead Time
Safety Stock Quantity.
0
Reorder Point.
0
Reorder Quantity
80
Maximum Inventory
0
Minimum Order Quantity.
0
Maximum Order Quantity
0
Order Multiple.
0
Item
Sales
Purchases
Functions
Help

And it's done

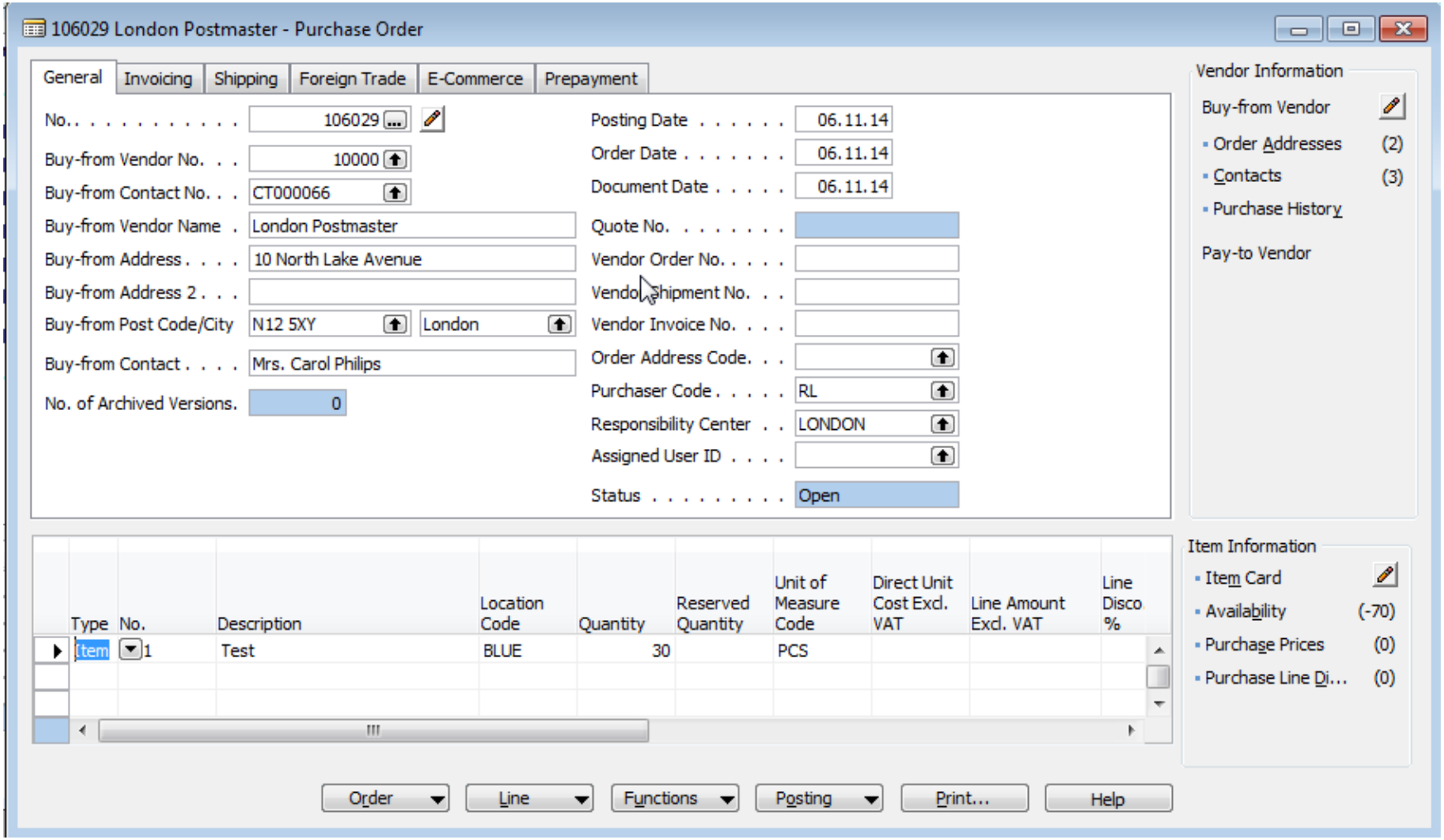
Results 2- Tab Replenishment



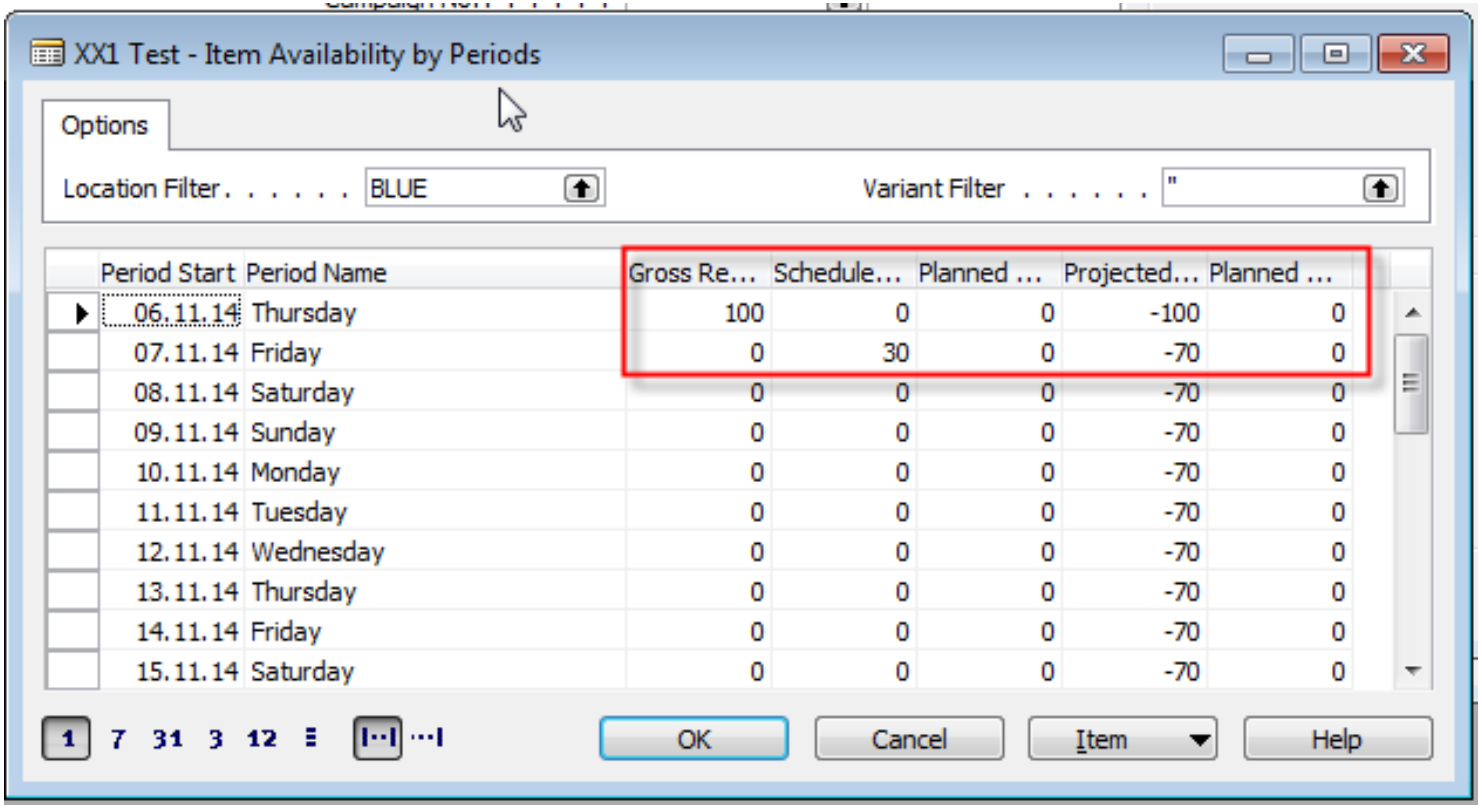
Created Sales Order



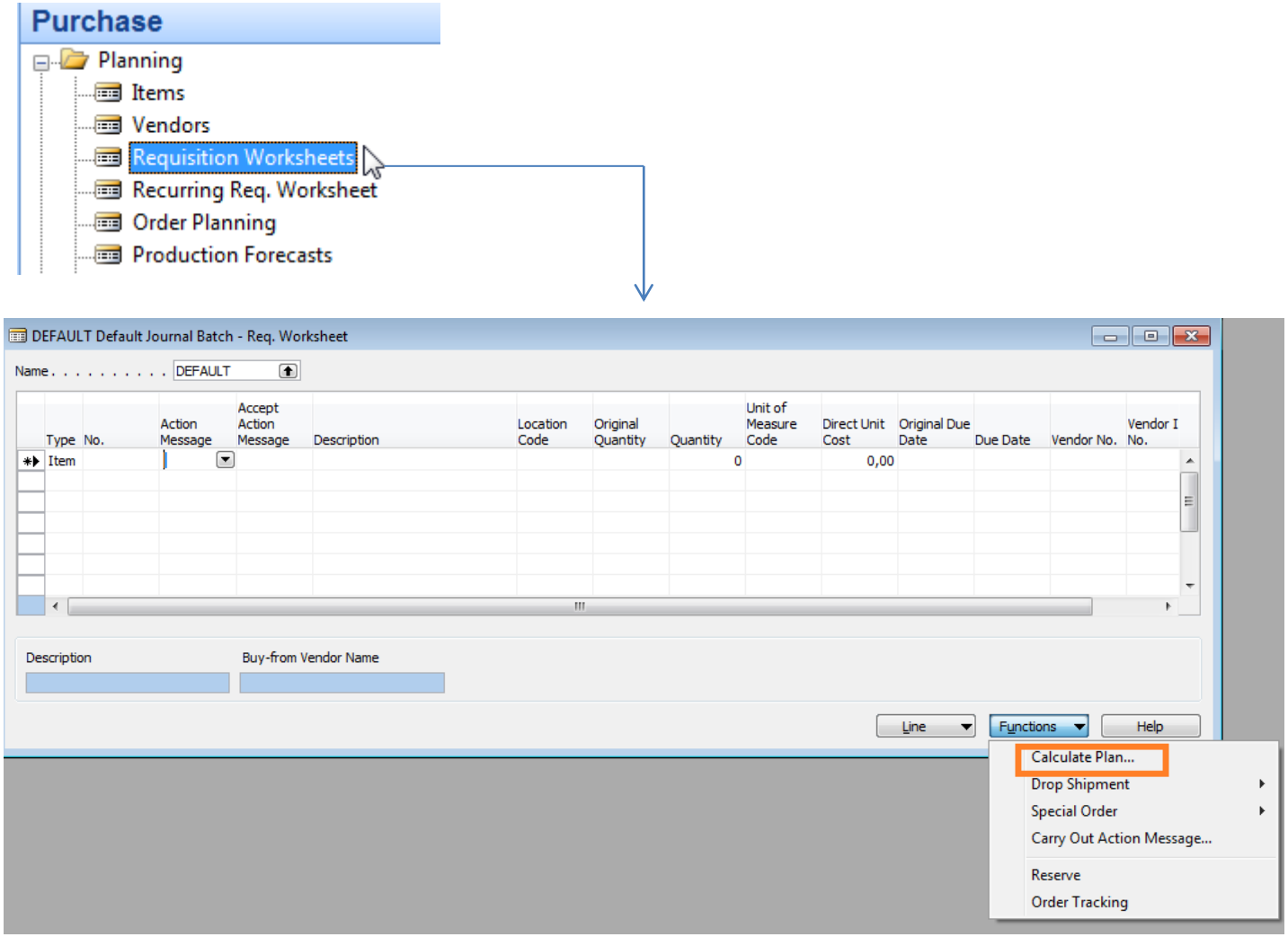
Created Purchase Order



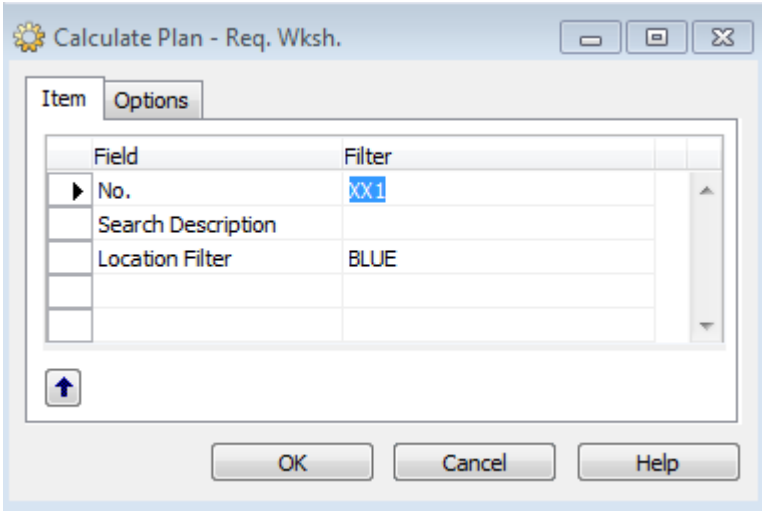
Availability

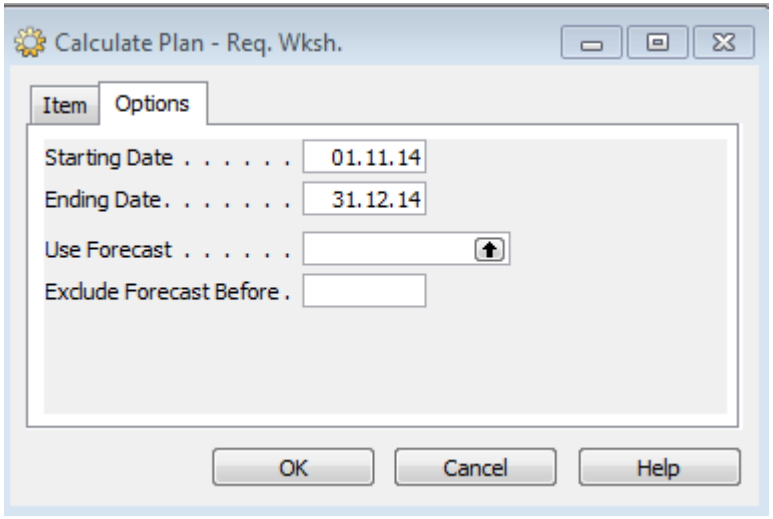


RQWS window and how to start batch job

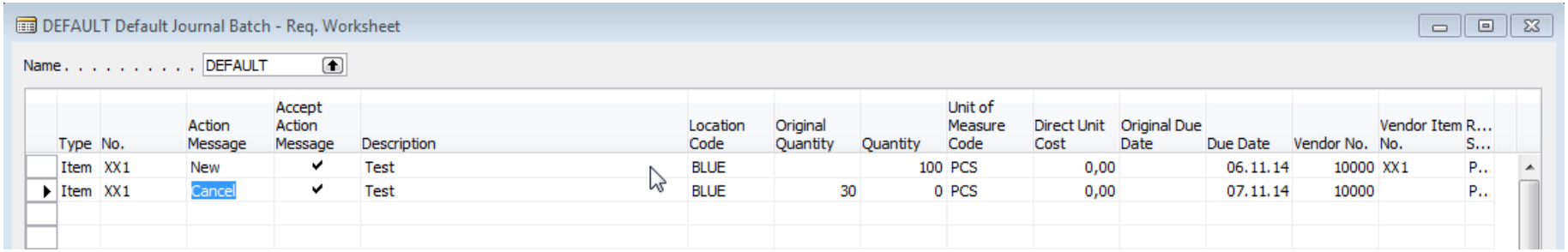


RQWS window and how to start batch job



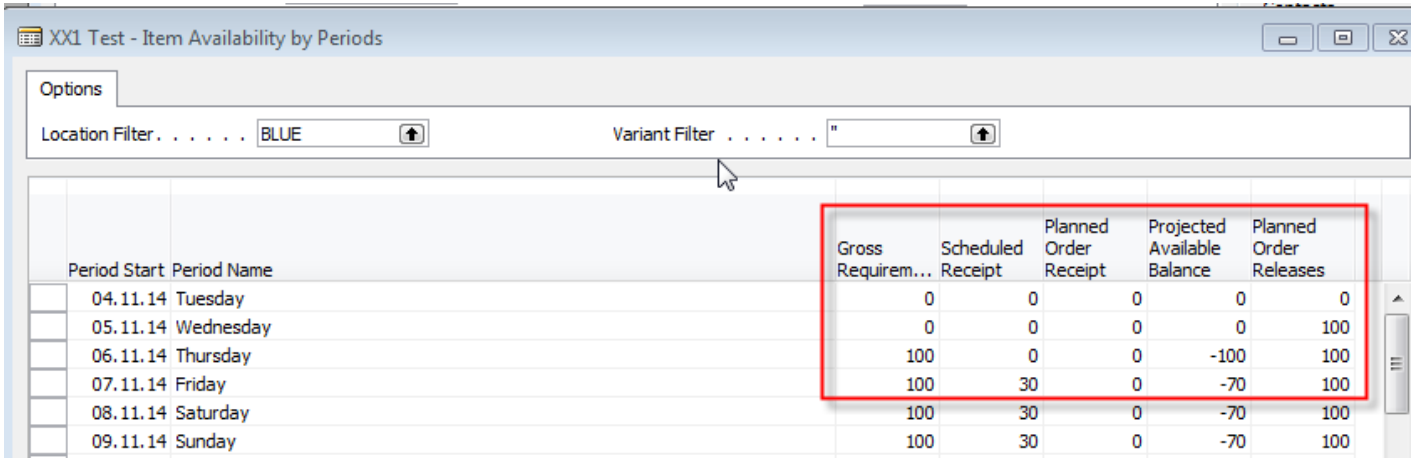


RQWS window and how to start batch job



Type	No.	Action Message	Accept Action Message	Description	Location Code	Original Quantity	Quantity	Unit of Measure Code	Direct Unit Cost	Original Due Date	Due Date	Vendor No.	Vendor Item No.	R... S...
Item	XX1	New	✔	Test	BLUE		100	PCS	0,00		06.11.14	10000	XX1	P..
Item	XX1	Cancel	✔	Test	BLUE	30	0	PCS	0,00		07.11.14	10000		P..

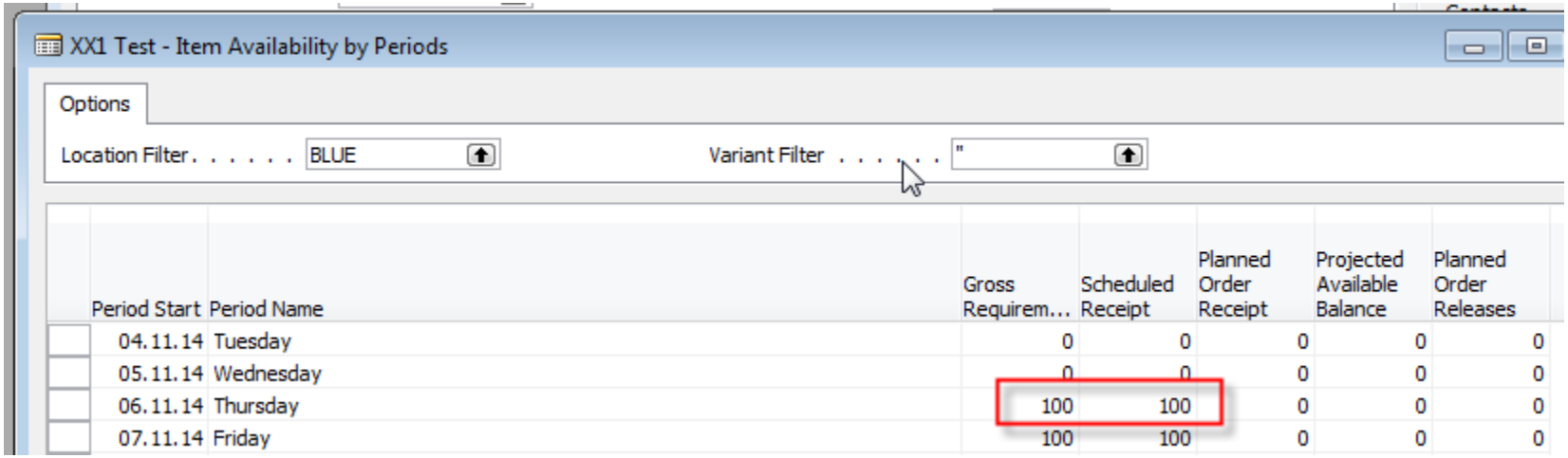
System suggests to cancel existing Purchase Order (second line) in order to get 100 % balance . First line will serve as a resource line for second Purchase Order creation. Availability looks like this (Planned Order Releases represents first line of RQWS) :



Period Start	Period Name	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
04.11.14	Tuesday	0	0	0	0	0
05.11.14	Wednesday	0	0	0	0	100
06.11.14	Thursday	100	0	0	-100	100
07.11.14	Friday	100	30	0	-70	100
08.11.14	Saturday	100	30	0	-70	100
09.11.14	Sunday	100	30	0	-70	100

Carry Out Action Messages

- After Carry Out Action Messages you will get



Period Start	Period Name	Gross Requirem...	Scheduled Receipt	Planned Order Receipt	Projected Available Balance	Planned Order Releases
04.11.14	Tuesday	0	0	0	0	0
05.11.14	Wednesday	0	0	0	0	0
06.11.14	Thursday	100	100	0	0	0
07.11.14	Friday	100	100	0	0	0

First manually created Purchase Order has been deleted and new PO for 100 pcs of XX1 was created !!!

Modification of the model RQWST

- Change policy to Lot-for-Lot
- Enter in Tab Planning Reorder cycle 1M
- Create another two Sales Order in different dates (+1 week and + 2 weeks)
- Start RQWST again
- …….

End of the section XXVII.