LAWSON

Bulk Order

Detailed net change report

Subject: Net change report for the contents of Bulk Order development phase 1 (BO1) and 2 (BO2).

From: Lawson Product Development

To: Everyone

Abstract

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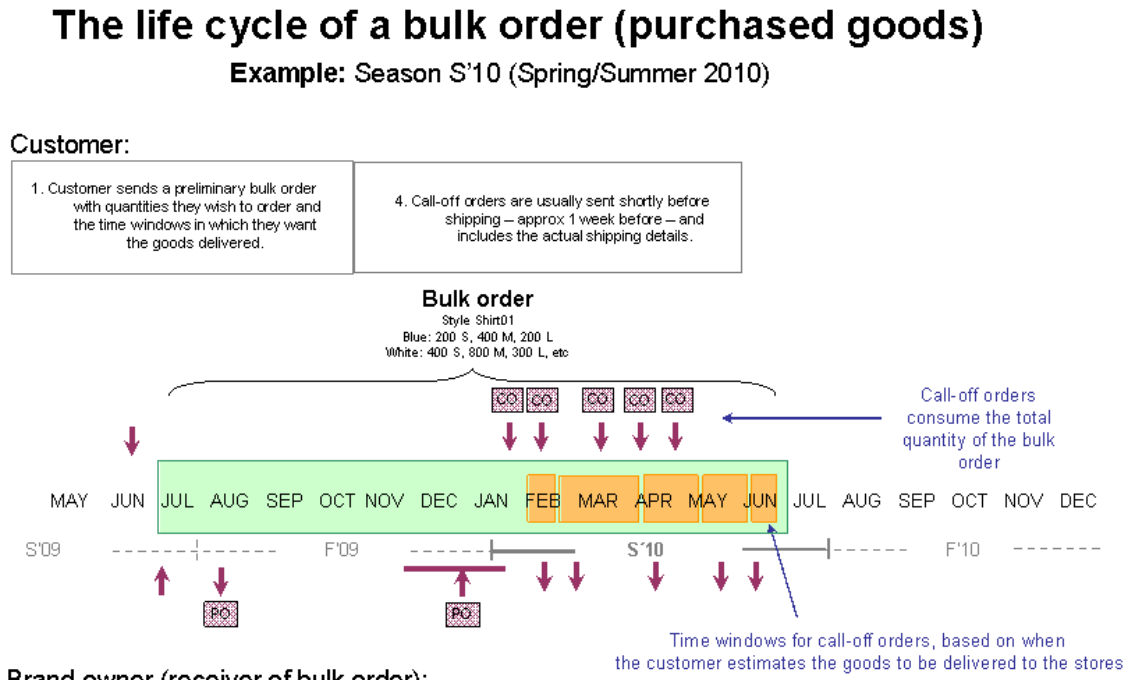
1 Overview

1.1 Background

In a fashion environment there is a need to establish bulk order agreements with customers. A bulk order agreement is an overall demand that can not be shipped. It is placed early in time, either manually or received via EDI. A bulk order agreement states items and quantities that a customer plans to buy and hence also that is needed to supply.

The general requirement for bulk order handling runs across sales, planning, manufacturing and procurement. The focus is around sales to drive the sourcing through manufacturing and purchasing. In the picture below the bulk order concept is explained with a time line. It is an example for purchased goods. Manufactured goods would behave in a similar way, but creating production orders instead of purchase orders.



Stakeholders of using Bulk Orders:

- Customers want to place orders early in the process to reserve capacity and material at the manufacturers and suppliers.

- Manufacturers and suppliers want early commitments from customers before ordering fabric and before booking capacity and starting the final cutting and sewing.

For the end customer (typically a department store chain) the placing of a bulk order indicates a level of commitment. Their expectation is that, having given suppliers an early commitment, the supplier (who is typically the M3 customer) will be able to supply according to the details on the distros (also called Call-offs).

Distros are received against the bulk order as a customer order - including all information about the store address distribution, delivery date etc. The distro will reduce the remaining quantity on the bulk order.

Since a bulk order agreement is created before any customer order lines are created it means that we need to replenish the items based on some sort of forecast. Previously this has been solved by creating a forecast record and let the forecast drive the material plan. The drawback with this is that this planned supply order is available for all demands i.e. not only for the customer on the bulk order agreement demand that in fact initiated this.

Bulk orders make it possible to update the material plan with a demand (order category 030) that can be seen as a customer unique forecast that can only be consumed by the same customer or customer within a business chain if this would be a chain agreement. This demand can be used to reserve capacity, commit greige fabric and order fabric as early as possible in the order cycle. The suppliers will manufacture to the bulk order – so manufacturing orders for end garments and/or sourcing orders are generated for the final garments based on the bulk orders.

1.2 Terminology

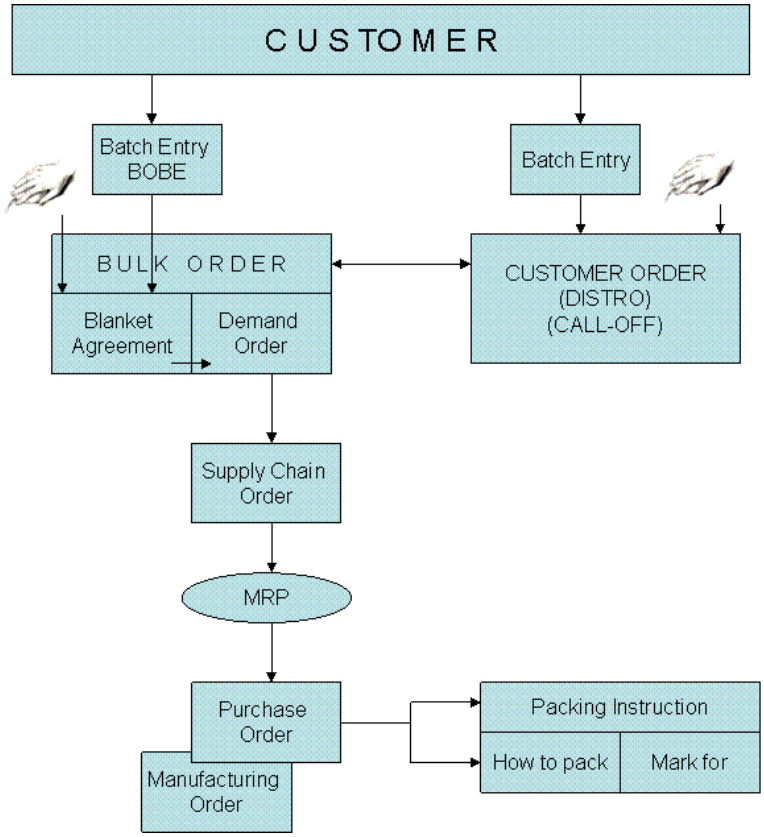
Bulk Order	=	A combination of M3 functionality Customer Blanket Agreements and Demand Orders. Functionality developed described in this document.
Supply Order	=	An acquisition order which can either be a purchase order or a manufacturing order.
Distro	=	A M3 Customer Order or Distribution Order that consumes the bulk order quantities. This term is used in the US market.
Call-Off	=	This is the same as a distro (above). This term is used in the European market.

1.3 Solution overview

The solution is based on the existing Customer Blanket Agreements, Customer order, Demand order and Supply chain order functionality.

The prerequisites for using Demand order and Supply chain orders as well as all functionality in these areas are not described here. We refer to the NCR documentation for respective functionality.

1.3.1 M3 Process overview



A bulk order consists of two entities: a customer blanket agreement and a demand order. The customer blanket agreement represents the commercial part of the commitment including quantity tolerances, time frames, etc. The demand order is created from the customer blanket agreement and represents the logistic part from which the supply is created.

1.3.2 The workflow

A bulk order toolbox program is used to have a common entity for the different parts of a bulk order. One program from where you can reach the customer blanket agreement, the demand order, the supply chain order and the distro. This is also a program from where you can administer the bulk order regarding status, where you can view the history etc. New bulk orders are created either manually from this toolbox or via API programs.

When the customer blanket agreement is released, a demand order will be created automatically. The demand order will be the driver to create a supply to the demand we know will be coming in later as a distro (call-off). How the supply will be created is determined by the settings on supply chain policy and item/warehouse.

The supply is fully pre-allocated to the demand order, and therefore protected from being used by other demands. When the acquisition order is received into stock it will be fully allocated against the demand order and therefore still being protected.

When entering a distro (call-off) for an item that is using the bulk order agreement and the related acquisition order has been received, the allocation on the demand order will be switched to the distro (call off) line. The distro line is consuming the bulk order.

If ~~entering~~ a distro (call-off) order is entered before the acquisition order has been received, the supply chain header for this distro (call-off)/customer order line will get status 10 and the order line itself will stay in status 22. Later, when the acquisition order is received, it will automatically allocate all the distro (call-off) lines that are connected to the bulk order and related demand order.

The distro (call-off) will show as consumption on the bulk order and reduce the remaining quantity.

1.4 Known limitations

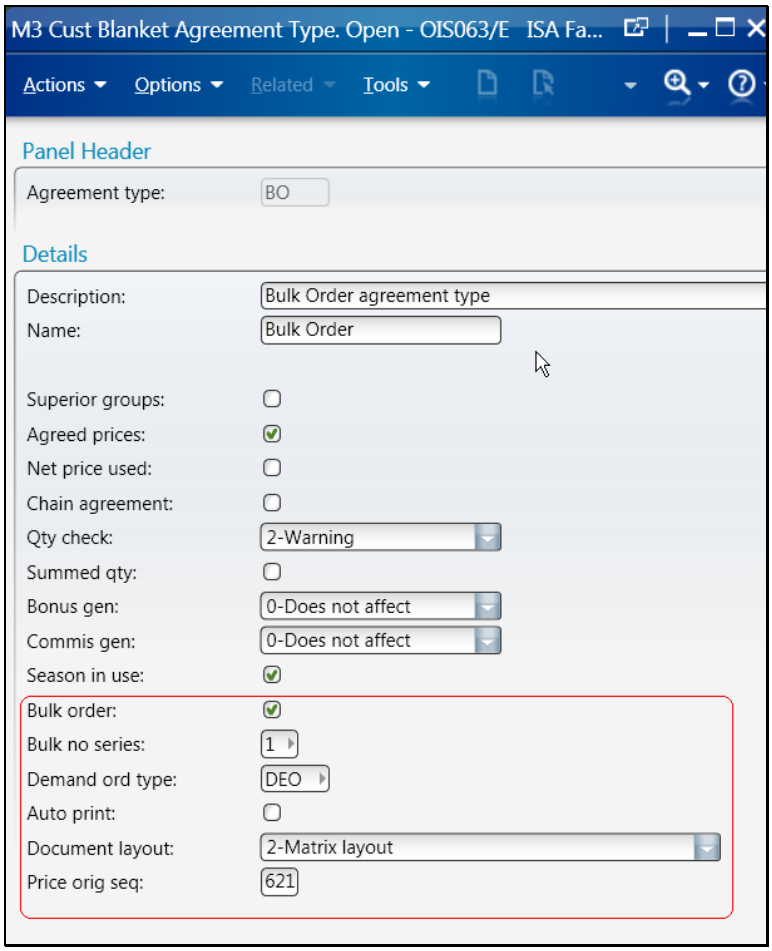
- The distro (call-off) could be a customer order or a distribution order. In the first phase of bulk order functionality, we only support customer orders as distros.
- There must be a supply chain policy connected to all bulk order items.
- Pricing works via the normal price hierarchy and functionality.
- Bulk orders are on SKU level directly, no refining from style or style-color in this solution. However you can enter the Bulk order details on a style or style color level with an automatic distribution to the SKUs using distribution templates.
- No consumption between different levels (Style, SKU) in a bulk order. The distro (call-off) will consume bulk order on the same level as the bulk line. A distro on SKU level will consume a bulk order on SKU level. A distro on pre pack level will consume a bulk order on pre pack level.
- Superior levels are not allowed on an agreement type (OIS063) where bulk orders are activated.
- There is yet no link between CO (distro or call-off) and packing instructions.
- Existing limitations for demand orders and supply chain orders apply also for the bulk order functionality.
- No additional functionality has been added for a distro to find a bulk order. Standard functionality for a customer order to find a customer blanket agreement is valid. However a distro (call-off) only finds bulk orders and a customer order only finds non-bulk orders.
- No statistics are created from the bulk orders. If statistics are needed as input to creating forecasts, the data needs to be exported (e.g. to Excel) and thereafter imported to a sales budget.
- In case of shortages, MRP will create new order proposals for supply – not using a supply chain order. Consequently the demand order for the bulk order line will not be pre-allocated to this supply order automatically. Connecting the MRP created supply to the bulk order needs to be done manually via "Pre-allocation. Perform detailed" (MWS121) or by manually regenerating the SCO via "Supply chain header. Open" (RPS200). The latter alternative will create a SCO generated supply to be used instead of the MRP supply.

2 Settings

2.1 Basic settings – new or changed programs

2.1.1 Changed program OIS063 - Customer Blanket Agreement type

On the Customer Blanket Agreement Type (OIS063/E) new fields have been added to support the bulk order functionality. These parameters are only active for bulk orders, i.e. when the first new parameter Bulk Order is activated.



New parameters:

Table: OAGRTP			
Field ID	**Field Name**	**Valid options**	**Description**
BUOR	Bulk order	0/1	Activate if the agreement type should be used for creating bulk orders.

BUID	Bulk order number series		Select a number series from CRS165. Mandatory when bulk order parameter (BUOR) is active, otherwise invalid.
DEOP	Demand order type		Select a demand order type from RPS120. Mandatory when bulk order parameter (BUOR) is active, otherwise invalid.
PRTB	Auto print	0/1	Activate the parameter if the bulk order confirmation document OIS631PF should be printed automatically when the bulk order is released.
PRTD	Document layout	1 2	Determines the layout on the bulk order confirmation document OIS631PF 1 = list layout 2 = matrix layout
PRMS	Price origin sequence	1 2 6	Determines where the guide price is to be found. 1 = price in item file 2 = price list from selection table 6 = price set on agreement

Bulk order (BUOR)

This checkbox parameter defines if the agreement using this agreement type is considered to be a bulk order agreement or a customer blanket agreement. It must be set in order to be able to create a bulk order.

When creating a bulk order, this parameter is copied to the bulk order header (OAGRHE) and all functionality is validated against the parameter on the bulk order header. However, it is important to know that the field on a bulk order header cannot be viewed or changed.

Bulk number series (BUID)

When a new bulk order is created, this field defines which number series should be used (from CRS165) for automatic creation of the bulk order number. This can be manually overridden. The field is mandatory for bulk order agreement types (agreement types which have the bulk order parameter set).

“BO” is the valid number series type for Bulk order number series in CRS165.

Demand order type (DEOP)

This field defines the demand order type to be used when this is automatically created from the release of a bulk order. The field is mandatory for bulk order agreement types, otherwise it is invalid. Order types for demand orders are set up in RPS120.

Auto print (PRTB) & Document layout (PRTD)

These parameters control the layout of the bulk order confirmation and if it is printed automatically when releasing a bulk order. For non-bulk orders the order confirmation is printed in list format. With this parameter you can also have it printed in a matrix format.

Price origin sequence (PRMS)

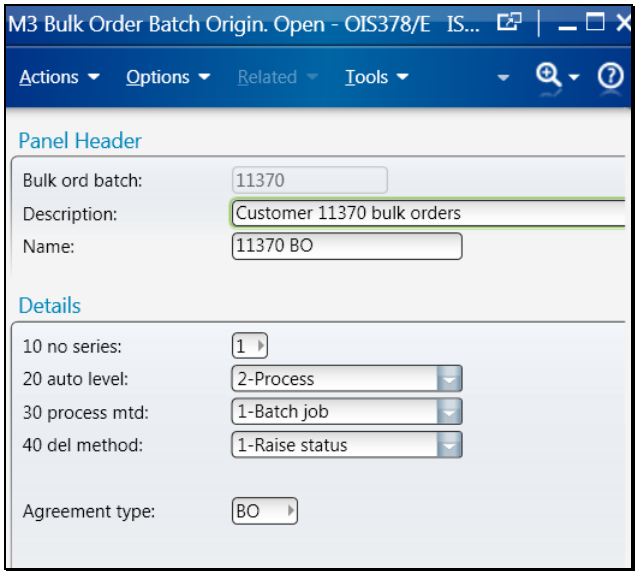
For bulk orders, a 'guide price' has been introduced. The guide price is defined later in this documentation (see chapter 3.2). This parameter controls how (in which order) this price should be found in M3 and in which order. A corresponding parameter for the distros can be found on the customer order type (OIS010/J).

Existing parameters which are affected by bulk order functionality:

Superior groups – This field needs to be unchecked. This means that the agreement line needs to be created on item level and that the warehouse used when creating the Demand order is the warehouse defined in the bulk order header.

2.1.2 New program OIS378 – Parameters Batch Origin

In order to have a flexible solution, a parameter program has been created in which you do settings on how the bulk order process should work based on the Bulk Order Batch Entry (BOBE) using the API program OIS370MI.This is done per batch origin, and could be overruled by customer within each batch origin. A batch origin could for example correspond to a customer number, and is used as an identifier for an external system.



Parameters:

Table: OIBBOR				
Field ID	**Number**	**Field**	**Valid options**	**Description**
BB10	10	Number series	Series type BO	Enter a new number series for bulk order agreements created via BOBE transactions. The

				number series on the agreement type is overruled.
BB20	20	Auto level	1 - Order entry 2 – Process	1 - The validation and process is performed manually in BOBE 2 – The validation and process is performed by the FinishEntry-transaction.
BB30	30	Process method	1 - Batch job	Only option 1 is available.
BB40	40	Delete method	1 - Raise status 2 - Delete record	This parameter handles if deleted records should be physically deleted from the file or if the deletion raises the status.
AGTP		Agreement type		Select a bulk order agreement type from OIS063 for the bulk order created.

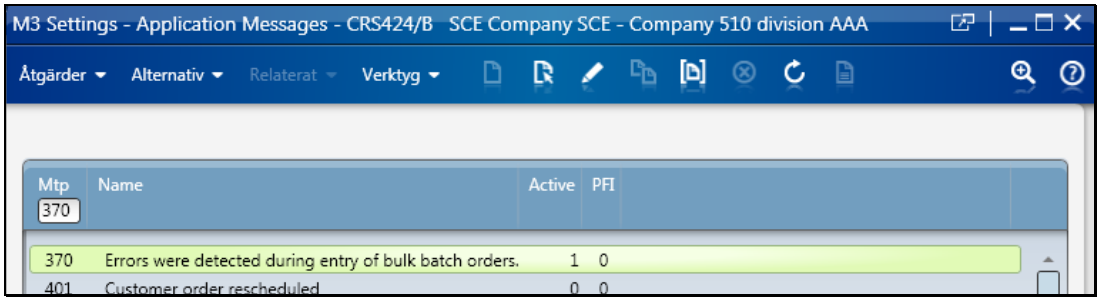
2.1.3 New program OIS379 – Parameters Batch Origin exceptions

The same parameters as are available for the Batch Order Entry Origin in OIS378 are also available for the exception handling of these. Exceptions are set up at customer level in OIS379 and are connected to a BO batch origin entity in OIS378.

Parameters as for OIS378.

2.1.4 Changed program CRS424 – Application messages

A new application message 370 has been activated (CRS424), enabling error messages from the bulk order batch entry (BOBE).



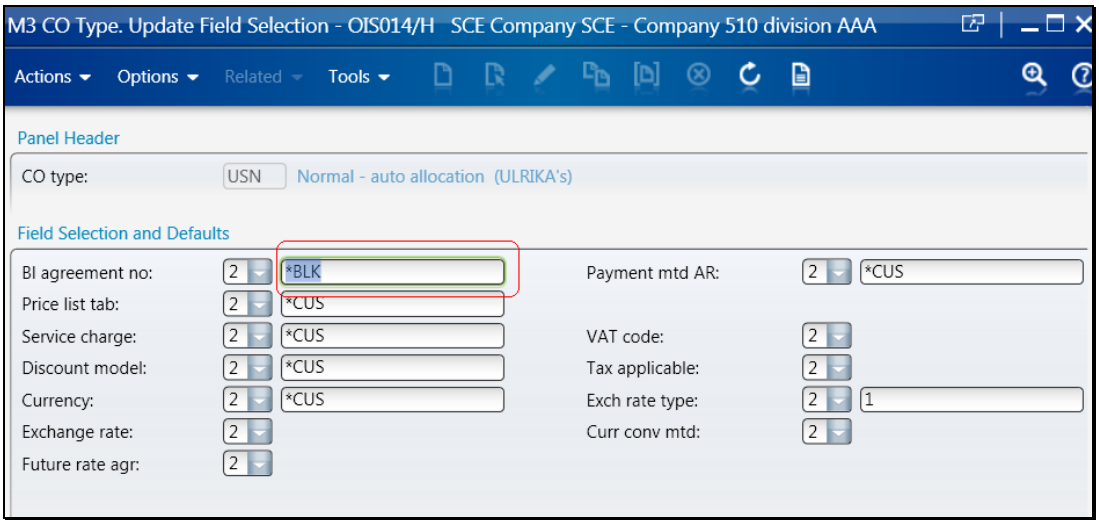
2.1.5 Changed program OIS014/H – Field selections

A new field has been added for customer order types field control (OIS014/H) in order to make it mandatory to enter a blanket agreement number (meaning bulk order).

The purpose of this field is to control the bulk order process. When customers send a distro (call-off) it should consume a bulk order. If no bulk order is found, customers need to be informed of that.

Distro (Call-off) order types:	field control activated to *BLK.
Ordinary customer order types:	nothing in this field control

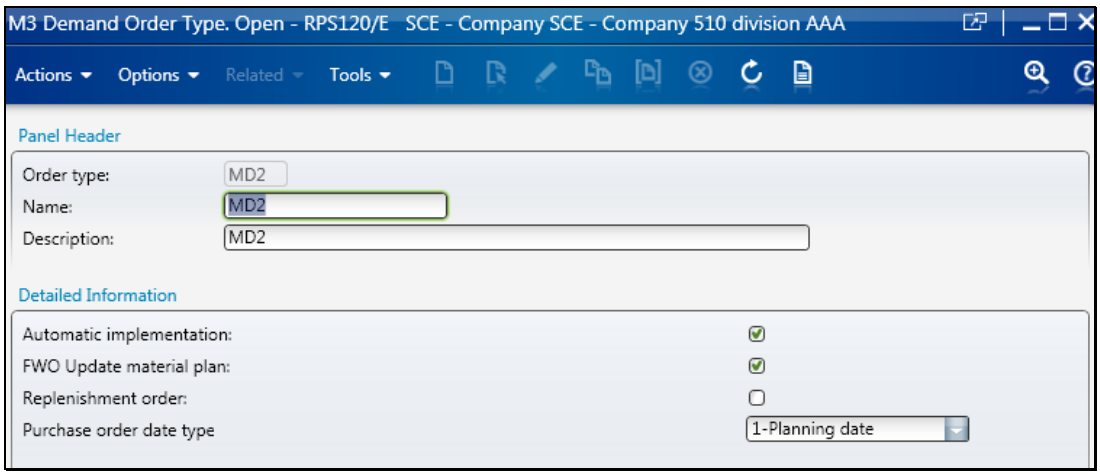
This setting is also used for the added warehouse control when finding valid agreements (see chapter 8.1).



2.2 Basic settings – existing programs

2.2.1 Demand order type (RPS120)

A demand order type needs to be set up in RPS120.

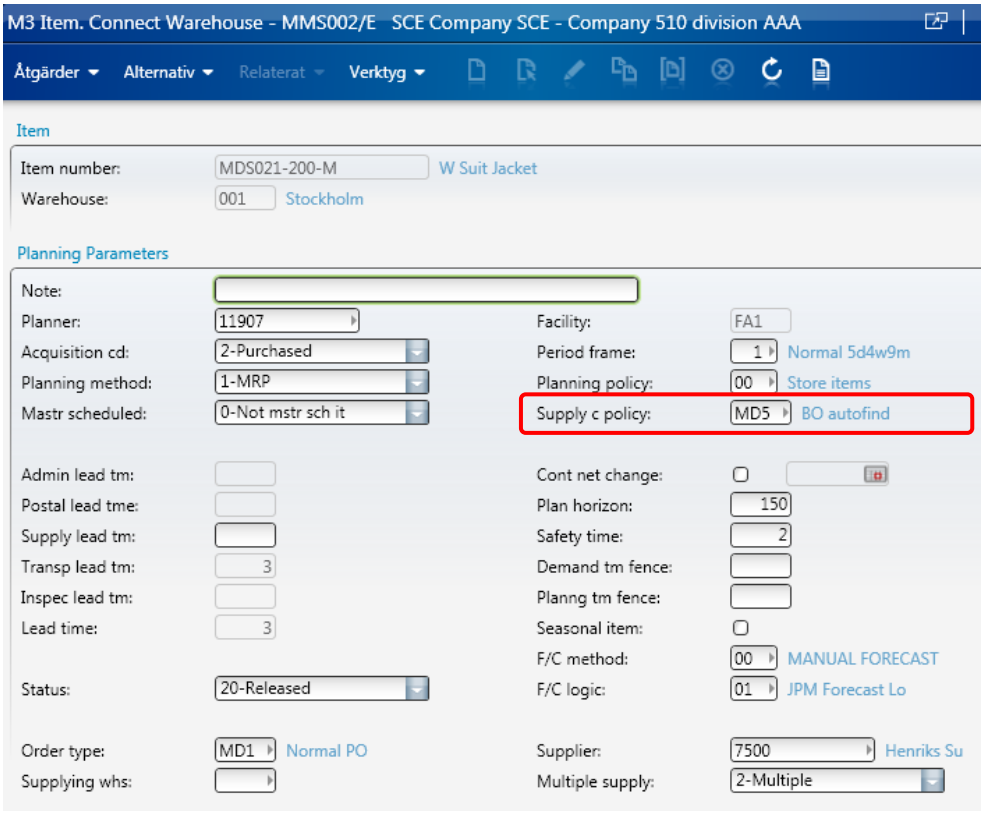


For details on the parameters on the demand order type, see standard documentation for demand order.

2.2.2 Supply Chain Policy (CRS709)

The supply for a bulk order is driven by supply chain order functionality and is based on the demand order which is created for the bulk order upon release.

The logic for the supply of a bulk order is driven by the supply chain policy which is set up on item/warehouse (MMS002/E).



There are several parameters on the supply chain policy (CRS709) which are used to control how demand orders are supplied for.

Two parameters which are especially important in controlling how the supply chain order drives the acquisition for the demand order are Stop supply chain execution (SSCE) and Link existing order (NAUL).

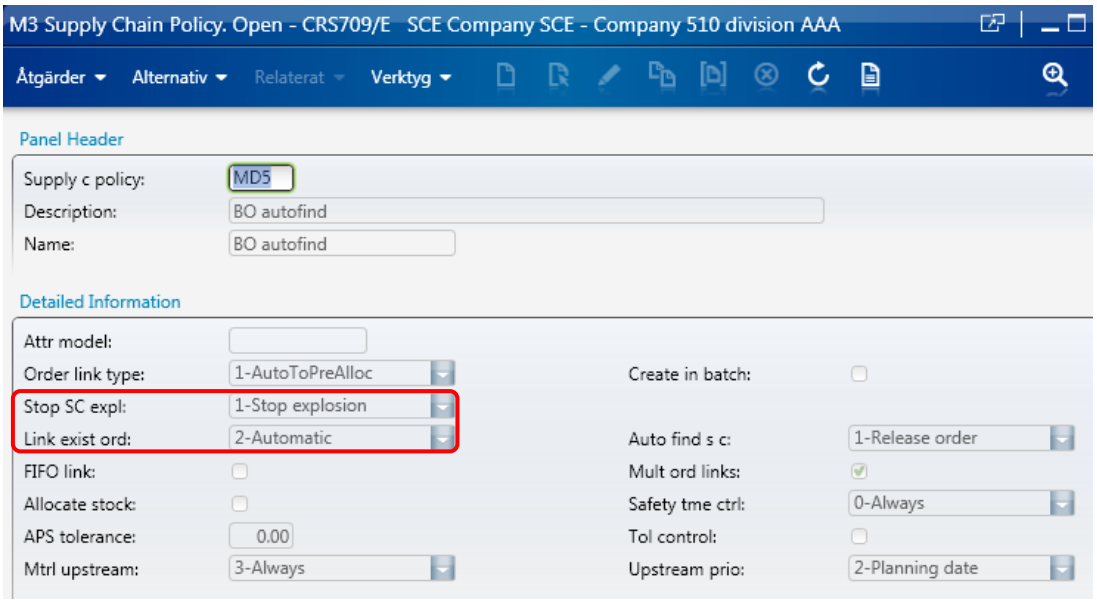


Table: MSCPOL			
Field ID	**Field Name**	**Valid options**	**Description**
SSCE	Stop supply chain execution	0 = Continuous explosion	0 - Supply chain order will always generate a new acquisition order for the demand order.
		1 = Stop explosion	1 - Supply chain order will not generate any new acquisition.
		2 = Continuous explosion DeO	2 - Not valid for bulk order.
NAUL	Link existing order	0 = No	0 - Supply chain order will not look for existing acquisition orders.
		1 = Manually.	1- Existing acquisition order will be manually pre-allocated to the demand order of the supply chain.
		2 = Automatically.	2- Existing acquisition order will automatically be pre-allocated to the demand order of the supply chain.

The valid combinations of the settings of these two parameters for bulk order are:

Stop SC execution (SSCE)	Link existing order (NAUL)	Description
N/A	0	A new acquisition order will always be created via supply chain order for the demand order. The result is a one-to-one relationship between demand order and acquisition order. The quantity will be protected for the designated bulk order line and when received, stock will be available only to the correct bulk order line.
1	1	Existing acquisition orders can be manually pre-allocated to the demand order. The result is possibly a one-to-many relationship between demand order and acquisition orders. Based on the pre-allocation the quantity will be protected for the designated bulk order line, and when received stock will be available only to the correct bulk order line. If the item is MRP-planned, shortages are handled by MRP according to standard functionality.

1	2	The supply chain order automatically looks for existing acquisition orders to pre-allocate to the demand order and does never generate new acquisition orders. The result is possibly a one-to-many relationship between demand order and acquisition orders. Based on the pre-allocation the quantity will be protected for the designated bulk order line, and when received stock will be available only to the correct bulk order line. If the item is MRP-planned, shortages are handled by MRP according to standard functionality.

When parameter Link existing orders is set to 1 or 2, another important parameter that needs to be considered on the supply chain policy is Auto find supply chain (AFSC). This parameter controls whether a release, confirmation or receipt of a supply order on the lowest level of a supply chain should trigger an automatic search to find existing supply chains to connect to. This can be useful when the lowest supply level is planned via MRP and forecasts. Later in time, bulk order lines are released and the demand orders and supply chains created for them. When an existing supply proposal then is released, for example, M3 will automatically try to find the existing supply chains to connect to.

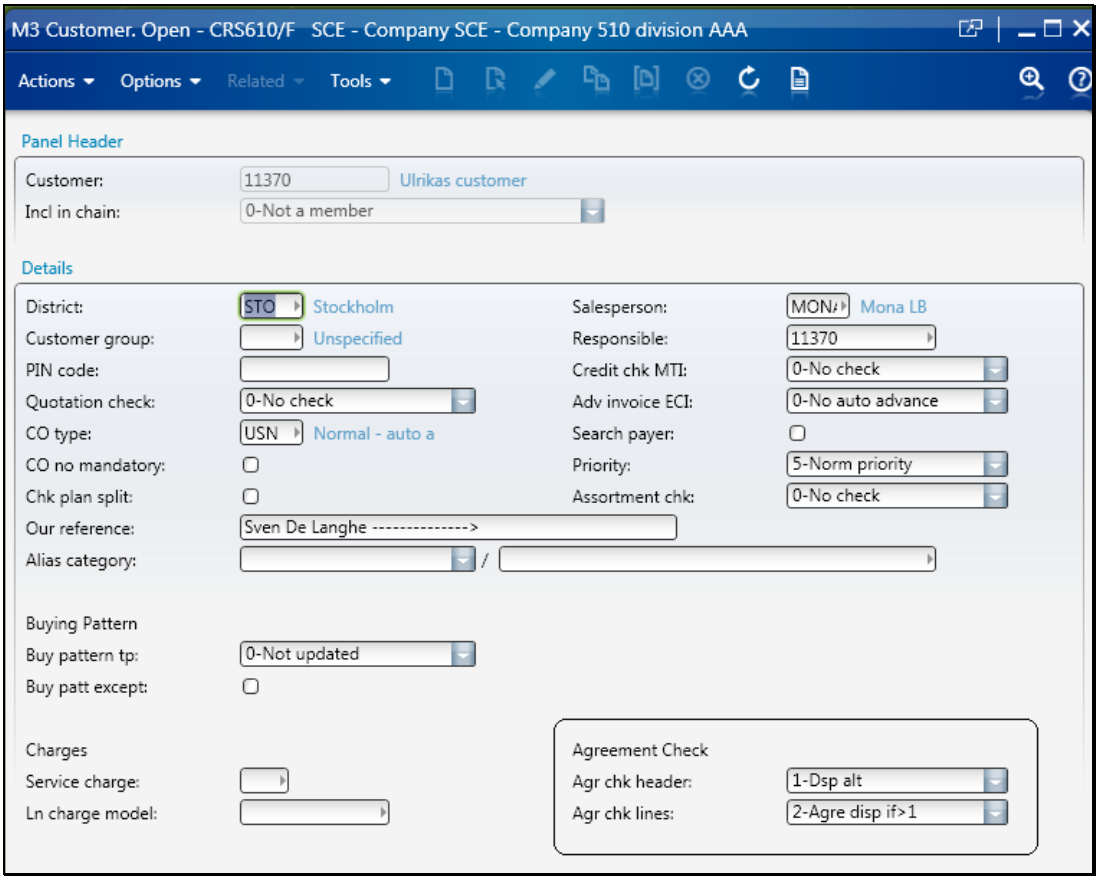
Parameter Auto find supply chain has the following alternatives:

Table: MSCPOL			
Field ID	**Field Name**	**Valid options**	**Description**
AFSC	Auto find supply chain	0 = No 1 = Yes, when released 2 = Yes, when confirmed 3 = Yes, when received	0 - No auto connection is made. 1 - Auto connection is made when supply proposal is released or later. 2 - Auto connection is made when supply order is confirmed or later. 3 - Auto connection is made when supply order is received or later.

For more details on the parameters on the supply chain policy, see standard documentation for supply chain order.

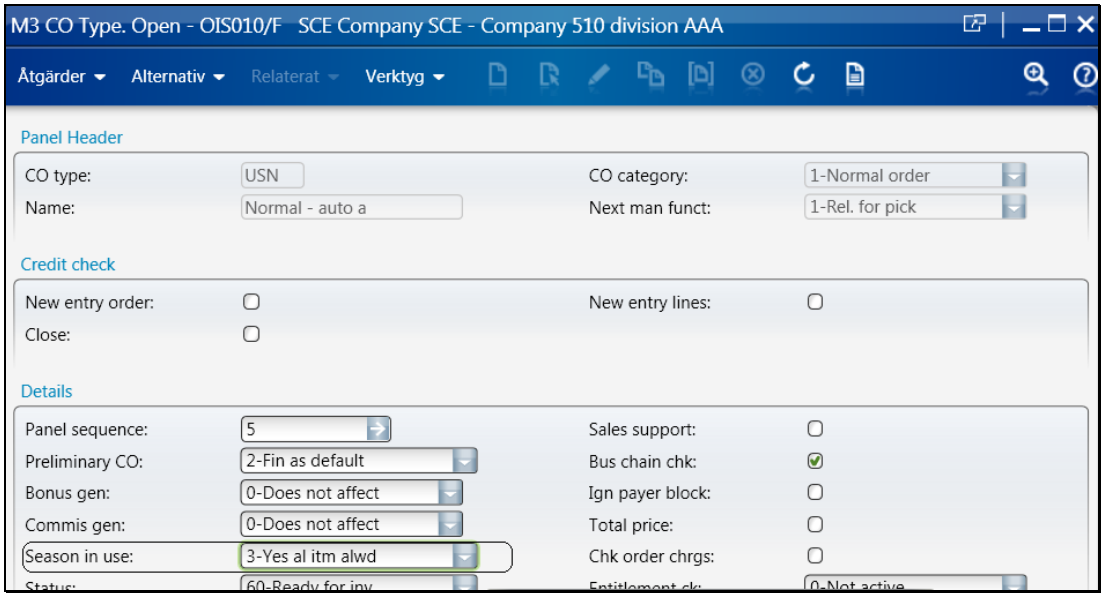
2.2.3 Customer file (CRS610/F)

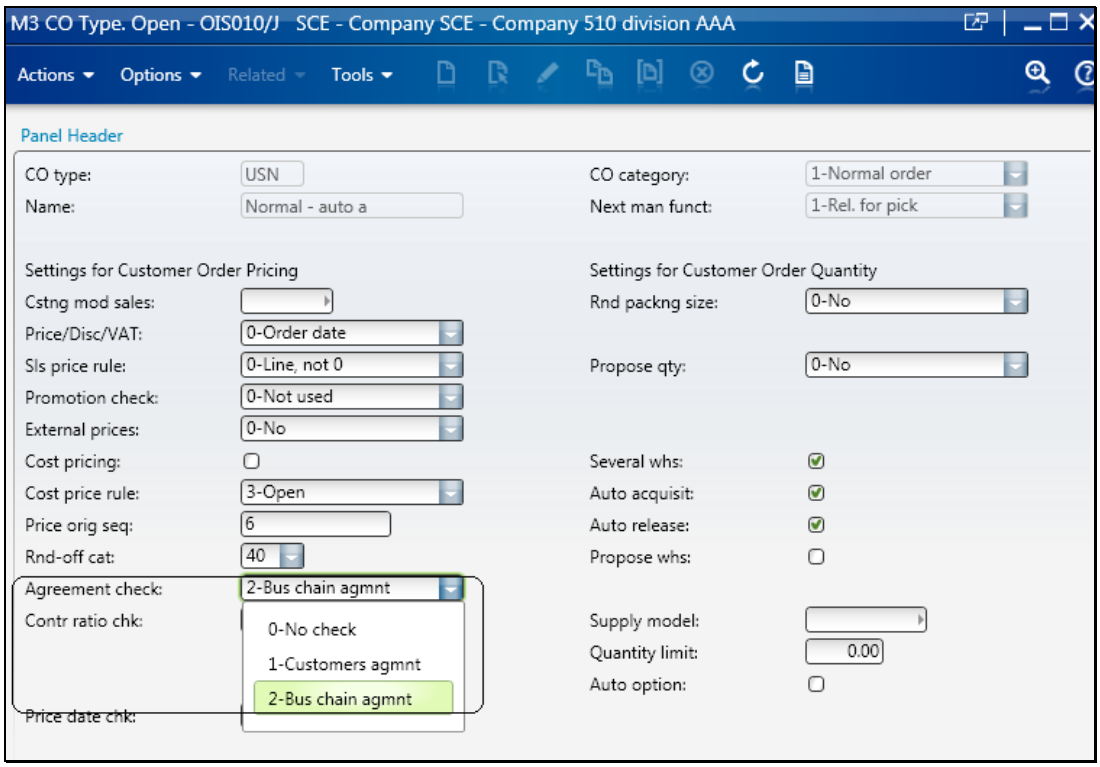
The framed parameters are relevant for the bulk order process, regarding how a bulk order should be found when entering a distro (call-off). See standard documentation for customer blanket agreements.



2.2.4 Customer order type (OIS010/J)

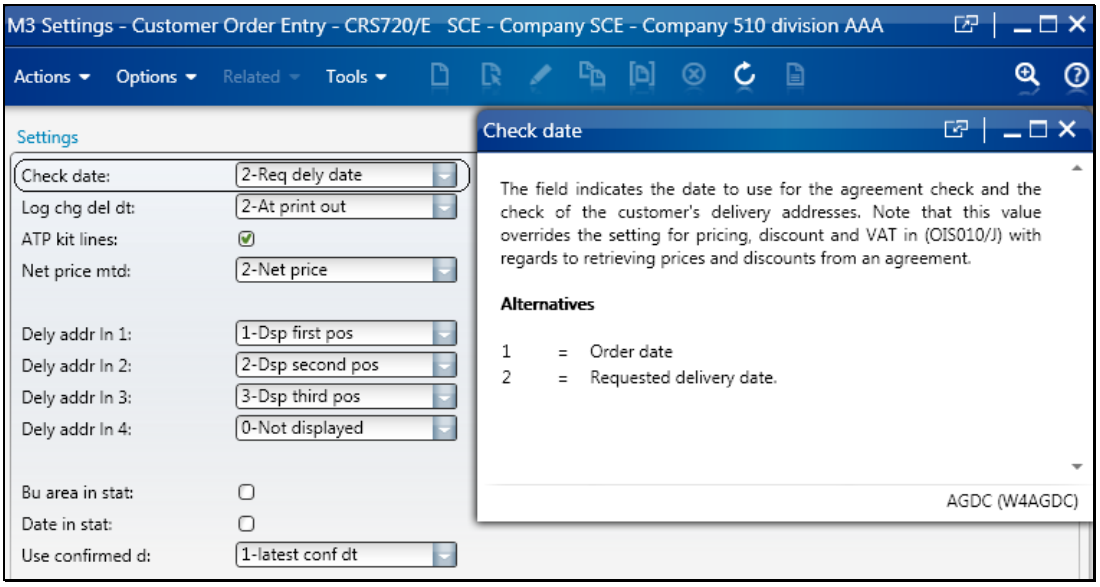
The framed parameters are relevant for the bulk order process. See standard documentation for customer blanket agreements.





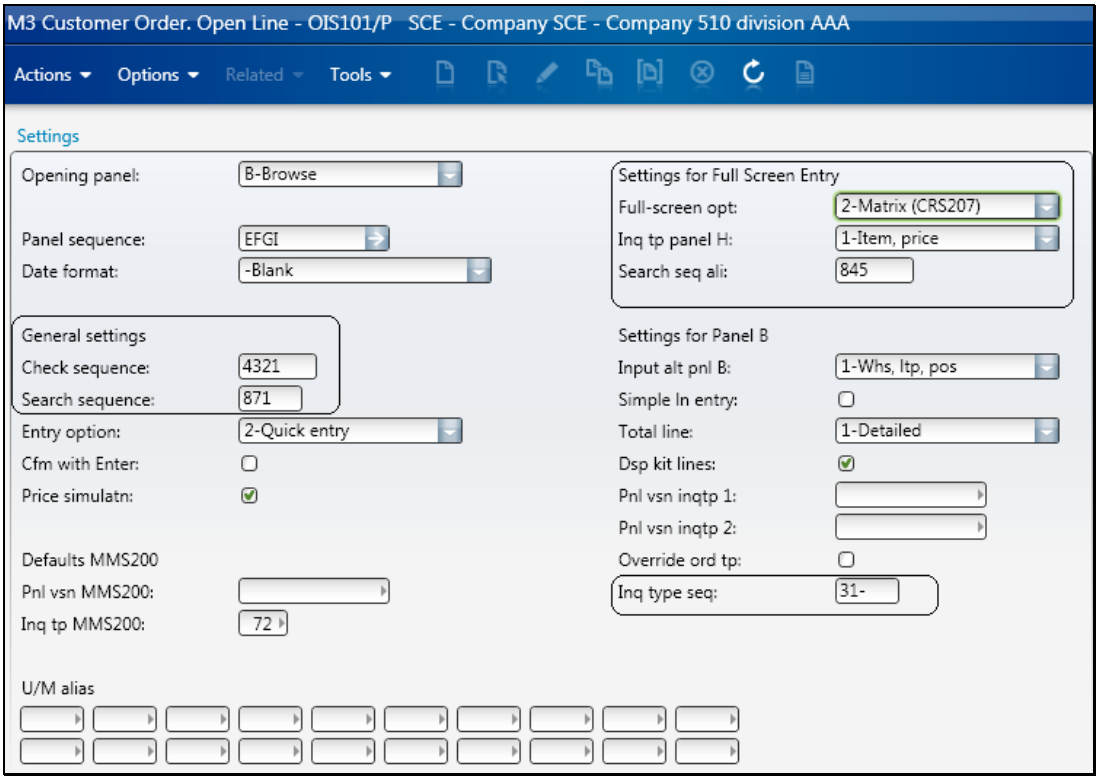
2.2.5 Customer order entry parameters (CRS720)

The framed parameters are relevant for the bulk order process. See standard documentation for customer blanket agreements.



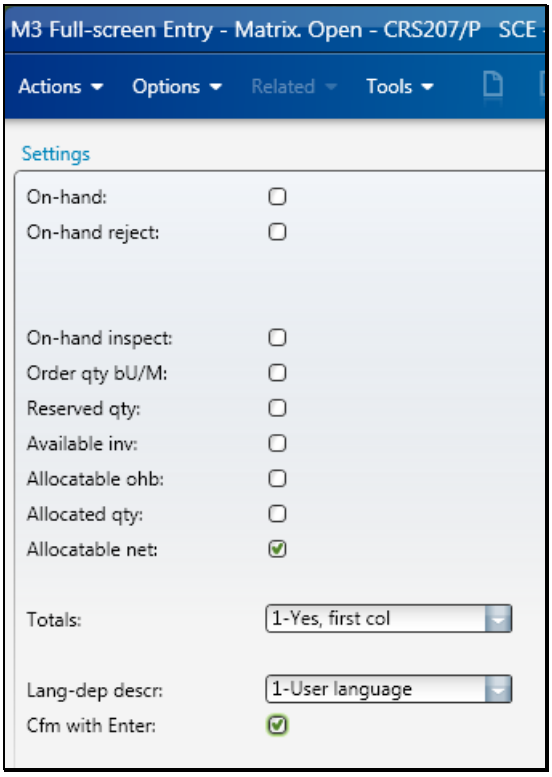
2.2.6 Customer order matrix entry settings (OIS101/P)

Settings to be able to enter customer orders in a matrix format (OIS101/P):



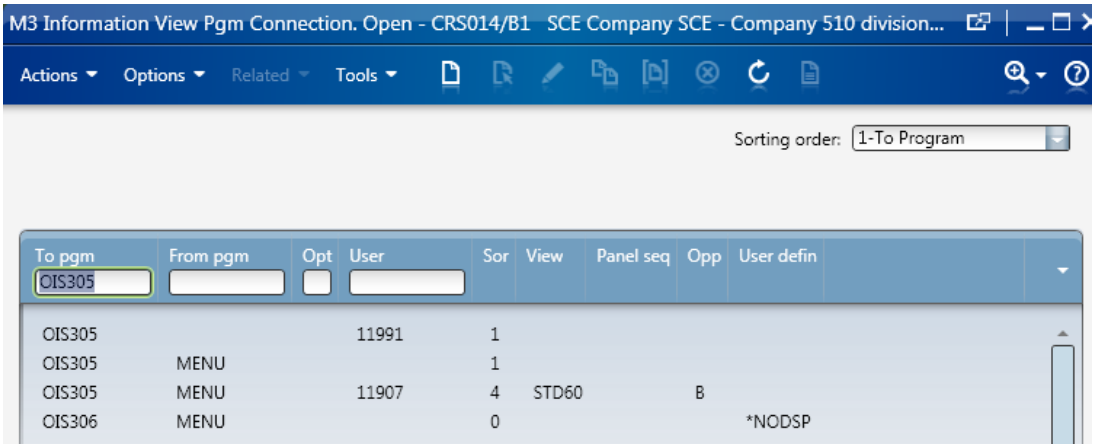
2.2.7 Settings to control the matrix format (CRS207/P)

Settings to be able to enter customer orders in a matrix format in CRS207:

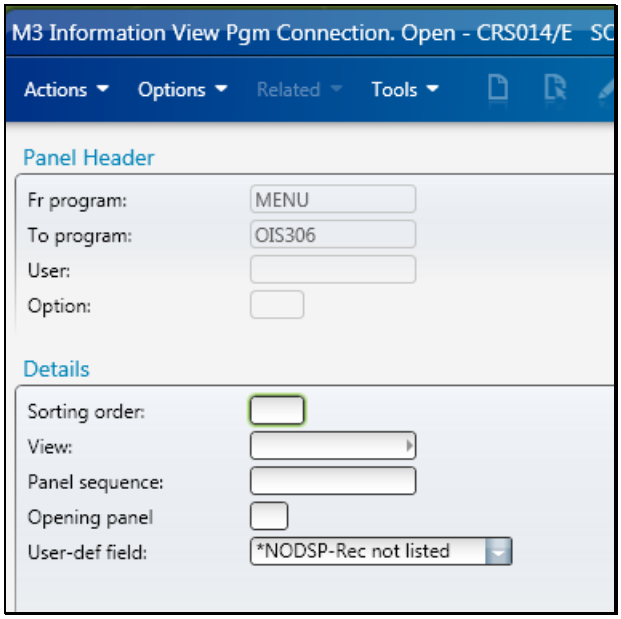


2.2.8 Start panel settings (CRS014)

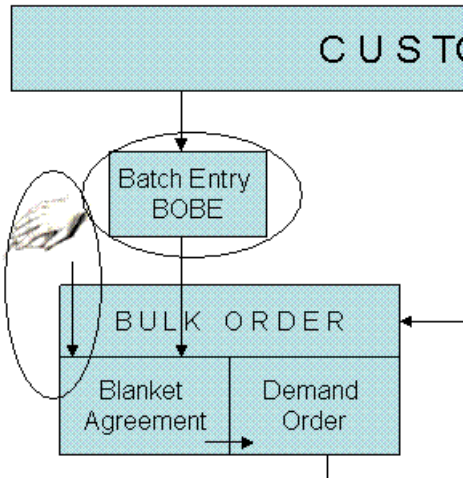
Settings for inquiry types and panel versions for the new programs OIS305, OIS306, OIS370, and OIS370 can be overruled in this program according to standard functionality.



It is recommended to set up the bulk order line toolbox, program OIS306, as below. The reason is to let OIS306 start up empty, allowing the user to make a selection before loading data.



3 Bulk order interfaces



3.1 Bulk order toolbox

The purpose of a bulk order toolbox program is to have a common entity for the different parts of a bulk order and to provide one program from which most bulk order related actions can be performed or reached.

This is one program from where you can reach:

- the bulk order lines
- the demand order
- the distro (customer order toolbox)
- the distro lines (customer order line toolbox)

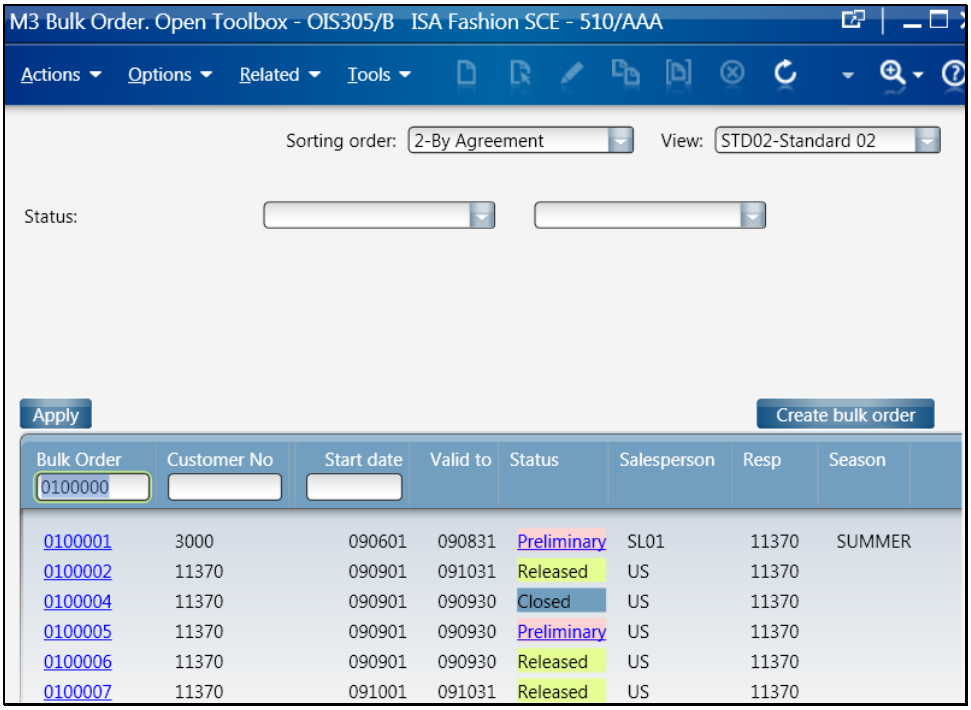
This is also a program from where you can

- create a new bulk order
- administer bulk order (release, change, delete, close)
- print bulk order confirmation
- print the history/consumption

The toolbox will act as a filter to the customer blanket agreements (normally displayed in OIS060), only displaying customer blanket agreements that are defined as bulk orders (setting on agreement type and on bulk order header).

3.1.1 New program OIS305 – Bulk order toolbox

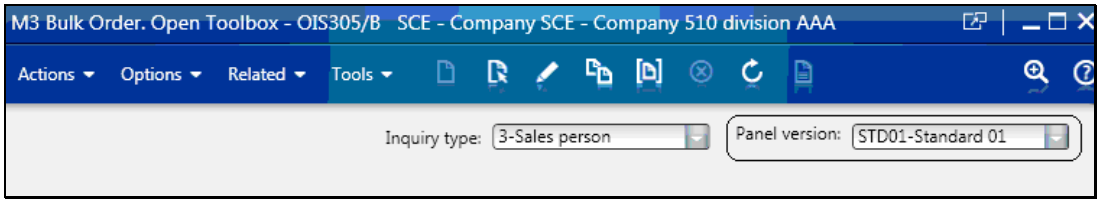
The bulk order toolbox has a layout similar to the customer order toolbox.



3.1.2 Panel version and inquiry type

Panel versions and inquiry types give good usability of the bulk order toolbox.

3.1.2.1 Panel versions



- **Field group OIPV5 added in CRS109**

Fields from table Blanket Agreement Header (OAGRHE) and Customer File (OCUSMA) are available.

Field ID	Field Name	From table
OKALCU	search key	Customer file
OKCUA1	address line 1	Customer file
OKCUA2	address line 2	Customer file
OKCUA3	address line 3	Customer file
OKCUA4	address line 4	Customer file
OKCUNM	name	Customer file
OKRESP	responsible	Customer file

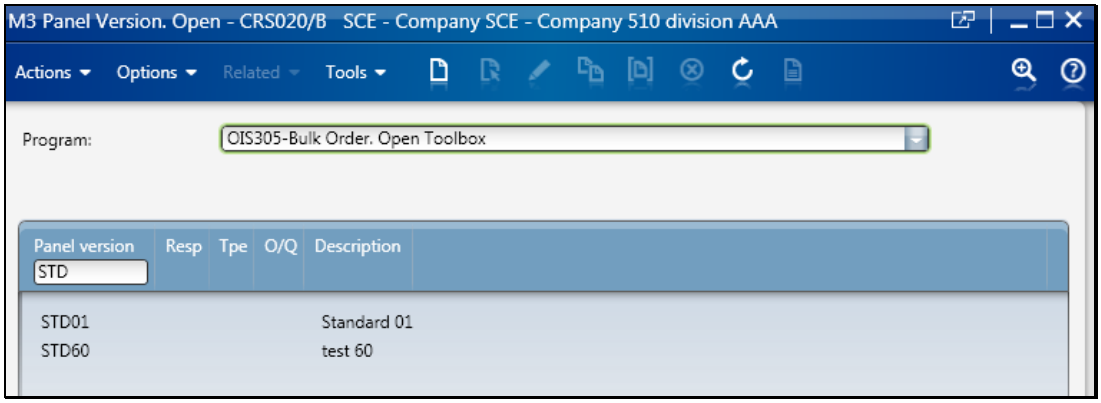
UYACGR	object access group	Blanket Agreement
UYAGCB	business chain agreement	Blanket Agreement
UYAGDT	blanket agreement date	Blanket Agreement
UYAGEC	quantity check	Blanket Agreement
UYAGHE	summed agreement quantity	Blanket Agreement
UYAGLN	sequence number	Blanket Agreement
UYAGNB	agreement number	Blanket Agreement
UYAGNO	blanket agreement number	Blanket Agreement
UYAGPD	agreed prices	Blanket Agreement
UYAGQT	agreed quantity	Blanket Agreement
UYAGST	status	Blanket Agreement
UYAGTP	agreement type	Blanket Agreement
UYCHID	changed by	Blanket Agreement
UYCHNO	change number	Blanket Agreement
UYCUCD	currency	Blanket Agreement
UYCUDT	customer's purchase order date	Blanket Agreement
UYCUNO	customer	Blanket Agreement
UYCUOR	customer's order number	Blanket Agreement
UYELNO	project element	Blanket Agreement
UYLIDT	last invoice date	Blanket Agreement
UYLMDT	change date	Blanket Agreement
UYLNCD	language	Blanket Agreement
UYLVDT	valid to	Blanket Agreement
UYNXAG	next blanket agreement	Blanket Agreement
UYOREF	our reference	Blanket Agreement
UYPRLC	price list customer number	Blanket Agreement
UYPROJ	project number	Blanket Agreement
UYPRRF	price list	Blanket Agreement
UYRESP	responsible	Blanket Agreement

UYRGDT	entry date	Blanket Agreement
UYRGTM	entry time	Blanket Agreement
UYSEAH	season in use	Blanket Agreement
UYSMCD	salesperson	Blanket Agreement
UYSPGR	superior groups	Blanket Agreement
UYSTDT	start date	Blanket Agreement
UYSUNO	supplier	Blanket Agreement
UYTX40	description	Blanket Agreement
UYUNIT	unit of measure	Blanket Agreement
UYYREF	your reference 1	Blanket Agreement

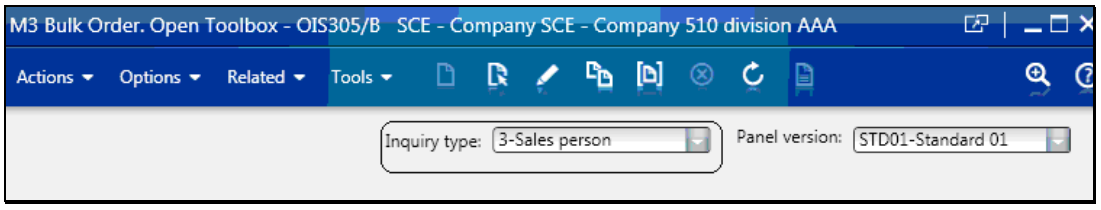
- **Panel versions are designed in CRS020**

The bulk order toolbox OIS305 has been added as program in CRS020, enabling the creation of panel versions.

Fields from **field group OIPV5** (above) are available.

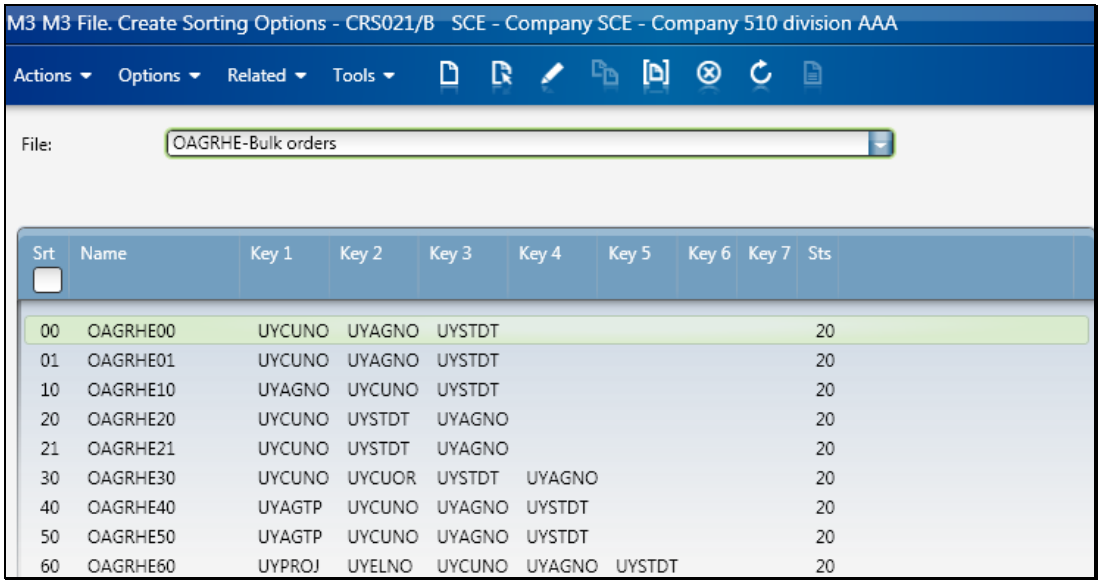


3.1.2.2 Inquiry type



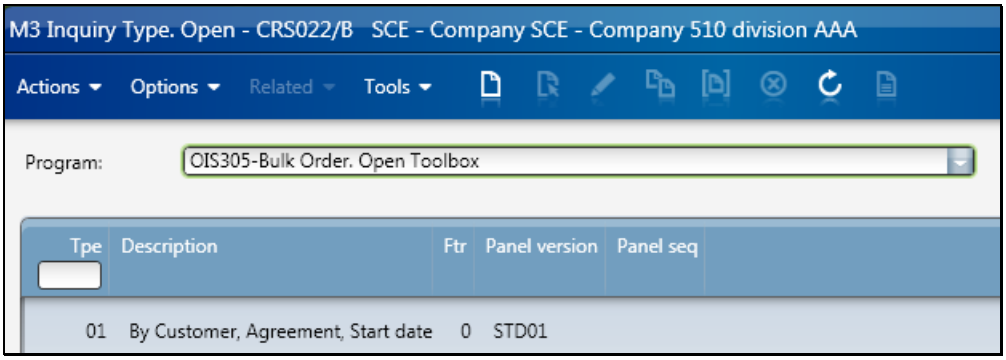
- **Sorting options defined in CRS021**

The Blanket Agreement Header table (OAGRHE) has been added as available file to enable sorting options in the bulk order toolbox.



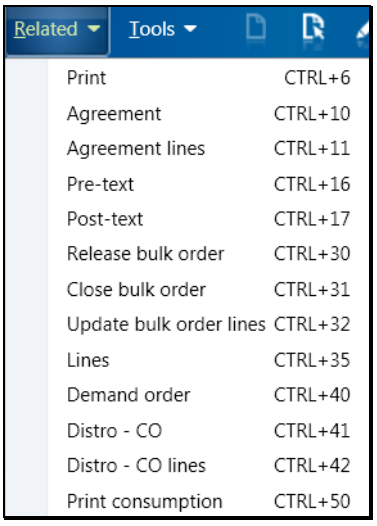
- **The inquiry types are user designed in CRS022.**

The toolbox program OIS305 has been enabled for creation of inquiry types.



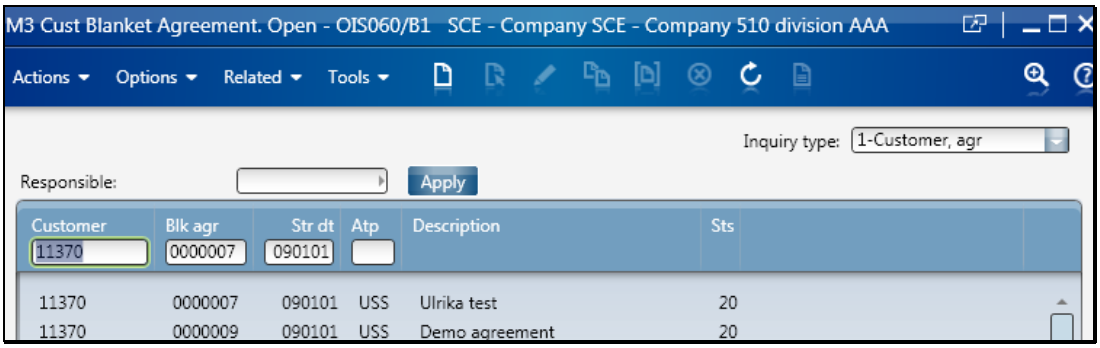
3.1.3 Related options in the bulk order toolbox

Related options are available in the bulk order toolbox (OIS305) to enable opening of related programs for a specific bulk order.



Option 6 will print the bulk order confirmation document, OIS631PF. See chapter 10.

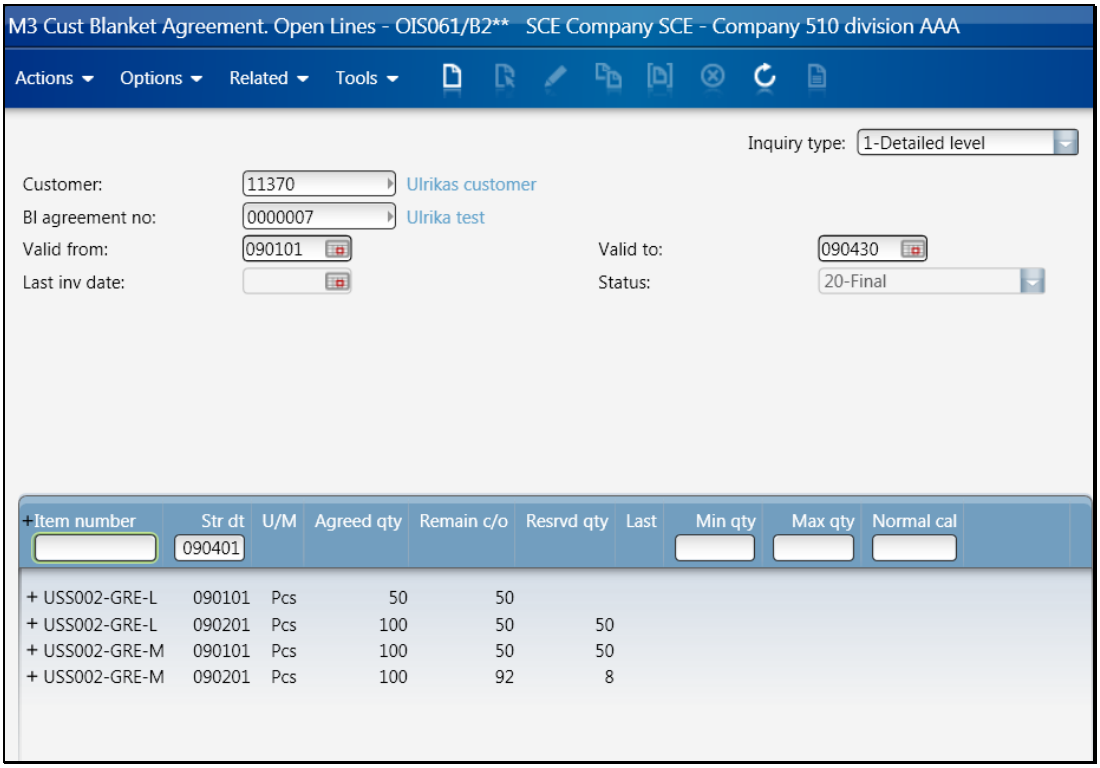
Option 10 will take the user to the customer blanket agreement for the selected bulk order, program OIS060.



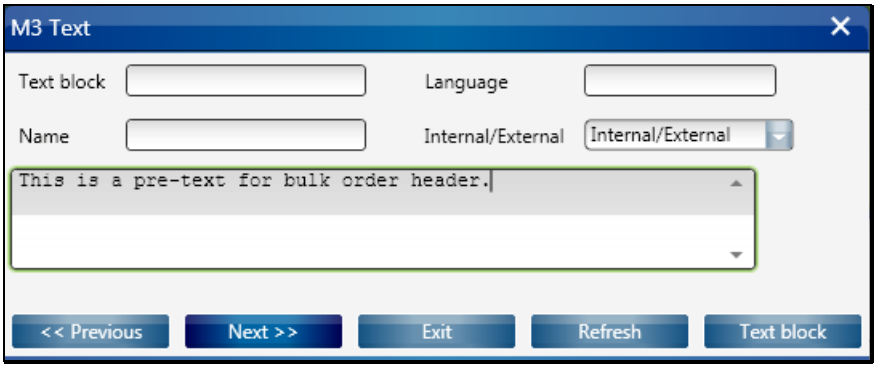
Warnings are given when trying to change or create a bulk order from OIS060, as bulk orders should be maintained from OIS305. In OIS060 all customer blanket agreements are visible, following standard functionality.

Note that there is no reason to work with OIS060 for bulk orders, this program should only be used for other types of agreements.

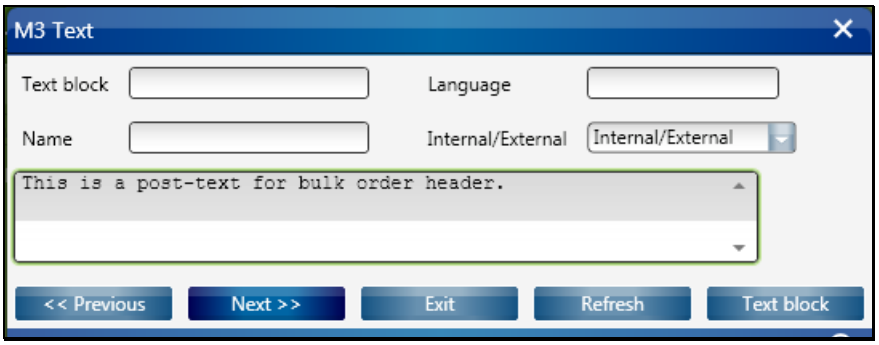
Option 11 will take the user to the customer blanket agreement lines for the selected bulk order, program OIS061.



Option 16 will take the user to the selected agreement pre-texts.



Option 17 will take the user to the selected agreement post texts.



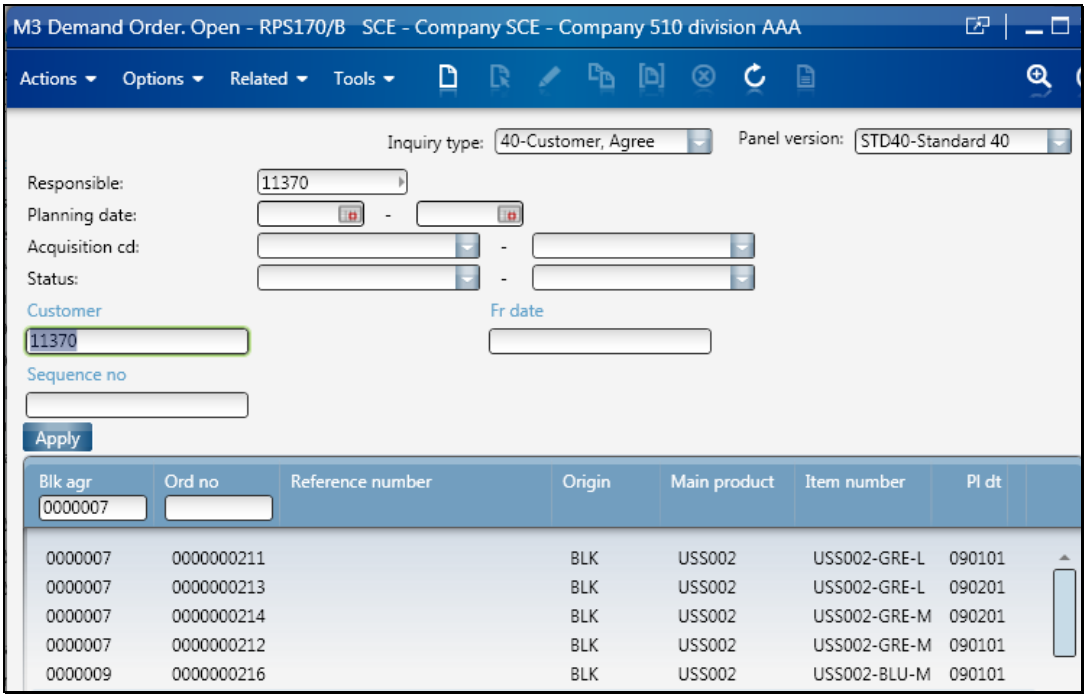
Option 30 will raise the bulk order status to 20, meaning that the bulk order is released. Demand order and acquisition orders will be created. Distros can consume the bulk order.

Option 31 will raise the bulk order status to 80, meaning that the bulk order is closed and no longer valid. Demand orders will be closed and the bulk order can no longer be consumed by distros.

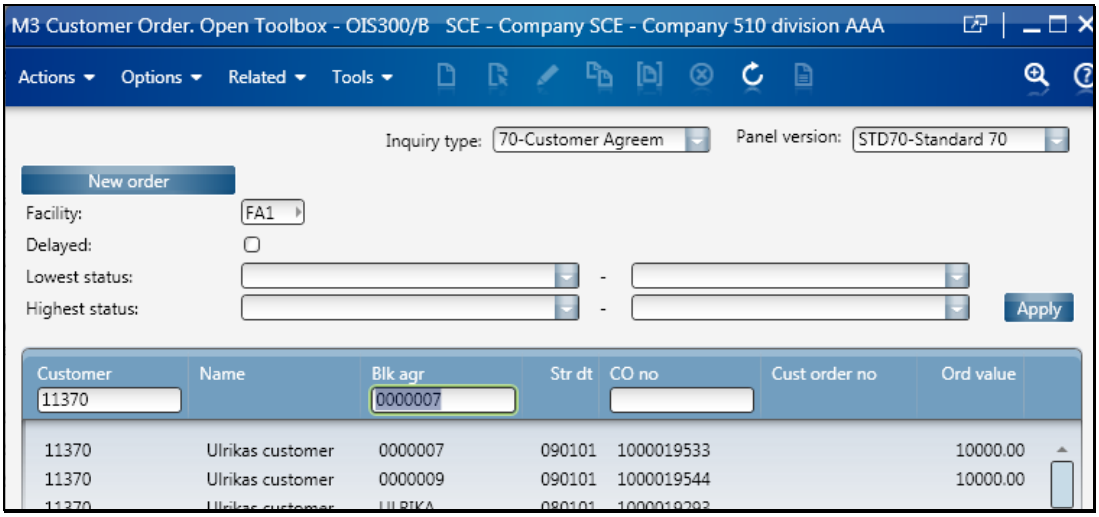
Option 32 will take the user to an update program (OIS307) where the user can update the agreed quantity and/or the line valid to date on a selection of bulk order lines. The update action (change of agreed quantity or line valid to date) is performed with F14.

Option 35 will take the user to the bulk order line toolbox (OIS306). The bulk order will be defaulted.

Option 40 will take the user to the demand order for the selected bulk order, program RPS170.

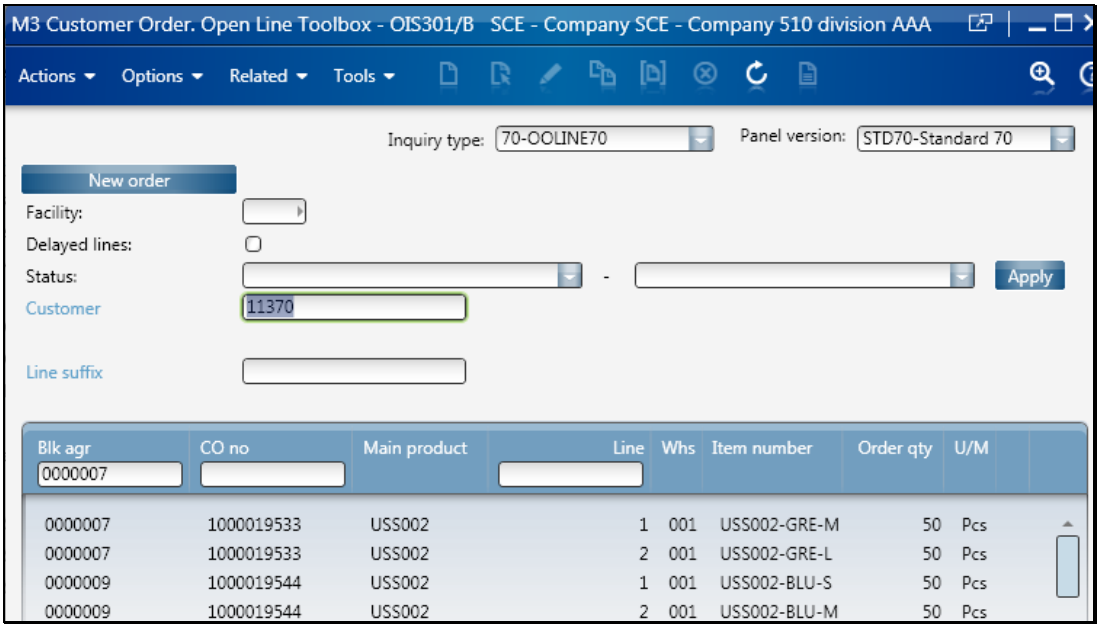


Option 41 will take the user to the distro (call-off) for the selected bulk order, program OIS300.



Note that it is not a requirement for the process to have a bulk order on the distro (call-off) header.

Option 42 will take the user to the distro (call-off) lines for the selected bulk order, program OIS301.



Option 50 will print the consumption of the bulk order, document OIS516PF. This is a standard document, no changes have been made to cover bulk order functionality.

3.2 Bulk order line toolbox

The purpose of a bulk order line toolbox program is to have a flexible program for administration and follow-up. With the standard toolbox concept several related options will enable the use of related programs. The table displayed is OAGRLN, which is the table used from OIS061 (customer blanket agreement lines).

Aggregated views have been implemented to enable the possibility to do a follow up on an aggregated level (for example style level or style and color level), and drill down to a detailed level (SKU level).

This is one program from where you can reach:

- Aggregated lines — program OIS306/K
- Order line consumption — program OIS065
- Demand order — program RPS170
- Supply chain order — program MWS150
- Material plan — program MMS080 and MMS192 for aggr level
- Distro lines — program OIS301

This is also a program in which you can

- view the history/consumption

  This is enabled using the quantities from the distro in the panel version. Reserved qty, allocated qty, delivered qty and invoiced qty. From the agreement you can display the agreed qty and the originally agreed qty

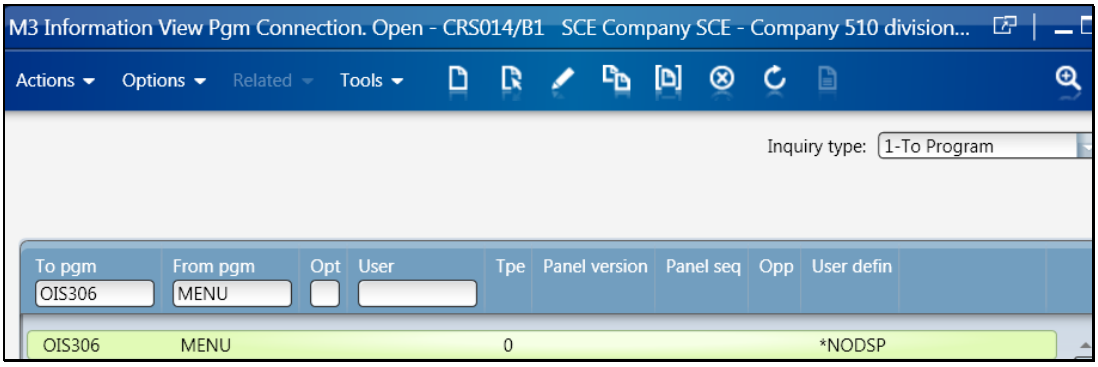
(equals the agreed quantity at the time when the agreement was released to status 20 and this cannot be changed).

- view the guide price

A guide price is defined as ***the most likely price to get if entering a distro of 1 pcs, no discounts considered***. On the agreement type (OIS063) a parameter has been added to control from where and in which order the guide price should be calculated.

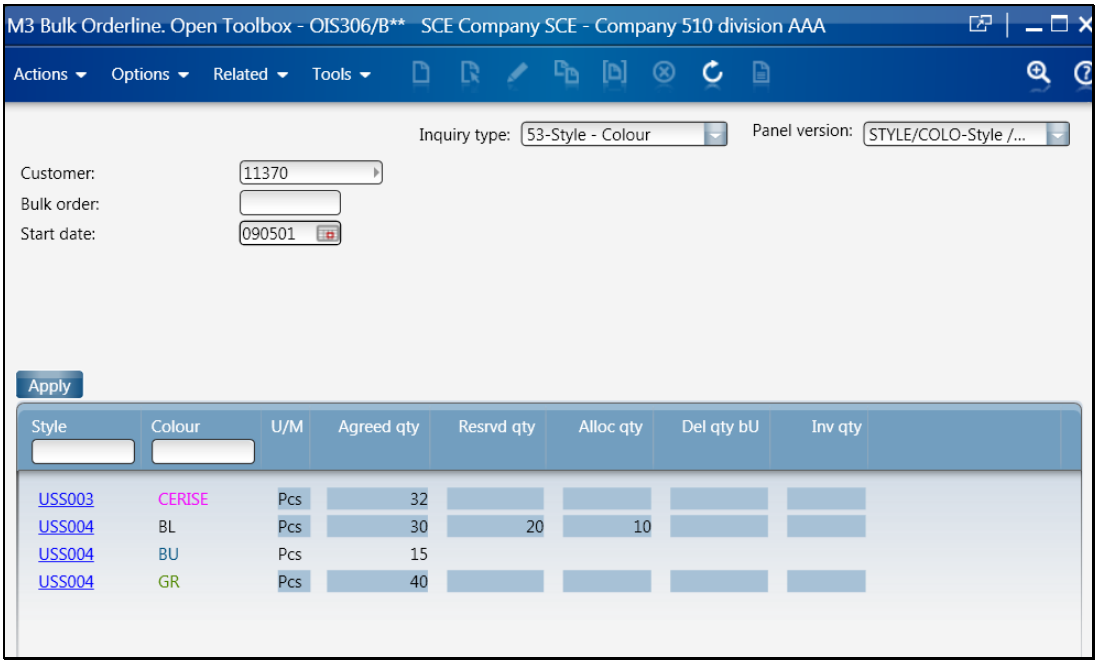
The toolbox will act as a filter to the customer blanket agreement lines, only displaying customer blanket agreement lines that are defined as bulk orders (setting on agreement type).

It is recommended that the program is empty when it is started. This is to improve performance and allow the user to make selections before loading data. Pressing refresh (F5) will load data to the toolbox. The setting that enables this is found in CRS014.



3.2.1 New program OIS306 – Bulk order line toolbox

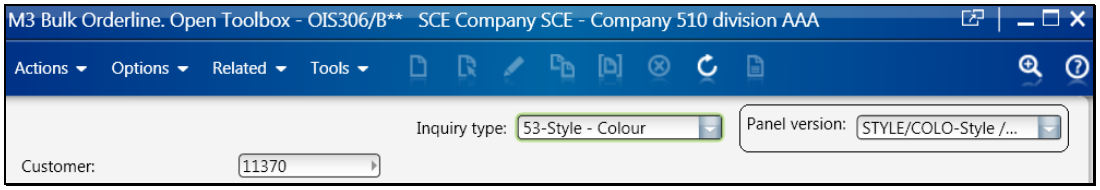
The bulk order line toolbox line has a layout similar to the customer order line toolbox.



3.2.2 Panel version and inquiry type

Panel versions and inquiry types give good usability of the bulk order line toolbox.

3.2.2.1 Panel versions



- **Field group OIPV7 added in CRS109**

Fields from table Blanket Agreement Line (OAGRLN), Customer Order Line Agreement References (OOLIAR) and Blanket Agreement Header (OAGRHE) are available.

Field	Description	File
&ALQT	allocated quantity - basic U/M	
&GUPR	Guide price	
UWAGCB	business chain agreement	Bulk Order line
UWAGLN	sequence number	Bulk Order line
UWAGNB	agreement number	Bulk Order line
UWAGNO	blanket agreement number	Bulk Order line

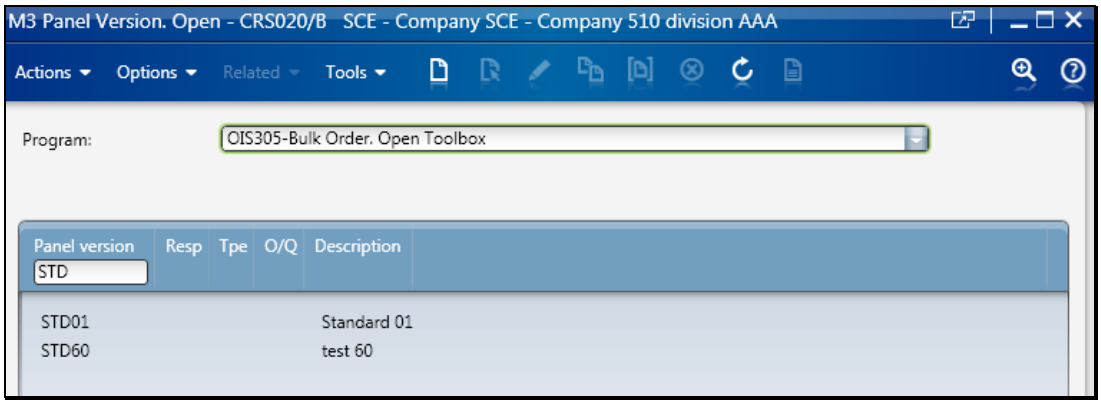
UWAGPD	agreed prices	Bulk Order line
UWAGQT	agreed quantity	Bulk Order line
UWAGST	status	Bulk Order line
UWBNCD	bonus generating	Bulk Order line
UWCHID	changed by	Bulk Order line
UWCHNO	change number	Bulk Order line
UWCOFA	conversion factor	Bulk Order line
UWCOFS	conversion factor - sales price U/M	Bulk Order line
UWCUCD	currency	Bulk Order line
UWCUNO	customer	Bulk Order line
UWD2QT	minimum quantity	Bulk Order line
UWD3QT	maximum quantity	Bulk Order line
UWDMCF	conversion form	Bulk Order line
UWDMCS	conversion method - sales price U/M	Bulk Order line
UWFDAT	from date	Bulk Order line
UWGENE	generic	Bulk Order line
UWHDPR	main product	Bulk Order line
UWKPCD	kit/charge printout	Bulk Order line
UWLAMI	minimum line amount	Bulk Order line
UWLIDT	last invoice date	Bulk Order line
UWLMDT	change date	Bulk Order line
UWLVDT	valid to	Bulk Order line
UWNAQT	normal call-off quantity	Bulk Order line
UWNTCD	net price used	Bulk Order line
UWOBV1	start value 1	Bulk Order line
UWOBV2	start value 2	Bulk Order line
UWOBV3	start value 3	Bulk Order line
UWOBV4	start value 4	Bulk Order line
UWOPTX	X-option	Bulk Order line
UWOPTY	Y-option	Bulk Order line
UWORGC	original currency	Bulk Order line
UWORGP	original price list	Bulk Order line
UWORGQ	original quantity	Bulk Order line
UWORGU	original U/M	Bulk Order line
UWPCOF	price adjustment factor	Bulk Order line
UWPLDT	planning date	Bulk Order line
UWPRAC	commission generating	Bulk Order line

UWPREX	priority	Bulk Order line
UWPRLC	price list customer number	Bulk Order line
UWPRRF	price list	Bulk Order line
UWRGDT	entry date	Bulk Order line
UWRGTM	entry time	Bulk Order line
UWSPGR	superior groups	Bulk Order line
UWSPUN	sales price unit of measure	Bulk Order line
UWSTDT	start date	Bulk Order line
UWSUNO	supplier	Bulk Order line
UWTINC	VAT included	Bulk Order line
UWUNIT	unit of measure	Bulk Order line
UWVTCD	VAT code	Bulk Order line
UXDLQT	delivered quantity - basic U/M	Customer agreem
UXIVQT	invoiced quantity - basic U/M	Customer agreem
UXREQT	reserved quantity	Customer agreem
UYPROJ	project number	Customer agreem

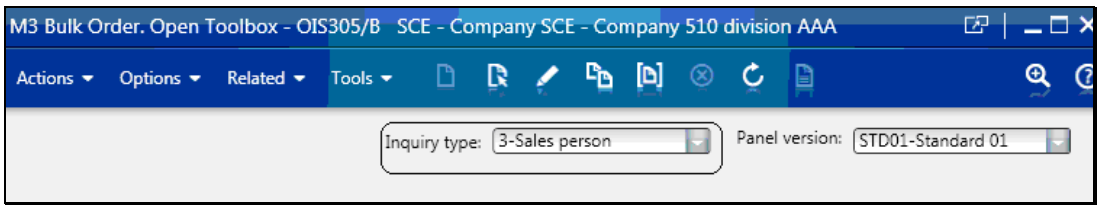
- **Panel versions are designed in CRS020**

The bulk order toolbox OIS306 has been added as program in CRS020, enabling the creation of panel versions.

Fields from **field group OIPV7** (above) are available.

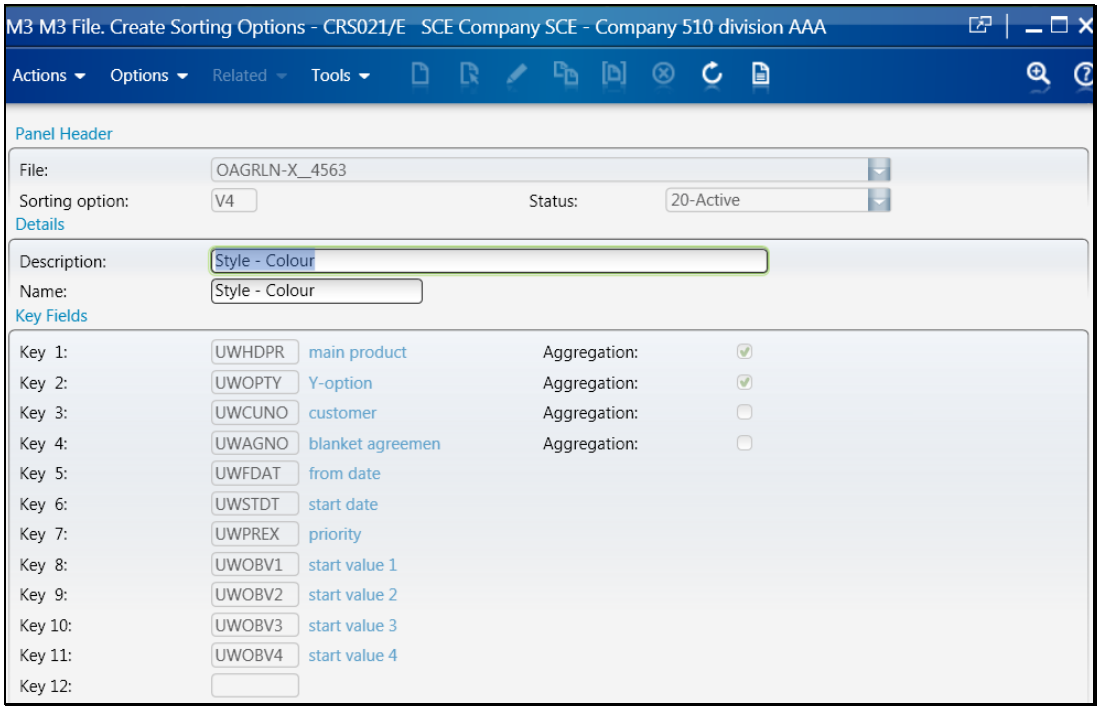


3.2.2.2 Inquiry type



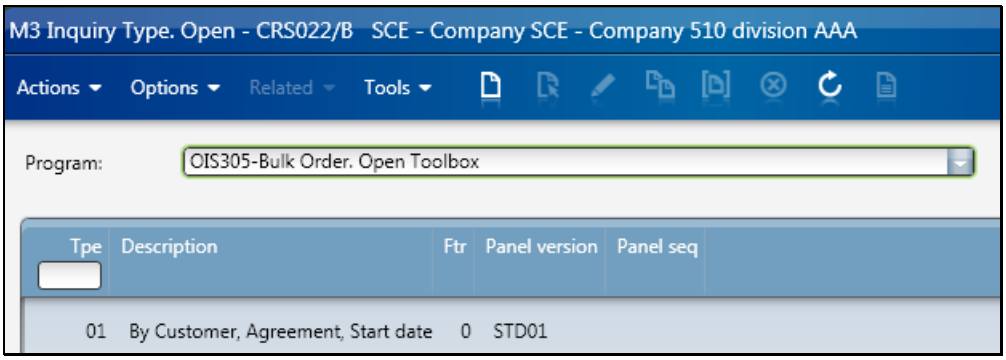
- **Sorting options defined in CRS021**

  The Blanket Agreement Line table (OAGRLN) has been added as available file to enable sorting options in the bulk order line toolbox. Aggregated levels can be used.



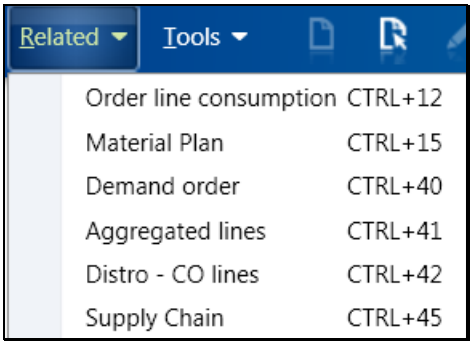
- **The inquiry types are user designed in CRS022.**

The toolbox program OIS305 has been enabled for creation of inquiry types.



3.2.3 Related options in the bulk order line toolbox

Related options are available in the bulk order line toolbox (OIS306) to enable opening of related programs for a specific bulk order.



Option 12 will take the user to the distro consumption of the selected bulk order, program OIS065. In this program you have the possibility to change the distro allocations to the bulk order.

This option is only available for detailed transactions, not for aggregated levels.

Option 15 will take the user to the material plan for the selected stock item, program MMS080.

For aggregated levels this option will take the user to Material plan per alias number, MMS192. In this development phase alias category 88 (style) will be defaulted, no logic implemented to find other aggregation levels such as style-color.

Option 40 will take the user to the demand order for the selected bulk order, program RPS170.

This option is only available for detailed transactions, not for aggregated levels.

Option 41 will take the user to the aggregated lines for the selected bulk order, program OIS306 panel K.

This option is only available for aggregated levels.

This option is documented in 4.2.4 below.

Option 42 will take the user to the customer order line toolbox for the selected bulk order, program OIS301.

This option is only available for detailed transactions, not for aggregated levels.

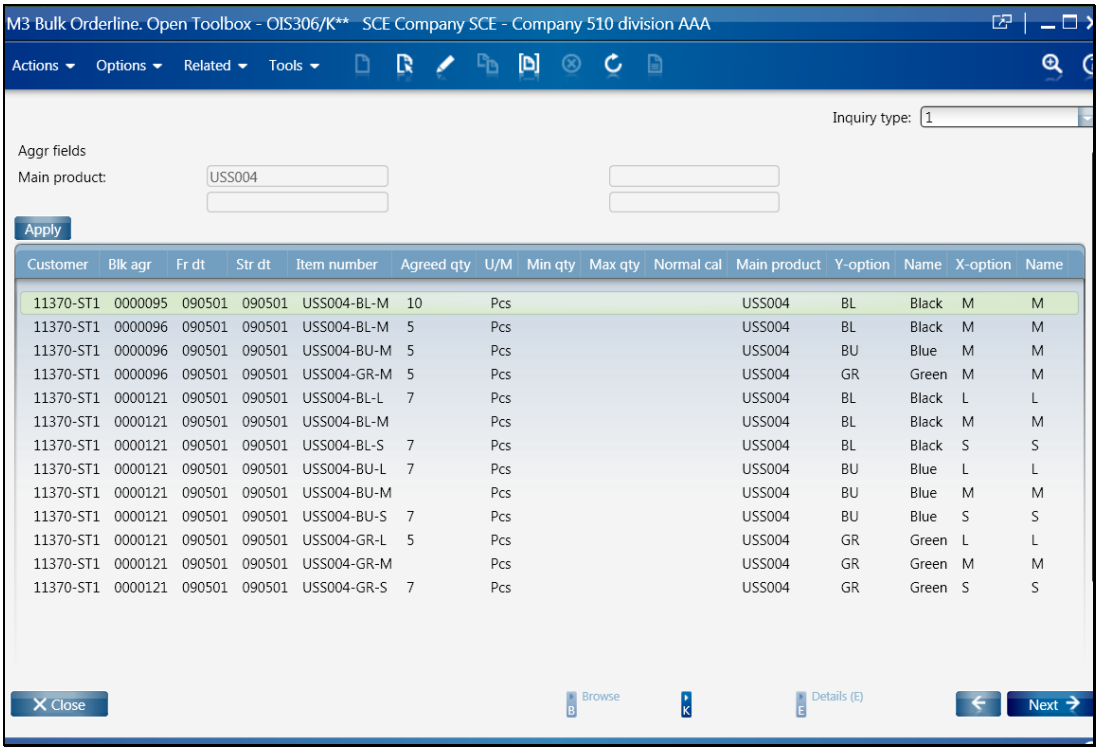
Option 45 will take the user to the supply chain order for the selected bulk order, program MWS150.

This option is only available for detailed transactions, not for aggregated levels.

3.2.4 Aggregated lines

For an aggregated level only option 41 is available, taking you to the OIS306 K-panel. This panel displays the detailed transactions for the aggregated level selected.

A user defined panel version defined in CRS020 for program OIS306 is used. The first time you enter the program, the panel version is blank and some fields are displayed as a default. Select a panel version that displays the information you are interested in seeing. Thereafter the latest used panel version in the K-panel will be displayed – and it can be changed.

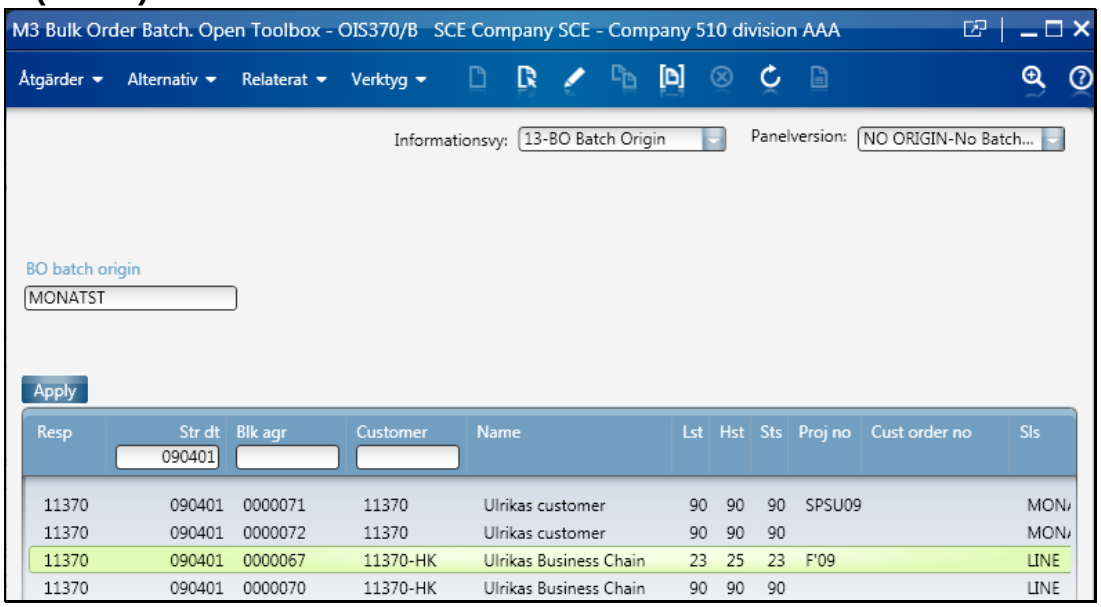


3.3 Bulk order batch entry toolbox (BOBE)

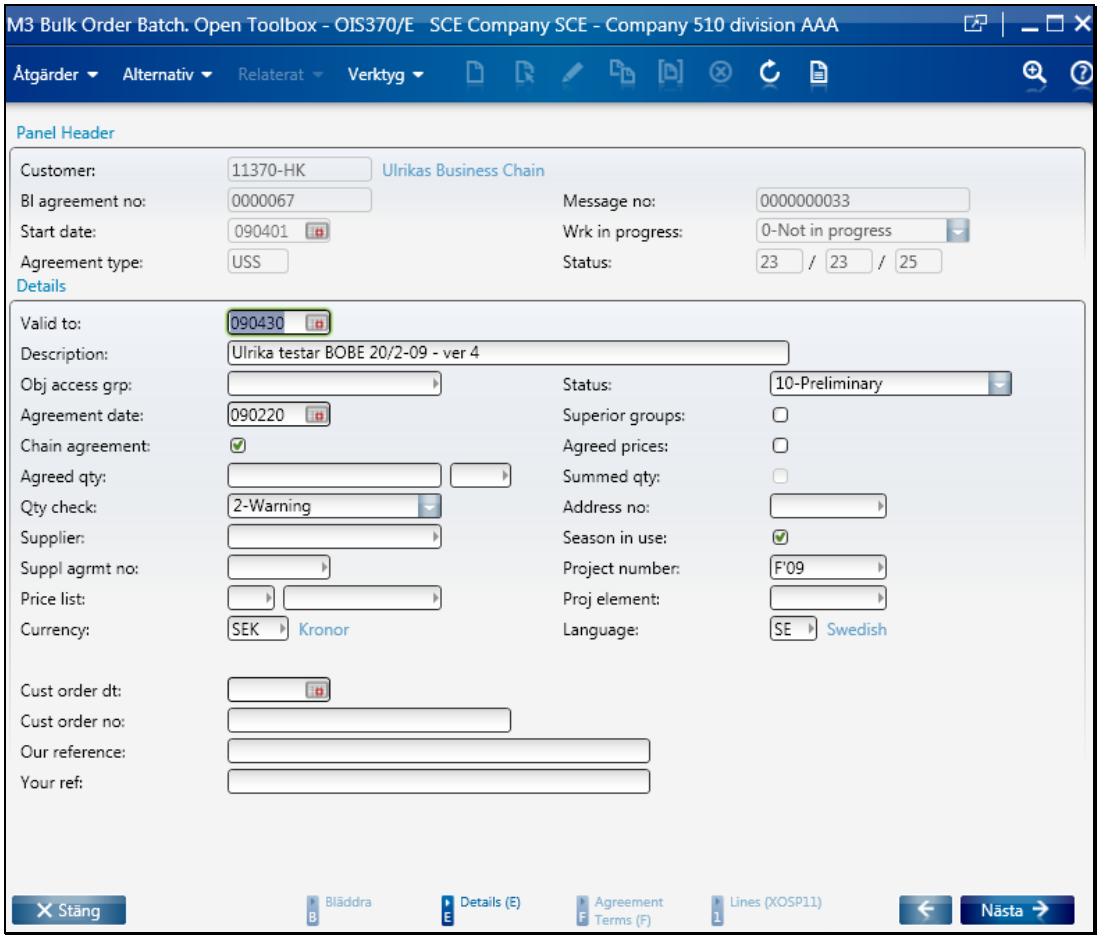
The purpose of a bulk order batch entry is to have a controlled entry of bulk orders in to M3 BE. Bulk orders are sent from another system, internal or external, and all data is validated before the bulk order is created. The temporary bulk orders are saved in the new tables OXGRHE and OXGRLN. These tables are used in the bulk order batch entry toolbox, also called BOBE.

Inquiry types and panel versions have been created to enable the possibility to easily search for data in the way the user wants to.

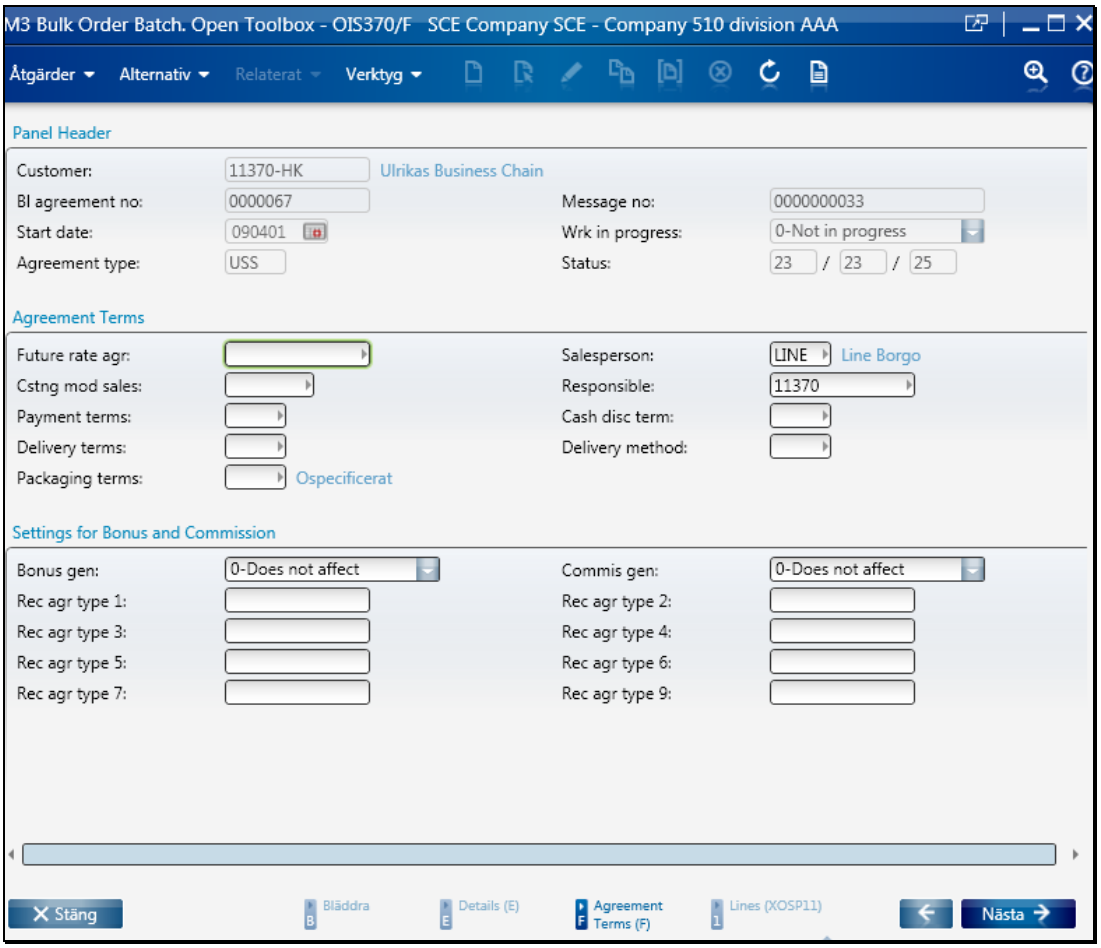
3.3.1 New program OIS370 – Bulk order batch entry toolbox (BOBE)



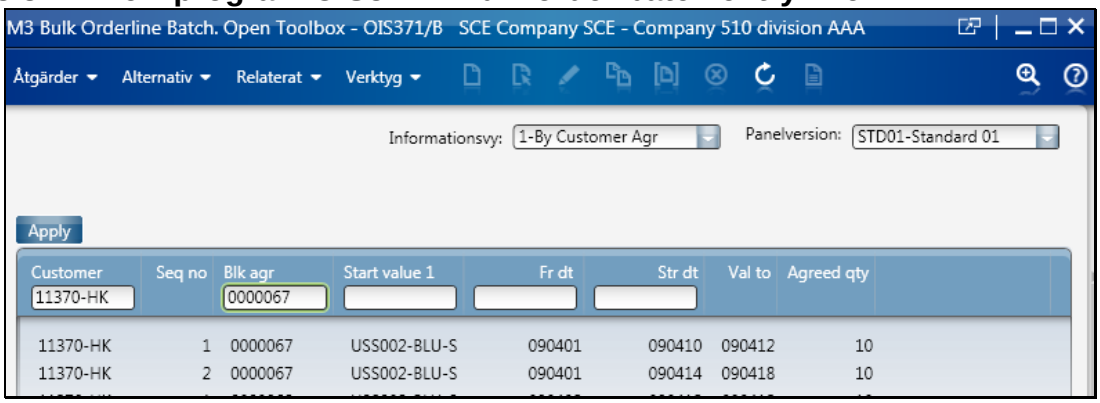
- **New panel OIS370/E**



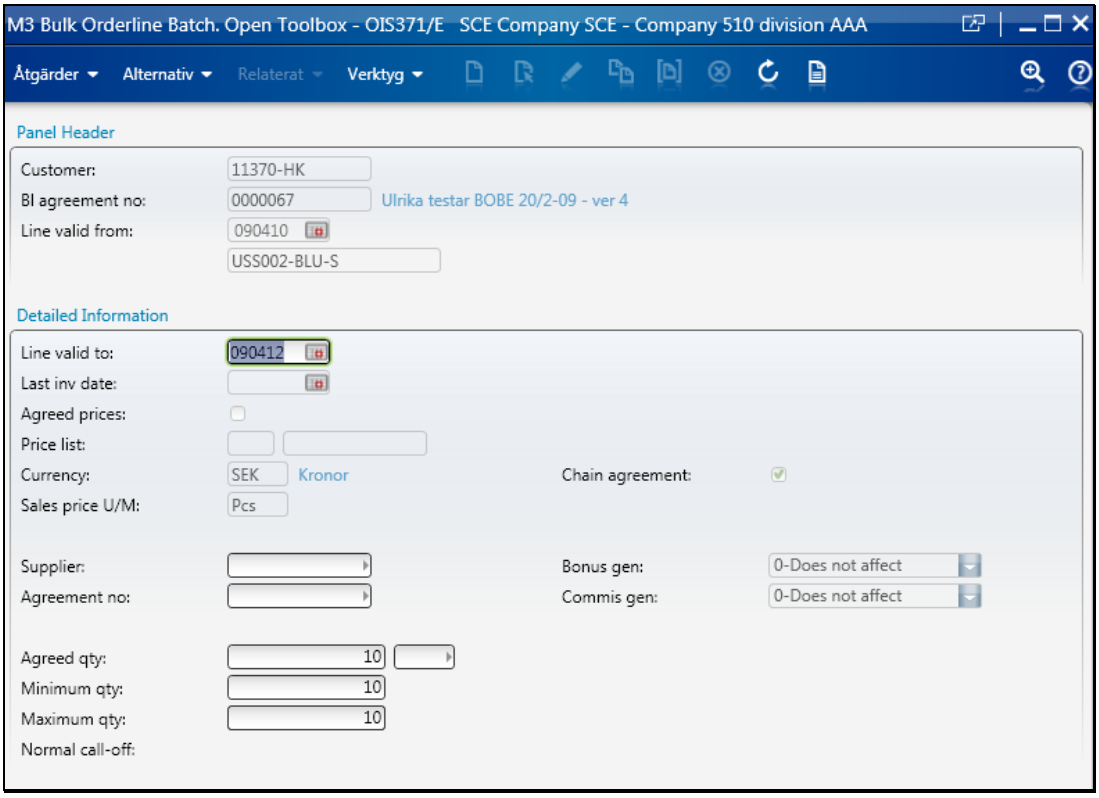
- **New panel OIS370/F**



3.3.2 New program OIS371 – Bulk order batch entry line



- **New panel OIS371/E**

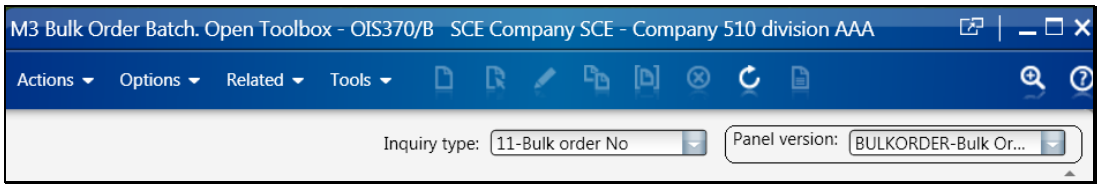


3.3.3 Panel version and inquiry type

Panel versions and inquiry types are developed to give good usability of the bulk order batch entry toolbox.

3.3.3.1 Panel versions

The bulk order toolbox is enabled for creating panel versions.



- **Field group OIKV6 added in CRS109**

Available fields from table = OXGRHE.

Field	Description	File
UYACGR	object access group	Blanket Agreement
UYAGCB	business chain agreement	Blanket Agreement
UYAGNB	agreement number	Blanket Agreement
UYAGNO	blanket agreement number	Blanket Agreement

UYAGPD	agreed prices	Blanket Agreement
UYAGST	Status	Blanket Agreement
UYAGTP	agreement type	Blanket Agreement
UYBABU	bulk order batch origin	Blanket Agreement
UYCUCD	Currency	Blanket Agreement
UYCUDT	customer's purchase order date	Blanket Agreement
UYCUNO	Customer	Blanket Agreement
UYCUOR	customer's order number	Blanket Agreement
UYELNO	project element	Blanket Agreement
UYLVDT	valid to	Blanket Agreement
UYMSGN	message number	Blanket Agreement
UYOREF	our reference	Blanket Agreement
UYPROJ	project number	Blanket Agreement
UYPRRF	price list	Blanket Agreement
UYRESP	Responsible	Blanket Agreement
UYSEAH	season in use	Blanket Agreement
UYSMCD	Salesperson	Blanket Agreement
UYSTAT	Status	Blanket Agreement
UYSTDT	start date	Blanket Agreement
UYSTHI	highest status	Blanket Agreement
UYSTLO	lowest status	Blanket Agreement
UYSUNO	Supplier	Blanket Agreement
UYTX40	Description	Blanket Agreement
UYYREF	your reference 1	Blanket Agreement

- **Field group OIKV8 added in CRS109**

Available fields from table = OXGRLN.

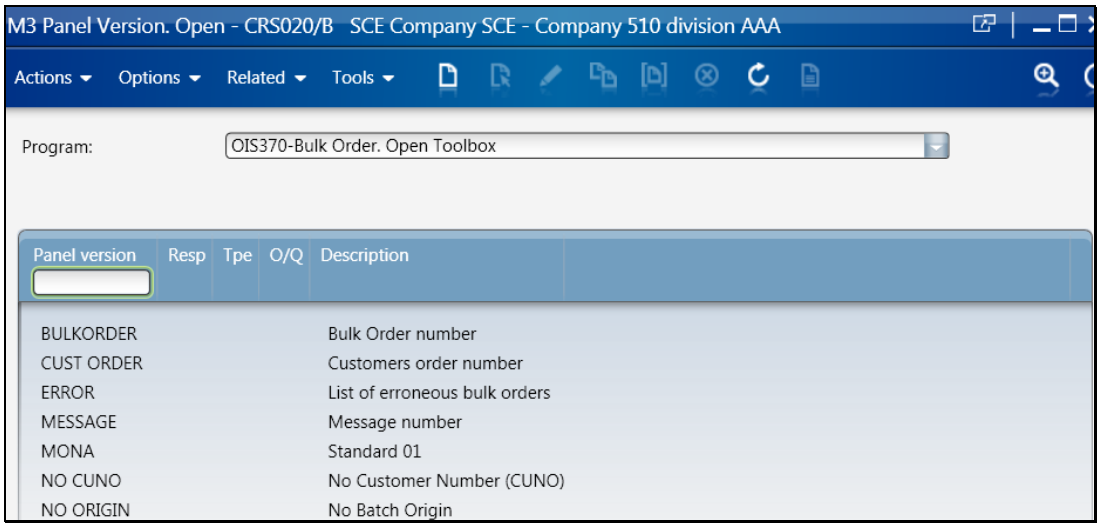
Field	**Description**	**File**
UWAGLN	sequence number	Bulk Order line
UWAGNB	agreement number	Bulk Order line
UWAGNO	blanket agreement number	Bulk Order line
UWCUNO	Customer	Bulk Order line
UWFDAT	from date	Bulk Order line
UWGENE	Generic	Bulk Order line
UWLVDT	valid to	Bulk Order line
UWOBV1	start value 1	Bulk Order line
UWOBV2	start value 2	Bulk Order line

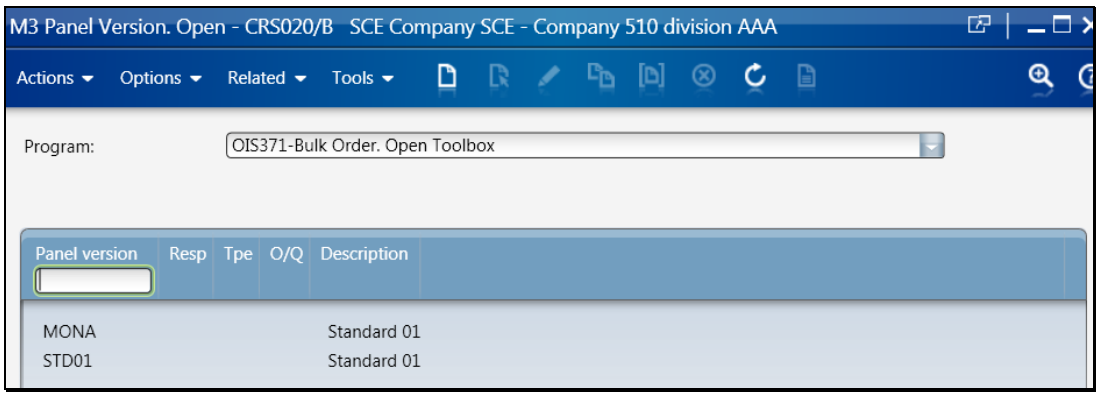
UWOBV3	start value 3	Bulk Order line
UWOBV4	start value 4	Bulk Order line
UWPREX	priority	Bulk Order line
UWSPGR	superior groups	Bulk Order line
UWSTAT	status	Bulk Order line
UWSTDT	start date	Bulk Order line
UWSUNO	supplier	Bulk Order line

- **Panel versions are user designed in CRS020.**

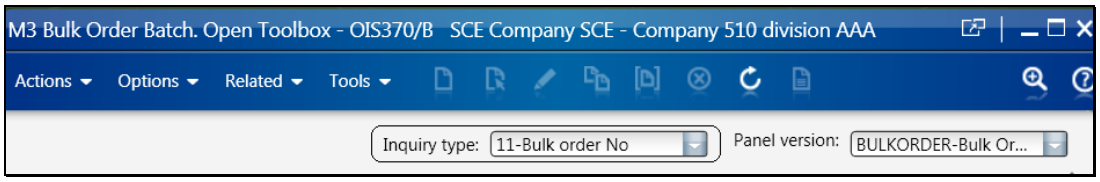
OIS370 andOIS371 have been added as program in CRS020.

Available fields from **field group OIKV6** (OIS370) and **field group OIKV8** (OIS371).



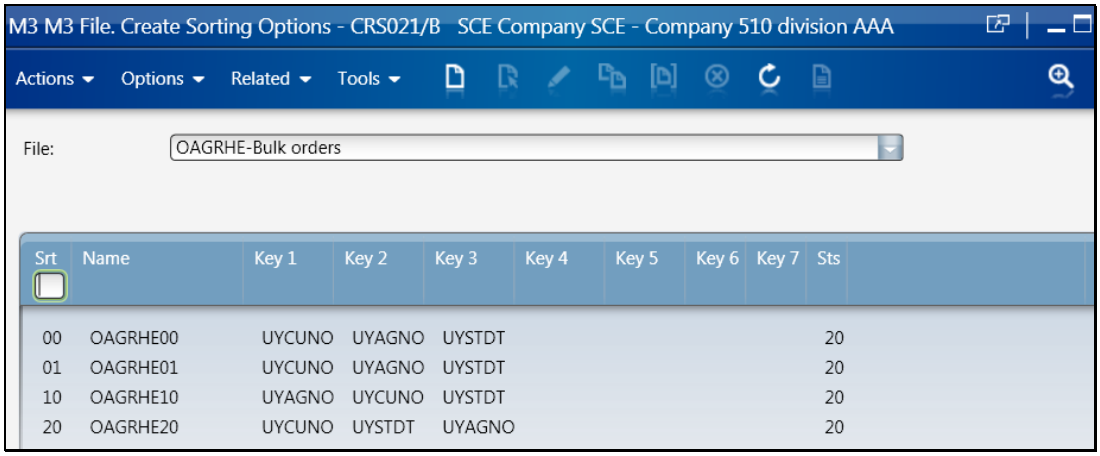


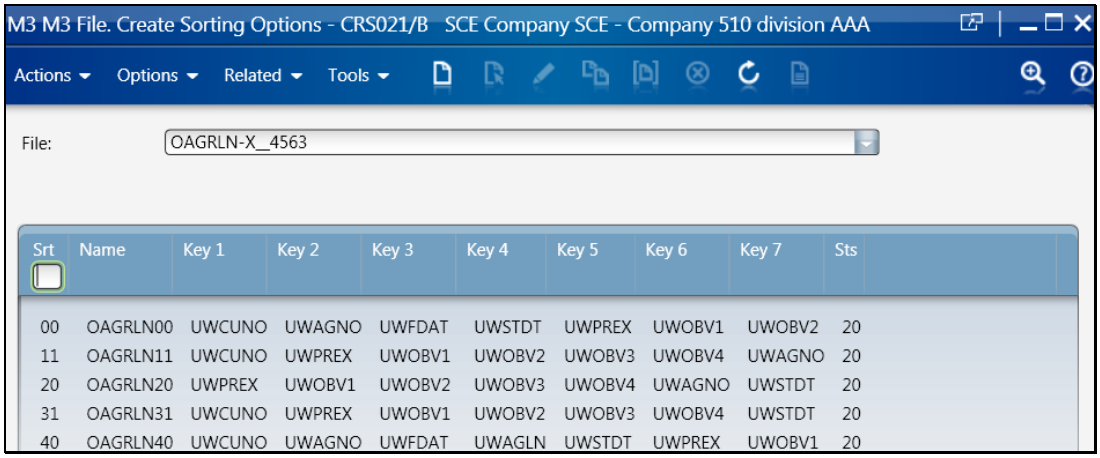
3.3.3.2 Inquiry type



- **Sorting options defined in CRS021**

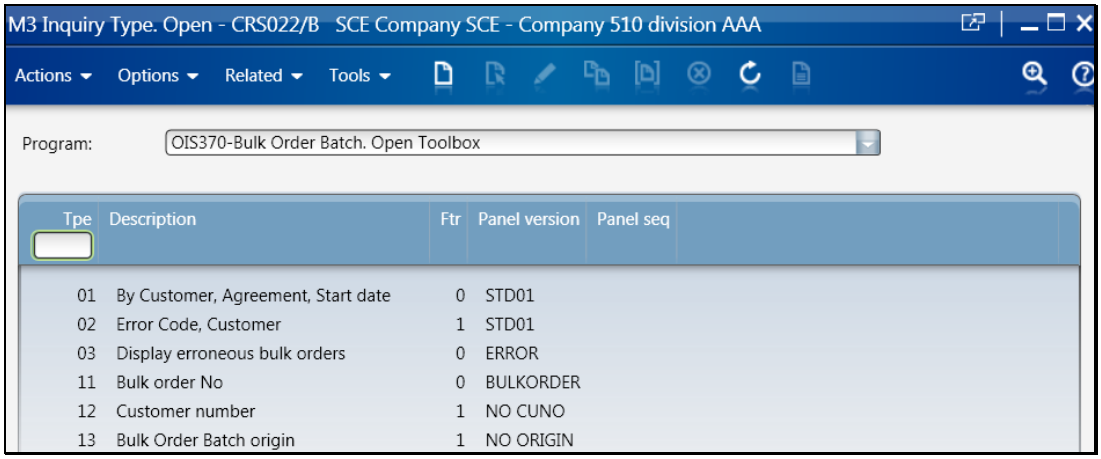
The new tables OXGRHE and OXGRLN have been added as files to enable sorting options for the toolbox.

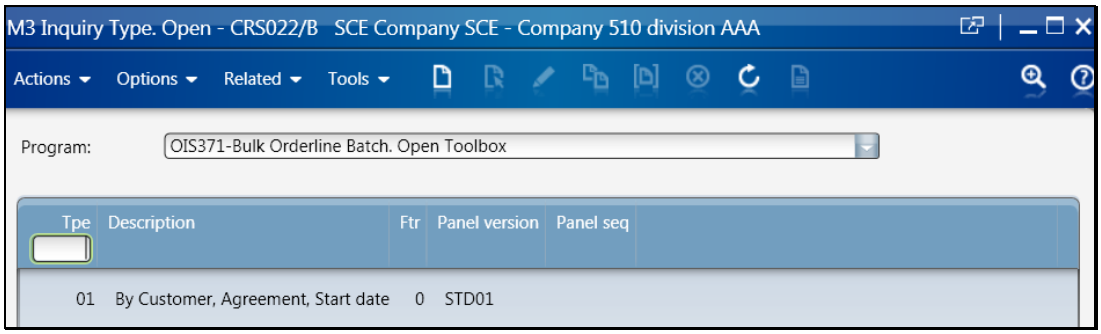




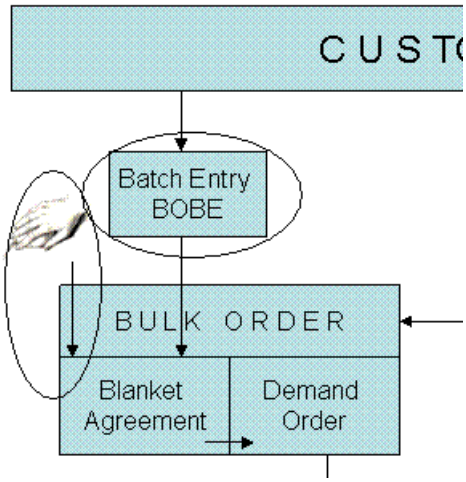
- **The inquiry types are user designed in CRS022.**

OIS370 and OIS371 have been added as programs to create inquiry types for the bulk order toolbox.





4 Create bulk order



4.1 Manual entry

From the Bulk Order Toolbox you can create a new Bulk Order. A bulk order is a Customer Blanket Agreement with an agreement type that is defined as a bulk order. This process is described in step by step below:

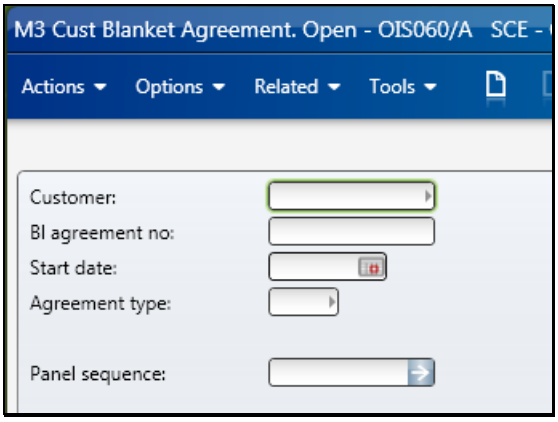
4.1.1 Bulk order header

Create option – program OIS305

Different ways of creating the Bulk Order:

- F14
- "Create" button 

Both these alternatives will open up OIS060/A:



Remember that Customer Blanket Agreement is one part of the Bulk Order, therefore both the term customer blanket agreement and bulk order will be used in this document as well as the applications.

Validation of fields:

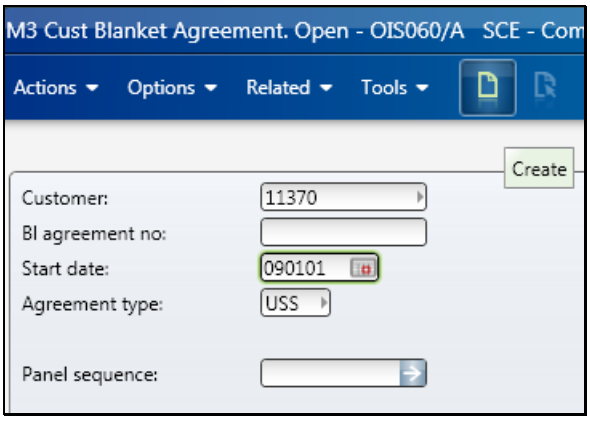
Customer number	mandatory.
Blanket agreement No	not mandatory [1]
Start date	mandatory [2]
Agreement type	mandatory [3]

[1] If the blanket agreement number is left blank, the number series defined in the agreement type will be used. Series type BO in CRS165 will be used.

[2] This field has been made mandatory for bulk orders.

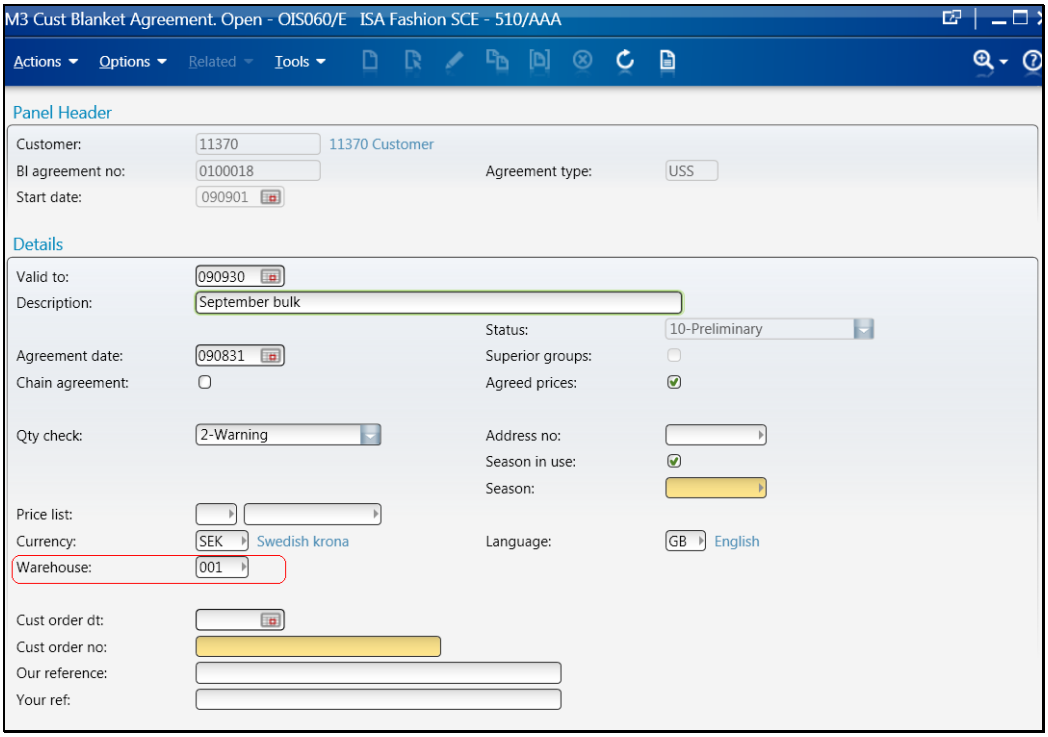
[3] Only agreement types that are defined as bulk orders are possible to use. A prompt in this field will only display bulk order agreement types.

Perform the creation using the “create” option, as in M3 standard functionality. Note that no other options are available from OIS060/A. Change, Display, Lines, etc functions are used from the bulk order toolbox OIS305/B.



Changes to agreement header - panel E and panel F

The customer blanket agreement is set up as in M3 standard functionality for blanket agreements. Below you can see the fields that are changed for blanket agreement headers with a bulk order type.



New fields in Customer Blanket Agreement OIS060/E:

Warehouse is a new field for bulk orders. The field is defaulted with the warehouse set up in the customer file (program CRS610/G) and is possible to change. The field is used in many situations:

- When entering agreement lines, it is validated that the items exists on the warehouse specified in this field.

- When entering agreement lines using the matrix, the warehouse control has been added. Only fields in the matrix where the SKU exists on the warehouse are open for input.

- The demand orders created when releasing the bulk order are created in this warehouse.

- The distro controls which valid bulk orders (agreements) are available considering the warehouse on the distro line and on the bulk order header (this field). If these do not match, the bulk order (agreement) is not valid for the distro line.

- Once bulk order lines have been entered, the field is not open for changes.

Bulk order is a new field for bulk orders and it is populated with the bulk order parameter in the agreement type. This field is not displayed. All bulk order specific functionality is validated against this parameter. If the parameter is changed in the agreement type, an existing bulk order will still be treated as a bulk order due to this parameter on the agreement header, table OAGRHE.

Changed fields in Customer Blanket Agreement OIS060/E:

Start date has been made mandatory for bulk orders.

Defaulted values in Customer Blanket Agreement OIS060/E:

- ***Agreement status*** is defaulted to 10 = preliminary.
- ***Agreement status*** is a locked field for bulk orders.

- ***Superior groups*** is a locked field for bulk orders.

Defaulted values in Customer Blanket Agreement OIS060/F:

- ***Sales person*** is defaulted from the customer file.

Changed table structure OAGRHE

These new fields have been added to the bulk order agreement header table:

Table: OAGRHE	
Field ID	**Field Name**
UYWHLO	Warehouse
UYBUOR	Bulk order

When entering a bulk order header, warehouse is defaulted from the customer file and the bulk order parameter from the agreement type.

4.1.2 Bulk order lines

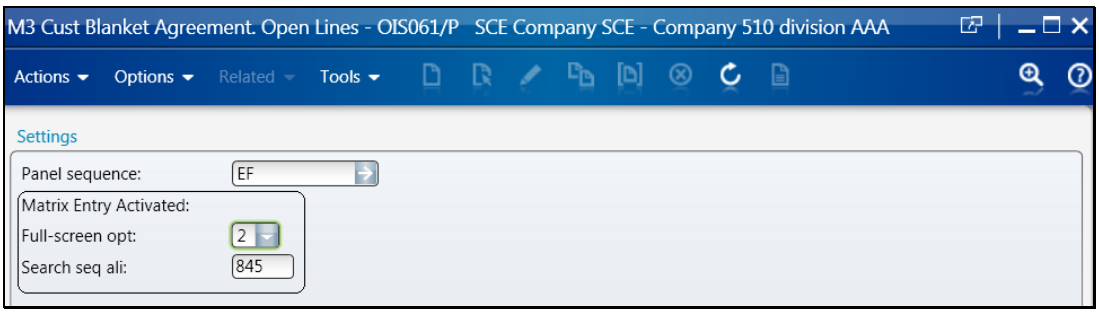
Entry of a bulk order line on SKU level works with standard functionality for customer blanket agreement. The changes made for bulk orders in this area is to control that the items entered on bulk order lines exist on the warehouse entered on the bulk order header and also to update a few new fields on the bulk order lines (both visible in panels and non-visible).

For customer blanket agreements there is no support to enter lines on style level, style-color level or any other alias type. In this section we will explain the changes that have been made to enable this for bulk orders.

The purpose of enabling style entry in a matrix format and to display on style level, is to enable the same functionality as for customer orders, purchase orders and distribution orders - and to give good usability.

Parameters

New parameters are added for the bulk order lines, in program OIS061/P:



Parameter:

Full-screen option — This parameter enables the use of a matrix.

0 – Detailed entry through OIS061 panel E and F.

2 – A matrix (CRS207) is displayed.

Full screen option 1 and 2 will only check alias types 84-88 in the search sequence (below). If records are missing for alias type 84-88, the detailed panels E and F will be used regardless of the value in this field. See (MMS025 – Item.Connect Alias Number)

Search sequence

The field indicates the search sequence within alias types 84-88 that is used for full-screen options 1 and 2. You can choose several of the alternatives. The field also indicates the check sequence.

4 = Alias type 84, user defined, created automatically according to (MMS024)

5 = Alias type 85, user defined, created automatically according to (MMS024)

6 = Alias type 86, user defined, created automatically according to (MMS024)

7 = Alias type 87, user defined, created automatically according to (MMS024)

8 = Alias type 88, user defined, created automatically according to (MMS024)

For information on how to set up alias types 84-87, see Appendix 1 below.

Inquiry types

The field inquiry type has been implemented for all types of customer blanket agreements. This is to enable possibility to display bulk order lines on SKU level or on an aggregated style level. The table below displays how the inquiry types are used:

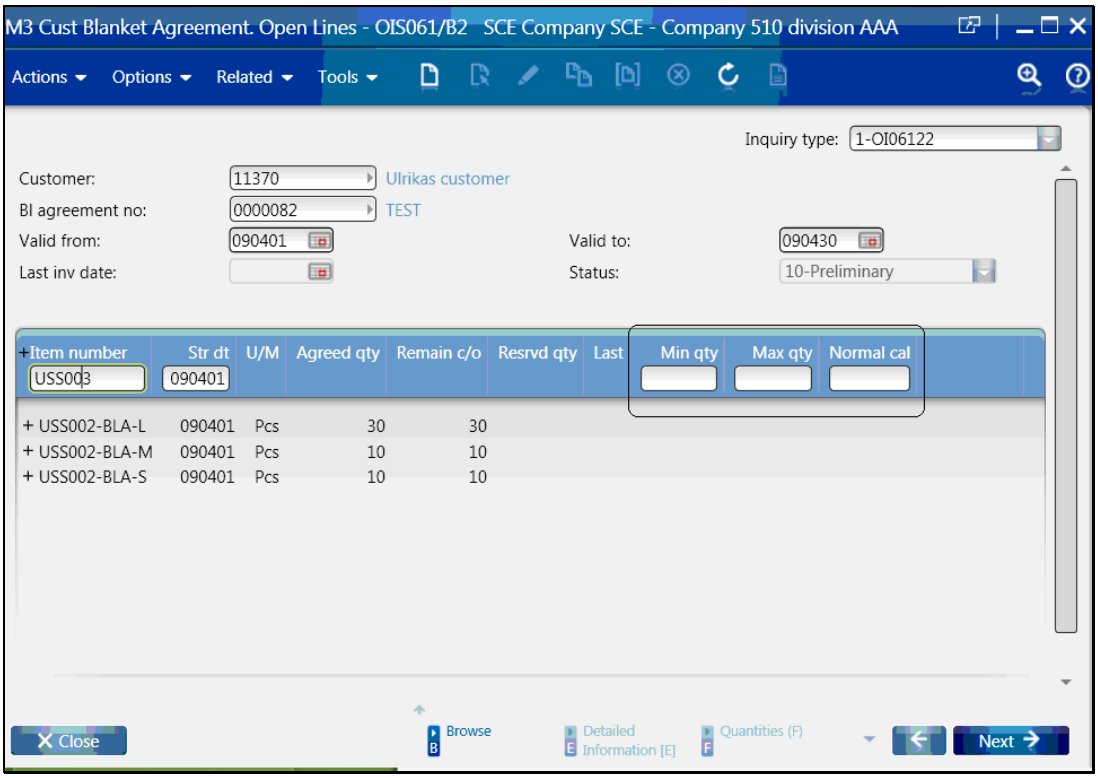
Bulk order **OAGRHE/UYBUOR**	**Superior groups** **OAGRHE/UYSPGR**	**Inquiry type**	**Comment**
0	0	1	Inquiry type with item number + start date
0	1	2	Inquiry type with different levels, according to setup in object control table (program OIS064)
1	0	1 / 3	For bulk orders you can use inquiry type 1 to display detailed information on SKU + start date level and inquiry type 3 to display aggregated info on style + start date level.
1	1	-	No possible combination

Added fields for entry

New fields regarding quantity tolerances have been added to the sub-file for OIS061/B2. The fields are open for input in order to simplify the bulk order entry process in a matrix entry format only.

These new fields will be used for the detailed transactions (SKU level) created from the matrix.

The fields are not mandatory, and they can be overruled per detailed transaction in the F-panel.



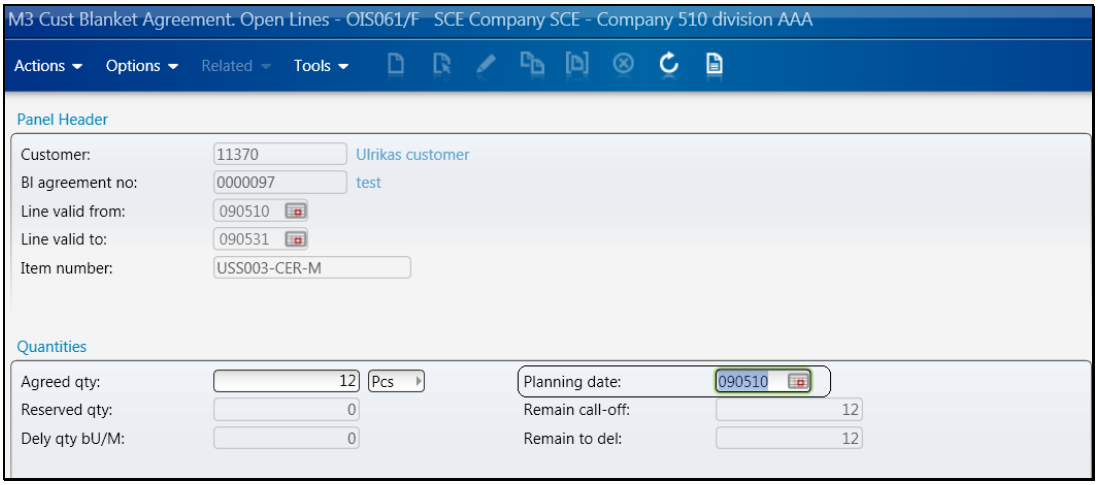
Changes to agreement lines - panel E and panel F

New field in Customer Blanket Agreement Lines OIS061/F:

- ***Planning date*** is a new field only available for bulk orders. This date is defaulted with the *line start date minus the safety time* from the item/warehouse file.

  The date will be used as planning date for the demand order. The date can be changed. For released bulk orders a change on the blanket agreement line will also update the planning date of the demand order.

  The warehouse defined in the bulk order header is used to find the correct item/warehouse record.



Manual entry on SKU level

The manual entry is performed as for standard customer blanket agreement line entry.

1) Enter a SKU number and a start date and press Create.

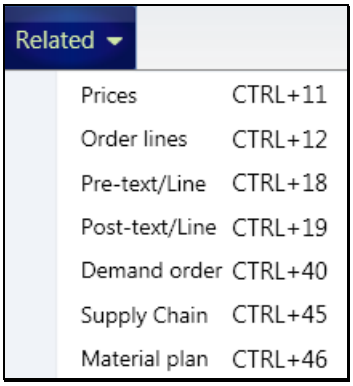
2) In panel E it is optional to enter values

3) In panel F you need to enter an agreed qty in order to get a demand order created. The planning date will be defaulted with the line start date minus the safety time item warehouse file (MITBAL record) as described above. All other information is optional.

4) It is optional to enter bulk order unique prices with option 11 on the bulk order line. This is standard customer blanket agreement functionality.

Related options on blanket agreement line

Related options 40 and 45 have been added in the blanket agreement lines (OIS061) to enable to go from the blanket agreement line to the demand order and to the supply chain order.



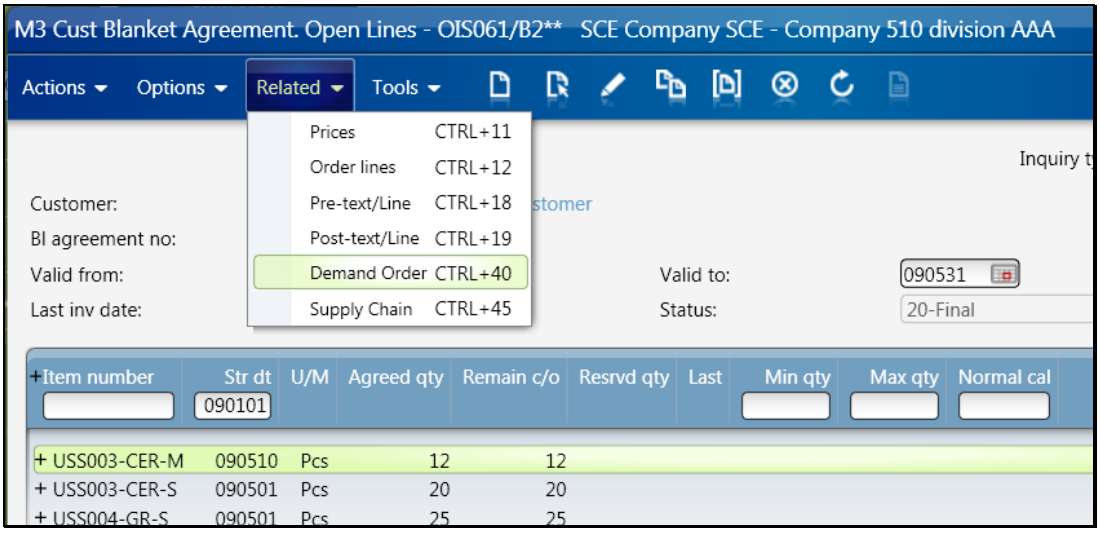
Option 11 standard functionality for customer blanket agreements.

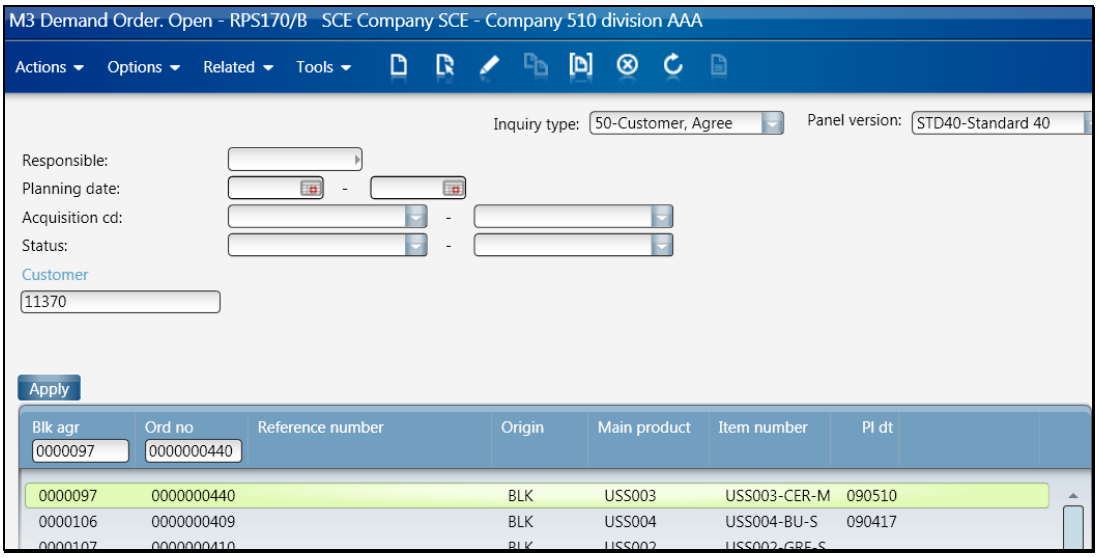
Option 12 standard functionality for customer blanket agreements.

Option 18 standard functionality for customer blanket agreements.

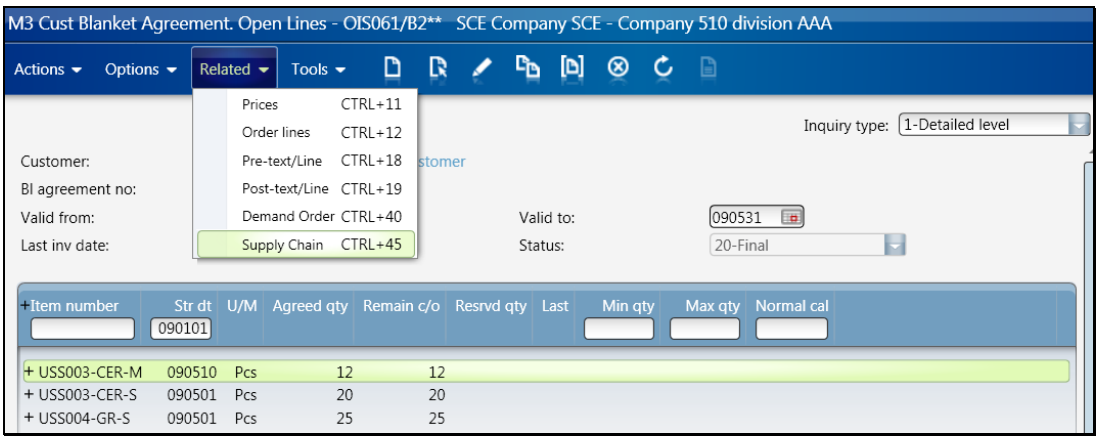
Option 19 standard functionality for customer blanket agreements.

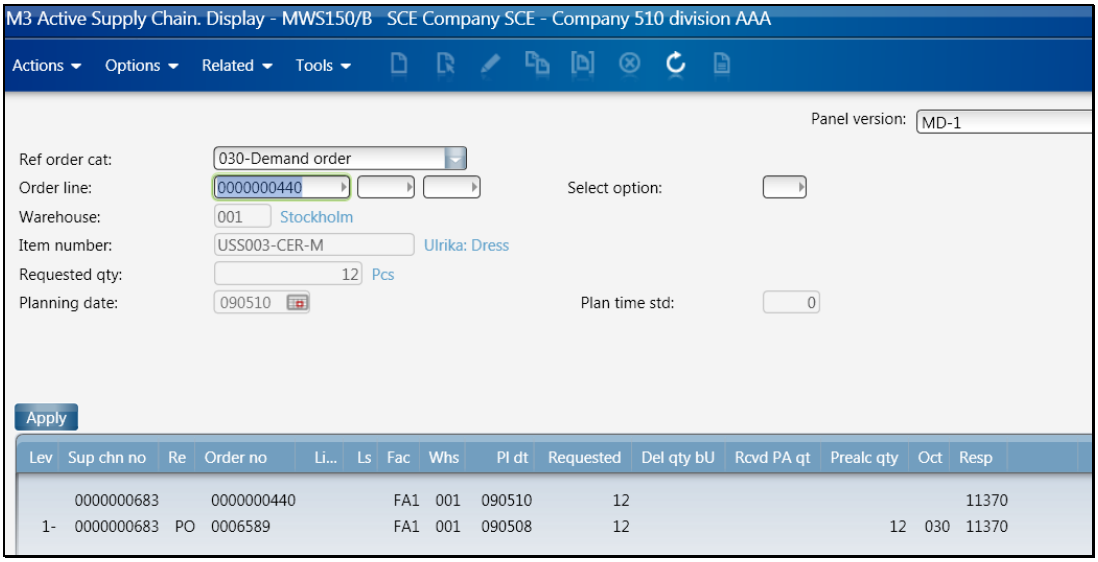
Option 40 will take the user to the demand order for the selected agreement line, program RPS170. Note that demand orders only exist for released bulk orders.





Option 45 will take the user to the supply chain for the selected agreement line, program MWS150.





Option 46 will take the user to the material plan for the SKU number on the bulk order line and the warehouse on the bulk order header.

Change table structure

These new fields are added to the bulk order agreement lines table:

Table: OAGRLN	
Field ID	**Field Name**
UWHDPR	Main product (style)
UWOPTY	Y option (often color)
UWTY15	Y option description
UWOPTX	X option (often size)
UWTX15	X option description
UWPLDT	Planning date
UWORGQ	Original quantity
UWORGU	Original U/M

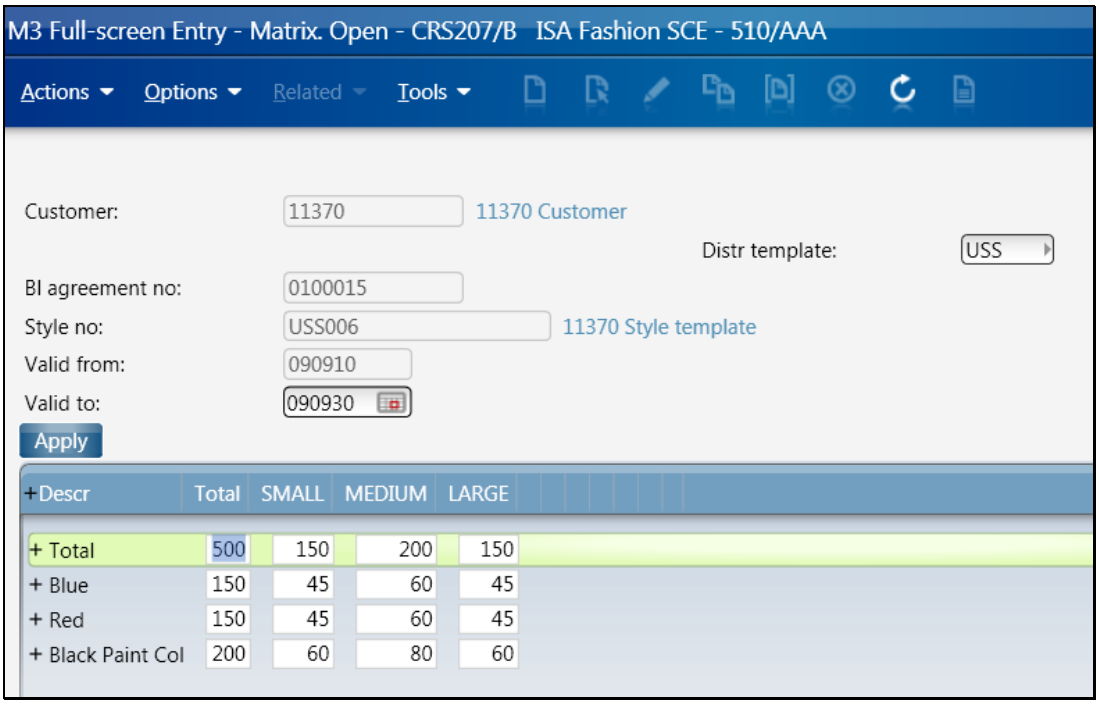
When entering an agreement line (on any level) the style number, color, size and planning date will be stored in the bulk order agreement line table. Original quantity and original U/M will be stored when an agreement is released.

4.1.3 Manual entry of bulk order line in matrix format

With bulk order functionality and settings in OIS061/P it is possible to enter a bulk order line using an aggregated level.

The new fields for quantity tolerances in the subfile for OIS061/B2 can be used for entry on an aggregated level. If entering values in these fields and creating bulk order lines via the matrix, these same tolerances will apply for all lines created.

Enter a bulk order line for a style or style-color (or any other alias type 84-88 defined in MMS025 and in parameters for bulk order line entry OIS061/P). If the new parameter “Full screen option” has been activated, the matrix entry CRS207 will appear on screen.



Matrix functionality for bulk orders:

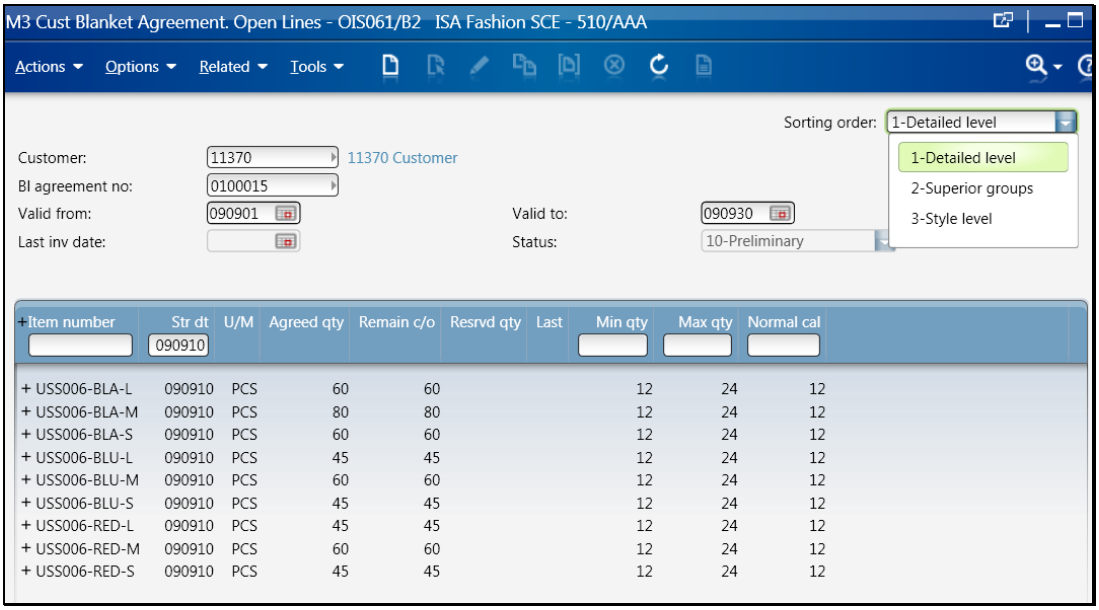
- To display matrix totals the standard matrix settings in CRS207/P are used. Use F13 to enter the program. Make sure “Totals” are activated and also “Confirm with Enter”. This is standard matrix functionality that has been enabled for bulk orders.

- A ***warehouse control*** has been implemented. Fields in the matrix where the item does not exist on the warehouse (from the bulk order header) are closed for entry.

- It is possible to use ***distribution templates***. In CRS207/P a parameter controls if distribution templates should be used. A valid distribution template is defaulted in the CRS207 entry. Enter the total quantity and confirm, thereafter the quantity will be distributed to SKU’s using the distribution template information. For information on how distribution templates are set up, we refer to Companion documentation.

- The ***new field*** **“**Valid to” will apply on all matrix lines. If nothing is entered, the bulk order header valid to date will be used for all matrix lines. If entering a date, it will apply for all matrix lines.

- When confirming the matrix quantities, the agreement lines are updated on SKU level.



NOTE:

- When entering a style or style-color – and the new parameter “Full screen option” has not been activated – the agreement line will be set up at style level. It is important to know that there is no support to break down the agreement to SKU level and there is no support for the bulk order processes if the bulk order line is at style level.
- For the SKU’s created from the matrix, the quantity tolerances entered in OIS061/B2 will be stored in the bulk order line table. Also the style number, the size and the color will be stored. Start date for the SKU lines will be the start date entered at the aggregated level.

Display of bulk order in Matrix entry format

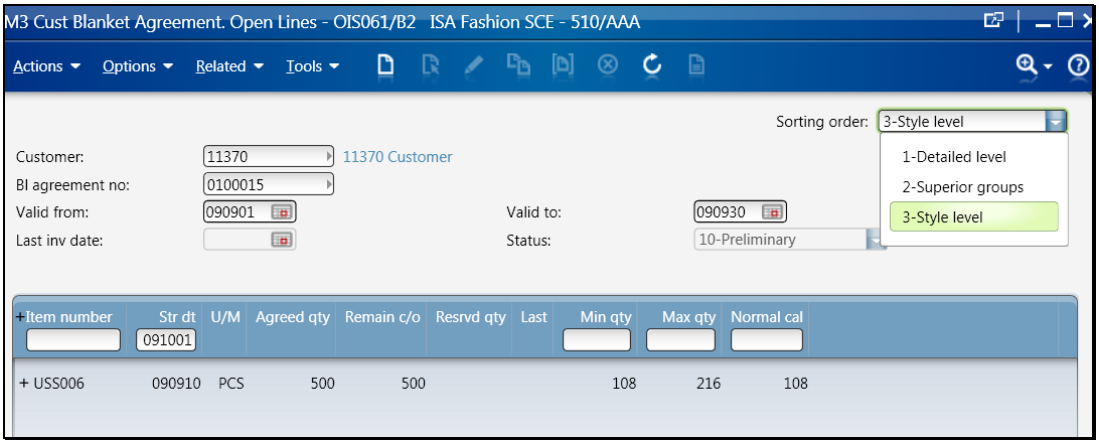
To enable display of bulk order lines on style level, a new inquiry type has been implemented.

1 = Detailed level

When inquiry type 1 is used, all transactions will be displayed at SKU and start date level.

3 = Style level

When inquiry type 3 for style level is used, all transactions at SKU level will be aggregated per style and start date.



- It is possible to create a new agreement line on any of the inquiry types 1 (detailed level) and 3 (style level).
- It is not possible to copy an aggregated level.

Change of bulk order lines in Matrix entry format

It is possible to do changes at an aggregated level for bulk orders.

Use inquiry type 3 = style level

Use option 2 = change

The matrix will be displayed with all fields where the item exists in the warehouse are open for edit.

- If changing an existing quantity, a change transaction will be performed at SKU level.
- If entering a quantity in a blank field, an add transaction will be performed at SKU level.
- If deleting a quantity in a field, a delete transaction will be performed at SKU level.
- If the valid to-date is blank, it means that different valid to dates exists. If it is not blank, this is the date that is valid for all matrix lines. If this date is changed, this date will update all matrix lines.

Delete of bulk order lines in Matrix entry format

It is possible to delete an aggregated level for bulk orders.

Use inquiry type 3 = style level

Use option 4 = delete

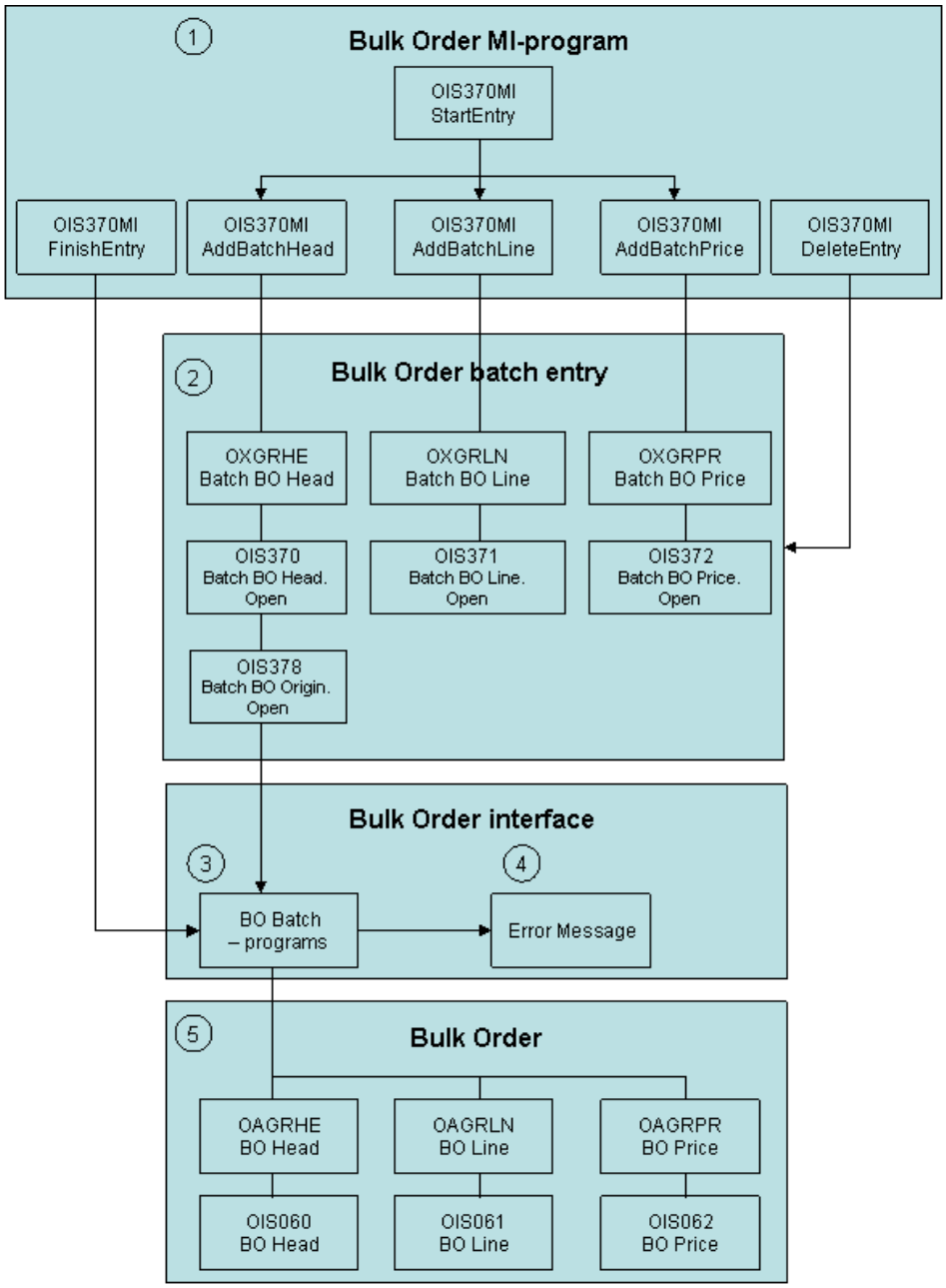
The matrix will be displayed and needs to be confirmed to execute the delete.

This will delete all detailed transaction lines connected to the Style.

4.2 API creation

With an API for bulk order entry, we can provide the possibility to integrate with other systems. Also, we enable integration testing using MI-test as an application.

Below you can see the API transactions and how they affect the new data tables OXGRHE and OXGRLN.



4.2.1 Workflow outline

The workflow for the bulk order batch entry (BOBE) is as follows. See figures in picture above.

1) MI-program OIS370MI transfers data sent from the external system to M3 and creates records in the interface tables (OXGRHE, OXGRLN, etc.).

2) The interface data is displayed and maintained in the interface programs (BOBE) named OIS370-OIS371. The interface data will be possible to update and it should even be possible to manually add new records in the interface but the validation process will be separated to a function program. This means that

no validations will be made interactively in the interface programs (OIS370-OIS371).

A status will be used in order to let the system know if the MI-transactions have finished the work with a specific BOBE or not. Status 10= 'Order entry in progress' means that the MI-program is working with the order and when the status is set to 20= 'Order entry finished' the users and the system knows that all the data has been transferred to the interface tables for that specific BOBE. This makes it possible to track records that are not complete in the interface tables in case of an interrupted MI-transaction.

3) Once the data has been added into the interface tables it can be processed (validated and transferred) by several new function programs.

4) If an error should appear, an e-mail could be sent to the responsible user where several problems can be listed. It is also be possible to trigger an e-mail via CRS424 when a new bulk order has been created in the interface. This is not described in this document, as it follows standard functionality.

5) If everything is OK during the validation process the bulk order head can be transferred / created in OIS060 (OAGRHE) and the lines in OIS061 (OAGRLN) just as when the BO is created manually in OIS305.

4.2.2 New program OIS378 – Parameters per Batch Origin

In order to have a flexible solution, a parameter program has been created in which you do settings on how the process should work. This is done per batch origin, and could be overruled by customer within each batch origin. A batch origin could for example correspond to a customer number, an identifier for an external system.

See chapter 2.1.2 for the parameter settings.

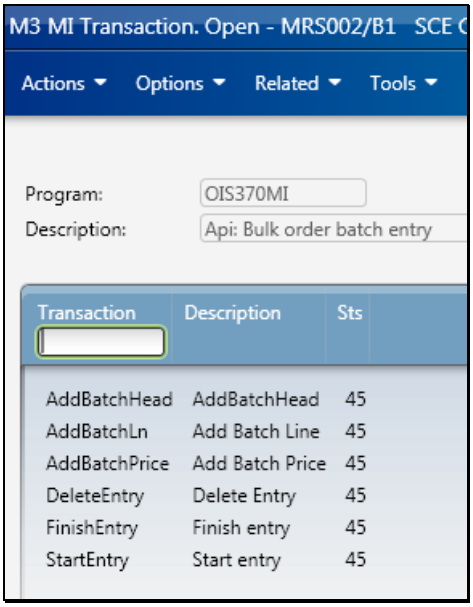
4.2.3 New program OIS379 – Parameters Batch Origin - Connect exceptions

To enable having unique number series or process for different customers within a batch origin, it is possible to set up exceptions on a customer level.

See chapter 2.1.3 for the parameter settings.

4.2.4 New program OIS370MI - MI transactions

This program is used for integration with M3 BE.

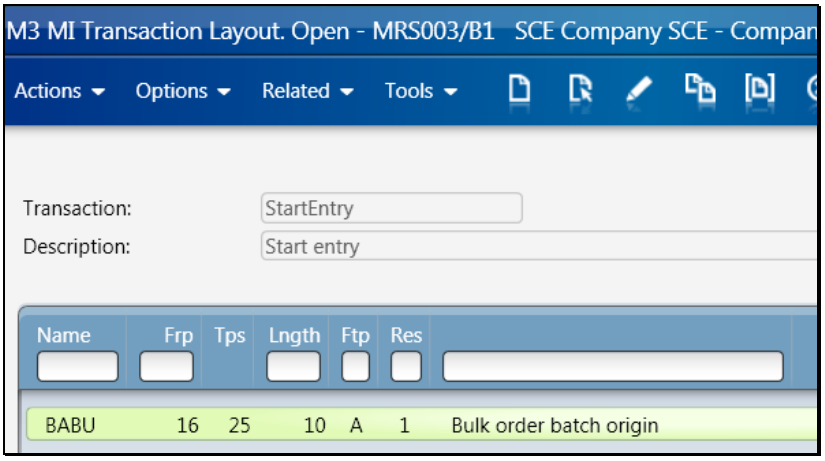


- **StartEntry**

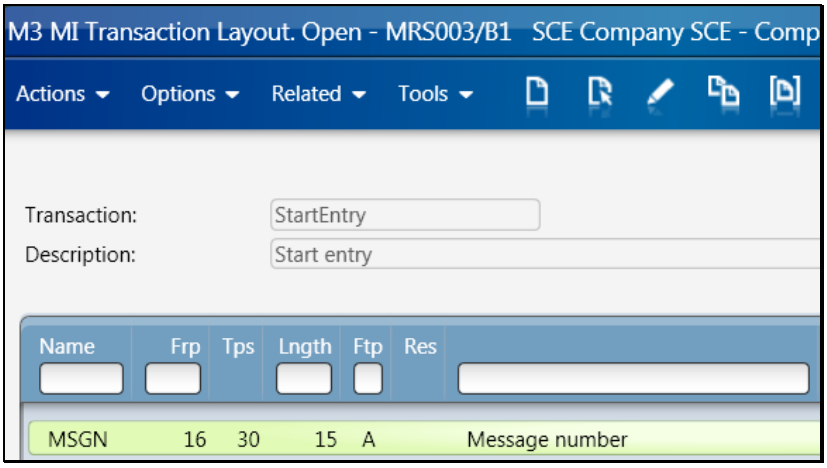
The purpose of this transaction is to identify the sender of data and receive a message number in return.

Batch Origin is the only field available to send IN. Unique parameters can be set per batch origin in program OIS378.

Fields in:



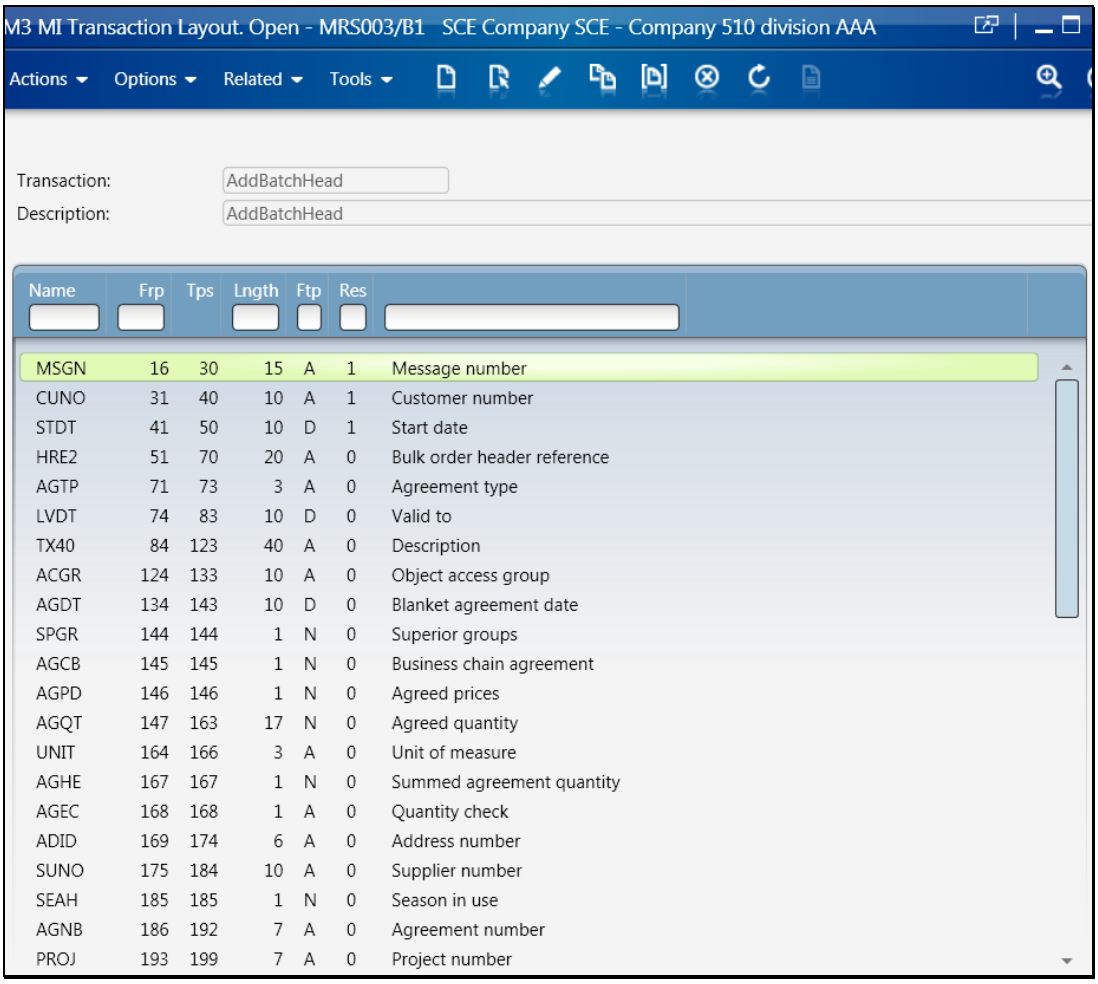
Fields out:



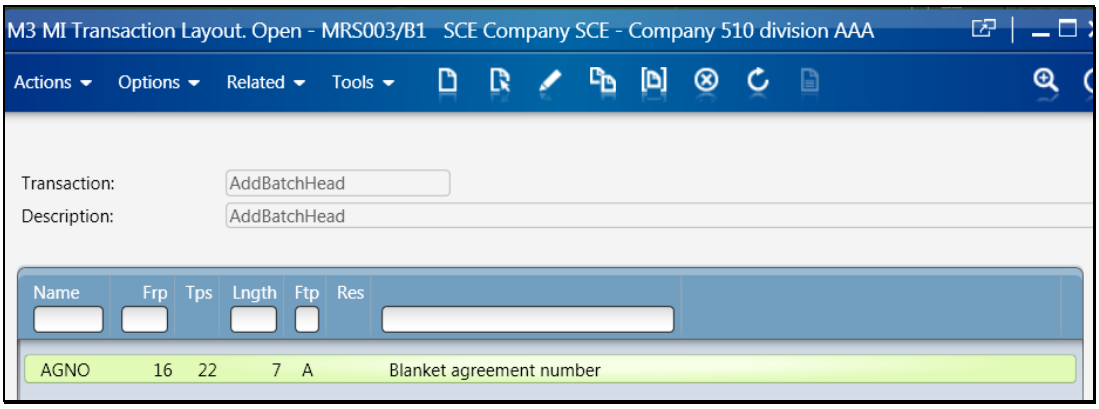
The message number received will be used in all the following transactions regarding this specific bulk order.

- **AddBatchHead**

Fields in:

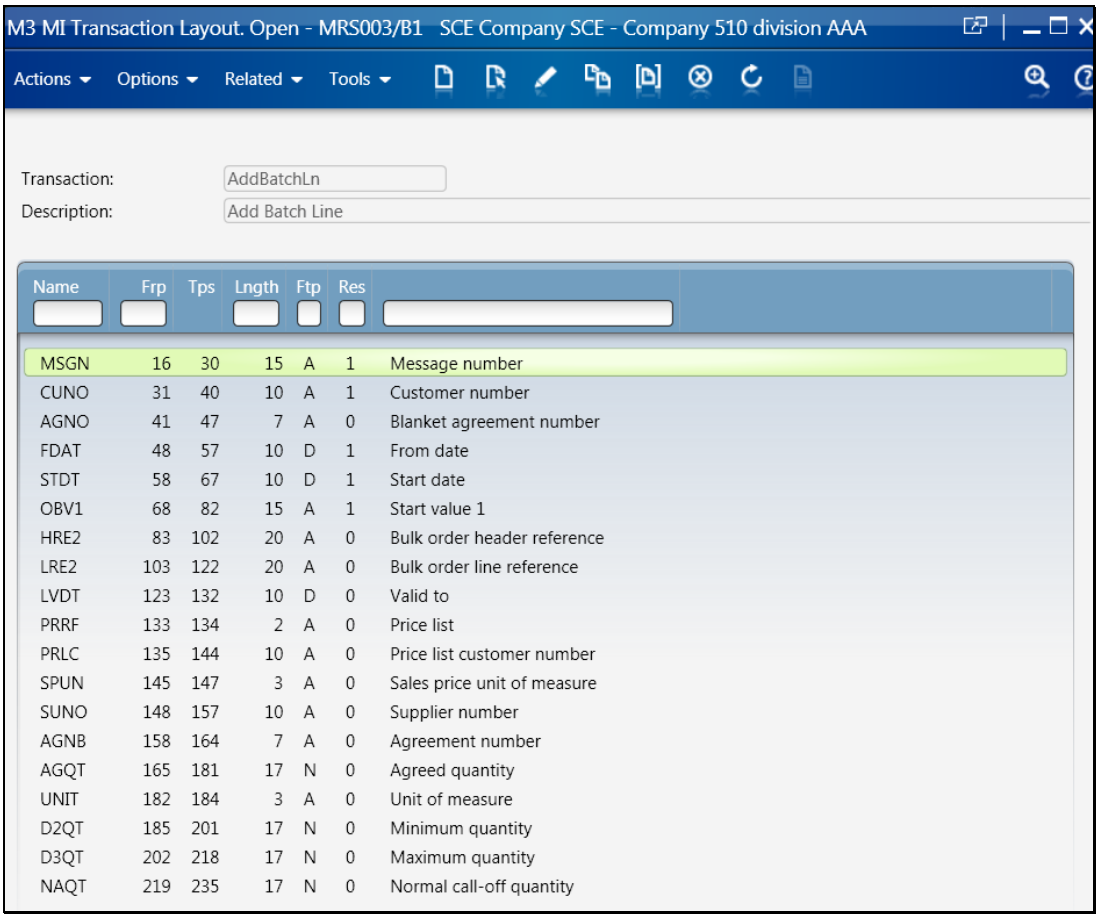


Fields out:

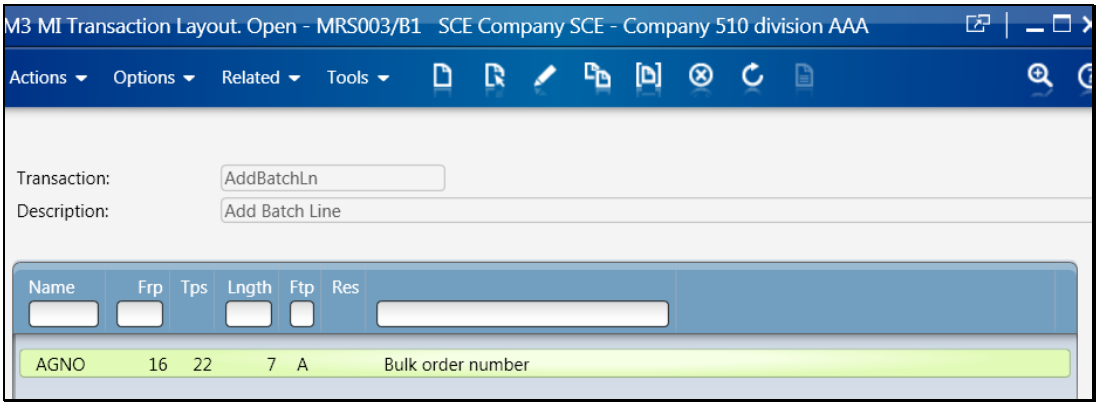


- **AddBatchLine**

Fields in:

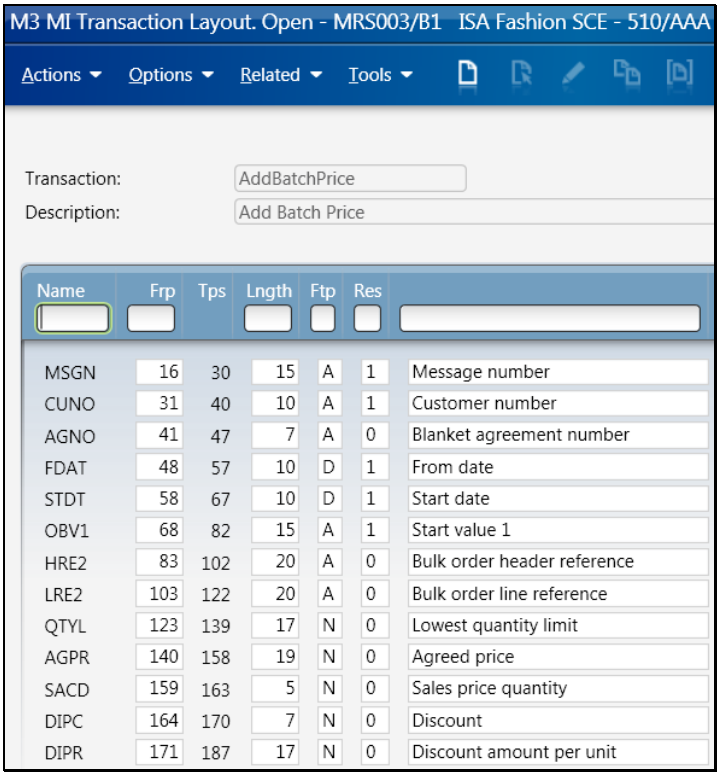


Fields out:

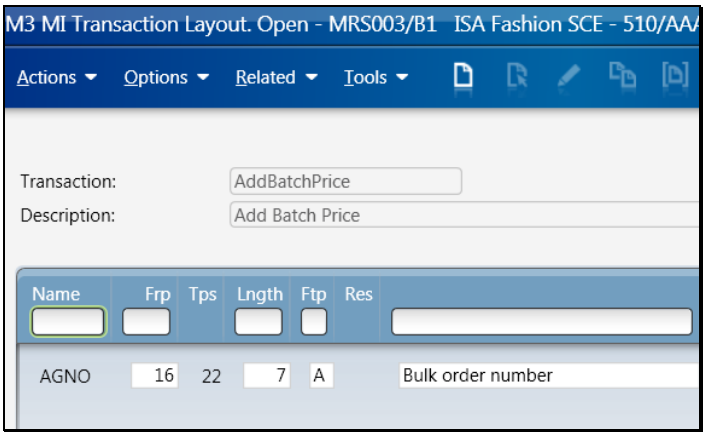


- **AddBatchPrice**

Fields in:



Fields out:



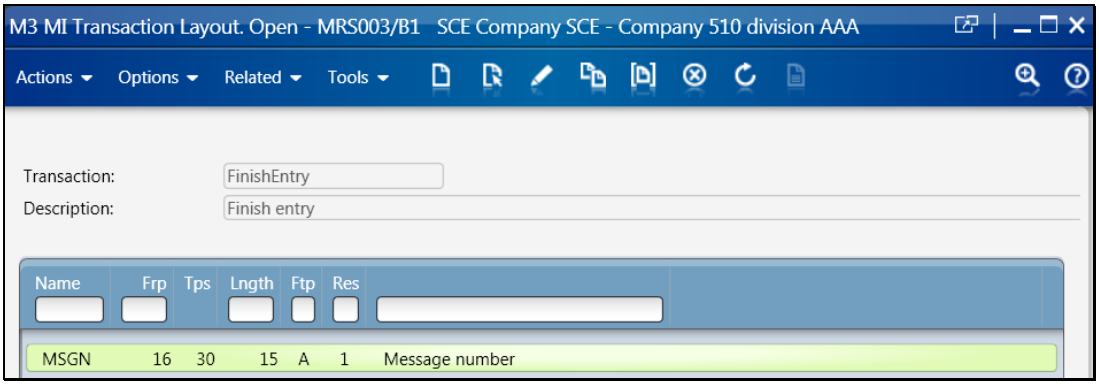
- **FinishEntry**

The FinishEntry transaction will call the M3 validation programs for bulk order batch entry. The purpose of this is to validate that the data is correct according to settings. The validations are the same as if the bulk order had been entered manually from OIS305.

If no errors are found in the bulk order batch entry, it will reach status 90 and be created as a preliminary bulk order in OIS305.

If errors are found in the bulk order batch entry, it will get an error code and the message will show in the OIS370 error log.

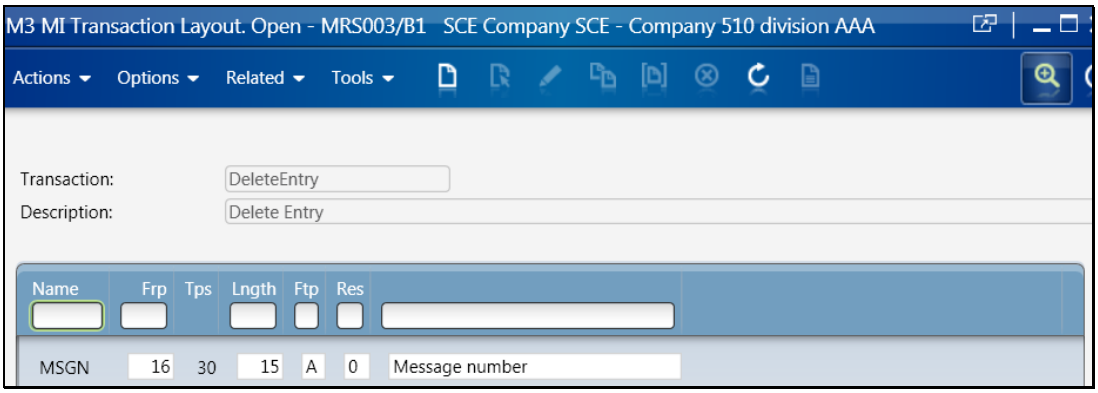
Fields in:



- **DeleteEntry**

The DeleteEntry transaction deletes the whole message number. This can only be used when no FinishEntry transaction has been completed.

Fields in:



4.2.5 Update and release stopped bulk orders

Bulk orders in the batch entry program will be validated with the M3 controls as if the bulk order had been entered manually in the bulk order toolbox (OIS305 – OIS060 – OIS061). For the API program this is done in the FinishEntry transaction. Erroneous transactions will stop with status 23 in the BOBE toolbox OIS370 and can be corrected and released again.

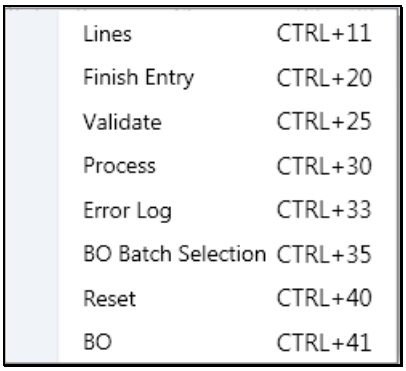
It is important to know that when entering a transaction in OIS370 panel E and F no validation of data is performed. The validation is made by the validate option (25).

The result of the validation will update the transaction with a status and an error log. Only erroneous transactions need to be changed and validated again. If no errors are found when the order is sent via OIS370MI, it will get status 90 in the BOBE. If the order is stopped and reprocessed OK later, the status will be 25. Only status 10-23 needs to be monitored.

Status handling in BOBE:

Status	Description
10	Order entry in progress
20	Order entry finished
23	Error during validation
25	Validated OK
90	Transferred, no errors

Options available:



- Option 11 – bulk order batch entry lines

This option will take the user to the bulk order batch entry lines, program OIS371.

- Option 20 – Finish Entry

Finish the entry of a BO batch. The status on the BO batch is raised depending on the setting in OIS378/OIS379. This option is normally not used, but if – for some reason – the finish transaction has not been performed, it can be completed with this option.

The status field on the 'Message number' (MSGN) in the table OXBETR will be updated to status closed. No more record can be added on a finished message number.

- Option 25 - Validate

This option validates the BO batch and is used in order to get information of remaining errors on the transaction. Note that the E and F panels do not perform any validation of data. The error log (option 33) displays errors found in validation.

- Option 30 - Process

Processes the BO batch to a bulk order and sets the temporary batch bulk order to status 25 if no errors are found. If errors are found, the error log (option 33) will display these.

- Option 33 – Error log

With this option you will be displayed the error log created in validation of data for the transaction. The M3 standard error log in CMS421 is used.

- Option 35 – BO batch selection

With this batch selection program you can release several batch orders at once. This batch selection can also perform a delete.

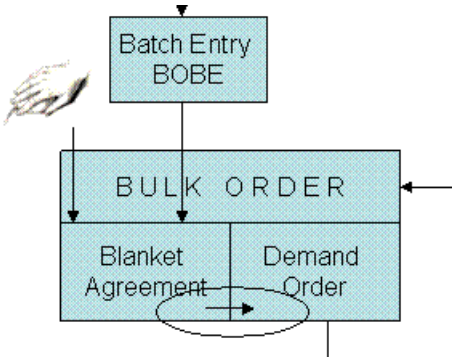
- Option 40 – Reset

This option will reset batch orders that are in progress. If the communication is interrupted before sending the Finish-transaction, the work in progress parameter in table OXGRHE is still active. This parameter is displayed in OIS370/E.

- Option 41 – Bulk Order

This option takes you to the bulk order toolbox, OIS305.

5 Release bulk order



A bulk order is created with a preliminary status, 10. At that stage only the blanket agreement part of the bulk order exists.

When the responsible for the bulk order approves its contents, the user releases the bulk order. This is done in the bulk order toolbox OIS305.

This action will raise the status for the Bulk Order from preliminary (10) to final (20), and a demand order will be created. One Demand Order will be created for each Bulk Order agreement line. There will always be a 1-1 relationship between these order lines. The bulk order line is the master on which all changes needs to be performed, such as change of quantity or planning date.

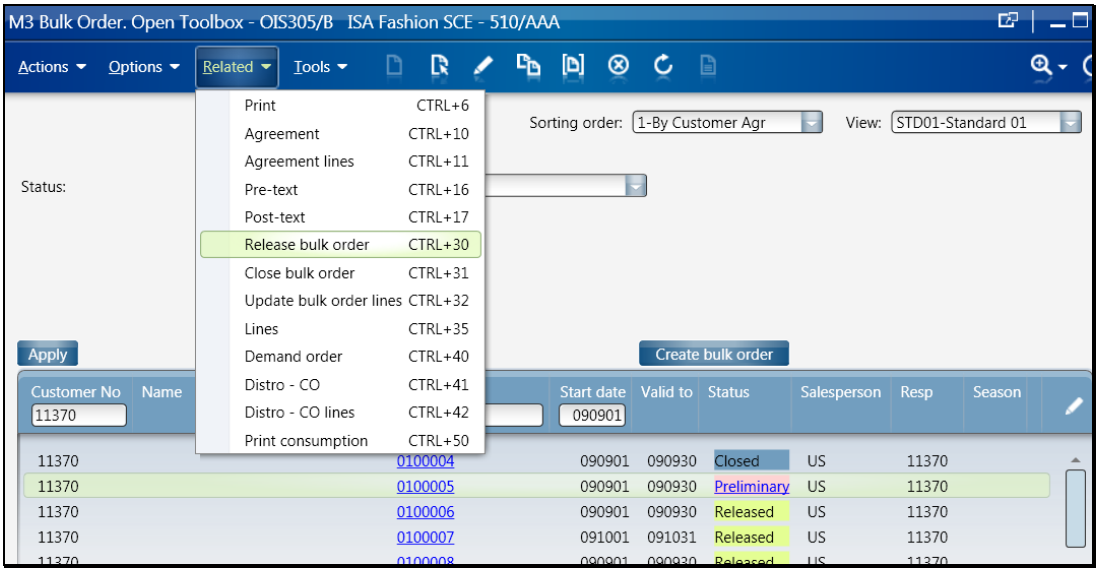
Demand orders are used to create or find acquisition orders to supply the bulk order demand.

The Demand Order Type to be used is set on the Agreement Type.

NOTE that if all bulk order lines are deleted for a released bulk order in status 20, the bulk order status will change to 10. It is also important to know that is only possible to delete a bulk order in status 10.

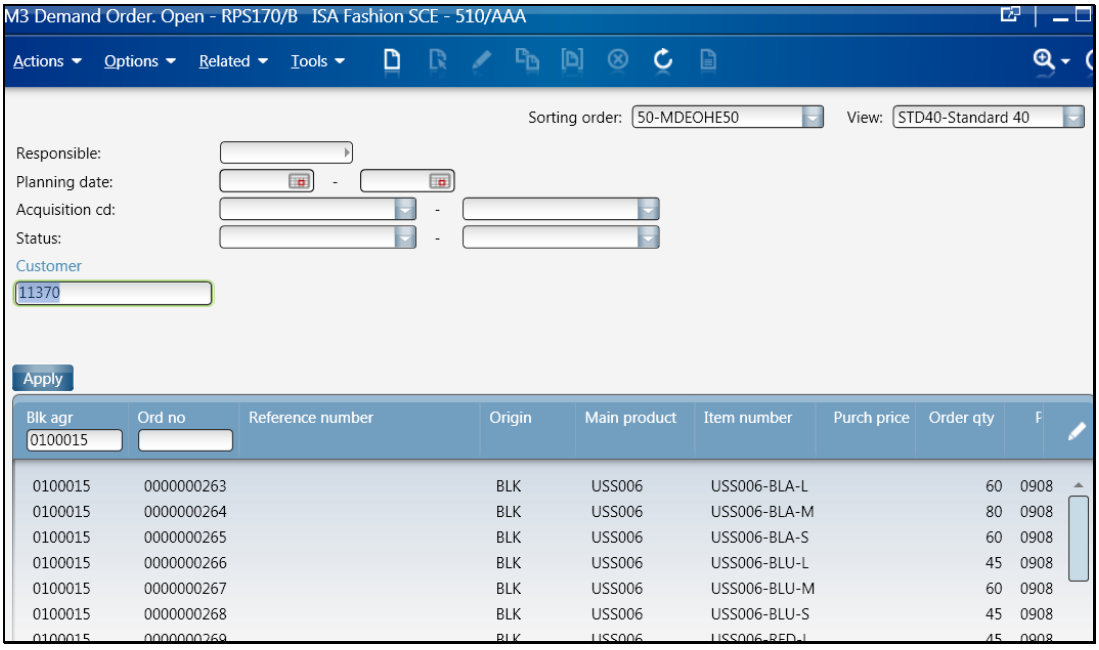
5.1 Release functionality of approved bulk order

- Release the bulk order in the bulk order toolbox (program OIS305) when approved.
- The release job OIS311CL will be performed in a batch mode.



- After the release, one demand order is created per bulk order line.

To see the demand orders, use option 40 in the bulk order toolbox (program OIS305) or on the bulk order lines (program OIS061) or in the bulk order line toolbox (program OIS306) – or open the demand order program RPS170 separately.



- Only bulk orders in status 10 can be released. A message is displayed if releasing a bulk order in another status.

  It is only possible to release a preliminary bulk order (status 10)

- A bulk order in status 10 does not have any related demand orders.
- If adding additional bulk order lines to a bulk order that is already in status 20, this will directly create the corresponding demand orders without any release. However you will get a warning message saying that the bulk order is released and that your changes will affect related demand orders.
- When releasing a bulk order the originally agreed quantity, unit of measure, price list and currency will be stored in separate fields. The purpose of this

is to be able to find out exactly what was agreed when the bulk order was approved. These fields are available to use in the panel version for the bulk order line toolbox. The fields will only be updated when a bulk order is manually released to status 20. If a new bulk order line is added thereafter, no original values will be stored.

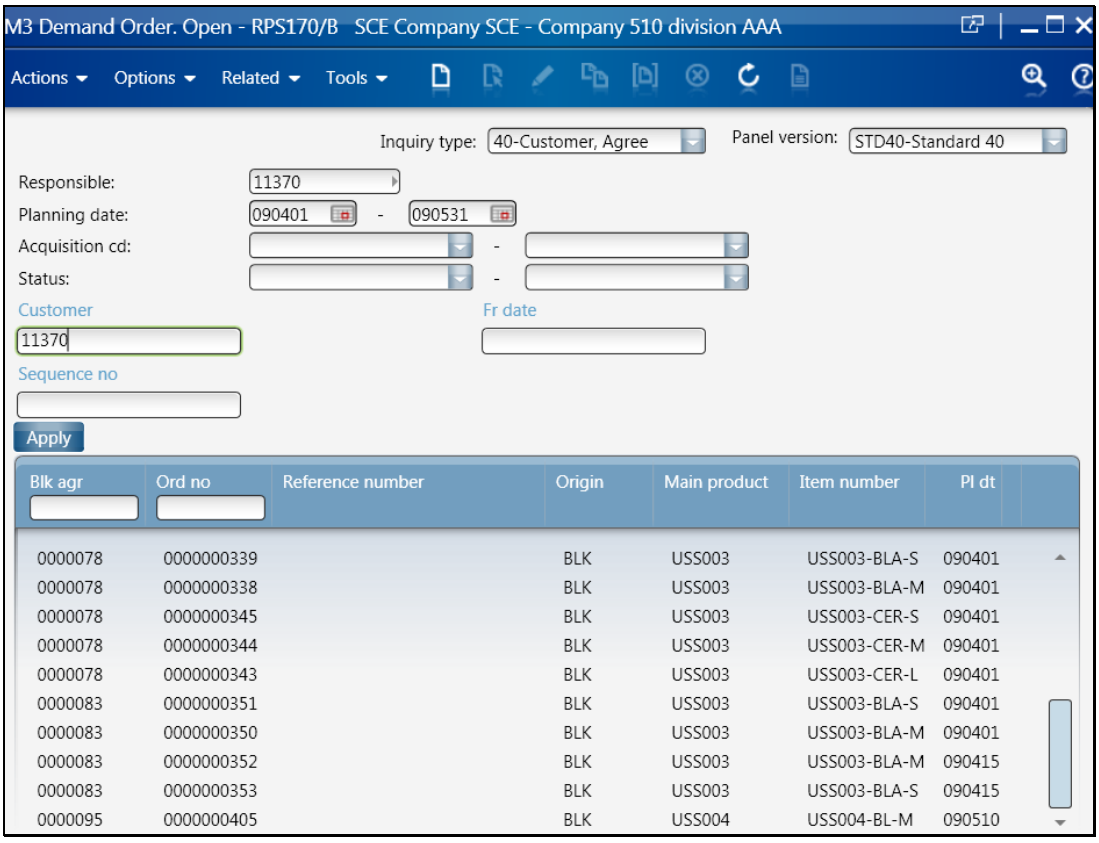
	Field in OAGRLN	**"Originally agreed" field in OAGRLN**
Agreed quantity	UWAGQT	UWORGQ
Unit of Measure	UWUNIT	UWORGU
Price list	UWPRRF	UWORGP
Currency	UWCUCD	UWORGC

5.2 Demand orders

Demand orders are created in program RPS170, using the demand order type set on the blanket agreement type. There is a 1-1 relationship between a bulk order line and a demand order, and the bulk order line is a master from where all changes regarding planning date and agreed quantity should be initiated.

There is a new origin for demand orders created from a bulk order, called BLK.

The demand order quantity always equals the bulk order line quantity and the demand order planning date equals the planning date on the bulk order line.

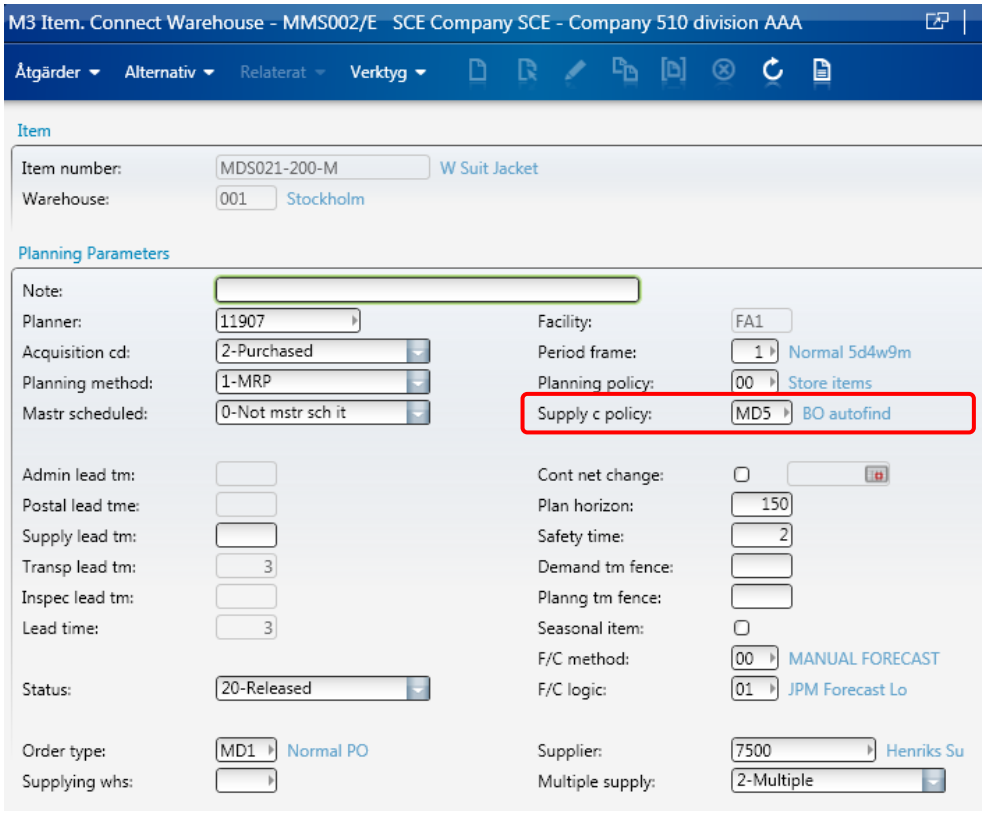


It is not allowed to change or delete a demand order with an origin = BLK within RPS170. All changes should be performed on the bulk order line.

6 Acquisition planning / execution

6.1 Create supply to demand order via supply chain order

The supply flow for a bulk order is driven by the supply chain policy set up on item/warehouse (MMS002/E).



Two main acquisition flows are supported for bulk order. These are;

1. Generation of new supply, or
2. Use of existing supply and eventual shortages managed by MRP

In the first case the Supply Chain Order for the demand order drives the creation of a new acquisition order resulting in a one-to-one relationship between demand order and acquisition order.

In the second case the Supply Chain Order instead looks for already existing acquisition orders to pre-allocate the demand order to, resulting in possibly a many-to-one relationship between acquisition order and demand order. In this case shortages will be provided for by MRP, presuming the item is MRP-planned.

Note that a combination of these two acquisition flows is not possible.

6.1.1 Scenario 1— Generation of new supply via SCO

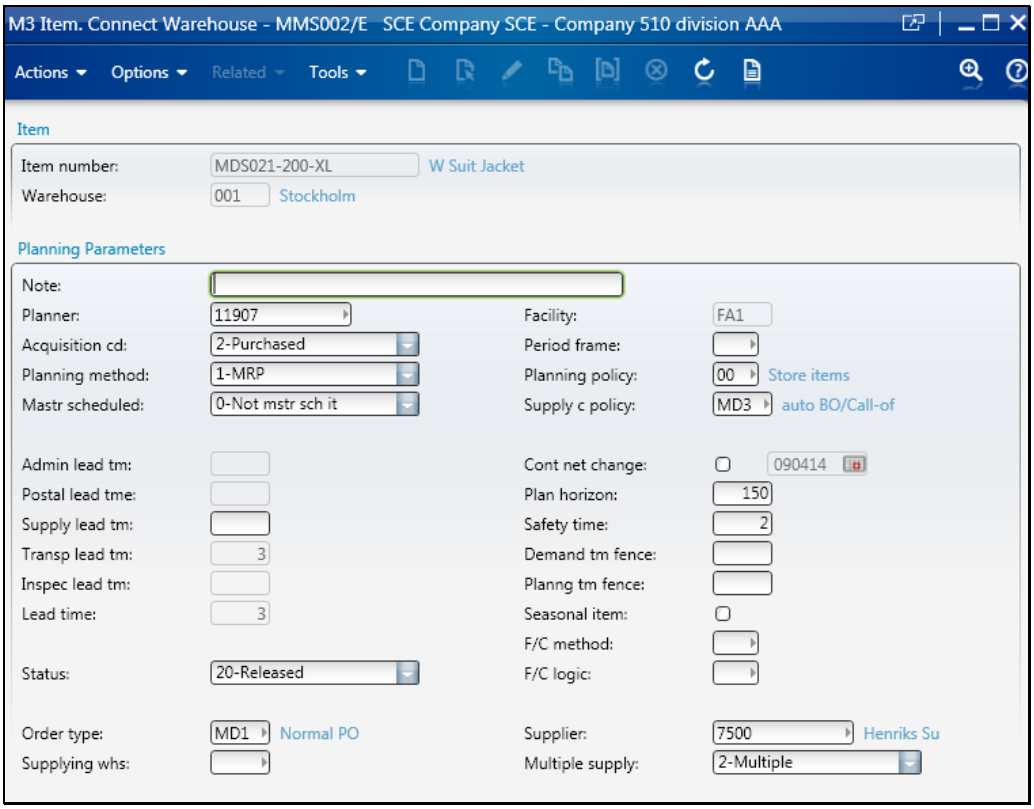
Acquisition is solely based on the demand for a bulk order line.

Workflow outline:

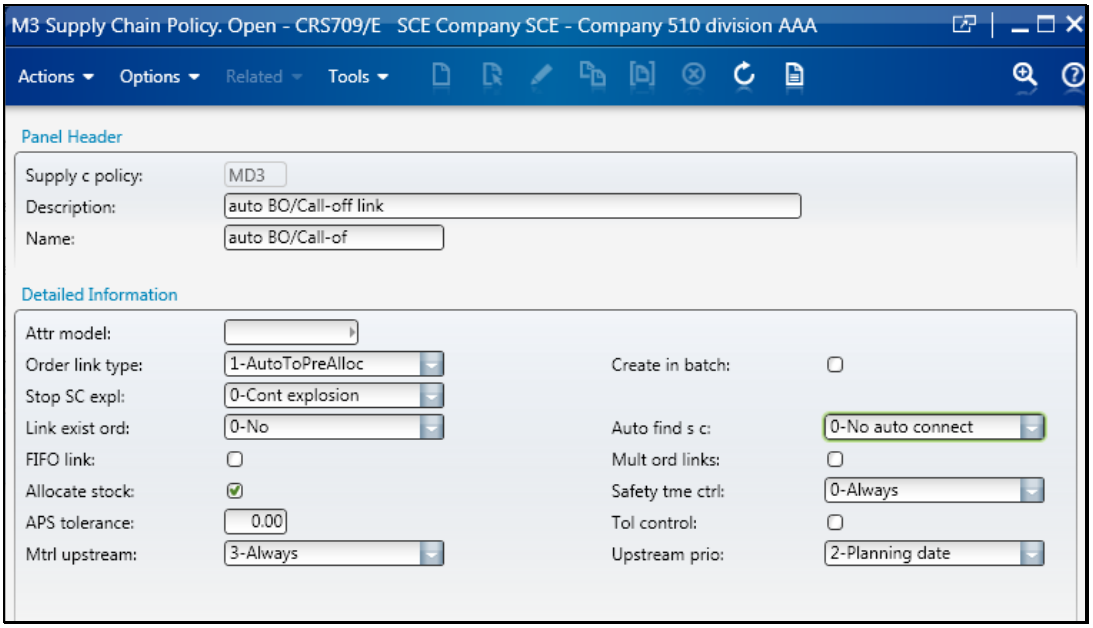
- Bulk order is received
- When releasing the bulk order a new acquisition order is generated for the demand order that is created for it.

Starting point:

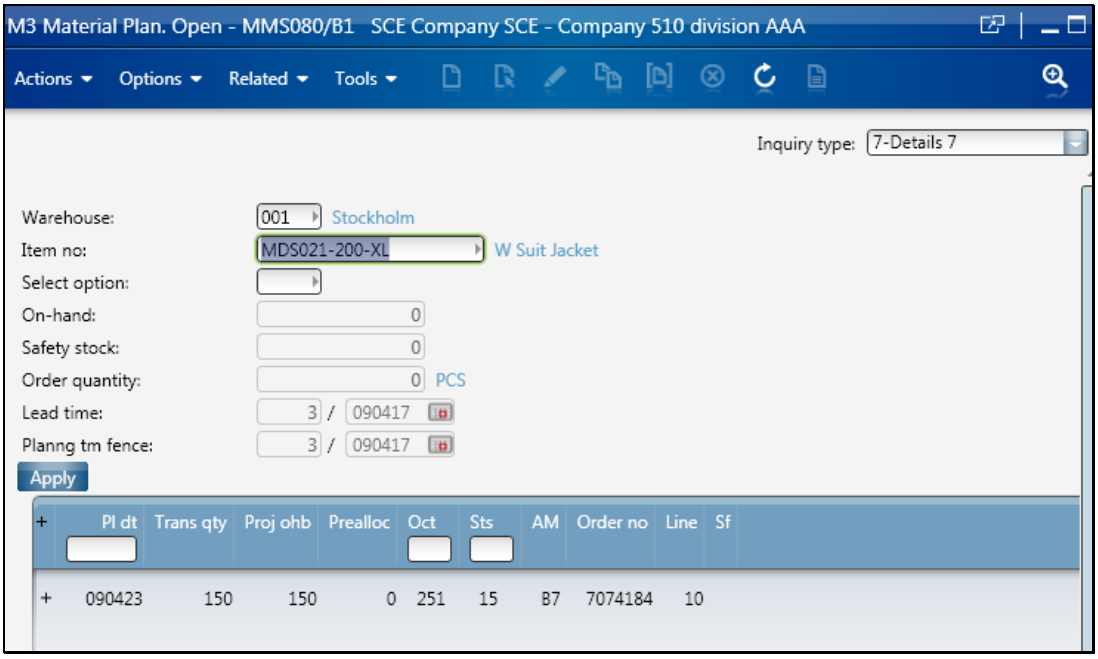
Purchased item MDS021-200-XL set up in warehouse 001 according to below:



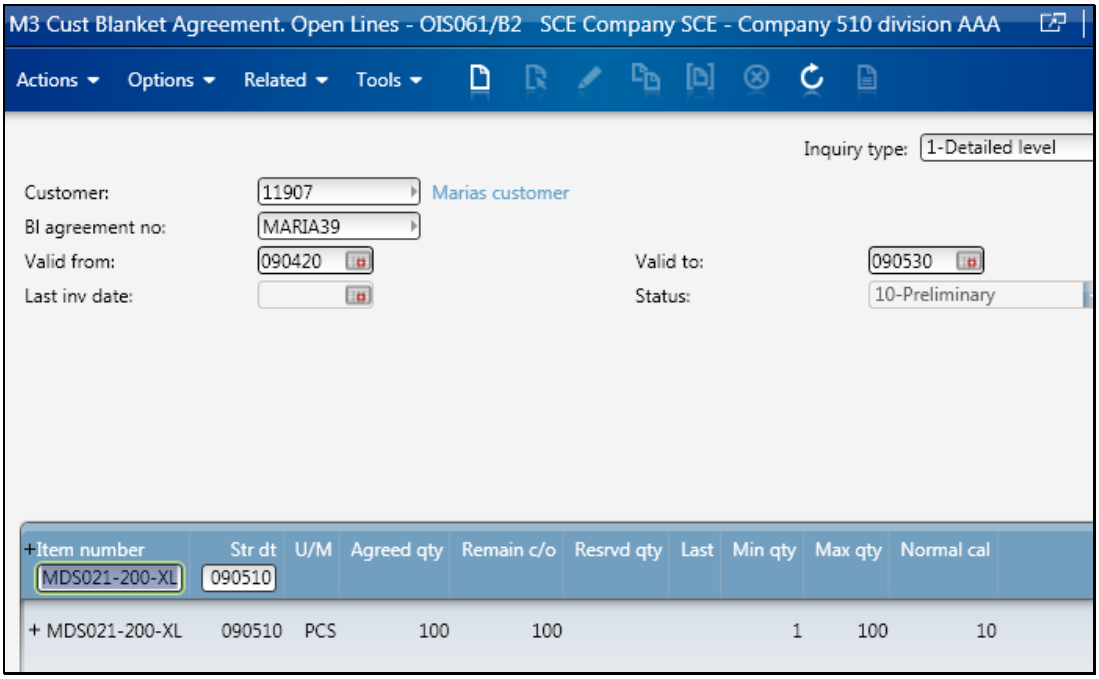
- Supply chain policy MD3:
    - Stop supply chain explosion (SSCE) = 0 – Continuous explosion
    - Link existing order (NAUL) = 0 - No



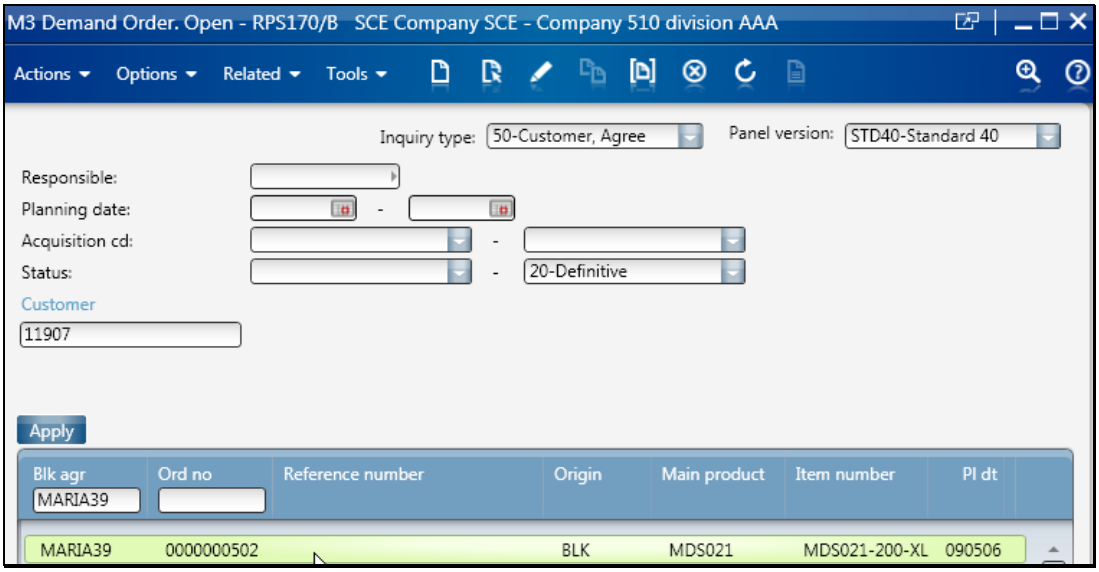
A purchase order exists for the item in warehouse 001:



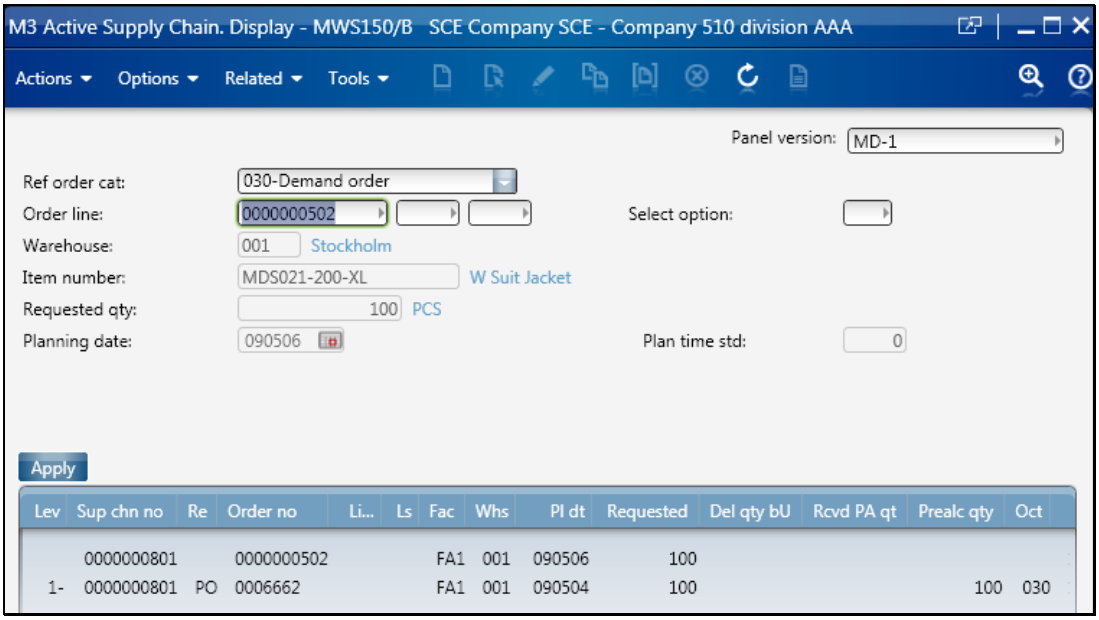
Step 1) A bulk order is received for the item of agreed quantity 100 pieces and with planning date later in time than the existing purchase order.



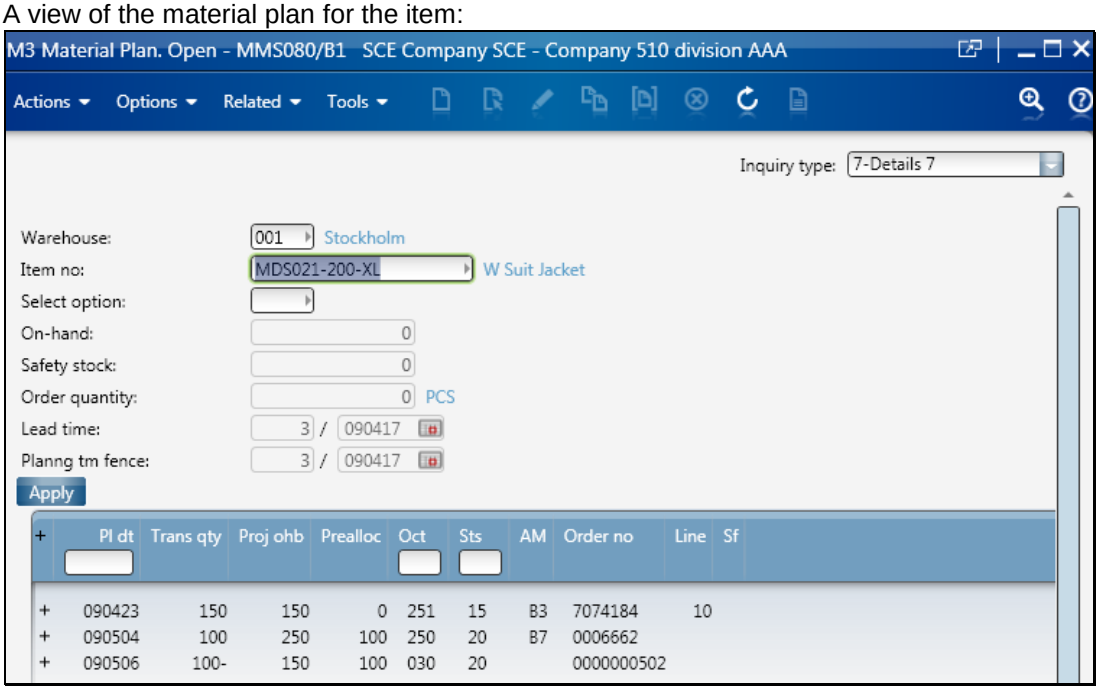
Step 2) The bulk order is released –> A demand order is created for it.



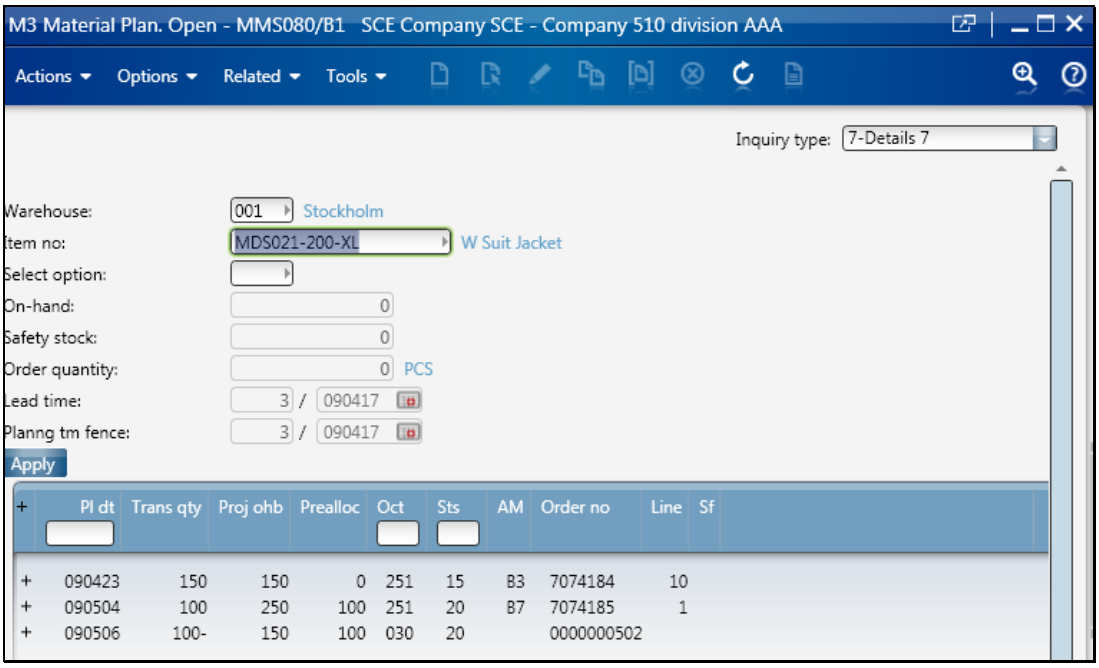
The supply chain order which the demand order is connected to generates a new acquisition order which is automatically pre-allocated to the demand order.



A view of the material plan for the item:



Step 3) The planned purchase order which is dedicated to the demand order of the bulk order is released. → The pre-allocation between the demand order and the purchase order is maintained.



6.1.2 Scenario 2 – Find existing supply & MRP

The most common scenario when using MRP in the acquisition planning is to run MRP against a forecast. A forecast is usually created in order to manufacture/buy to stock and the real demand is received at a later point in time. This means that for the demand orders created by bulk orders new proposals only will be generated via MRP in exceptional cases, as the acquisition proposals in most cases already exist when the demand is received.

However the planning dates of the supplying proposals might very well not fit the actual planning dates of the demand. As a result, manual rescheduling of the proposals are usually required, and thus MRP itself will never automatically try to link an existing proposal to a supply chain. Instead this will happen when a proposal is released, an order confirmed, or at goods receipt at the latest. However MRP facilitates this process by giving the user an action message, e.g. A1 Plan in and release, B2 Plan in. So by following the action messages and manually reschedule the proposals, the material plan will be kept in sync upon releasing the proposals.

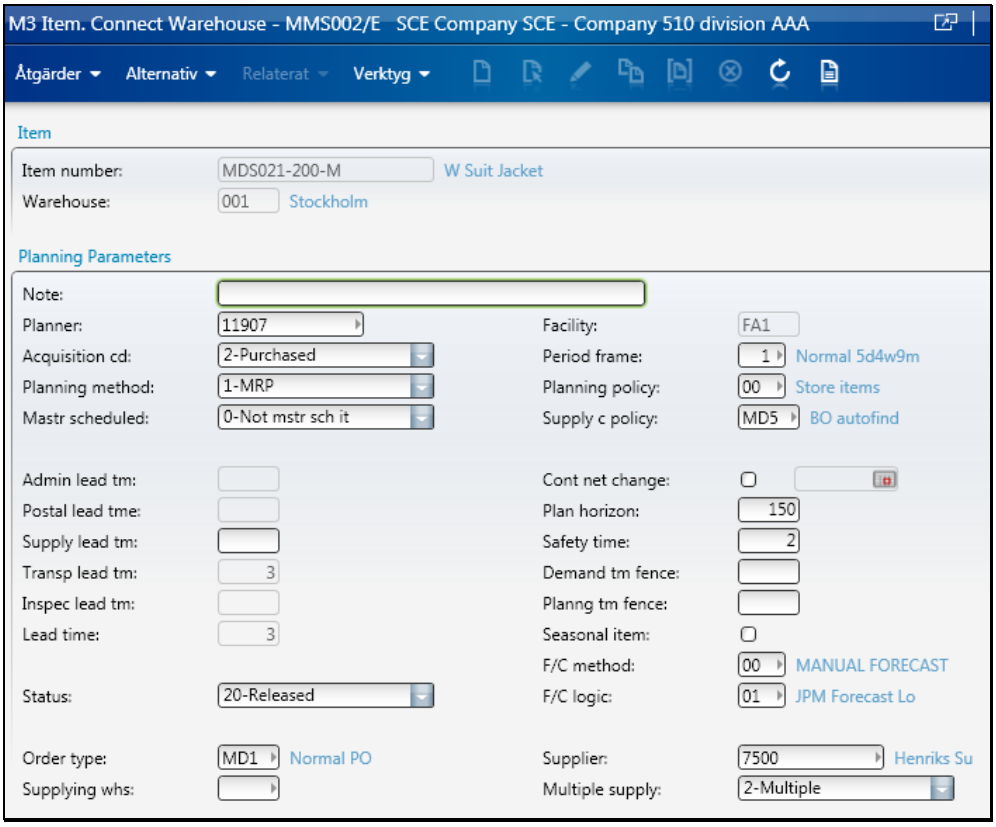
It's important to understand that when working with forecasts, the forecast is assumed to include the total predicted demand i.e. even the bulk order quantities should be included in the forecast. This is quite logical since a calculated forecast is based on the item statistics or the sales statistics which includes all the distros as well as normal customer orders.

Workflow outline:

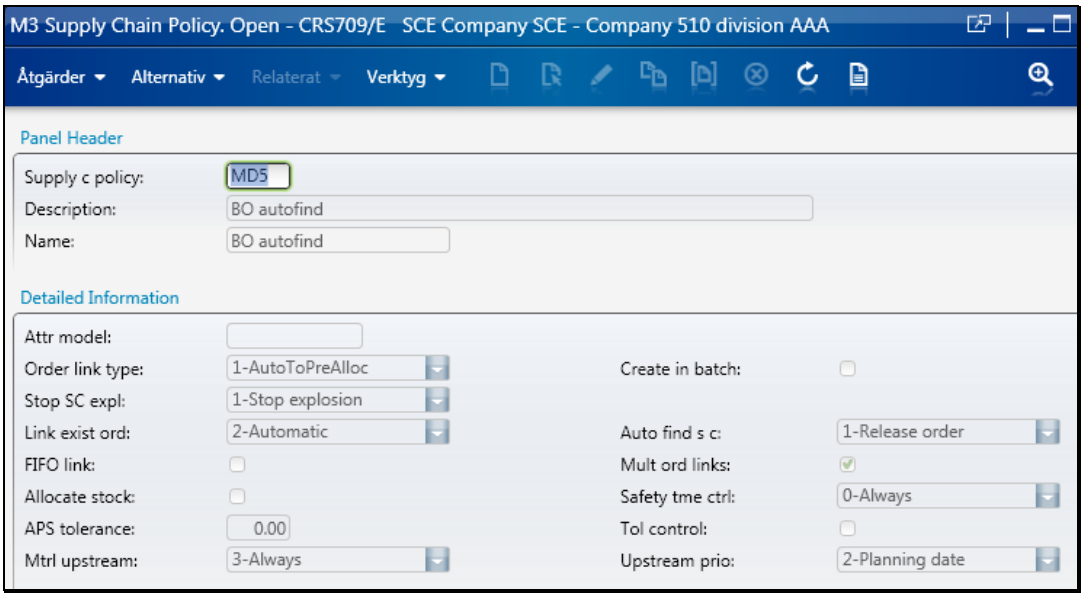
- Forecast-driven acquisition.
- Bulk order received after acquisition orders have been generated for the forecast, but which does not fully supply the bulk order.

Starting point:

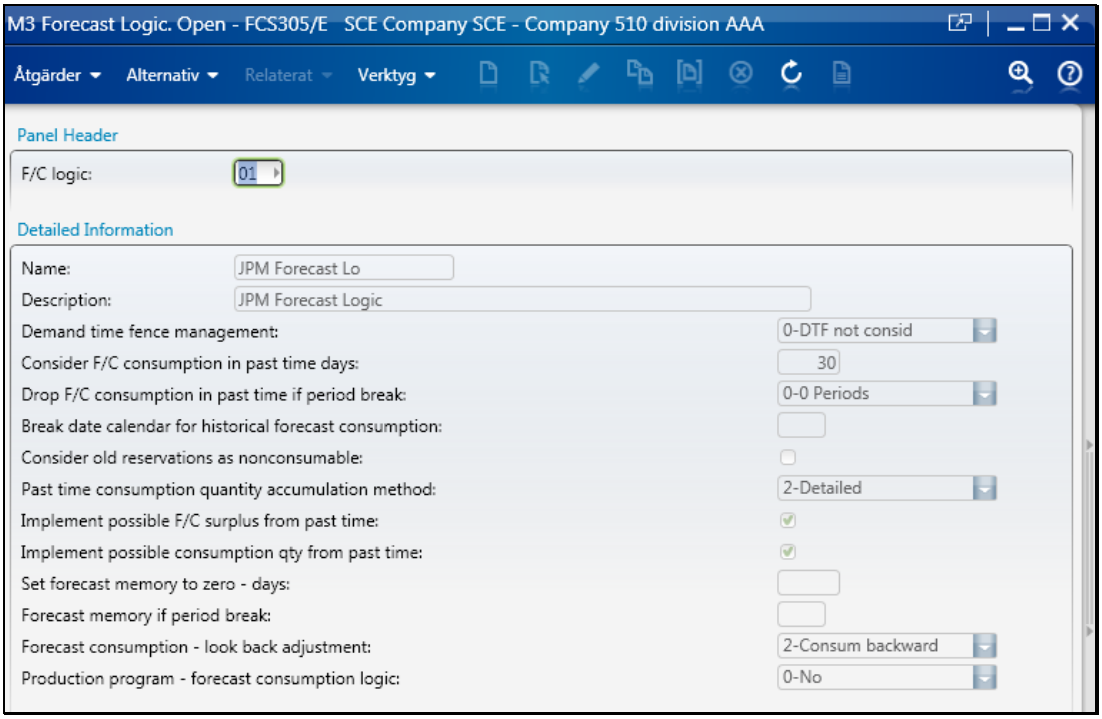
Purchased item MDS021-200-M set up in warehouse 001 according to below:



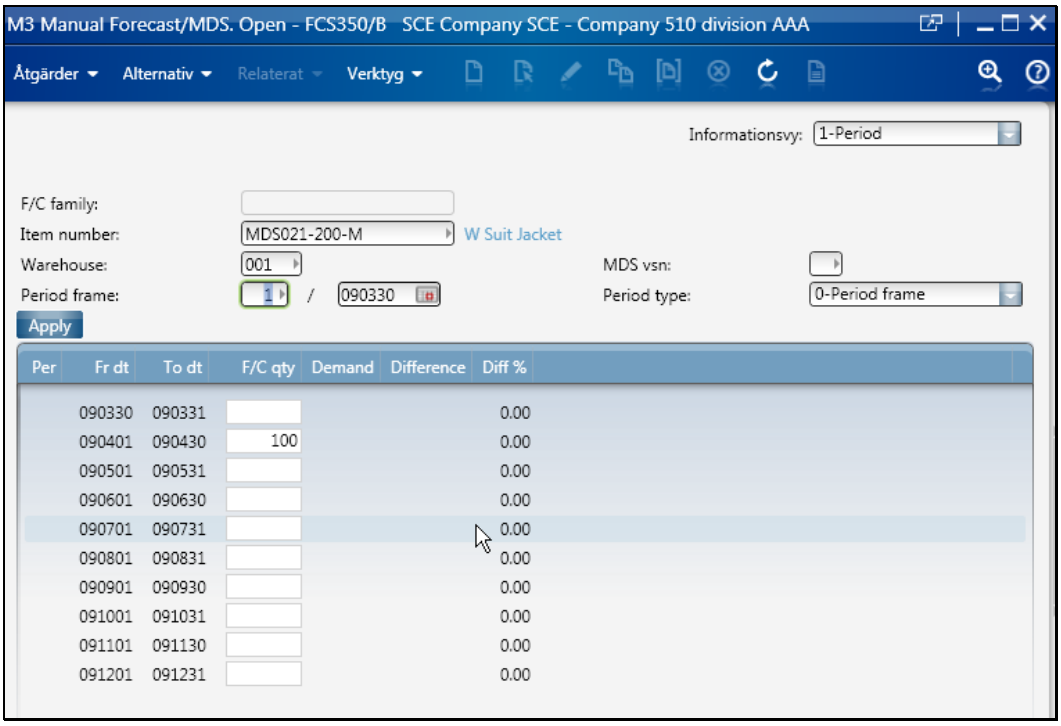
- Supply chain policy MD5:
    - Stop supply chain explosion (SSCE) = 1 - Stop expl
    - Link existing order (NAUL) = 2 – Auto



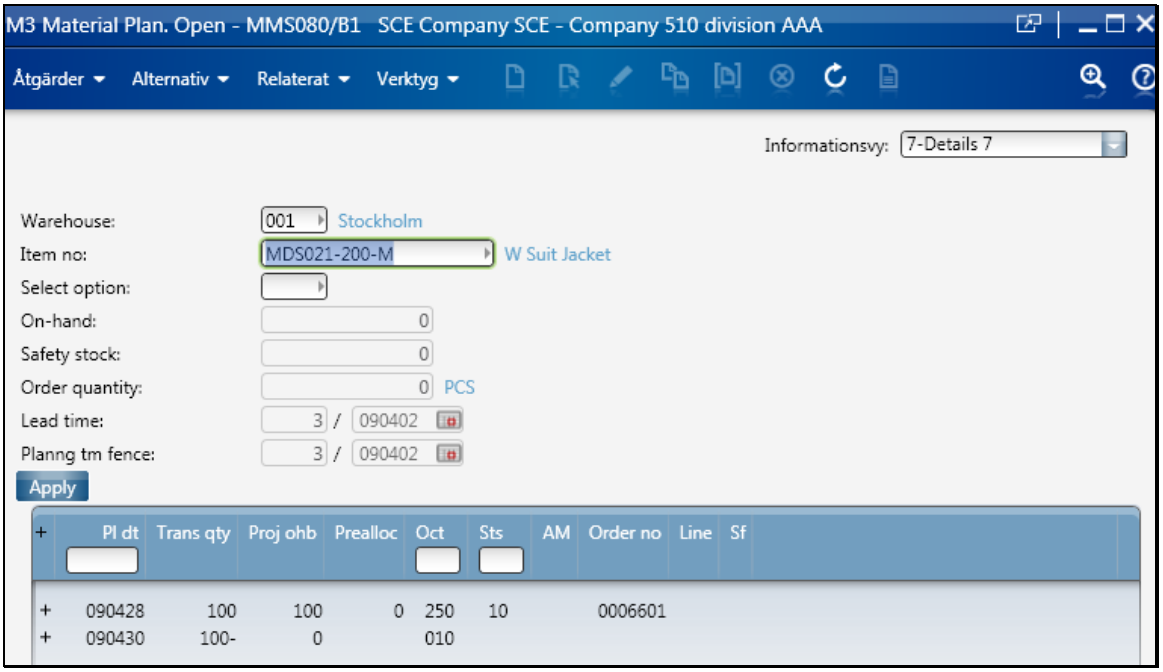
- Forecast logic = 01:



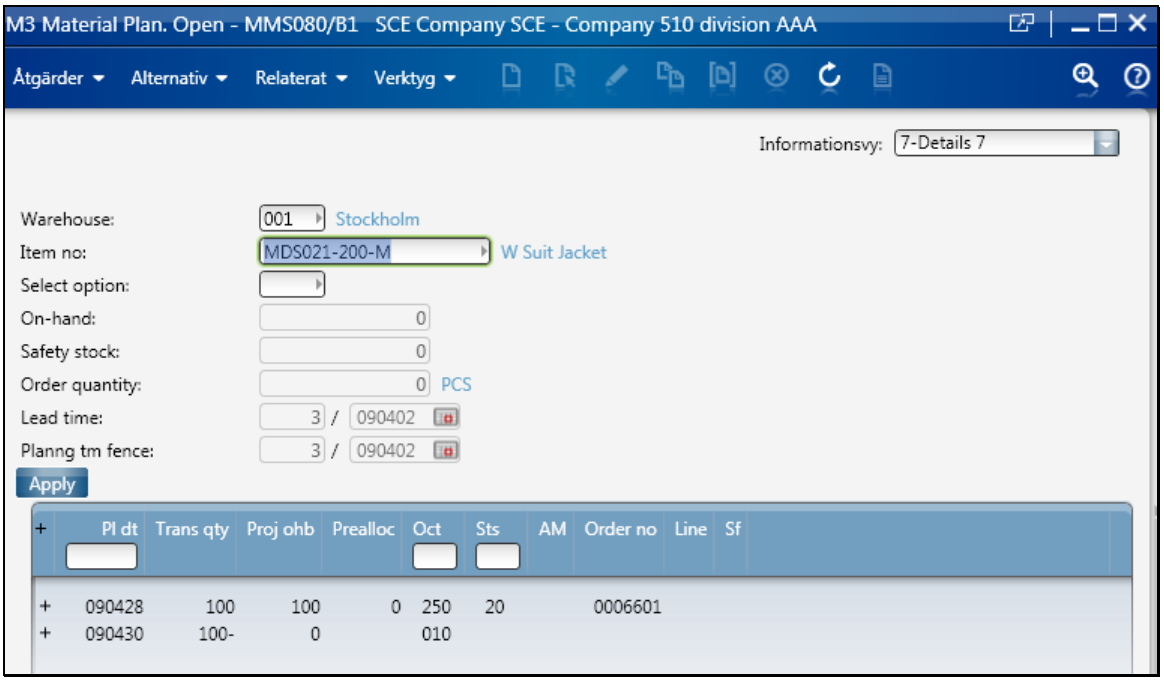
Step 1) A forecast is created with 100 pcs for April:



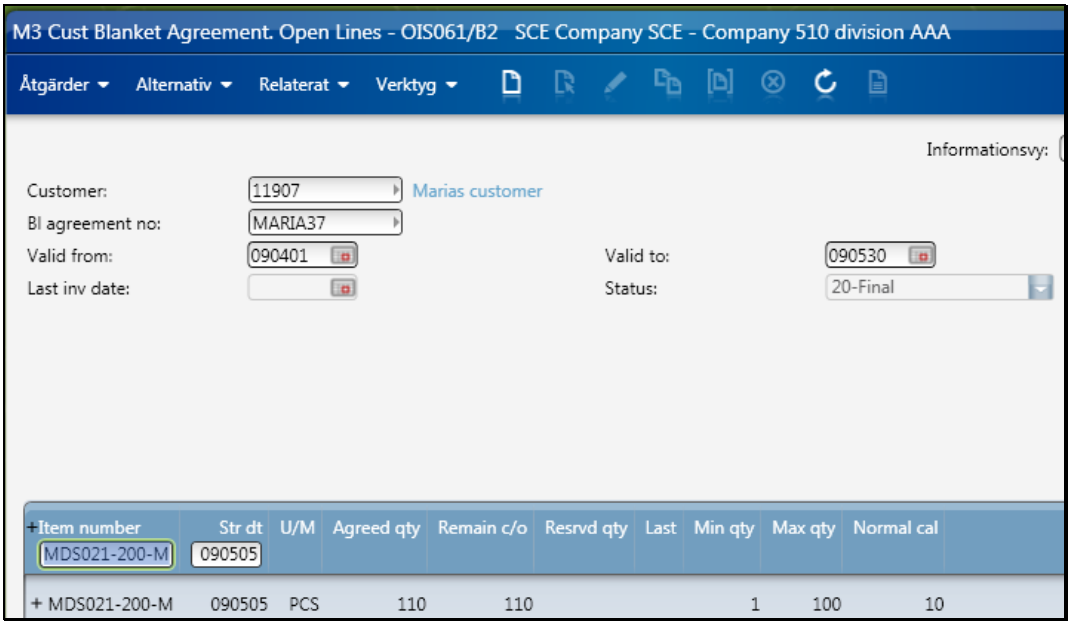
Step 2) Calculate MRP for the item → A planned purchase order is created for the forecast.



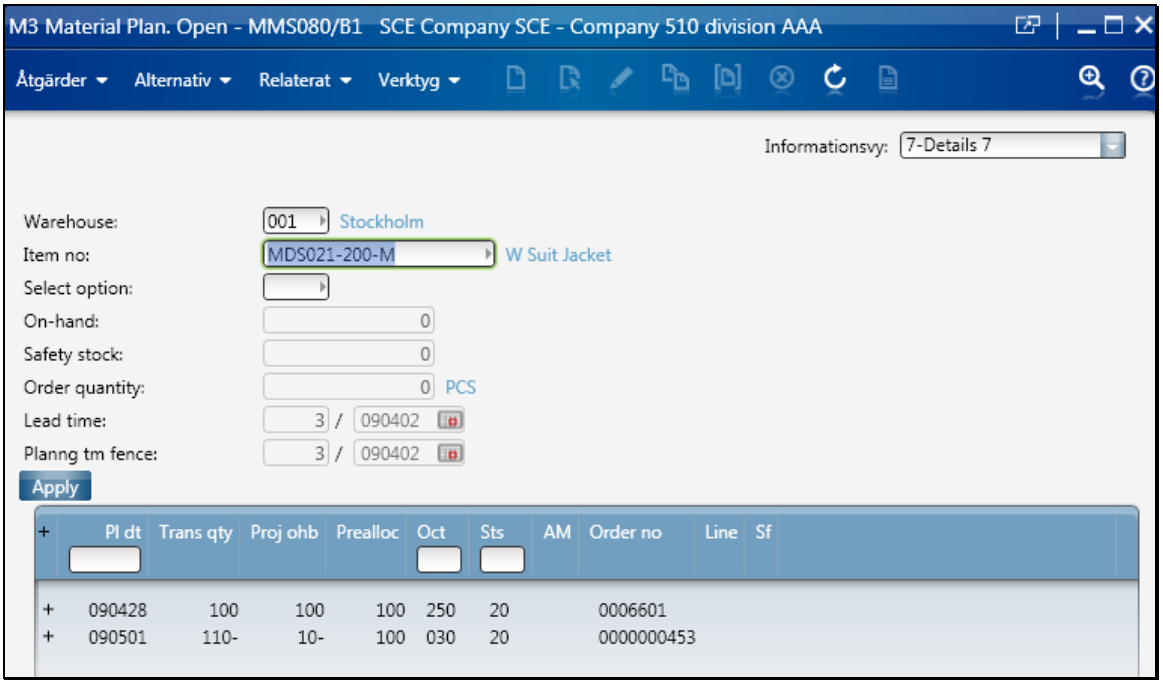
Step 3) Raise the status of the planned purchase order to 20 – Definitive:



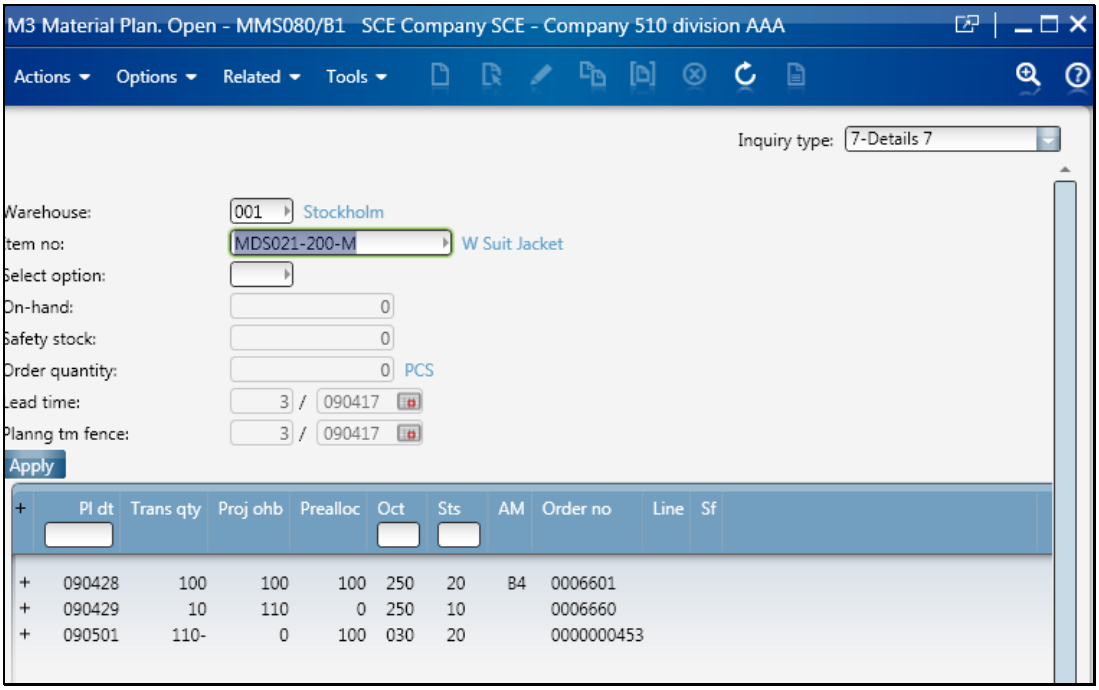
Step 4) A bulk order is received of quantity 110 and with planning date later in time than the planned purchase order.



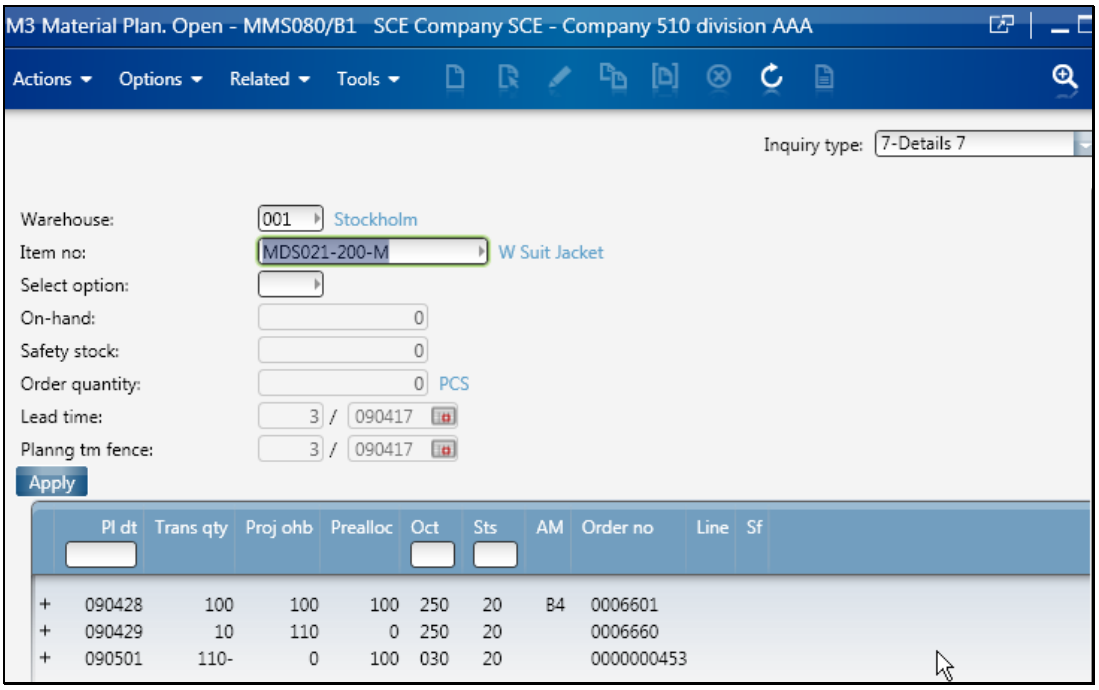
Step 5) The bulk order is released –> A demand order is created for it and is pre-allocated to the planned purchase order.



Step 6) The forecast of 100 pcs has been fully consumed, MRP has been calculated in order to supply the current shortage for the bulk order → A new planned purchase order is created for the shortage.



Step 7) The status of the new planned purchase order is raised to 20 – Definitive, and MRP is calculated again.



As can be seen MRP itself or the firming of the proposal does not trigger an automatic liking to the supply chain order. As a result the remaining quantity on the demand order is not pre-allocated to the new planned purchase order.

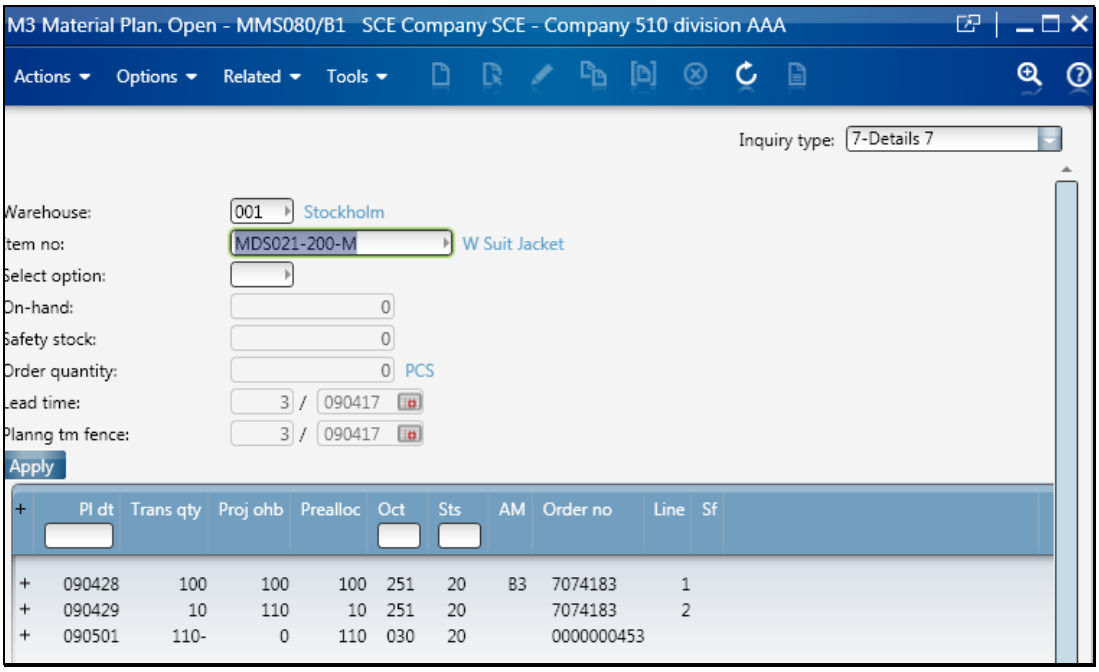
There are 3 alternatives to have the pre-allocation done;

1. The supply chain order is manually regenerated in RPS200,
2. The pre-allocation is done manually in MWS121, or

3. The planned purchase order is released (manually or automatically), then the pre-allocation will be performed automatically.

When performing either of the alternatives the remaining qty will also pre-allocate to the demand order. In this case alternative 3 is used according to below.

Step 8) Planned purchase orders are released. The pre-allocation between the demand order and the first purchase order is maintained, whereas a new pre-allocation is established between the demand order and the new purchase order.



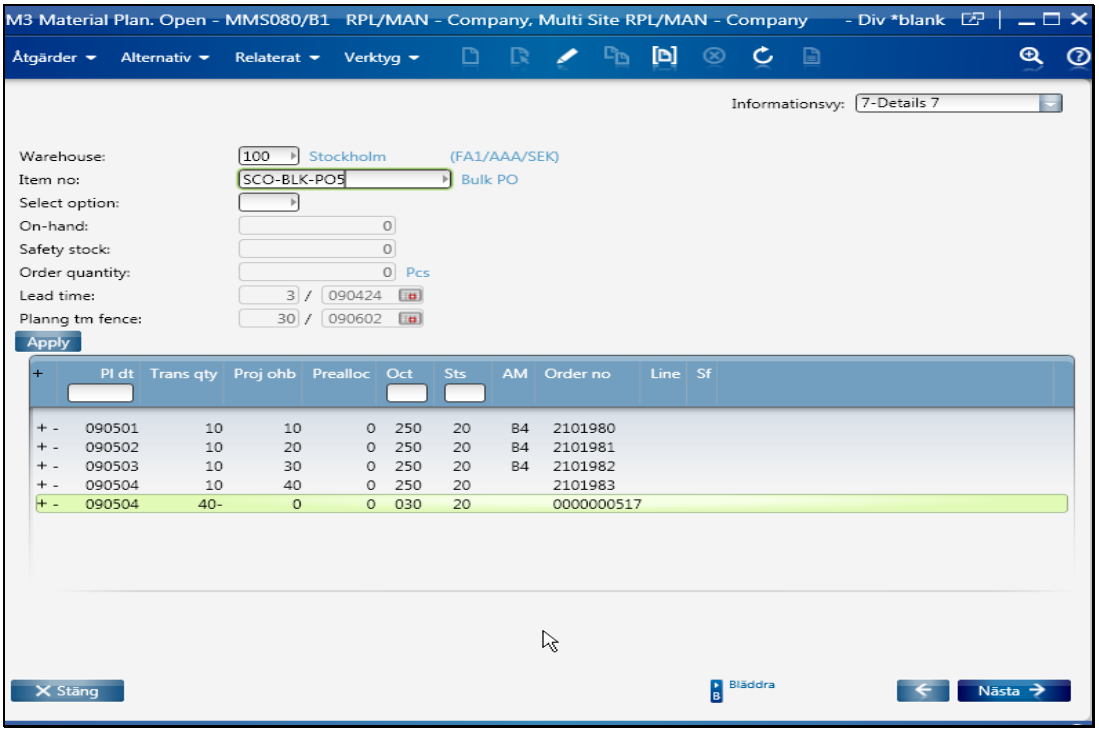
6.2 Pre-allocation of a demand against the sourcing order

The pre-allocation of a sourcing order to a demand is normally performed within the Supply chain order logic i.e. a supply proposal is created and pre-allocated immediately or an existing supply proposal is found and pre-allocated automatically. However, as described in the previous chapter, sometimes the MRP needs to generate a supply proposal in order to cover the remaining quantity. The way to get this supply proposal pre-allocated to a supply chain is:

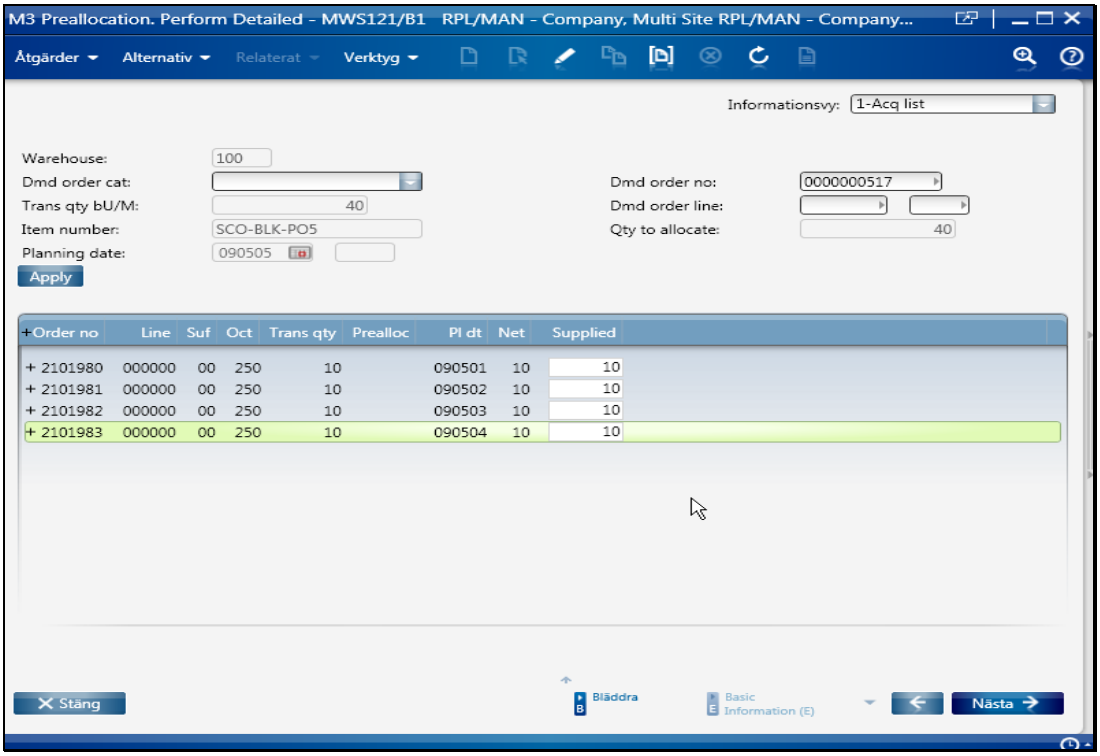
1. The supply chain order is manually regenerated in RPS200,
2. The pre-allocation is done manually in MWS121, or
3. The planned purchase order is released (manually or automatically), then the pre-allocation will be performed automatically.

This chapter will focus on alternative 2.

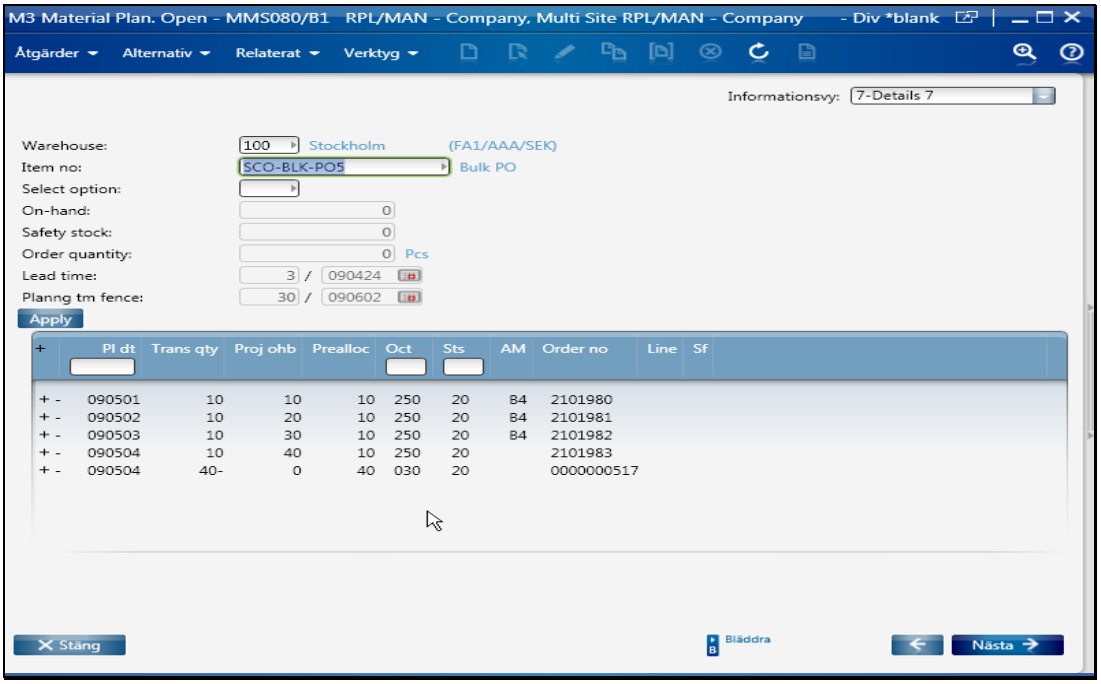
The first scenario is regarding a bulk order that has been created before any supply exists i.e. no forecast is present. The MRP has generated, in this case, four purchase order proposals.



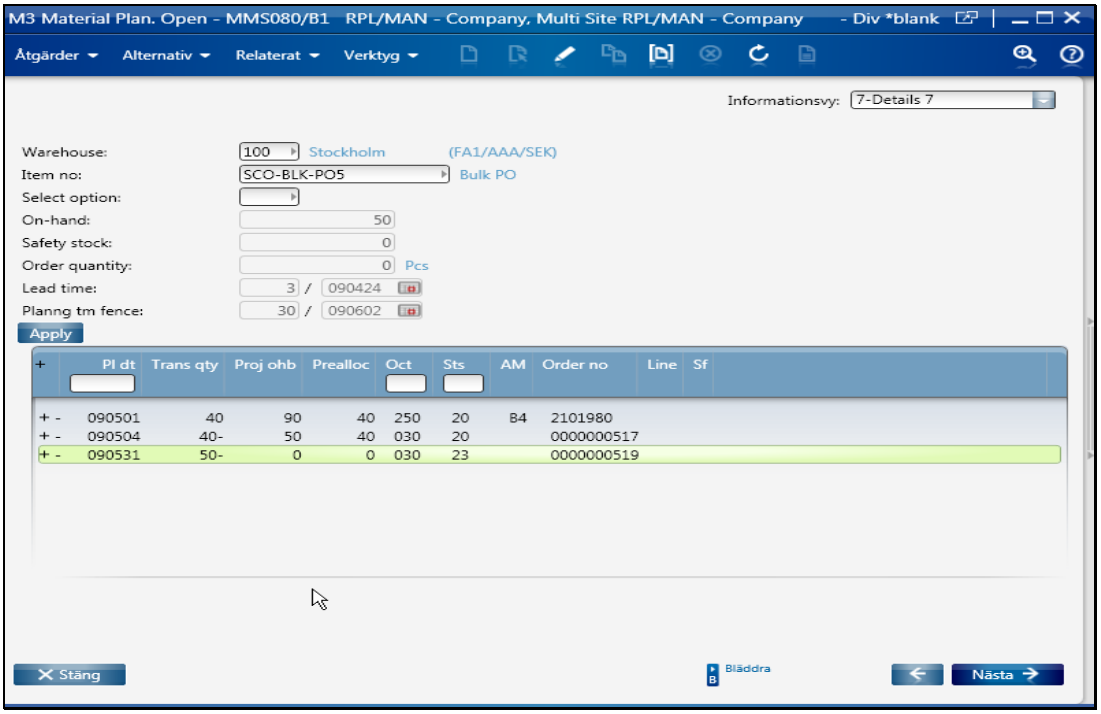
In this scenario we want to manually pre-allocate the Demand order against the supply proposals. This is done in MWS121.

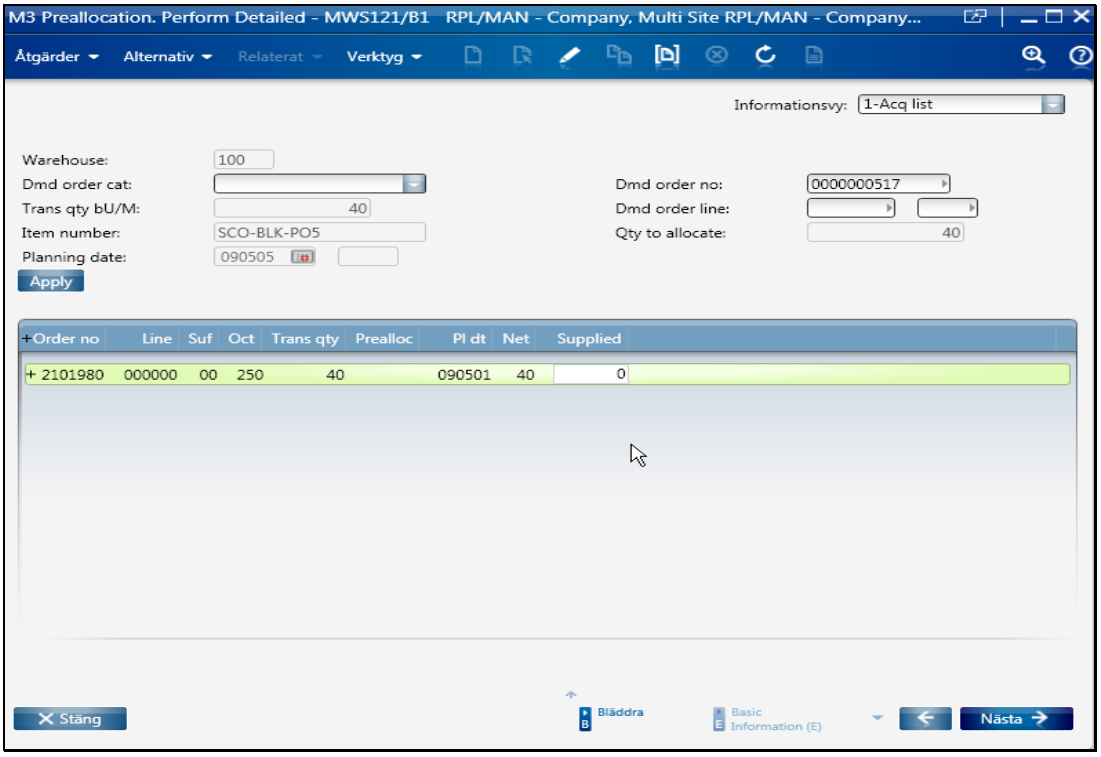


In MWS121 you can manually pre-allocate the supply orders that have available quantities. This results in that the pre-allocated quantities are displayed in MMS080.

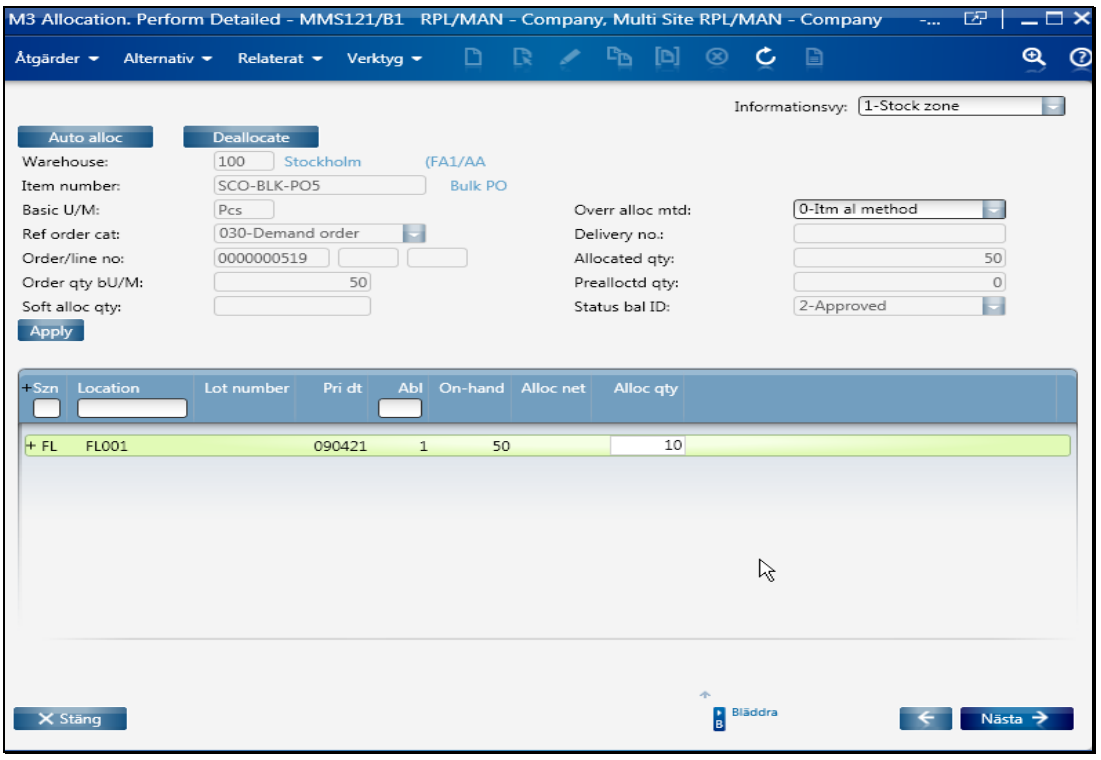


In this next scenario a Demand order of 40 pcs has made the MRP to generate a supply proposal of 40 pcs. This proposal has been manually pre-allocated to the Demand order.
Suddenly we've found 50 pcs in stock and when the second bulk order is created it has automatically found the stock and allocated it. Since the first bulk order is for an earlier date it would be better to use the stock for that order and move the pre-allocation for the purchase order proposal to the second Demand order.

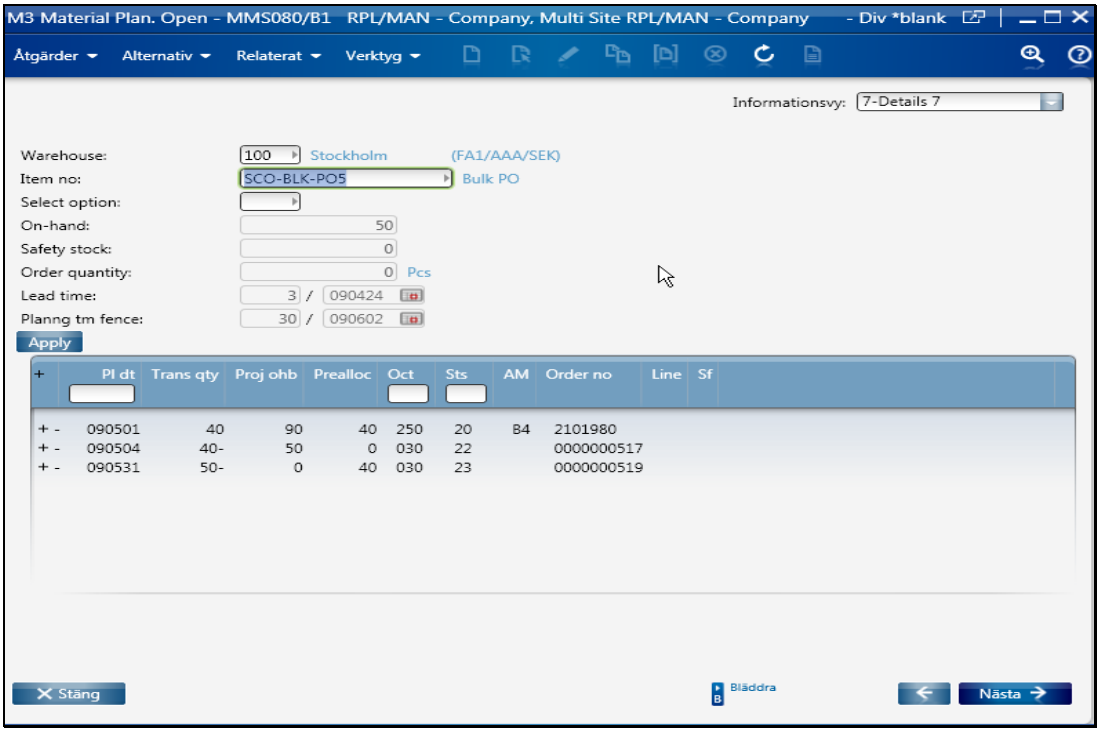




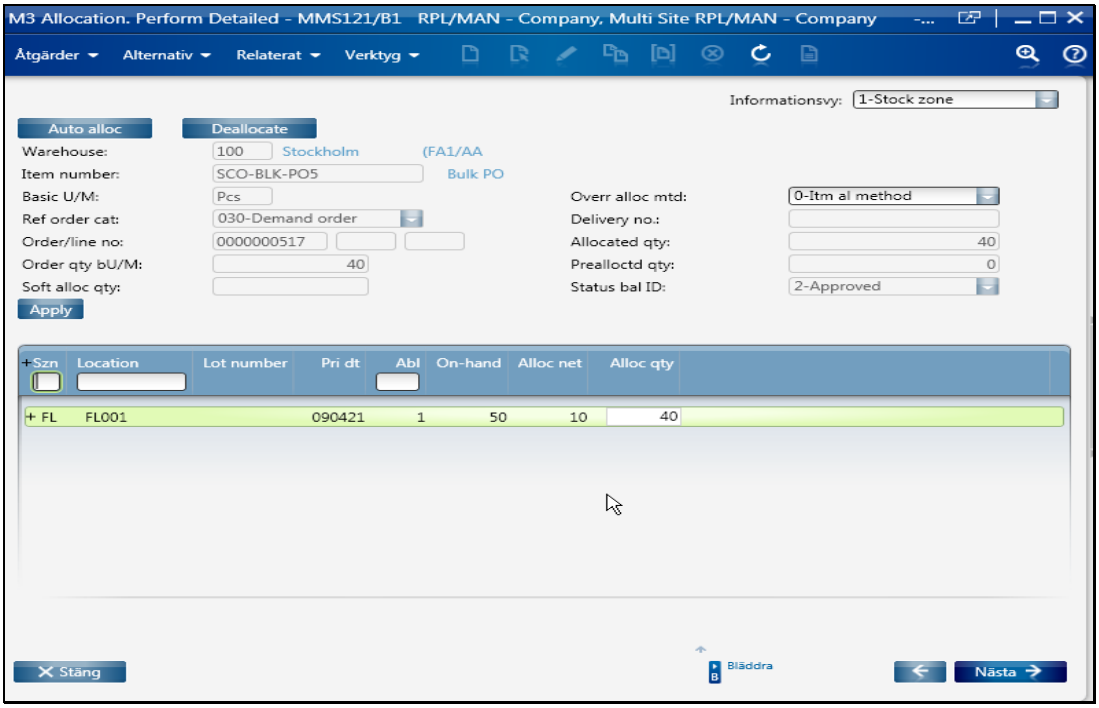
The first thing to do is to reduce the pre-allocated quantity on the first Demand order. Since the stock could cover everything we set the pre-allocated quantity to 0.



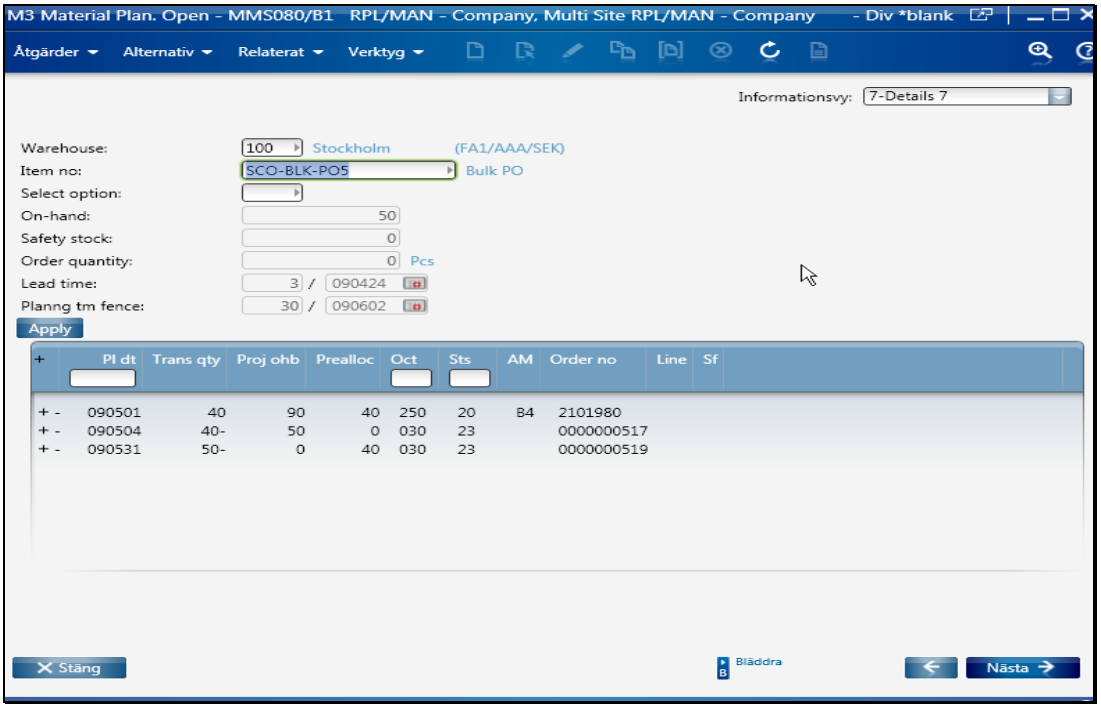
The second step is to reduce the allocation for the second Demand order. Since I know that the first Demand order only required 40 pcs I will leave 10 pcs for this Demand order.



Note that reducing the allocation from 50 to 10 triggered a regeneration of the supply chain and hence the available 40 pcs were automatically pre-allocated. The triggering of the supply chain regeneration is done automatically when leaving MMS120.



The last step is to allocate the now available 40 pcs to the first Demand order.



This is the result i.e. the first Demand order of 40 pcs is now allocated against stock. The second Demand order of 50 pcs has got 10 pcs allocated against stock and the remaining 40 pcs pre-allocated against the purchase order proposal.

6.3 Allocation of distros within a bulk order

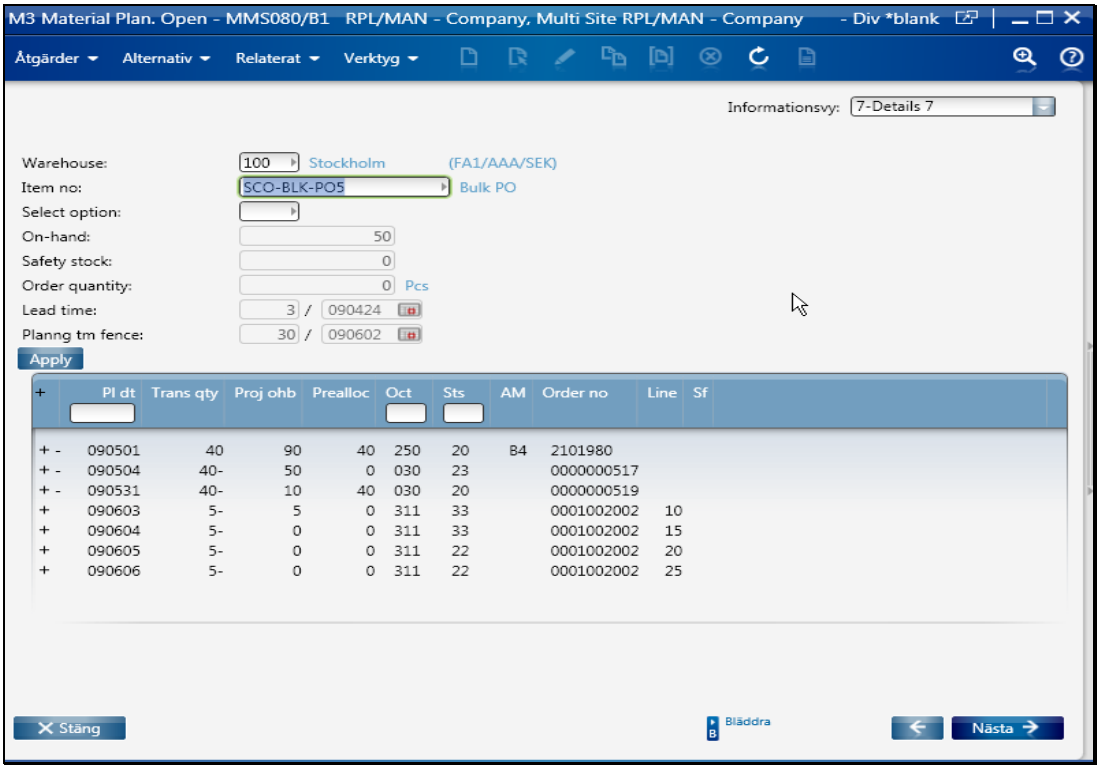
A supply order intended for a bulk order is not available for any other order. It is intended to be used only for distros belonging to the correct bulk order agreement.

When a demand order which is connected to a bulk order generates a supply order, this supply order will be fully pre-allocated to the demand order i.e. protected from all other demands. This pre-allocation will remain until the supply order is received into stock, at that point the pre-allocation will be transformed into an allocation against stock for the demand order. This means that the received quantity will be protected from being allocated to any other demand, except demands connected to the correct bulk order agreement.

When a distro is entered and connected to a bulk order agreement some of the normal SCO rules are disabled. The first thing that happens is that only a Supply chain order header will be created i.e. no explosion of the supply chain. Instead a check is made against the bulk order in order to see if the bulk order has any allocated stock. If allocated stock exists it will be transferred from the bulk order to the customer order instead. If no allocated stock exists the customer order will stay in status 22 and wait for a stock receipt against the correct bulk order.

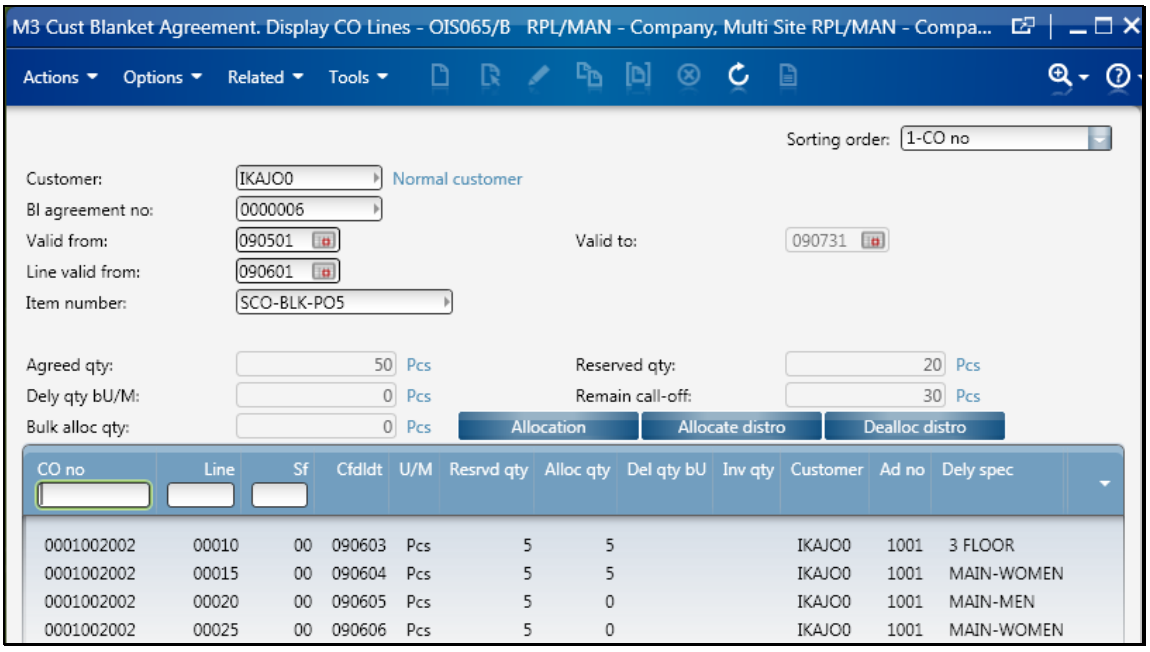
When a stock receipt is performed on a supply order connected to a bulk order the pre-allocation will transform to an allocation. Then a check against all distros connected to the bulk order agreement will be done in order to see if any of the allocations on the bulk order should be transferred to a distro instead.

This scenario starts off where the last scenario in the previous chapter ended.



Four distros have been received. They are all connected to the second bulk order. That bulk order had a quantity of 50 pcs where 10 pcs were allocated and 40 pcs were pre-allocated. As you now can see the 10 allocated pcs have been transferred to the first two distros and the Demand order has been reduced to 40 pcs. These two distros are also affecting the material plan whilst the next two distros are not affecting the material plan. This is because the last two distros are not allocated and hence just wait for a receipt connected to this Demand order.

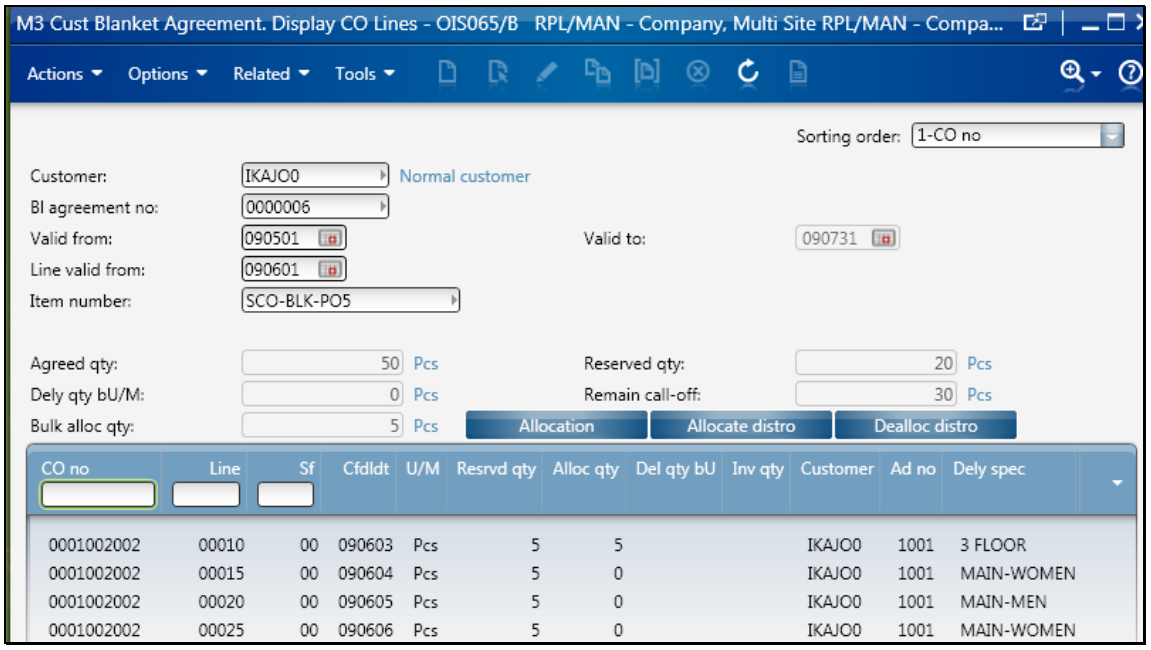
Suddenly the customer calls and tells you that he actually wants the fourth distro before the other ones i.e. you need to re-prioritize the allocations. This is done in OIS065 which is reached from the Bulk order toolbox OIS305, select the “Agreement lines”, from there select the “Customer order lines”.



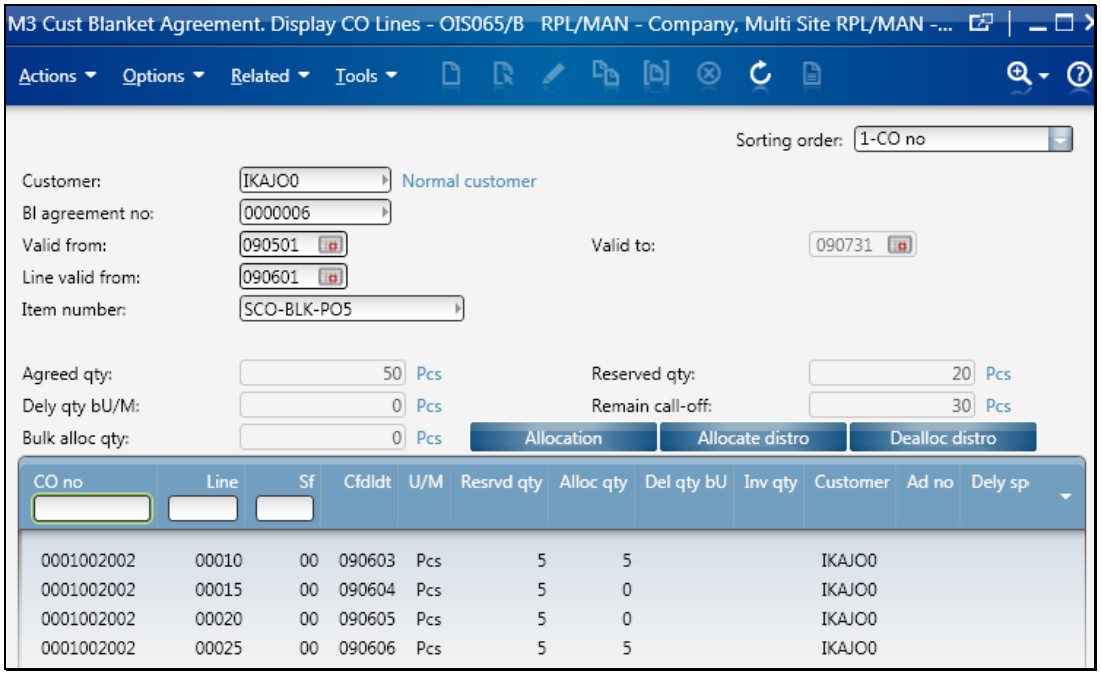
The idea here is that you can either:

- Press the “Deallocate all” button, which will deallocate all distro allocations made on this bulk order.
  Press the “Allocate all” button, which will perform an automatic allocation on all distros connected to this bulk order. This allocation is performed in requested delivery date order.
  This will allow you to change the requested delivery date on your distros and, in this example, reschedule in the last distro. Then you can deallocate and allocate all. Since the requested delivery dates have been changed the allocation will respect and allocate the earliest distro first.
- Or you can right click on one of the distro allocations and choose “Deallocate” which will deallocate that particular line. Then you can right click on the line you want to allocate and choose “Allocate” which will allocate that line.

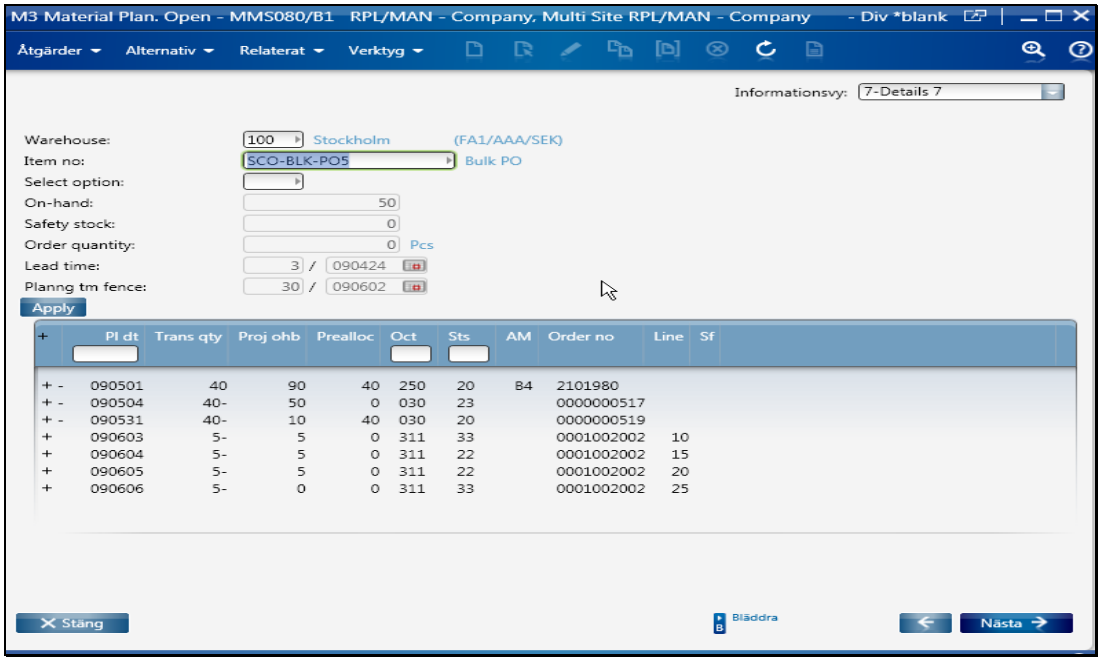
In this scenario we will use the second alternative.



Here the second distro line has been deallocated. Note that the “Bulk allocated quantity” (OI06504) now displays 5 pcs. This is because the deallocation transferred the allocated quantity from the distro back to the bulk order i.e. 5 is now available to be used for another distro.



Here we've allocated the last distro line instead by right clicking and choosing "Allocate".



Looking at the material plan we can see that the first and the last line is allocated instead and could therefore be shipped to the customer.

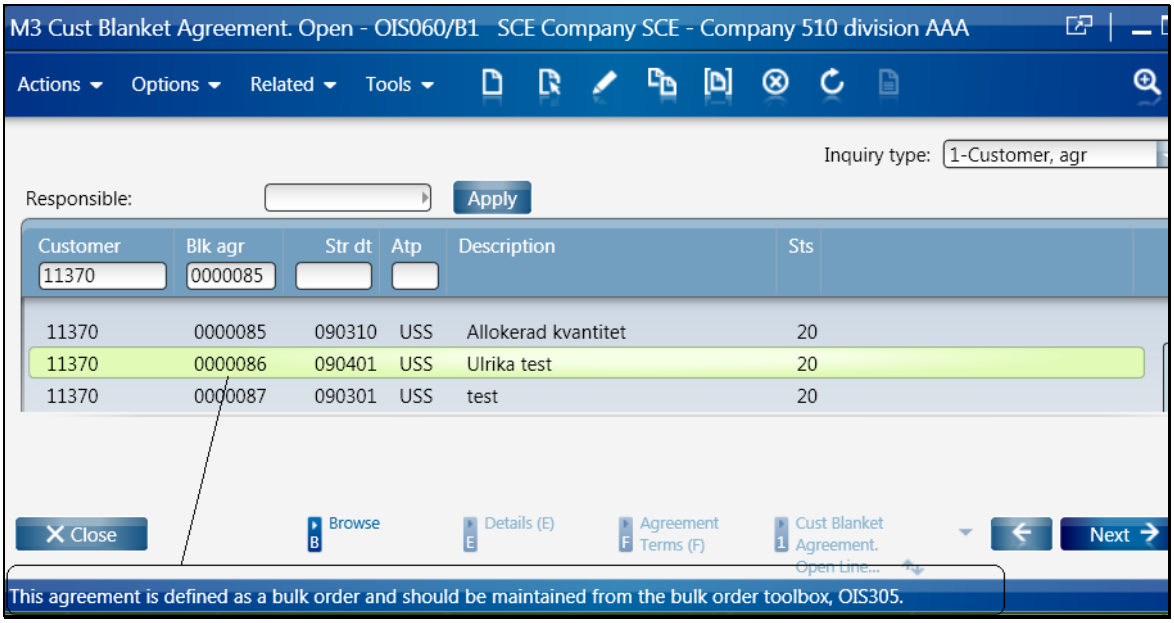
7 Changes to bulk orders

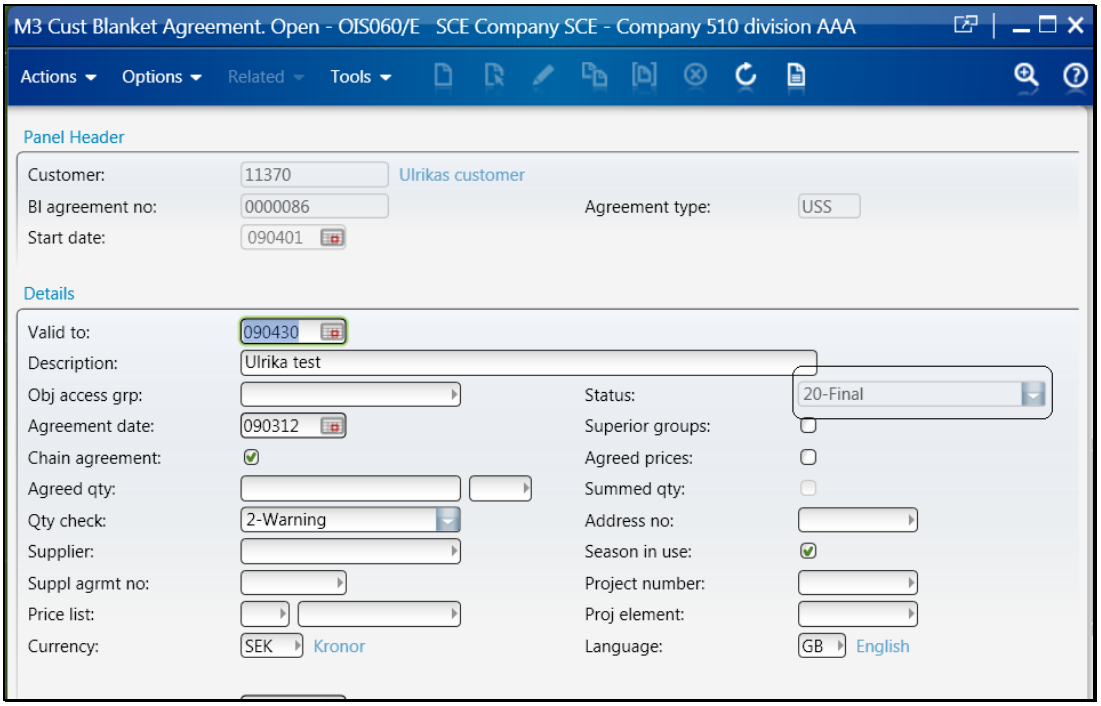
There are some rules on where to do updates and what is allowed to update. This is what this section aims to document.

7.1 Changes in customer blanket agreement

When changing or creating a bulk order from the customer agreement standard program OIS060, a message will be displayed informing the user that bulk orders should be maintained from the bulk order toolbox, OIS305. Also the status field is a locked field. This functionality only applies for agreements that are defined as bulk orders.

The reason for these changes is to have control of the bulk order process and to minimize risks of updating by mistake.





7.2 Changes in demand order

Demand orders of type BLK, meaning that the origin of the demand is a bulk order, cannot be changed or deleted in program RPS170. All changes referring to planning date, quantity or deletion should be performed from the bulk order line (program OIS061).

It is not allowed to:

- change a demand order with BLK origin. Message given:
  Option 2 is invalid
- delete a demand order with BLK origin. Message given:
  Option 4 is invalid

7.3 Changes of bulk order line date or quantity

To have a controlled process for changing bulk order line agreed quantities, an option (32) from the bulk order toolbox has been introduced. The line valid to-date can also be updated with this function. It is possible to combine an update of agreed quantity with and update of line valid to date in the same run.

The program always opens up empty.

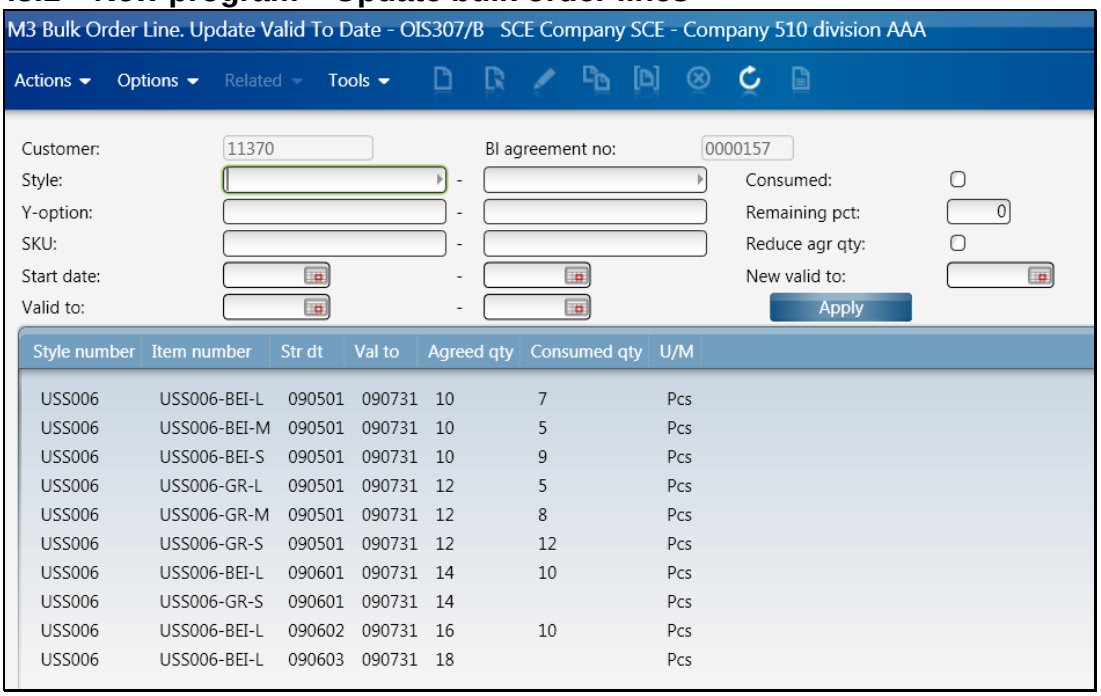
By doing ***selections*** you filter the bulk order lines to be updated. A large number of fields are available for selections of data to be displayed in the list below.

Two ***action*** fields are possible to use:

- Reduce agreed quantity
- New line valid to date.

The action is performed with function key F14 for the data selected.

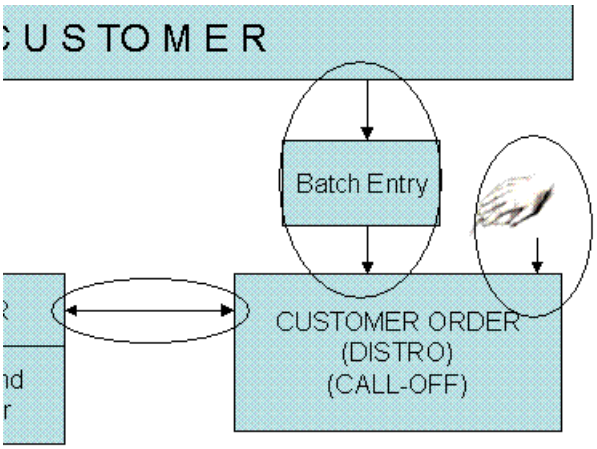
7.3.1 New program – Update bulk order lines



Field	Description
Style	Selection field for style
Y-option	Selection field for Y-option, normally color
SKU	Selection field for SKU
Start date	Selection field for start date
Valid to	Selection field for valid to date
Consumed	Selection field for fully consumed and over consumed bulk order lines
Remaining pct	Selection fields for quantity remaining to be consumed on bulk order lines
Reduce agreed qty	*Action field* to reduce the agreed quantity to be equal to consumed quantity for the selected bulk order lines. Note that the agreed quantity will not be updated for over-consumed bulk order lines.
New valid to	*Action field* to update the line valid to date for the selected bulk order lines.

To perform the actions selected for the selected bulk order lines, **function key F14** is used.

8 Distro orders (call-off)

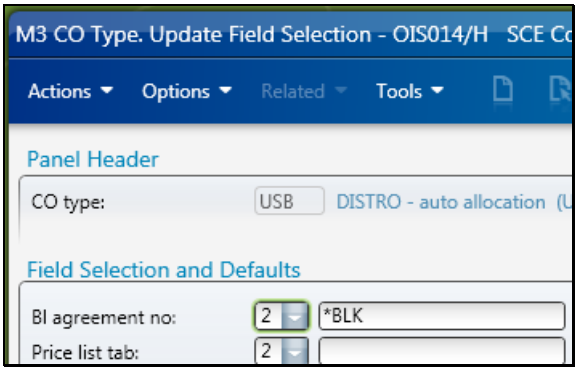


In this phase of bulk order development, a distro (call-off) is always a customer order.

8.1 Manually create and maintain distros (call-offs) against bulk order

New functionality developed for the distro entry:

The customer order type has to be set up for distro functionality (setting *BLK on OIS014/F).



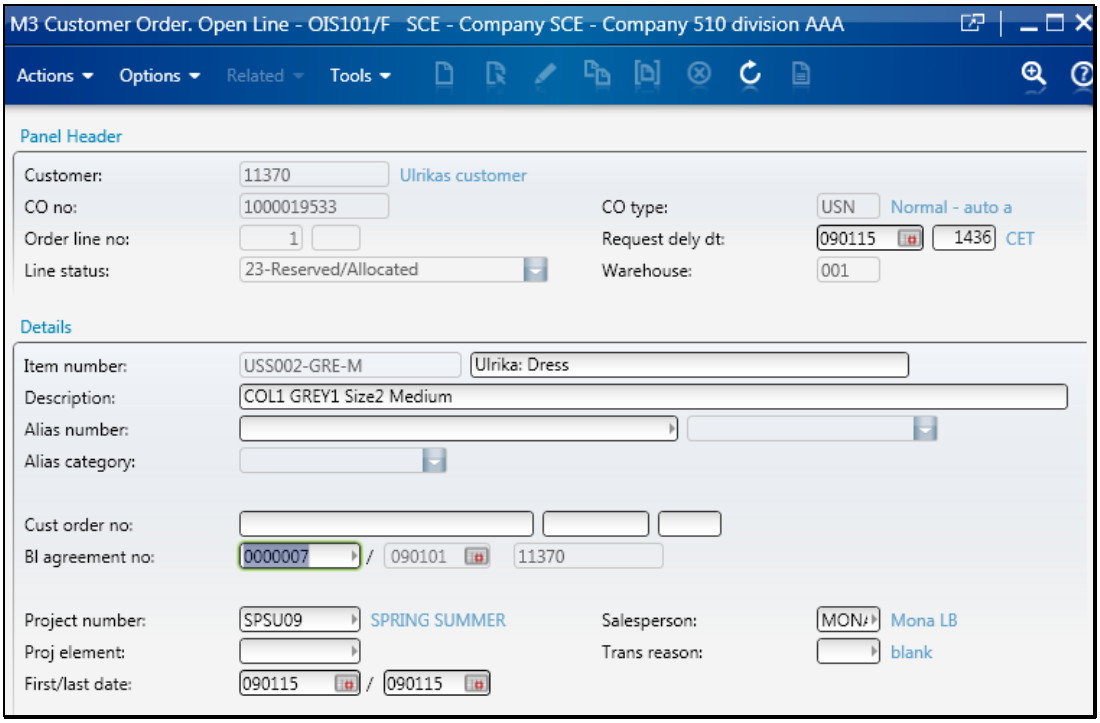
With this setting on a distro order type, the following functionality follows:

- it is mandatory with a bulk order for every distro line
- only bulk orders are allowed, not customer blanket agreements
- the warehouse for the distro line is used when finding valid bulk orders (agreements). Only bulk orders with the same warehouse will be available for the distro.

Apart from the new warehouse control, standard functionality is used to find valid bulk orders (agreements) to consume. The distro (call-off) can be connected to a bulk order depending on settings on the customer and customer order type.

Important to know:

- A distro (call-off) is entered from OIS100 or OIS100MI.
- It is not necessary to connect the distro (call-off) header to a bulk order – it can be done for *lines only*. Use the settings in CRS610/F to decide how the agreement will be be retrieved.
- You can see the agreement number for a distro line on OIS101/F:



8.2 Create distros through API transactions

No new functionality has been developed for customer order via API.

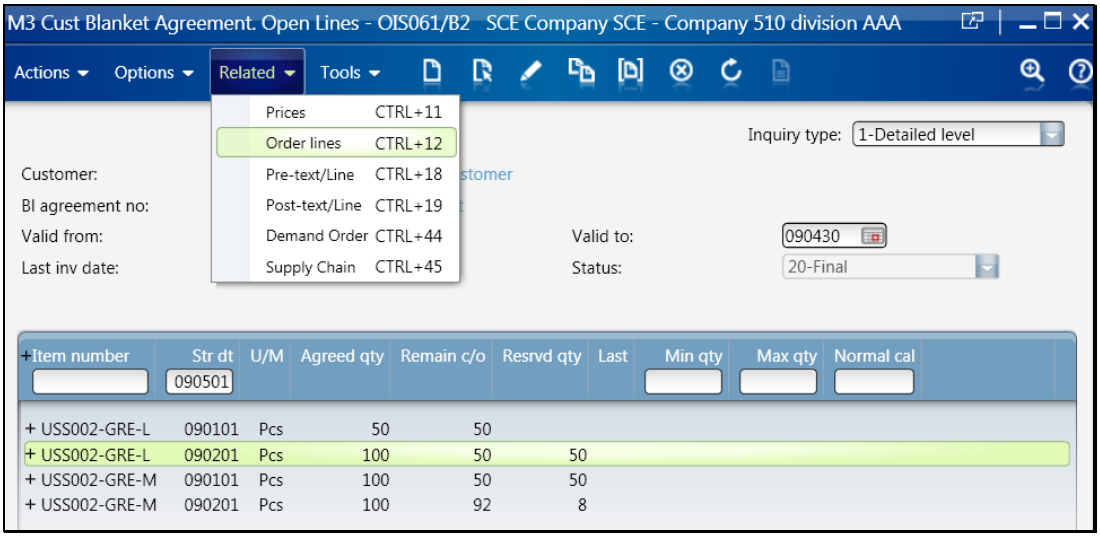
Existing standard program OIS100MI is used.

8.3 Distro consumption visible on bulk order

This follows standard functionality. The requirement is that the distro (call-off) is connected to the bulk order.

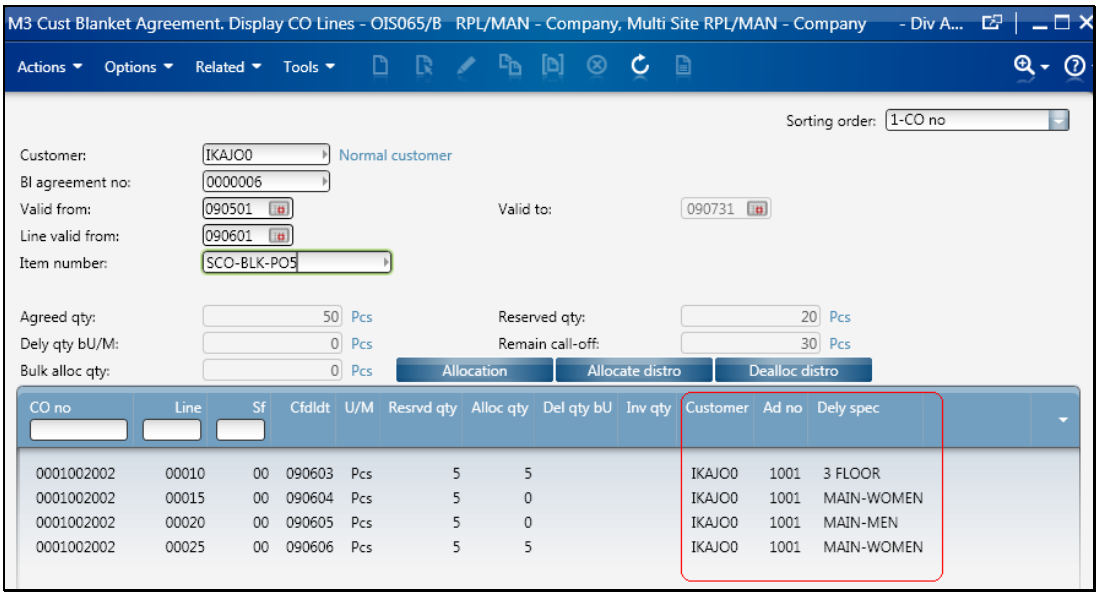
Once the customer order line has been entered, the customer order line will be visible on the bulk order line. See the example in the picture below:

- Bulk order lines (OIS061):



Use option 12 on a bulk order line. This will take you to the distro lines where some new fields are visible:

- Customer — The customer field is interesting when using agreement for business chains.
- Address number — Address number from the distro line.
- Delivery specification — Delivery specification from the distro line.



8.4 Distro reduces demand order quantity

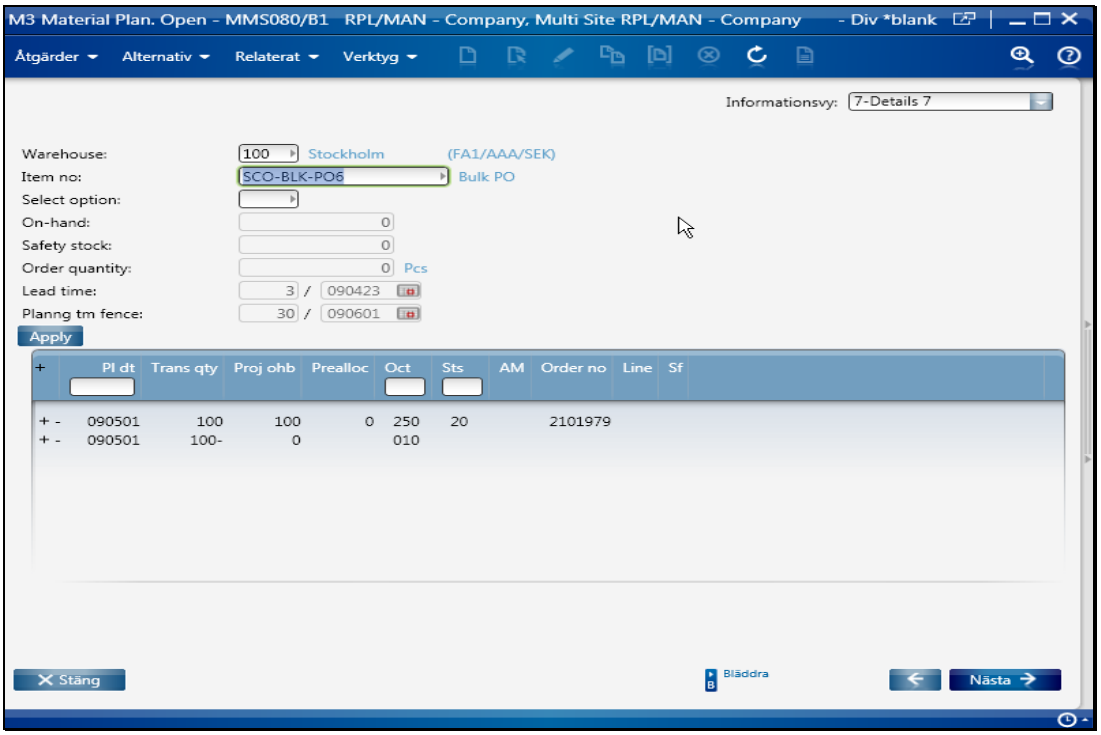
The purpose of a demand order is to generate acquisition orders in order to have the agreed quantities in stock when the distro do the call-off. This also means that the agreed quantities need to be protected from demand that does not belong to the correct bulk order agreement. This is done by having the supply fully preallocated/allocated to the bulk order.

Since the bulk order quantity by definition includes also the distro quantity there is a strict rule regarding when the bulk order quantity should be reduced by the distro quantity. This reduction is done as soon as any allocated quantity on the

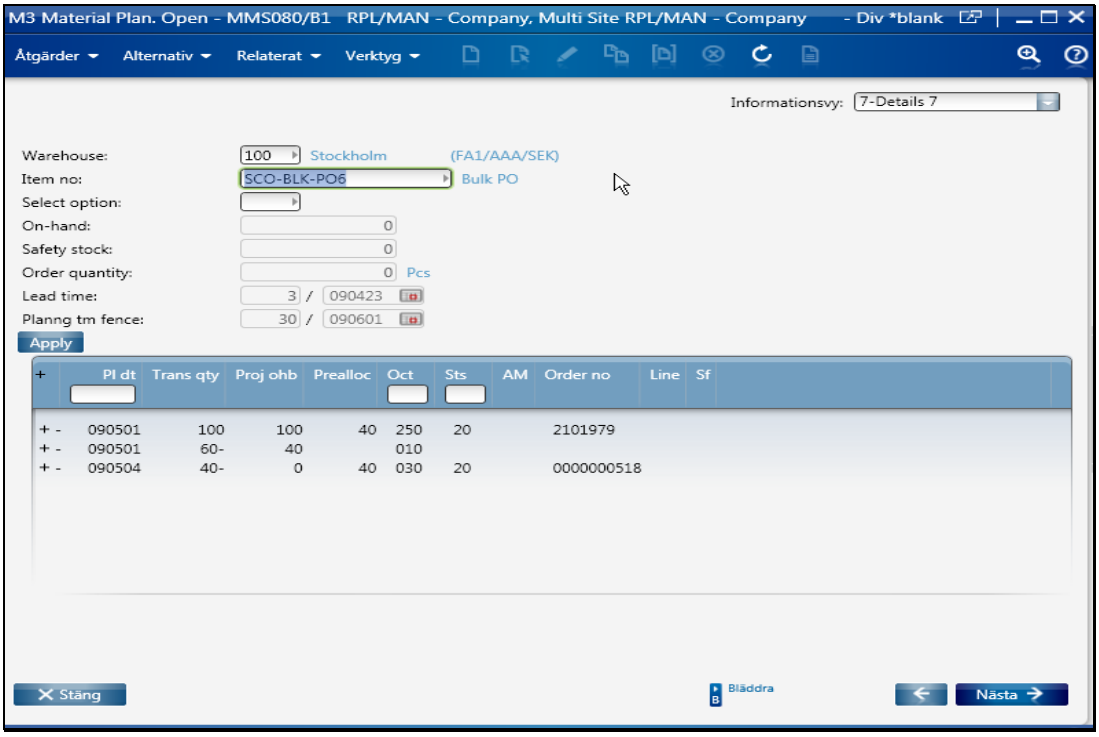
bulk order is transferred to the distro. This means that only allocated quantities on the distros are affecting the material plan. If the distro contains unallocated quantity it is instead the bulk order (demand order part) that affects the material plan.

This is also valid for forecasts i.e. the bulk order consumes the forecast up to the point where a distro gets allocated. Then the bulk order (demand order part) gets reduced by the allocated distro and the distro itself is consuming the forecast.

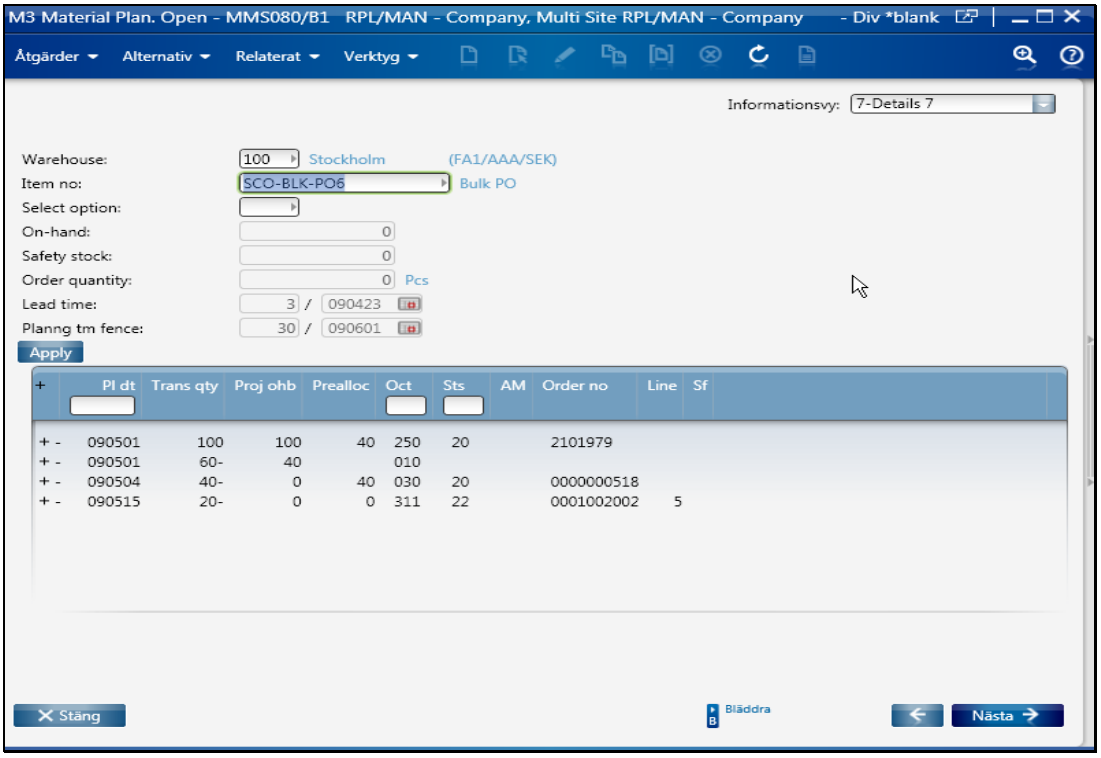
Example of consumption of forecast and bulk orders:



This is a normal situation where a forecast of 100 pcs has created a Purchase order proposal of 100 pcs.

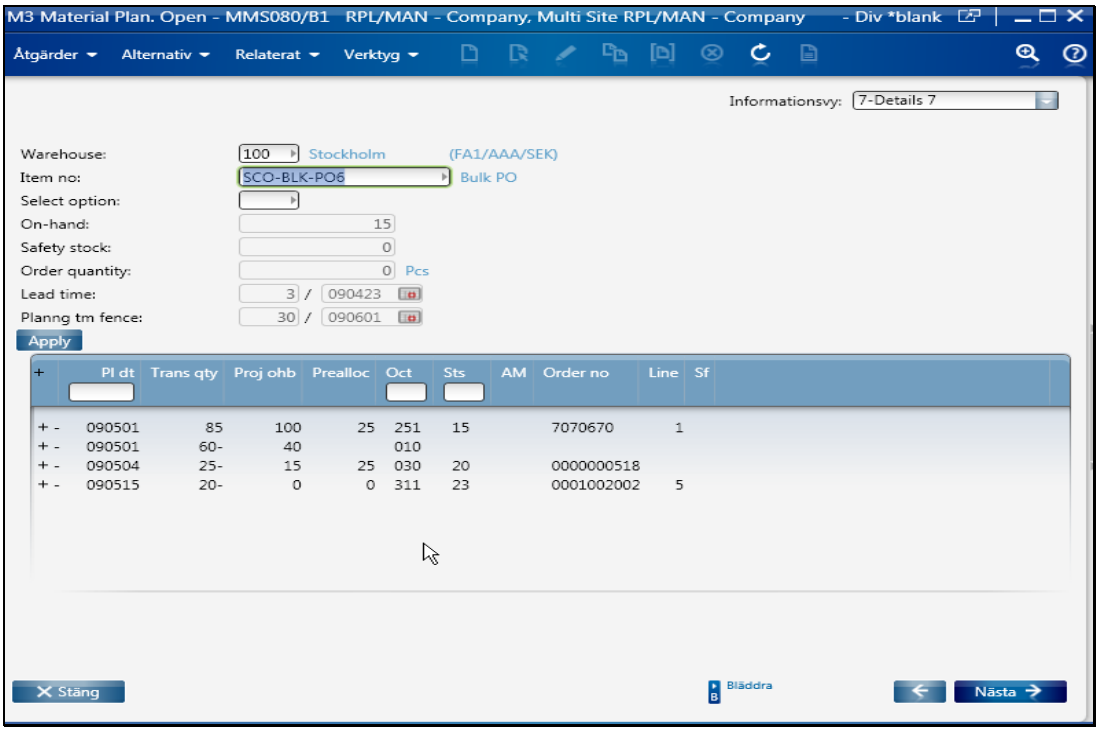


A bulk order of 40 pcs has been created. This bulk order has triggered a demand order for 40 pcs which is supplied from the existing purchase order proposal. Note that the forecast has been consumed by 40 pcs since it is always assumed that the forecast quantity also includes the predicted bulk order quantity.



A distro of 20 pcs has been received. Since no stock existed there were nothing to allocate for this distro and hence the status is 22. Note that the distro neither affects the projected on hand balance nor the forecast. This is because

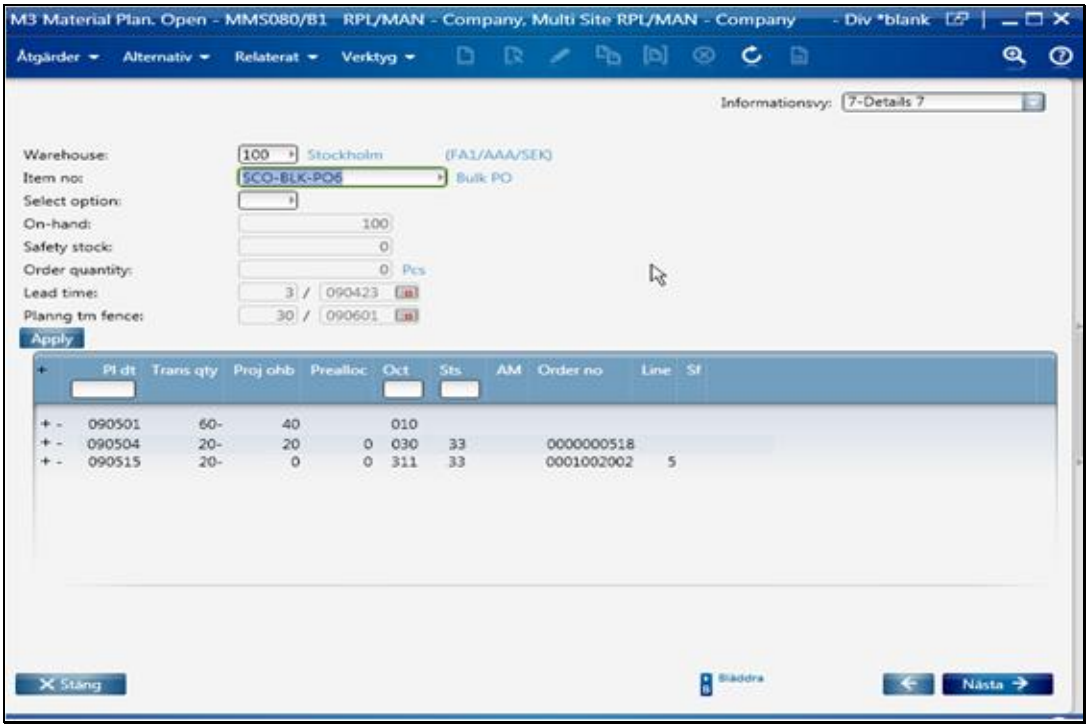
the distro is in status 22 and hence the bulk order still contains the full quantity of 40 pcs.



At this point the Purchase order proposal has been released and 15 pcs has been received. These 15 pcs has been allocated to the Demand order and then transferred to the distro which now is in status 23. Note that the Demand order quantity has been reduced by 15 pcs because the distro has got some allocated quantity from the Demand order. So the Demand order quantity in the material plan is Original quantity (40) – consumed quantity (-15) = 25 pcs.

The forecast figure seems untouched but the consumption of the forecast is now done by the Demand order (25) and by the allocated quantity of the distro (15).

The unallocated quantity of the distro (5) is still not affecting the material plan.



The remaining part of the purchase order has been received. The distro is fully allocated and the Demand order has been reduced further by 5 pcs. This is because 5 pcs were allocated to the Demand order and transferred to the distro as an allocation.
The forecast is now consumed by the Demand order (20) and the distro (20).

8.5 Re-allocation of distros

This is done in program OIS065. See chapter 6.3.

9 Close bulk order

Closing a bulk order is a manual process performed with option 31.

When a bulk order is closed, it is no longer valid and can no longer be consumed by distros. The bulk order will get status 80 and the related demand orders will be closed.

Validations when a bulk order is closed:

- If non invoiced distros exists it is not possible to close the bulk order. A warning message will be displayed:

  "Closing is not allowed. Non-invoiced distro lines exist."

- If valid to date is still valid or if remaining quantity exists (it has not been fully consumed), a warning message will be displayed, that needs to be confirmed in order to perform the closing:

  "WARNING - This bulk order is still valid or has a remaining quantity. If you close it, it can no longer be consumed by distros."

Examples on how to handle different situations:

- If the user wants to close the bulk order but not invoice the distros, he can delete the distros first, and thereafter close the bulk order.

- If the user wants the customer to receive whatever he has ordered on distros and thereafter stop the bulk order, he can reduce the quantity on bulk order lines to the quantity on distros (see option 32 from OIS305) and also set the quantity tolerance in OIS060/E equal to 3. In that way, no more distros can be entered and the acquisition of the total quantity will be stopped.

NOTE that there is no roll-back possibility. This means that if a bulk order has been closed and that for some reason this should not have been done, there is no possibility to make the bulk order active again. You will have to create a copy of the bulk order.

10 Bulk order documents

Two documents are printed from the bulk order toolbox: Bulk order confirmation and Bulk order consumption. These documents are documents already existing for the customer blanket agreement but made available from bulk order toolbox. Also fields have been added to the bulk order confirmation document and for bulk order it is controlled by parameters in the customer agreement type.

Another way of creating reports displaying consumption is to work with OIS306 to display the information you want to see and thereafter use the Smart Office Export-function to export the data to MS Excel.

10.1 Changed program – Customer blanket agreement type – OIS063

There are two new parameters in the customer blanket agreement type (OIS063) to control the bulk order confirmation printout:

Auto print:	Automatic print out or only printed when requested for.
Document layout:	Print out with a list layout or with a matrix layout.

10.2 Changed document – Bulk order confirmation – OIS631PF – list layout

BULK ORDER CONFIRMATION Page: 1(2)

Date
09-06-29
Agr date
09-04-29
Agr number
0000157
Customer
11370
Your dt
09-04-25
Your order no
12345678901234567890
Customer
Ulrikas customer
Sodra Gubberogatan 4
SE-416 63 Gothenburg
City
Sweden

Validity time
09-05-01 - 09-07-31
Cash disc term
Our reference
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Delivery method
Your reference
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
Delivery terms
Test
Currency
SEK Kronor
Payment terms

Salesperson
Mona LB
Responsible
Ulrika Stromberg
Project number
SPSU09

Item number / Style no / Agr qty U/M	Start date / Min qty U/M	Guide price / Agreed price	Pr qty	Disc/unit
USS006-BEI-L USS006 10 Pcs	Ulrika: Dress 090501	800.00		
USS006-BEI-M USS006 10 Pcs	Ulrika: Dress 090501	800.00		
USS006-BEI-S USS006 10 Pcs	Ulrika: Dress 090501	800.00		
USS006-GR-L USS006 12 Pcs	Ulrika: Dress 090501	800.00		

10.3 Changed document – Bulk order confirmation – OIS631PF – matrix layout

BULK ORDER CONFIRMATION **Page: 1(1)**

Date
09-06-29
Agr date
09-04-29
Agr number
0000157
Customer
11370
Your dt
09-04-25
Your order no
12345678901234567890
Customer
Ulrikas customer
Sodra Gubberogatan 4
SE-416 63 Gothenburg
City
Sweden

Validity time
09-05-01 - 09-07-31
Our reference
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Your reference
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
Currency
SEK Kronor
Cash disc term
Delivery method
Delivery terms
Test
Payment terms

Salesperson
Mona LB
Responsible
Ulrika Stromberg
Project number
SPSU09

Style no	Start date	Unit of measure	Quantity	Guide price
USS006 Ulrika: Dress	090501	Pcs	66	800.00

A	S	M	L	Total
A Green	12	12	12	36
A Beige sand	10	10	10	30

Style no	Start date	Unit of measure	Quantity	Guide price
USS006 Ulrika: Dress	090601	Pcs	28	800.00

A	S	L	Total
A Green	14		14
A Beige sand	14	14	14

Style no	Start date	Unit of measure	Quantity	Guide price
USS006 Ulrika: Dress	090602	Pcs	16	800.00

A	L	Total
A Beige sand	16	16

10.4 No change in document – Bulk order consumption – OIS516PF

OIS515 / OIS516 — Cust Blanket Agreement. Print Monit List — Date: 09-06-29
** M3 BE 7.0 ** — Time: 10:59:35
*** Company 510 (WHS) division AAA - Sweden *** Company 510 (510/AAA/SEK) — User: 11370

Customer	Blk agr	Val fr	Val to	Tot	Wrk dys Rem	Agreed qty	U/M	Remain qty	Usage % qty	Usage % days	Resrvd qty	Del qty	bU
11370 Ulrikas customer	0000157	090501	090731	66	25					62.1			
Item number													
USS006-BEI-L Ulrika: Dress						10	Pcs	3	70.0		7	0	
USS006-BEI-L Ulrika: Dress		090601				14	Pcs	4	71.4		10	0	
USS006-BEI-L Ulrika: Dress		090602				16	Pcs	6	62.5		10	0	
USS006-BEI-L Ulrika: Dress		090603				18	Pcs	18	0.0		0	0	
USS006-BEI-M Ulrika: Dress						10	Pcs	5	50.0		5	0	
USS006-BEI-S Ulrika: Dress						10	Pcs	1	90.0		9	0	
USS006-GR-L Ulrika: Dress						12	Pcs	7	41.7		5	0	
USS006-GR-M Ulrika: Dress						12	Pcs	4	66.7		8	0	
USS006-GR-S Ulrika: Dress						12	Pcs	0	100.0		12	0	
USS006-GR-S Ulrika: Dress		090601				14	Pcs	14	0.0		0	0	
* Company 510						128		62					

11 Preparation for future functionality

Future requirement:

Make it possible to automatically make a bulk order released in the bulk order toolbox, if it has been corrected / adjusted in the BOBE OIS370. This should be controlled by a parameter setting in OIS378/OIS379.

Solution prepared in this development phase:

Parameter BB50 added to OIBBOR (OIS378) and OIBBOX (OIS379). However, in this version the parameter is not displayed and has no functionality.

12 Summary – Changed Data structures

12.1 New tables

NEW TABLE: OIBBOR – Bulk Order Batch Origin

Field	Reference field	Type	Length	Digits	Decimals	Description
ORCONO	CONO	DECIMAL	2	3	0	Company
ORBABU	BABU	CHAR	10	-	-	Bulk order batch origin
ORTX15	TX15	CHAR	15	-	-	Name
ORTX40	TX40	CHAR	40	-	-	Description
ORBB10	BB10	CHAR	1	-	-	10 number series - BO batch order
ORBB20	BB20	DECIMAL	1	1	0	20 level of automation - BO batch
ORBB30	BB30	DECIMAL	1	1	0	30 process method - BO batch entry
ORBB40	BB40	DECIMAL	1	1	0	40 deletion method - BO batch entry
ORAGTP	AGTP	CHAR	3	-	-	Agreement type
ORRGDT	RGDT	DECIMAL	5	8	0	Entry date
ORRGTM	RGTM	DECIMAL	4	6	0	Entry time
ORLMDT	LMDT	DECIMAL	5	8	0	Change date
ORCHNO	CHNO	DECIMAL	2	3	0	Change number
ORCHID	CHID	CHAR	10	-	-	Changed by
ORLMTS	LMTS	DECIMAL	10	18	0	Timestamp

NEW TABLE: OIBBOX – Bulk Order Batch Origin, Exceptions

Field	Reference field	Type	Length	Digits	Decimals	Description
ORCONO	CONO	DECIMAL	2	3	0	Company
ORBABU	BABU	CHAR	10	-	-	Bulk order batch origin
ORCUNO	CUNO	CHAR	10	-	-	Customer number
ORBB10	BB10	CHAR	1	-	-	10 number series - BO batch order
ORBB20	BB20	DECIMAL	1	1	0	20 level of automation - BO batch
ORBB30	BB30	DECIMAL	1	1	0	30 process method - BO batch entry

ORBB40	BB40	DECIMAL	1	1	0	40 deletion method - BO batch entry
ORAGTP	AGTP	CHAR	3	-	-	Agreement type
ORRGDT	RGDT	DECIMAL	5	8	0	Entry date
ORRGTM	RGTM	DECIMAL	4	6	0	Entry time
ORLMDT	LMDT	DECIMAL	5	8	0	Change date
ORCHNO	CHNO	DECIMAL	2	3	0	Change number
ORCHID	CHID	CHAR	10	-	-	Changed by
ORLMTS	LMTS	DECIMAL	10	18	0	Timestamp

NEW TABLE: OAEXOR – Bulk Order External Reference

Field	Reference field	Type	Length	Digits	Decimals	Description
EXCONO	CONO	DECIMAL	2	3	0	Company
EXAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
EXCUNO	CUNO	CHAR	10	-	-	Customer number
EXFDAT	FDAT	DECIMAL	5	8	0	From date
EXSTDT	STDT	DECIMAL	5	8	0	Start date
EXOBV1	OBV1	CHAR	15	-	-	Start value 1
EXBABU	BABU	CHAR	10	-	-	Bulk order batch origin
EXHRE2	HRE2	CHAR	20	-	-	Bulk order header reference
EXLRE2	LRE2	CHAR	20	-	-	Bulk order line reference
EXRGDT	RGDT	DECIMAL	5	8	0	Entry date
EXRGTM	RGTM	DECIMAL	4	6	0	Entry time
EXLMDT	LMDT	DECIMAL	5	8	0	Change date
EXCHNO	CHNO	DECIMAL	2	3	0	Change number
EXCHID	CHID	CHAR	10	-	-	Changed by
EXLMTS	LMTS	DECIMAL	10	18	0	Timestamp

NEW TABLE: OXBETR – Bulk Order Batch Entry Transactions

Field	Reference field	Type	Length	Digits	Decimals	Description
BECONO	CONO	DECIMAL	2	3	0	Company
BEMSGN	MSGN	CHAR	15	-	-	Message number
BEBABU	BABU	CHAR	10	-	-	Bulk order batch origin
BESTAT	STAT	CHAR	2	-	-	Status
BEJNU	JNU	CHAR	6	-	-	Job number

BEJNA	JNA	CHAR	10	-	-	Job name
BERGDT	RGDT	DECIMAL	5	8	0	Entry date
BERGTM	RGTM	DECIMAL	4	6	0	Entry time
BELMDT	LMDT	DECIMAL	5	8	0	Change date
BECHNO	CHNO	DECIMAL	2	3	0	Change number
BECHID	CHID	CHAR	10	-	-	Changed by
BELMTS	LMTS	DECIMAL	10	18	0	Timestamp

NEW TABLE: OXGRHE – Customer Agreement – head Batch

Field	Reference field	Type	Length	Digits	Decimals	Description
UYCONO	CONO	DECIMAL	2	3	0	Company
UYDIVI	DIVI	CHAR	3	-	-	Division
UYCUNO	CUNO	CHAR	10	-	-	Customer number
UYAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
UYSTDT	STDT	DECIMAL	5	8	0	Start date
UYLVDT	LVDT	DECIMAL	5	8	0	Valid to
UYTX40	TX40	CHAR	40	-	-	Description
UYAGQT	AGQT	DECIMAL	8	15	6	Agreed quantity
UYLIDT	LIDT	DECIMAL	5	8	0	Last invoice date
UYUNIT	UNIT	CHAR	3	-	-	Unit of measure
UYAGHE	AGHE	DECIMAL	1	1	0	Summed agreement quantity
UYCUCD	CUCD	CHAR	3	-	-	Currency
UYAGST	AGST	CHAR	2	-	-	Status
UYAGDT	AGDT	DECIMAL	5	8	0	Blanket agreement date
UYAGEC	AGEC	CHAR	1	-	-	Quantity check
UYLNCD	LNCD	CHAR	2	-	-	Language
UYNXAG	NXAG	CHAR	7	-	-	Next blanket agreement
UYOREF	OREF	CHAR	30	-	-	Our reference
UYYREF	YREF	CHAR	30	-	-	Your reference 1
UYCUDT	CUDT	DECIMAL	5	8	0	Customer’s purchase order date
UYCUOR	CUOR	CHAR	20	-	-	Customer’s order number
UYAGPD	AGPD	DECIMAL	1	1	0	Agreed prices
UYFECN	FECN	CHAR	10	-	-	Future rate agreement number
UYTEPY	TEPY	CHAR	3	-	-	Payment terms

UYTECD	TECD	CHAR	3	-	-	Cash discount term
UYMODL	MODL	CHAR	3	-	-	Delivery method
UYTEDL	TEDL	CHAR	3	-	-	Delivery terms
UYTEPA	TEPA	CHAR	3	-	-	Packaging terms
UYNTCD	NTCD	DECIMAL	1	1	0	Net price used
UYTINC	TINC	DECIMAL	1	1	0	VAT included
UYVTCD	VTCD	DECIMAL	2	2	0	VAT code
UYBNCD	BNCD	DECIMAL	1	1	0	Bonus generating
UYBREC	BREC	CHAR	10	-	-	Recipient agreement type 9 - bonus
UYPRAC	PRAC	DECIMAL	1	1	0	Commission generating
UYAGNT	AGNT	CHAR	10	-	-	Recipient agreement type 1 - commission
UYAGN2	AGN2	CHAR	10	-	-	Recipient agreement type 2 - commission
UYAGN3	AGN3	CHAR	10	-	-	Recipient agreement type 3 - commission
UYAGN4	AGN4	CHAR	10	-	-	Recipient agreement type 4 - commission
UYAGN5	AGN5	CHAR	10	-	-	Recipient agreement type 5 - commission
UYAGN6	AGN6	CHAR	10	-	-	Recipient agreement type 6 - commission
UYAGN7	AGN7	CHAR	10	-	-	Recipient agreement type 7 - commission
UYSCMO	SCMO	CHAR	6	-	-	Costing model - sales price
UYADID	ADID	CHAR	6	-	-	Address number
UYAGCB	AGCB	DECIMAL	1	1	0	Business chain agreement
UYTXID	TXID	DECIMAL	7	13	0	Text identity
UYPRTX	TXID	DECIMAL	7	13	0	Text identity
UYPOTX	TXID	DECIMAL	7	13	0	Text identity
UYDTID	DTID	DECIMAL	7	13	0	Data identity
UYAGNB	AGNB	CHAR	7	-	-	Agreement number
UYSUNO	SUNO	CHAR	10	-	-	Supplier number
UYSPGR	SPGR	DECIMAL	1	1	0	Superior groups
UYPROJ	PROJ	CHAR	7	-	-	Project number
UYELNO	ELNO	CHAR	8	-	-	Project element
UYPRRF	PRRF	CHAR	2	-	-	Price list
UYRESP	RESP	CHAR	10	-	-	Responsible
UYAGTP	AGTP	CHAR	3	-	-	Agreement type

UYAGLN	SEQN	DECIMAL	4	7	0	Sequence number
UYSMCD	SMCD	CHAR	4	-	-	Salesperson
UYPRLC	PRLC	CHAR	10	-	-	Price list customer number
UYSEAH	SEAH	DECIMAL	1	1	0	Season in use
UYACGR	ACGR	CHAR	10	-	-	Object access group
UYMSGN	MSGN	CHAR	15	-	-	Message number
UYHRE2	HRE2	CHAR	20	-	-	Bulk order header reference
UYJNU	JNU	CHAR	6	-	-	Job number
UYJNA	JNA	CHAR	10	-	-	Job name
UYPBWP	PBWP	DECIMAL	1	1	0	Work in progress
UYBABU	BABU	CHAR	10	-	-	Bulk order batch origin
UYSTAT	STAT	CHAR	2	-	-	Status
UYSTLO	STLO	CHAR	2	-	-	Lowest status
UYSTHI	STHI	CHAR	2	-	-	Highest status
UYIIAJ	IIAJ	DECIMAL	1	1	0	Included in auto job
UYMSID	MSID	CHAR	7	-	-	Message ID
UYMSGD	MSGD	CHAR	78	-	-	Message
UYRGDT	RGDT	DECIMAL	5	8	0	Entry date
UYRGTM	RGTM	DECIMAL	4	6	0	Entry time
UYLMDT	LMDT	DECIMAL	5	8	0	Change date
UYCHNO	CHNO	DECIMAL	2	3	0	Change number
UYCHID	CHID	CHAR	10	-	-	Changed by
UYLMTS	LMTS	DECIMAL	10	18	0	Timestamp

NEW TABLE: OXGRLN – Customer Agreement – lines Batch

Field	Reference field	Type	Length	Digits	Decimals	Description
UWCONO	CONO	DECIMAL	2	3	0	Company
UWDIVI	DIVI	CHAR	3	-	-	Division
UWCUNO	CUNO	CHAR	10	-	-	Customer number
UWAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
UWFDAT	FDAT	DECIMAL	5	8	0	From date
UWSTDT	STDT	DECIMAL	5	8	0	Start date
UWPREX	PREX	CHAR	2	-	-	Priority
UWGENE	GENE	CHAR	1	-	-	Generic
UWOBV1	OBV1	CHAR	15	-	-	Start value 1
UWOBV2	OBV2	CHAR	15	-	-	Start value 2

UWOBV3	OBV3	CHAR	15	-	-	Start value 3
UWOBV4	OBV4	CHAR	15	-	-	Start value 4
UWAGQT	AGQT	DECIMAL	8	15	6	Agreed quantity
UWSPGR	SPGR	DECIMAL	1	1	0	Superior groups
UWAGNB	AGNB	CHAR	7	-	-	Agreement number
UWSUNO	SUNO	CHAR	10	-	-	Supplier number
UWAGLN	SEQN	DECIMAL	4	7	0	Sequence number
UWPRRF	PRRF	CHAR	2	-	-	Price list
UWPRLC	PRLC	CHAR	10	-	-	Price list customer number
UWLIDT	LIDT	DECIMAL	5	8	0	Last invoice date
UWD2QT	D2QT	DECIMAL	8	15	6	Minimum quantity
UWD3QT	D3QT	DECIMAL	8	15	6	Maximum quantity
UWLAMI	LAMI	DECIMAL	8	15	2	Minimum line amount
UWLVDT	LVDT	DECIMAL	5	8	0	Valid to
UWAGPD	AGPD	DECIMAL	1	1	0	Agreed prices
UWKPCD	KPCD	DECIMAL	1	1	0	Kit printout
UWNAQT	NAQT	DECIMAL	8	15	6	Normal call-off quantity
UWAGST	AGST	CHAR	2	-	-	Status
UWCUCD	CUCD	CHAR	3	-	-	Currency
UWNTCD	NTCD	DECIMAL	1	1	0	Net price used
UWUNIT	UNIT	CHAR	3	-	-	Unit of measure
UWCOFA	COFA	DECIMAL	8	15	9	Conversion factor
UWDMCF	DMCF	DECIMAL	1	1	0	Conversion form
UWSPUN	SPUN	CHAR	3	-	-	Sales price unit of measure
UWPCOF	PCOF	DECIMAL	8	15	9	Price adjustment factor
UWCOFS	COFS	DECIMAL	8	15	9	Conversion factor - sales price U/M
UWDMCS	DMCS	DECIMAL	1	1	0	Conversion method - sales price U/M
UWTINC	TINC	DECIMAL	1	1	0	VAT included
UWVTCD	VTCD	DECIMAL	2	2	0	VAT code
UWBNCD	BNCD	DECIMAL	1	1	0	Bonus generating
UWPRAC	PRAC	DECIMAL	1	1	0	Commission generating
UWAGCB	AGCB	DECIMAL	1	1	0	Business chain agreement
UWHRE2	HRE2	CHAR	20	-	-	Bulk order header reference

UWLRE2	LRE2	CHAR	20	-	-	Bulk order line reference
UWSTAT	STAT	CHAR	2	-	-	Status
UWMSID	MSID	CHAR	7	-	-	Message ID
UWMSGD	MSGD	CHAR	78	-	-	Message
UWTXID	TXID	DECIMAL	7	13	0	Text identity
UWPRTX	TXID	DECIMAL	7	13	0	Text identity
UWPOTX	TXID	DECIMAL	7	13	0	Text identity
UWDTID	DTID	DECIMAL	7	13	0	Data identity
UWRGDT	RGDT	DECIMAL	5	8	0	Entry date
UWRGTM	RGTM	DECIMAL	4	6	0	Entry time
UWLMDT	LMDT	DECIMAL	5	8	0	Change date
UWCHNO	CHNO	DECIMAL	2	3	0	Change number
UWCHID	CHID	CHAR	10	-	-	Changed by
UWLMTS	LMTS	DECIMAL	10	18	0	Timestamp

12.2 Changed tables

Added or changed fields to existing tables are marked in *italics*.

CHANGED TABLE: OAGRTP – Customer Agreement Type

Field	Reference field	Type	Length	Digits	Decimals	Description
IQCONO	CONO	DECIMAL	2	3	0	Company
IQAGTP	AGTP	CHAR	3	-	-	Agreement type
IQTX40	TX40	CHAR	40	-	-	Description
IQTX15	TX15	CHAR	15	-	-	Name
IQSPGR	SPGR	DECIMAL	1	1	0	Superior groups
IQTXID	TXID	DECIMAL	7	13	0	Text identity
IQAGCB	AGCB	DECIMAL	1	1	0	Business chain agreement
IQAGPD	AGPD	DECIMAL	1	1	0	Agreed prices
IQAGEC	AGEC	CHAR	1	-	-	Quantity check
IQAGHE	AGHE	DECIMAL	1	1	0	Summed agreement quantity
IQNTCD	NTCD	DECIMAL	1	1	0	Net price used
IQBNCD	BNCD	DECIMAL	1	1	0	Bonus generating
IQPRAC	PRAC	DECIMAL	1	1	0	Commission generating
IQSEAH	SEAH	DECIMAL	1	1	0	Season in use
IQRGDT	RGDT	DECIMAL	5	8	0	Entry date
IQRGTM	RGTM	DECIMAL	4	6	0	Entry time

IQLMDT	LMDT	DECIMAL	5	8	0	Change date
IQCHNO	CHNO	DECIMAL	2	3	0	Change number
IQCHID	CHID	CHAR	10	-	-	Changed by
IQBUOR	*BUOR*	*DECIMAL*	*1*	*1*	*0*	*Bulk order*
IQBUID	*BUID*	*CHAR*	*1*	*-*	*-*	*Bulk order number series*
IQORTY	*ORTY*	*CHAR*	*3*	*-*	*-*	*Order type*
IQPRTD	*PRTD*	*DECIMAL*	*1*	*1*	*0*	*Prt document*
IQPRMS	*PRMS*	*CHAR*	*15*	*-*	*-*	*Price origin sequence*
IQPRTB	*PRTB*	*DECIMAL*	*1*	*1*	*0*	*Auto print of order confirmation*

CHANGED TABLE: OOLIAR – Customer Order Line Agreement References

Field	Reference field	Type	Length	Digits	Decimals	Description
UXCONO	CONO	DECIMAL	2	3	0	Company
UXORNO	ORNO	CHAR	10	-	-	Customer order number
UXPONR	PONR	DECIMAL	3	5	0	Line number
UXPOSX	POSX	DECIMAL	2	2	0	Line suffix
UXCUNO	CUNO	CHAR	10	-	-	Customer number
UXAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
UXFDAT	FDAT	DECIMAL	5	8	0	From date
UXSTDT	STDT	DECIMAL	5	8	0	Start date
UXITNO	ITNO	CHAR	15	-	-	Item number
UXUNIT	UNIT	CHAR	3	-	-	Unit of measure
UXORQT	ORQT	DECIMAL	8	15	6	Ordered quantity - basic U/M
UXREQT	REQT	DECIMAL	8	15	6	Reserved quantity
UXDLQT	DLQT	DECIMAL	8	15	6	Delivered quantity - basic U/M
UXIVQT	IVQT	DECIMAL	8	15	6	Invoiced quantity - basic U/M
UXAGLN	SEQN	DECIMAL	4	7	0	Sequence number
UXRGDT	RGDT	DECIMAL	5	8	0	Entry date
UXRGTM	RGTM	DECIMAL	4	6	0	Entry time
UXLMDT	LMDT	DECIMAL	5	8	0	Change date
UXCHNO	CHNO	DECIMAL	2	3	0	Change number
UXCHID	CHID	CHAR	10	-	-	Changed by
UXALQT	*ALQT*	*DECIMAL*	*8*	*15*	*6*	*Allocated quantity - basic U/M*

CHANGED TABLE: OAGRHE – Customer Agreement Head						
Field	**Reference field**	**Type**	**Length**	**Digits**	**Decimals**	**Description**
UYCONO	CONO	DECIMAL	2	3	0	Company
UYDIVI	DIVI	CHAR	3	-	-	Division
UYCUNO	CUNO	CHAR	10	-	-	Customer number
UYAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
UYSTDT	STDT	DECIMAL	5	8	0	Start date
UYLVDT	LVDT	DECIMAL	5	8	0	Valid to
UYTX40	TX40	CHAR	40	-	-	Description
UYAGQT	AGQT	DECIMAL	8	15	6	Agreed quantity
UYLIDT	LIDT	DECIMAL	5	8	0	Last invoice date
UYUNIT	UNIT	CHAR	3	-	-	Unit of measure
UYAGHE	AGHE	DECIMAL	1	1	0	Summed agreement quantity
UYCUCD	CUCD	CHAR	3	-	-	Currency
UYAGST	AGST	CHAR	2	-	-	Status
UYAGDT	AGDT	DECIMAL	5	8	0	Blanket agreement date
UYAGEC	AGEC	CHAR	1	-	-	Quantity check
UYLNCD	LNCD	CHAR	2	-	-	Language
UYNXAG	NXAG	CHAR	7	-	-	Next blanket agreement
UYOREF	OREF	CHAR	30	-	-	Our reference
UYYREF	YREF	CHAR	30	-	-	Your reference 1
UYCUDT	CUDT	DECIMAL	5	8	0	Customer’s purchase order date
UYCUOR	CUOR	CHAR	20	-	-	Customer’s order number
UYAGPD	AGPD	DECIMAL	1	1	0	Agreed prices
UYFECN	FECN	CHAR	10	-	-	Future rate agreement number
UYTEPY	TEPY	CHAR	3	-	-	Payment terms
UYTECD	TECD	CHAR	3	-	-	Cash discount term
UYMODL	MODL	CHAR	3	-	-	Delivery method
UYTEDL	TEDL	CHAR	3	-	-	Delivery terms
UYTEPA	TEPA	CHAR	3	-	-	Packaging terms
UYNTCD	NTCD	DECIMAL	1	1	0	Net price used
UYTINC	TINC	DECIMAL	1	1	0	VAT included

UYVTCD	VTCD	DECIMAL	2	2	0	VAT code
UYBNCD	BNCD	DECIMAL	1	1	0	Bonus generating
UYBREC	BREC	CHAR	10	-	-	Recipient agreement type 9 - bonus
UYPRAC	PRAC	DECIMAL	1	1	0	Commission generating
UYAGNT	AGNT	CHAR	10	-	-	Recipient agreement type 1 - commission
UYAGN2	AGN2	CHAR	10	-	-	Recipient agreement type 2 - commission
UYAGN3	AGN3	CHAR	10	-	-	Recipient agreement type 3 - commission
UYAGN4	AGN4	CHAR	10	-	-	Recipient agreement type 4 - commission
UYAGN5	AGN5	CHAR	10	-	-	Recipient agreement type 5 - commission
UYAGN6	AGN6	CHAR	10	-	-	Recipient agreement type 6 - commission
UYAGN7	AGN7	CHAR	10	-	-	Recipient agreement type 7 - commission
UYSCMO	SCMO	CHAR	6	-	-	Costing model - sales price
UYADID	ADID	CHAR	6	-	-	Address number
UYAGCB	AGCB	DECIMAL	1	1	0	Business chain agreement
UYTXID	TXID	DECIMAL	7	13	0	Text identity
UYPRTX	TXID	DECIMAL	7	13	0	Text identity
UYPOTX	TXID	DECIMAL	7	13	0	Text identity
UYDTID	DTID	DECIMAL	7	13	0	Data identity
UYAGNB	AGNB	CHAR	7	-	-	Agreement number
UYSUNO	SUNO	CHAR	10	-	-	Supplier number
UYSPGR	SPGR	DECIMAL	1	1	0	Superior groups
UYPROJ	PROJ	CHAR	7	-	-	Project number
UYELNO	ELNO	CHAR	8	-	-	Project element
UYPRRF	PRRF	CHAR	2	-	-	Price list
UYRESP	RESP	CHAR	10	-	-	Responsible
UYAGTP	AGTP	CHAR	3	-	-	Agreement type
UYAGLN	SEQN	DECIMAL	4	7	0	Sequence number
UYSMCD	SMCD	CHAR	4	-	-	Salesperson
UYPRLC	PRLC	CHAR	10	-	-	Price list customer number
UYSEAH	SEAH	DECIMAL	1	1	0	Season in use

UYACGR	ACGR	CHAR	10	-	-	Object access group
UYRGDT	RGDT	DECIMAL	5	8	0	Entry date
UYRGTM	RGTM	DECIMAL	4	6	0	Entry time
UYLMDT	LMDT	DECIMAL	5	8	0	Change date
UYCHNO	CHNO	DECIMAL	2	3	0	Change number
UYCHID	CHID	CHAR	10	-	-	Changed by
UYLMTS	LMTS	DECIMAL	10	18	0	Timestamp
UYWHLO	*WHLO*	*CHAR*	*3*	*-*	*-*	*Warehouse*
UYBUOR	*BUOR*	*DECIMAL*	*1*	*1*	*0*	*Bulk order*

CHANGED TABLE: OAGRLN – Customer Agreement Line						
Field	**Reference field**	**Type**	**Length**	**Digits**	**Decimals**	**Description**
UWCONO	CONO	DECIMAL	2	3	0	Company
UWDIVI	DIVI	CHAR	3	-	-	Division
UWCUNO	CUNO	CHAR	10	-	-	Customer number
UWAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
UWFDAT	FDAT	DECIMAL	5	8	0	From date
UWSTDT	STDT	DECIMAL	5	8	0	Start date
UWPREX	PREX	CHAR	2	-	-	Priority
UWGENE	GENE	CHAR	1	-	-	Generic
UWOBV1	OBV1	CHAR	15	-	-	Start value 1
UWOBV2	OBV2	CHAR	15	-	-	Start value 2
UWOBV3	OBV3	CHAR	15	-	-	Start value 3
UWOBV4	OBV4	CHAR	15	-	-	Start value 4
UWAGQT	AGQT	DECIMAL	8	15	6	Agreed quantity
UWSPGR	SPGR	DECIMAL	1	1	0	Superior groups
UWAGNB	AGNB	CHAR	7	-	-	Agreement number
UWSUNO	SUNO	CHAR	10	-	-	Supplier number
UWAGLN	SEQN	DECIMAL	4	7	0	Sequence number
UWPRRF	PRRF	CHAR	2	-	-	Price list
UWPRLC	PRLC	CHAR	10	-	-	Price list customer number
UWLIDT	LIDT	DECIMAL	5	8	0	Last invoice date
UWD2QT	D2QT	DECIMAL	8	15	6	Minimum quantity
UWD3QT	D3QT	DECIMAL	8	15	6	Maximum quantity
UWLAMI	LAMI	DECIMAL	8	15	2	Minimum line amount
UWLVDT	LVDT	DECIMAL	5	8	0	Valid to

UWAGPD	AGPD	DECIMAL	1	1	0	Agreed prices
UWKPCD	KPCD	DECIMAL	1	1	0	Kit printout
UWNAQT	NAQT	DECIMAL	8	15	6	Normal call-off quantity
UWAGST	AGST	CHAR	2	-	-	Status
UWCUCD	CUCD	CHAR	3	-	-	Currency
UWNTCD	NTCD	DECIMAL	1	1	0	Net price used
UWUNIT	UNIT	CHAR	3	-	-	Unit of measure
UWCOFA	COFA	DECIMAL	8	15	9	Conversion factor
UWDMCF	DMCF	DECIMAL	1	1	0	Conversion form
UWSPUN	SPUN	CHAR	3	-	-	Sales price unit of measure
UWPCOF	PCOF	DECIMAL	8	15	9	Price adjustment factor
UWCOFS	COFS	DECIMAL	8	15	9	Conversion factor - sales price U/M
UWDMCS	DMCS	DECIMAL	1	1	0	Conversion method - sales price U/M
UWTINC	TINC	DECIMAL	1	1	0	VAT included
UWVTCD	VTCD	DECIMAL	2	2	0	VAT code
UWBNCD	BNCD	DECIMAL	1	1	0	Bonus generating
UWPRAC	PRAC	DECIMAL	1	1	0	Commission generating
UWAGCB	AGCB	DECIMAL	1	1	0	Business chain agreement
UWTXID	TXID	DECIMAL	7	13	0	Text identity
UWPRTX	TXID	DECIMAL	7	13	0	Text identity
UWPOTX	TXID	DECIMAL	7	13	0	Text identity
UWDTID	DTID	DECIMAL	7	13	0	Data identity
UWRGDT	RGDT	DECIMAL	5	8	0	Entry date
UWRGTM	RGTM	DECIMAL	4	6	0	Entry time
UWLMDT	LMDT	DECIMAL	5	8	0	Change date
UWCHNO	CHNO	DECIMAL	2	3	0	Change number
UWCHID	CHID	CHAR	10	-	-	Changed by
UWLMTS	LMTS	DECIMAL	10	18	0	Timestamp
UWHDPR	*HDPR*	*CHAR*	*15*	-	-	*Main product*
UWOPTY	*OPTY*	*CHAR*	*15*	-	-	*Y-option*
UWTX15	*TX15*	*CHAR*	*15*	-	-	*Name*
UWTY15	*TX15*	*CHAR*	*15*	-	-	*Name*
UWOPTX	*OPTX*	*CHAR*	*15*	-	-	*X-option*

UWPLDT	*PLDT*	*DECIMAL*	*5*	*8*	*0*	*Planning date*
UWORGQ	*ORGQ*	*DECIMAL*	*8*	*15*	*6*	*Original quantity*
UWORGU	*ORGU*	*CHAR*	*3*	*-*	*-*	*Original U/M*
UWORGP	*ORGP*	*CHAR*	*2*	*-*	*-*	*Original price list*
UWORGC	*ORGC*	*CHAR*	*3*	*-*	*-*	*Original currency*

CHANGED TABLE: MDEOHE – Demand Order Head						
Field	**Reference field**	**Type**	**Length**	**Digits**	**Decimals**	**Description**
VHCONO	CONO	DECIMAL	2	3	0	Company
VHDENO	DENO	CHAR	10	-	-	Order number
VHWHLO	WHLO	CHAR	3	-	-	Warehouse
VHITNO	ITNO	CHAR	15	-	-	Item number
VHHDPR	HDPR	CHAR	15	-	-	Main product
VHRESP	RESP	CHAR	10	-	-	Responsible
VHDOST	DOST	CHAR	2	-	-	Status - manufacturing order
VHPLDT	PLDT	DECIMAL	5	8	0	Planning date
VHPLHM	PLHM	DECIMAL	3	4	0	Planning time
VHORQT	ORQT	DECIMAL	8	15	6	Ordered quantity - basic U/M
VHORI1	ORI1	CHAR	15	-	-	Origin
VHNREF	NR40	CHAR	40	-	-	Reference number
VHPUIT	PUIT	DECIMAL	1	1	0	Acquisition code
VHORTY	ORTY	CHAR	3	-	-	Order type
VHRPLS	RPLS	CHAR	10	-	-	Source
VHPUPR	PUPR	DECIMAL	9	17	6	Purchase price
VHPUCD	PUCD	DECIMAL	3	5	0	Purchase price quantity
VHCUCD	CUCD	CHAR	3	-	-	Currency
VHCUNO	CUNO	CHAR	10	-	-	Customer number
VHAGNO	AGNO	CHAR	7	-	-	Blanket agreement number
VHFDAT	FDAT	DECIMAL	5	8	0	From date
VHTDAT	TDAT	DECIMAL	5	8	0	To date
VHUPCK	UPCK	DECIMAL	1	1	0	Unpack
VHREOD	REOD	DECIMAL	1	1	0	Replenishment order
VHTRRP	TRRP	DECIMAL	1	1	0	Trigger replenishment
VHATNR	ATNR	DECIMAL	9	17	0	Attribute number
VHTXID	TXID	DECIMAL	7	13	0	Text identity

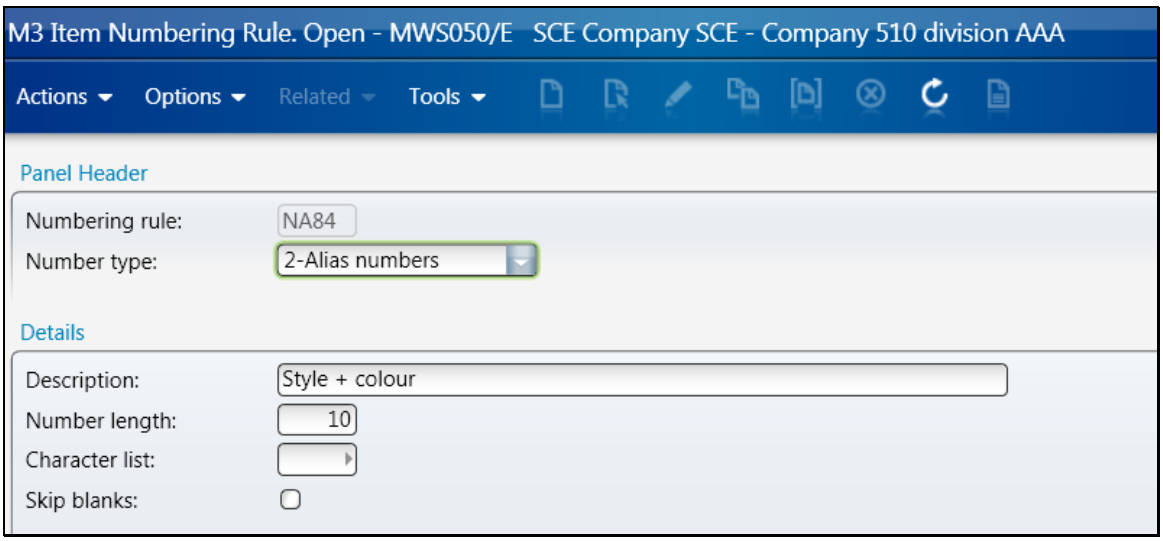
VHRGDT	RGDT	DECIMAL	5	8	0	Entry date
VHRGTM	RGTM	DECIMAL	4	6	0	Entry time
VHLMDT	LMDT	DECIMAL	5	8	0	Change date
VHCHNO	CHNO	DECIMAL	2	3	0	Change number
VHCHID	CHID	CHAR	10	-	-	Changed by
VHLMTS	LMTS	DECIMAL	10	18	0	Timestamp
VHPRIO	*PRIO*	*DECIMAL*	*1*	*1*	*0*	*Priority*
VHCFIN	*CFIN*	*DECIMAL*	*6*	*10*	*0*	*Configuration number*
VHECVS	*ECVS*	*DECIMAL*	*2*	*3*	*0*	*Simulation round*
VHALQT	*ALQT*	*DECIMAL*	*8*	*15*	*6*	*Allocated quantity - basic U/M*
VHAGLN	*SEQN*	*DECIMAL*	*4*	*7*	*0*	*Sequence number*
VHSTDT	*STDT*	*DECIMAL*	*5*	*8*	*0*	*Start date*
VHMODL	*MODL*	*CHAR*	*3*	*-*	*-*	*Delivery method*
VHTEDL	*TEDL*	*CHAR*	*3*	*-*	*-*	*Delivery terms*
VHRE20	*RE20*	*CHAR*	*20*	*-*	*-*	*Reference*
VHAQOR	*AQOR*	*CHAR*	*3*	*-*	*-*	*Acquisition order type*
VHPSOA	*PSOA*	*CHAR*	*3*	*-*	*-*	*Preferred order category*
VHPSRN	*PSRN*	*CHAR*	*10*	*-*	*-*	*Preferred order number*
VHPSRL	*PSRL*	*DECIMAL*	*4*	*6*	*0*	*Preferred order line*
VHPSRX	*PSRX*	*DECIMAL*	*2*	*3*	*0*	*Preferred line suffix*
VHALAR	*ALAR*	*DECIMAL*	*1*	*1*	*0*	*Allocate at receipt*
VHUSQT	*USQT*	*DECIMAL*	*8*	*15*	*6*	*Quantity used*

APPENDIX 1 - Basic data settings – not bulk order specific

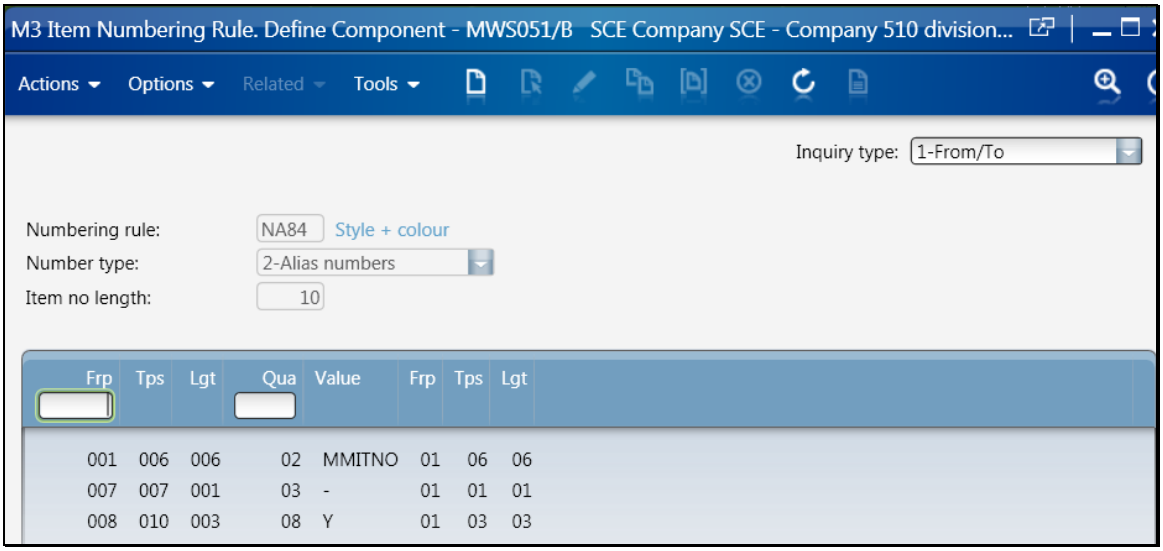
This appendix has been included to support users in setting up set up their basic data for fashion items. No new development has been made in this area.

Enable Style-Color entry

- MWS050 – Item numbering rule

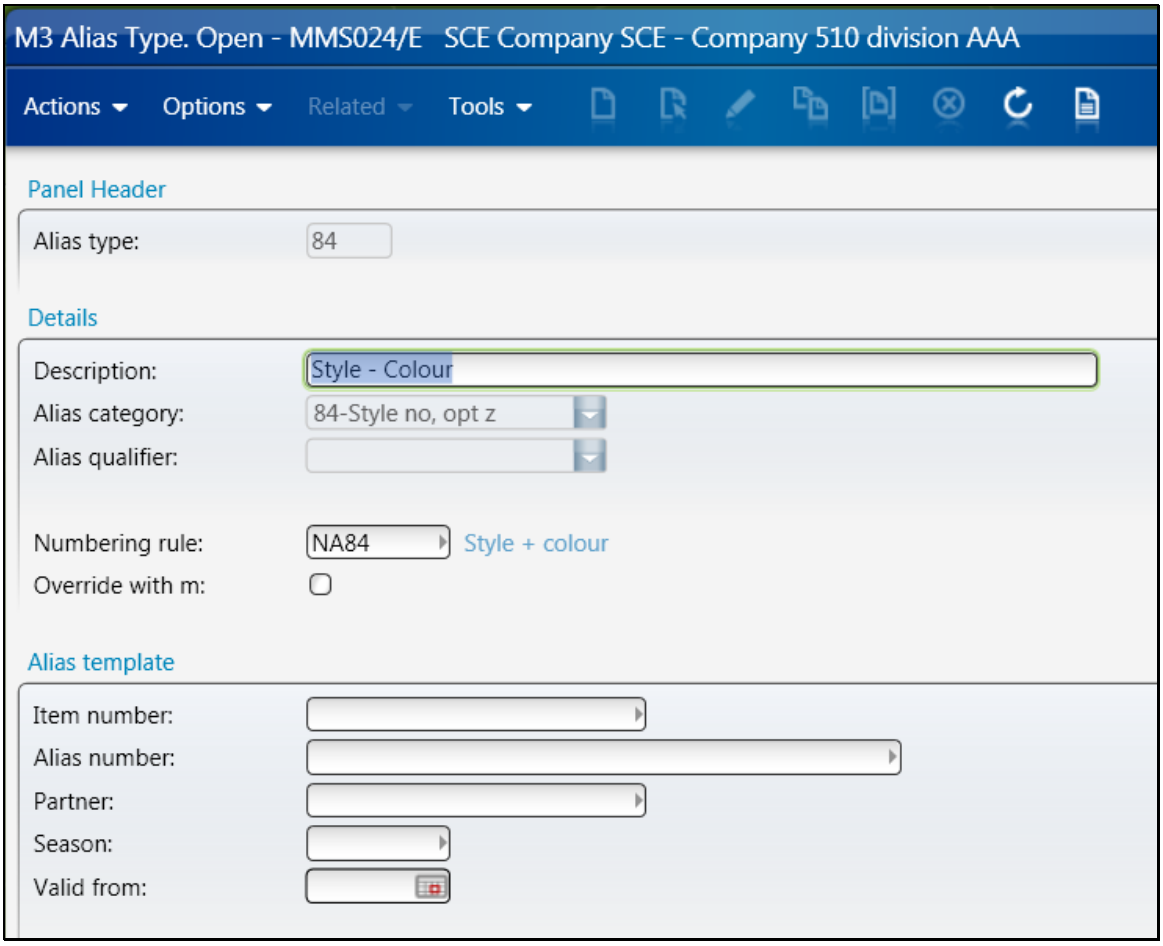


- MWS051 – Item numbering rule, define component

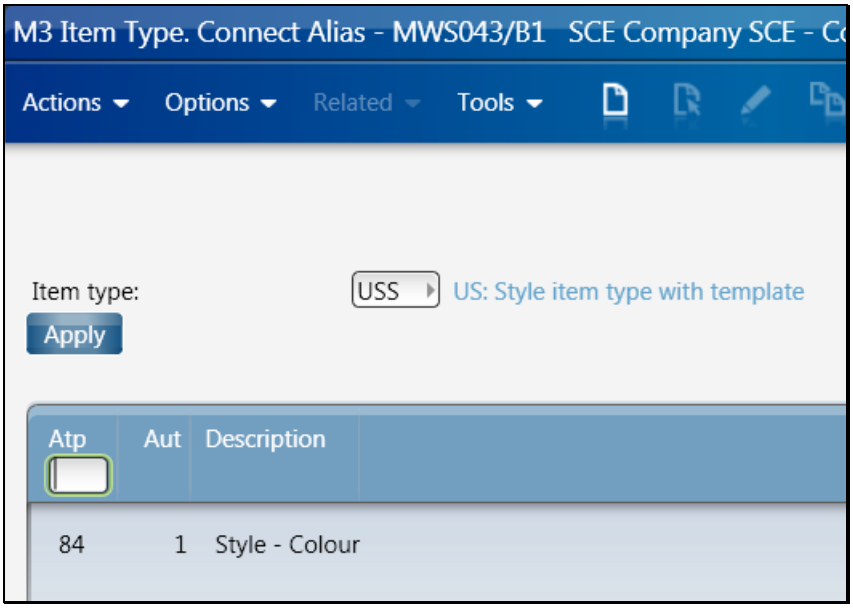


- MMS024 – Alias type 84

Created using inquiry type 1



- MWS043 – Item type, connect alias



APPENDIX 2

Overview parameters – Different supply scenarios

	PARAMETER SETTING - per program CRS709 - Supply chain policy									MMS002 - Item/Warehouse					
	Order link	Stop SC	Link	Auto find	Allocate	Multiple	Safety Time	Material up-	Up-stream	Planning	Supply chain	Period	Planning	Planning	Safe