

# ASPECT4

- *fit for business*



**Release v3r2**  
**Logistics**



Adding value to business



Release v3r2

## Contents

<b>Modernisation .....</b>	<b>4</b>
Database modernisation .....	4
Unicode .....	5
Modularisation and service orientation .....	5
<b>ASPECT4 Foundation .....</b>	<b>6</b>
Using the job robot .....	6
User-controlled access to 9001 and 9006 .....	6
Copy between libraries .....	6
<b>Package for Multi-Support integration .....</b>	<b>6</b>
Management of Workflow for supplier invoices .....	6
View scanned documents .....	7
<b>ASPECT4 Client .....</b>	<b>9</b>
Own shortcuts .....	14
Field control ids .....	15
<b>ASPECT4 Workflow Management .....</b>	<b>17</b>
<b>Master data .....</b>	<b>20</b>
Common item maintenance .....	20
Postcode application .....	21
Extension of bank data .....	23
Parameter-controlled 2111 .....	23
Enquire product parameters (9320) .....	24
Replacement item number .....	24
News in the configuration .....	26
ZAKTIVDATO instead of DATOREG .....	26
F4 for account no/dimension .....	26
<b>Sales .....</b>	<b>27</b>
Freight – debit and provision .....	27
Enquire sales (6300) .....	30
Additional optimizing parameters for	
'Implement Derived Order Transactions' .....	32
Order lines based on spreadsheet .....	32
Quote management .....	33
Customer search .....	33
Print scanning labels for MultiArchive .....	34
Update delivery date on lines .....	35
Send quotation via ASPECT4 BusinessConnector .....	35
<b>Despatch .....</b>	<b>36</b>
Automatic selection of delivery method .....	36
Integration to Post Danmark and TNT .....	38
Integration to DHL .....	40
Changes in bookning – Specify delivery (8229) .....	41
Print freight dockets .....	41
<b>Warehouse .....</b>	<b>42</b>
FIFO costs in warehouse .....	42
<b>Purchase .....</b>	<b>43</b>
Preregistration in ASPECT4 Financial Management	
and automatic invoice settlement .....	43
Purchase cockpit .....	44
Supplier search .....	45
<b>Arrangements .....</b>	<b>46</b>
Active arrangement date .....	46
<b>Intercompany .....</b>	<b>46</b>
Minor changes .....	46
<b>Integrations .....</b>	<b>47</b>
Price adaptor – sales and purchase prices .....	47
<b>ASPECT4 Query Manager .....</b>	<b>49</b>
<b>ASPECT4 DocManager .....</b>	<b>52</b>

## Introduction

Below we present release 2 version 3 for ASPECT4 Logistics. The release is presented under the theme "Fit for business" which should be regarded as an expression of this release having focus on options and functions supporting initiatives taken in the businesses for greater efficiency, increased productivity and time-saving.

This is reflected in a general functionality like Unicode, which facilitates for our customers establishing themselves in other parts of the world.

A greater integration has been created for customers, suppliers and logistics providers. It is now possible to receive further information from customers and suppliers, and we are introducing integration for despatches to a great number of logistics providers.

A greater integration has also opened up to MultiArchive, providing management of workflow for supplier invoices and for displaying scanned documents.

Furthermore a number of exciting new improvements have been introduced for ASPECT4 Client, ASPECT4 Workflow Management, ASPECT4 DocManager and ASPECT4 QueryManager, from which many of you will benefit.

To this you can add a number of improvements within different areas, both for inbound and outbound logistics.

## Modernisation

One of the main themes for ASPECT4 version 3 is modernisation, where older but well functioning designs are brought up to date in carefully selected steps. This is about a rather technical subject, which however has a great impact as a basis for future development of ASPECT4.

Why change something that functions well? Well, primarily this is to enable continuing a relevant further development of ASPECT4 based on present and future needs with our customers.

One good example is a user dialogue where the technological foundation, built on a 5250 terminal protocol, no longer offers the potentials that a modern system wishes to offer to modern users.

EG has a long tradition of close cooperation with IBM about state-of-the-art modernisation. As one of only two European ISV's in IBM's Advisory Council, EG is very close to IBM's development of System in the platform.

As mentioned, a very apparent part of modernising the user interface for ASPECT4 is underway, but EG is also working on modernising other central areas of ASPECT4 via:

- Modernising the database description and access
- Modularising and service orienting business logics.

### Database Modernisation

With ASPECT4 v3r2 we are launching a multi-steps-rocket towards modernising the database access. The first step, contained in v3r2, is named "DDS to SQL DDL Reverse Engineering" in IBM materials. The second step is named "Isolating the database". ASPECT4 v3r2 reflects these two steps.

Central to this procedure is the reorganisation of the database, from being described through DDS (Data Description Specification) to a description through SQL DDL (Data Definition Language).

DDS is an old concept that will no longer be developed, while DDL gives opportunities to use a number of new features in the SQL database. Furthermore DDL described databases allow for better performance. One of the most important reasons for this is that data is validated while being written in a DDL described database, whereas data in DDS-described databases are validated when read. As many

more reads than writes are performed, performance improvements are obtained here. In addition to this the platform's newest SQL Engine is directly optimised towards DDL tables.

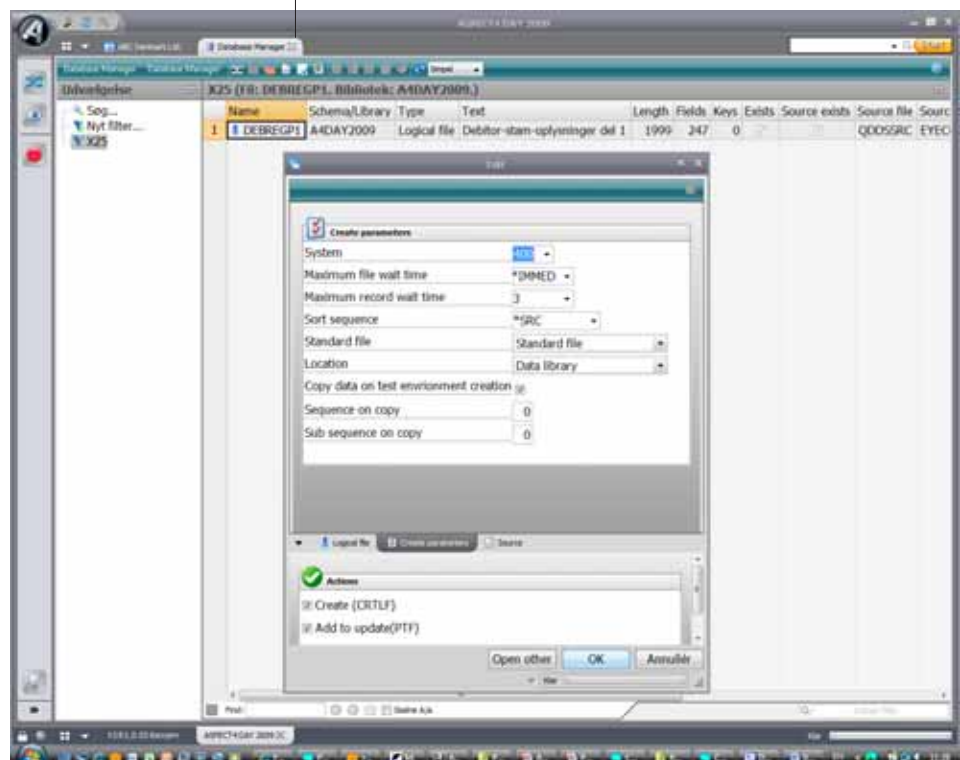
The reorganisation indicates that the ASPECT4 database is now using native SQL concepts like tables (files), rows (records) and columns (fields). But it is also important to point out that step 2 "Isolating the database" results in traditional logical files being built on top of the native SQL tables, that even have the same names as the original physical files in the database. Access to data can therefore continue as in previous releases, also for C-programming or other third party programs that are using the ASPECT4 database.

A really great operational advantage when building DDL-described databases and DDS-described logical files is that it is very easy to extend the underlying SQL table with several columns – without any operational impact, recompiling or other. By focusing on a precise isolation of the database from the program, any subsequent updates and extensions are made much easier.

### ASPECT4 Database Manager

As a consequence of this significant database modernisation, we have developed a number of tools to be used both for the initial reorganisation and for the subsequent administration of DDL databases.

Via the application "Database Manager" the administrator may work across SQL tables, SQL views and files. A number of new functions collect all administrative tasks here.





## Unicode

Also as a part of modernising the underlying database, a number of tables have been prepared for Unicode. The intention here is quite different as the focus is to facilitate the exchange of data, both electronically and in documents between partners in a global setup where the local languages usually have their own character set. Via Unicode a common character set is introduced. This is designed to contain all the characters in the world from all the languages in the world. No more limiting and no attempted character conversions that were usually not successful, anyway.

This is especially important when importing electronic data through ASPECT4 Business Connector. Many misunderstandings are avoided when there is no more misinterpretation of characters from different languages that look alike. But outwardly this also has a great impact, e.g. that a customer address or an item description can be represented and documented correctly in the correct language with the right characters.

All texts now support Unicode, e.g.:

- All descriptions, e.g. item description, operations description etc.
- Supplementary texts
- Journal texts and voucher texts
- Addresses
- Notes

This enables us to forward texts written in any character set.

In addition, all system texts are supported by Unicode, e.g.:

- Panel texts
- Column headings
- Help texts
- Error texts
- Function texts

There are no new languages in this release, but system-wise it is now possible to translate and handle screen images with any character set.

## Modularisation and service orientation

Under the main theme in version 3 – Modernisation – a number of initiatives have been taken to upgrade the ASPECT4 software. Above, we mention the user interface and the interface to the database. For ASPECT4 programs we are increasingly using Java programming and many reorganisations are also made towards a service-oriented module construction. These efforts are used, amongst others, to make a very simple and easy way of developing web services – web services that are used in an increasing number of web solutions.

In v3r2 we introduce a web solution for time recording in the HRM module and in v3r3 we are launching a web interface for QueryManager that will make the publishing of ASPECT4 reports on the intranet, extranet or internet very easy.

### Using the Job Robot

The job robot – *Maintain Job Schedule System* (0160) – is sometimes used for running ASPECT4 Logistics applications.

*Job Definitions* (9176) is still used for making corrections etc, but the very scheduling of the execution time has now been integrated with the *Job Schedule System* (0160).

### User Controlled Access to 9001 and 9006

A function has been created for limiting which persons should have access to maintain which parameters.

In *Company Parameters* (9001 and 9006) you can set limits to which parameters should be open for maintenance. This is primarily made for copy applications. Possible parameters are entered in *Maintain Application Parameters* (0128) where the file name SELPARM specifies the permitted parameters. If SELPARM is not found or is blank, all parameters are included.

### Copy between Libraries

Facilities have been developed to make possible copying selected elements between libraries.

New copy options have been added to:

*Company Parameters* (9001, 9002, 9003 and 9099).  
*System Texts* (9167)  
*Report Texts* (9168)  
*Field Definitions* (9169)  
*Field Definitions for Batch Appl.* (9170)

You must specify the library to copy to and whether it should be overwritten or not.

## Package for Multi-Support Integration

As the result of a request from several customers, e.g. Danbor Service, we have developed an integration package between ASPECT4 Logistics and MultiArchive.

In order to be able to use this integration package you must purchase MultiArchive from Multi-Support.

The package contains 2 main areas, namely:

- Management of workflow for supplier invoices
- Display of scanned documents etc.

The two areas are described below.

### Management of Workflow for Supplier Invoices

For years the workflow for supplier invoices has been one of the products that Multi-Support has sold as an addition to ASPECT4. In the new integration package we have automated this integration to contain the following:

- Supplier invoices registered in: *Voucher Registration* (1242)
- Receipt of OCR scanned invoices in MultiArchive.

#### Recording via *Voucher Registration* (1242)

In ASPECT4 Logistics all supplier invoices can be recorded via *Voucher Registration* (1242). This also applies to purchase invoices for settling purchase orders that have been received in ASPECT4 Logistics.

When recording supplier invoices with: *Voucher Registration* (1242), you must specify the order numbers that you want to have settled. In addition to this, you may also register charges etc. When registering in *Voucher Registration* (1242) a label is printed that you add to the supplier invoice, so that it will be recognised if sent through workflow.

When a supplier invoice is registered in: *Voucher Registration* (1242), the accounts payable item is created immediately. The VAT is registered at the same time. The purchase invoice is normally not approved for payment.

If a registered invoice matches the payable item purchase, and the charges are within permitted limits, the invoice registration is automatically carried out in ASPECT4 Logistics. In this situation most businesses would choose not to send the received supplier invoice on workflow for approval. But, if you still want to have the invoice on workflow, there is a parameter to control this.

If an invoice does not match, it is usually sent to the person in charge for approval. The management of which workflow to use and who should approve an invoice is defined in MultiArchive. Information from the creditor or from the purchase order can be used for deciding this.

When a supplier invoice is sent to a colleague for approval, the colleague should approve the voucher via: *EDI Receipts Transactions* (7169). Via this application you can approve

the voucher and make any corrections before sending it for final entry. You can also choose to let the invoice wait for approval until a possible missing goods receipt has been completed.

### Receiving OCR Scanned Invoices

When you scan supplier invoices with OCR scanning, the scanned information is entered into a record (KREPCRP1).

Scanned supplier invoices are received in ASPECT4 Logistics in the same way as a voucher is registered, i.e. via: *Voucher Registration* (1242). The only difference is that the invoice information is scanned instead of being manually recorded.

Charges from the supplier must always be approved when using the scanning solution. The scanning solution also requires that the suppliers do not use collective invoices where several orders are collected to one invoice.

### View Scanned Documents

The other main issue in the integration package is the possibility to view scanned/archived documents in MultiArchive.

In order to be able to recognise the scanned documents they must be provided with a barcode for recognition. For this purpose EG has developed a [module for printing archiving labels](#). These archiving labels should be added to the documents that are scanned. No archiving labels are required for the documents that are archived directly from ASPECT4 via for example DocManager.

Viewing archived documents in MultiArchive from ASPECT4 Logistics offers many alternatives: Here are some of the most important ones:

- Supplier invoices
- Order confirmations
- Pro forma invoices
- Delivery notes
- Invoices
- Booking lists
- Freight dockets
- Quotes
- Reminders to suppliers
- Purchase orders
- Scanned certificates from suppliers (on consignment number)
- Scanned orders from the customers (on order number)
- Scanned drawings for the item (on item number)

The integration package between MultiArchive and ASPECT4 Logistics allows you to structure the handling of supplier invoices and provides access – from relevant entries in ASPECT4 Logistics – to directly see the connected documents via the display module.

### Settings for Scanned Documents

By right-clicking on an invoiced order in *Invoice Orders* (6102) you will be able to view the document corresponding to the invoice number archived in MultiArchive. If several documents that match a given search key are found, a list with the documents found via the search key is displayed.

The basic application that is being developed is *Display Archived Document Type xx* (956x).

Via application parameters for this application, a cabinet name is entered in MultiArchive as well as the search keys that are used for the call to MultiArchive.



The call of this new application or any copy application of it, but with other search keys, is carried out by defining a shortcut in *Company Parameters* (9002) under parameter SHORTAPP (application dependent shortcuts).

As a result, the call to this application and on to MultiArchive in *Firm Orders* (6104) will appear as a right click option next to each order.

It is assumed that as a minimum MultiArchive is release 1.6.0, update level 013 or higher, and that the user has been set up to have documents displayed either via the Java client or the web client.

Besides, the task of defining which documents to be archived and with which search keys is not part of the present task, i.e. it is assumed that documents to be displayed via integration calls from Logistics have been archived in a suitable manner and with the relevant search keys.

Application dependent shortcuts								
Applikation Options								
Application 6104 Firm Orders Code <= ZZ								
Appl	Cd	Appl	Appl	Shortcut	Icon	Option	Format	
1	6104	I	6322	Order Tot for Sales Orders				
2	6104	IO	651A	Import Order Lines	Ctrl+i	PACKAGE		
3	6104	K	6128	Customers				
4	6104	M	9301	Material Profile				
5	6104	M1	956A	Archived Document - Type M1				
6	6104	M2	956B	Filed Supplier Invoice		\$ DOLLAR		
7	6104	N1	959A	Cal to PC CMD - Path Type P1				

Shortcuts must be defined in Company Parameters (9002).

The screenshot shows a software window titled 'V3 R2 1 Koncern' with a table of order lines. A right-click context menu is open over the table, displaying various actions and their shortcuts. The table columns include Description, Salesperson, GrMarg1, GrMarg1, District, Telephone, CR, Disc%, Co, Addr, Name Line 1, and Customer Addr Line. The menu options and their shortcuts are:

- Create: Ctrl+N
- Edit: Alt+Enter
- Copy: Ctrl+D
- Delete: Ctrl+Delete
- Display: Ctrl+Alt+F
- Firm Order Lines: Ctrl+U
- Transfer: Ctrl+S
- Complete: Ctrl+I
- Reserve/Commit: Ctrl+K
- Check delivery: Ctrl+B
- Refs to: Ctrl+Alt+B
- Refs from: Ctrl+E
- Issued to: Ctrl+Alt+R
- Received from: Ctrl+Alt+U
- Print order confirmation: Ctrl+Alt+Y
- Print Labels: Ctrl+H
- Put On-Hold: Ctrl+Alt+Q
- Release: Ctrl+Alt+S
- Pro Forma Invoice: Ctrl+Alt+T
- Despatch: Ctrl+Y
- Despatch All: Ctrl+Alt+X
- Cred Max Override: Ctrl+Alt+V
- Perf Cred Max Check: Ctrl+Alt+A
- Display Packings: Ctrl+Shift+B
- Adgitslinier: Ctrl+Q
- FreightAmnt/TranspRef: Ctrl+O
- Shortcut: Ctrl+Alt+I
- Order Tot for Sales Orders: Ctrl+Alt+C
- Import Order Lines: Ctrl+M
- Customers: Ctrl+Alt+H
- Material Profile: Ctrl+L
- Archived Document - Type M1: (no shortcut shown)
- Filed Supplier Invoice: (no shortcut shown)

When a shortcut has been defined, it will appear in the right-click options box for the individual order line.



## Graphic Display

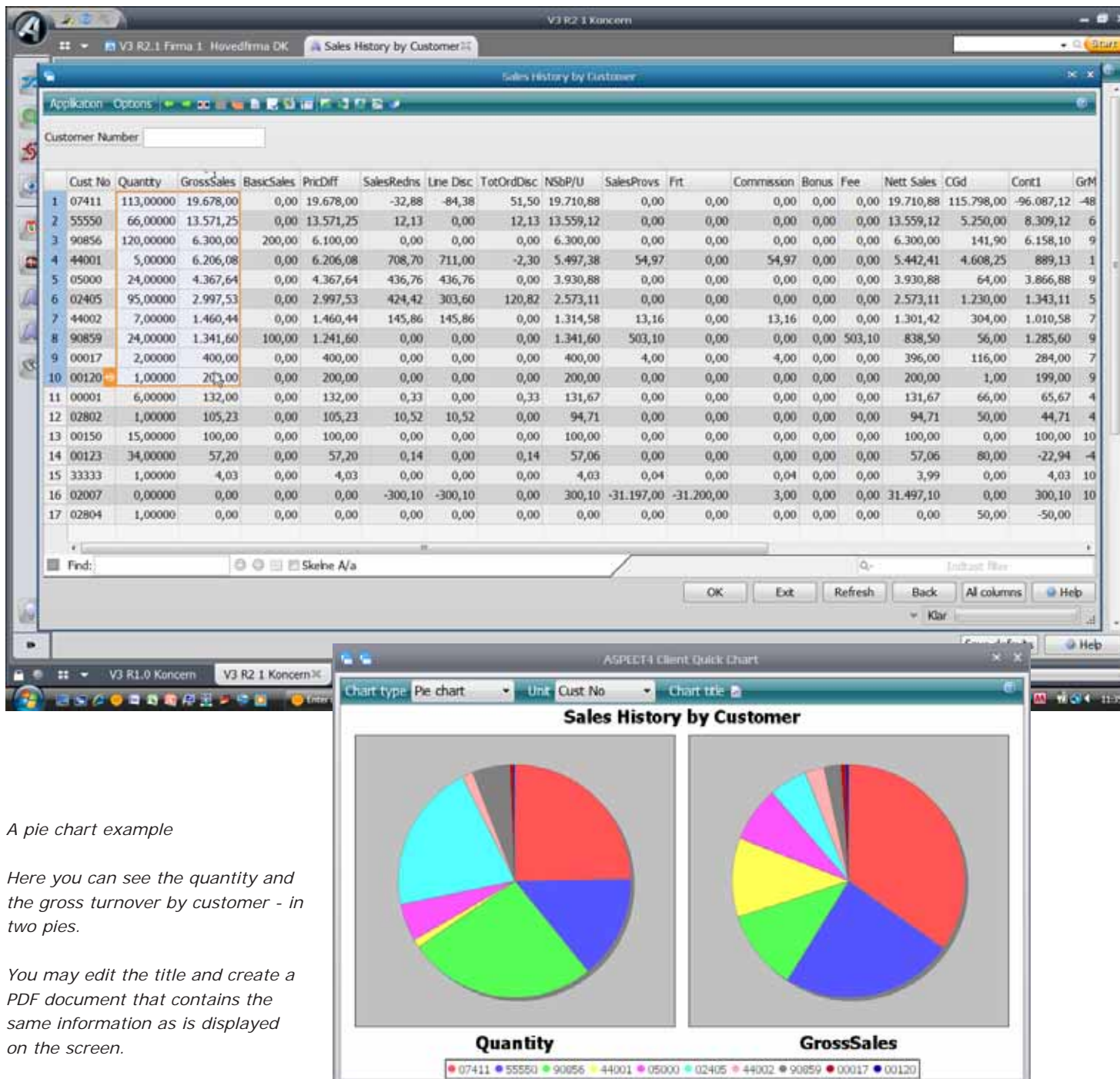
A graphic display of complex data often gives a better overview and is much easier to grasp than a lot of exact numbers.

From release 2 you will be able to display data from *all* tables (only numeric values) in charts. This could either be displayed as an area chart, a horizontal/vertical bar chart, a line chart or as a pie chart.

For large tables, we recommend that you organise the content beforehand, so that the most interesting data are displayed together.

In the example below, we have organised the gross turnover. Next you should mark the information that you want displayed in a chart, for example gross turnover and quantity. On the menu bar for the table you will find an icon for each of the different chart types.

Here we have chosen to press the icon "Pie chart". You may then specify in the title that the gross turnover and the quantity is displayed by customer number (as shown in the example).



A pie chart example

Here you can see the quantity and the gross turnover by customer - in two pies.

You may edit the title and create a PDF document that contains the same information as is displayed on the screen.

## Filter

Particularly in large tables it can be difficult to find the exact data you are looking for. From release 2 you have a search and filter option at the bottom of all tables.

The filter is used when you wish to find all the instances where a word/number appears. The filter can look up data in one selected column or in all columns.

When you enter something into the filter, all occurrences of this word/digit will be displayed. All columns are searched.

If you click the magnifying glass at the bottom right, you can choose to search only a selected column and specify whether to make a distinction between upper and lower case, etc.

The screenshot shows the V3 R1.0 Koncern application window. The main window displays a table of customer data. A search filter is applied, and the filter menu is open, showing options like 'Alt', 'Cust. no.', 'Name line 2', 'Name line 4', 'Name line 3', 'Name line 5', 'Name line 1', 'Tel.', 'Balance', 'Forskel på A/a', 'Ingen forskel på A/a', 'Brug jokertegn', 'Match fra start', 'Match exactly', and 'Match hvor som helst'.

	Cust. no.	Name line 2	Name line 4	Name line 3	Name line 5	Name line 1	Tel.	Balance
28	29000	Bikuber 3	8000 Århus C	Bivej 3			2265432	0,1
29	81978	Bjame Wist	N-7092 TILLER	Lade Allé 65			72 88 37 00	0,1
30	1279	BA ELEVATOR A/S	2700 BRØNSHØJ	TUXENSEVEJ 4			38 284899	0,1
31	2146	BENT HEDE ELEKTRONIK	8700 HORSENS	ORMHØJGAARDEJ 17			75 641144	0,1
32	2073	BIG DUTCHMAN A/S	6600 VEJEN	PARK ALLE 13			75 360911	0,1
33	2501	BILCON A/S	9220 ÅLBORG ØST	HADSUNDEJ 295			98 323011	0,1
34	3968	BMT TECHNIC APS	4990 SAKSØBING	INDUSTRIVEJ 16			54 704040	0,1
35	3253	BONUS ENERGY A/S	7330 BRANDE	FABRIKSVEJ 4			97 181122	0,1
36	1044	BRDR. EEGHOLM A/S	6400 SØNDERBORG	GRUNDTVIGS ALLE 165-169	testjb		73 121212	0,1
37	1104	C.B. SVENDSEN APS	3500 VÆRLØSE	KIRKE VÆRLØSEVEJ 22			44 485286	4567,1
38	3640	C.T.COIN A/S	5000 ODENSE C	HELSINGBORGGADE 9			66 193680	0,1
39	2199	CARLO GAVAZZI HANDEL A/S	8370 HADSTEN	OVERHADSTENVEJ 42 BOX 86				0,1
40	22	CBGs testkunde	8000 Århus C	Banegårdsplads 23				0,1
41	1130	COMPU-GAME A/S	6700 ESBJERG	RANDERSVEJ 36				0,1
42	82000	Dansk Supermarked A/S	8270 Højbjerg	Bjæstrupvej 18				0,1
43	1300	Danskereen	Roskilde	Lundevej 2	Sjælland	NJ	Testk	0,1
44	1973	DAMM CELLULAR SYSTEMS A/S	6400 SØNDERBORG	MØLLEGADE 68				0,1
45	1152	DANAGRAF A/S	4180 SØRØ	INDUSTRIVEJ 11-13				0,1
46	7026	DANFOSS FLUID POWER A/S	6430 NØRDBORG					0,1
47	1167	DANICA SUPPLY A/S	5560 ÅRUP	SMEDEVENGET 1				0,1
48	1180	DANSK AUTOMAT EXPERT A/S	8270 HØJBJERG	MICHAEL DREWSSENS VEJ 13				0,1
49	1186	DANSK DATA ELEKTRONIK A/S	2730 HERLEV	HERLEV HØVEDGADE 199				0,1
50	1211	DANSK SYSTEM ELEKTRONIK A/S	8700 HORSENS	SVERIGESVEJ 19				0,1

The screenshot shows the V3 R1.0 Koncern application window. The main window displays a table of items. A search filter is applied, and the filter menu is open, showing options like 'Alt', 'Cust. no.', 'Name line 2', 'Name line 4', 'Name line 3', 'Name line 5', 'Name line 1', 'Tel.', 'Balance', 'Forskel på A/a', 'Ingen forskel på A/a', 'Brug jokertegn', 'Match fra start', 'Match exactly', and 'Match hvor som helst'.

	Item No	Description	Su	St	Tp	Unit	Spec	Dec	Grp 0	Grp 1	Grp 2	Grp 3	Grp 4	Grp 5	Grp 6	Grp 7	Grp 8	Grp 9
1	1011	Dol, 45 cm. 2 ass.	30	L	STK	1	0				4444			5-001				KEM
2	1012	25 cm dol 3. ass.	30	L	STK	1	0				4444			5-001				KEM
3	1020	Dol 30 cm. w. bottle. 3 ass	30	L	STK	1	0				2-001			5-001				KEM
4	1023	Dol 16 cm. 6 ass.	30	L	STK	1	0				4444			5-001				KEM
5	1024	Dol 16 cm. Bath	30	L	STK	1	0				4444			5-001				KEM
6	1026	Dol 30 cm. 3 ass.	30	L	STK	1	0				4444			5-001				KEM
7	1038	50 cm. rag dol	30	L	STK	1	0				4444			5-001				KEM

## Find

There is a new search feature at the bottom of all tables. Enter a word or a number and a search is carried out starting with the entered value. The first occurrence is displayed immediately. Use the rightwards arrow to see the next occurrence and the leftwards arrow to see the previous one.

When something has been entered in Search, the first occurrence of this value is displayed.

Item No	Description	Size	Unit	Stock	Grp 0	Grp 1	Grp 2	Grp 3	Grp 4	Grp 5	Grp 6	Grp 7	Grp 8	Grp 9	When	Location	PWhse
101030	Bread 25 kg	30 L	STK	1	0		4444			5-001				5-001	Fairdiquart	LAGR001	
1011	Dol, 45 cm, 2 ass.	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1012	25 cm dol 3. ass.	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1020	Dol 30 cm, w. bottle, 3 ass.	30 L	STK	1	0		2-001			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1023	Dol 16 cm, 6 ass.	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1024	Dol 16 cm, 8 ass.	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1026	Dol 30 cm, 3 ass.	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1031	DG Styling head	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1032	22 cm. Bean bag baby	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
1038	50 cm. rag dol	30 L	STK	1	0		4444			5-001				5-001	KEM	Anvendtes like pt.	LAGR001
111011	Sugar 25 kg	30 L	STK	1	0		04030			5-001				5-001		Anvendtes like pt.	LAGR001
124000	TYT Medical version 124000	30 L	STK	1	0		444			5-001				5-001		Anvendtes like pt.	LAGR001
124001	Medical item 124001	30 L	STK	1	0		44			5-001				5-001		Anvendtes like pt.	LAGR001
124002	Medical version 124002	30 L	STK	1	0		44			5-001				5-001		Anvendtes like pt.	LAGR001
1320	Sat 2, Sølverfah. drejer	30 L	STK	1	0		44			5-001				5-001		Anvendtes like pt.	LAGR001
14001000	100 Kattagat	30 L	STK	1	0	SK	OV	4444		5-001				5-001		Anvendtes like pt.	LAGR001
14001030	103 Bæthavet	30 L	STK	1	0	SK	NW	4444		5-001				5-001		Anvendtes like pt.	LAGR001
20034020	Hole 2 - 20 kgs	30 L	KASSE	1	0			44		5-001				5-001		Anvendtes like pt.	LAGR001
20034030	Hole 2 - 30 kgs	30 L	KASSE	1	0			00004		5-001				5-001		Anvendtes like pt.	LAGR001
20034030	Bræthengat myS 00	30 L	KASSE	1	0			44		5-001				5-001		Anvendtes like pt.	LAGR001
20034030	Sølverfah u/skud 00	30 L	KASSE	1	0			44		5-001				5-001		Anvendtes like pt.	LAGR001
2101011	Sugar 25 kg	30 L	STK	1	0		04030			5-001				5-001		Anvendtes like pt.	LAGR001

There are features to display the next occurrence, previous occurrence, marking all occurrences and to indicate whether to make a distinction between upper and lower cases.

## Conditional Sorting

We have long had the opportunity to sort an individual column using the right click. This functionality has now been expanded to organise several columns. The right click is no longer used, but left click is used in the column for the first sort. If you want to include several columns in the sorting, press Ctrl and left click on the next column etc.

In the example we have chosen to make three sortings. First of all we have sorted by customer number and then by status code and lastly by order number. The sorting sequence is displayed in small text at the top of the column header.

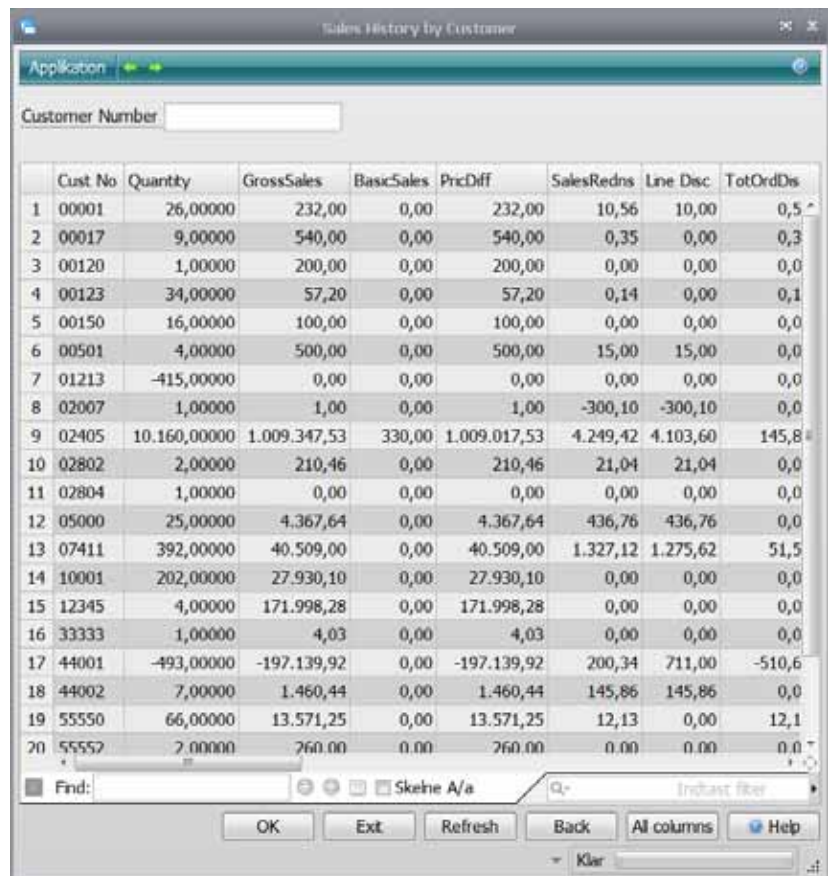
If relevant, we could have had several sortings (there are no limits to the number of columns that can be sorted).



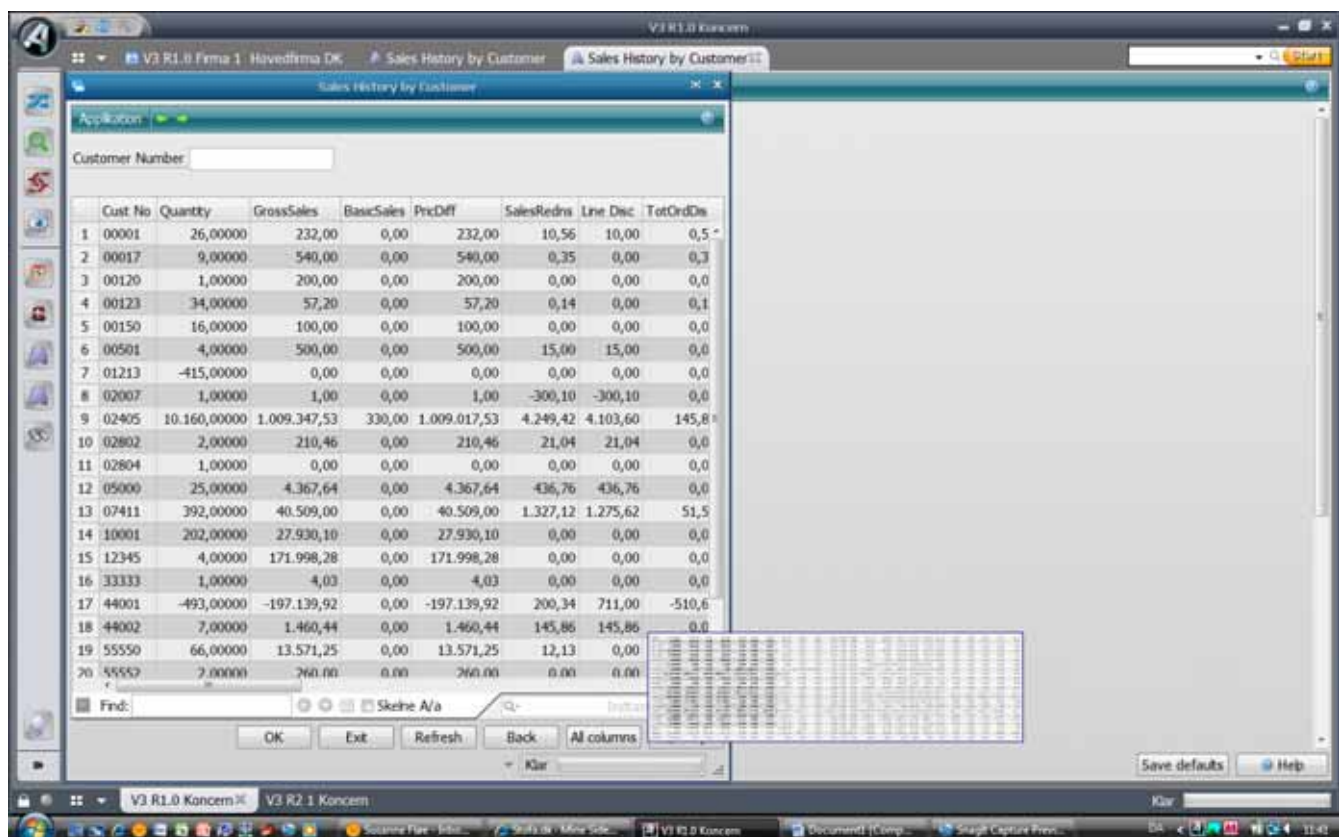
## Total Overview of the Table

If you have large tables, you can press the icon at the bottom right the entire table.

When the entire table is displayed in a "miniature format", the part of the table that you wish displayed can be marked. When you release the mouse button, the requested area is displayed in the window.



	Cust No	Quantity	GrossSales	BasicSales	PricDiff	SalesRedns	Line Disc	TotOrdDs
1	00001	26,00000	232,00	0,00	232,00	10,56	10,00	0,5
2	00017	9,00000	540,00	0,00	540,00	0,35	0,00	0,3
3	00120	1,00000	200,00	0,00	200,00	0,00	0,00	0,0
4	00123	34,00000	57,20	0,00	57,20	0,14	0,00	0,1
5	00150	16,00000	100,00	0,00	100,00	0,00	0,00	0,0
6	00501	4,00000	500,00	0,00	500,00	15,00	15,00	0,0
7	01213	-415,00000	0,00	0,00	0,00	0,00	0,00	0,0
8	02007	1,00000	1,00	0,00	1,00	-300,10	-300,10	0,0
9	02405	10.160,00000	1.009.347,53	330,00	1.009.017,53	4.249,42	4.103,60	145,8
10	02802	2,00000	210,46	0,00	210,46	21,04	21,04	0,0
11	02804	1,00000	0,00	0,00	0,00	0,00	0,00	0,0
12	05000	25,00000	4.367,64	0,00	4.367,64	436,76	436,76	0,0
13	07411	392,00000	40.509,00	0,00	40.509,00	1.327,12	1.275,62	51,5
14	10001	202,00000	27.930,10	0,00	27.930,10	0,00	0,00	0,0
15	12345	4,00000	171.998,28	0,00	171.998,28	0,00	0,00	0,0
16	33333	1,00000	4,03	0,00	4,03	0,00	0,00	0,0
17	44001	-493,00000	-197.139,92	0,00	-197.139,92	200,34	711,00	-510,6
18	44002	7,00000	1.460,44	0,00	1.460,44	145,86	145,86	0,0
19	55550	66,00000	13.571,25	0,00	13.571,25	12,13	0,00	12,1
20	55552	2,00000	260,00	0,00	260,00	0,00	0,00	0,0

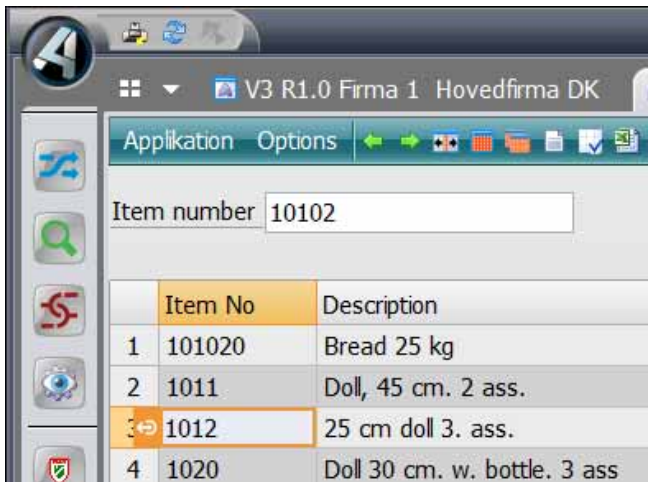




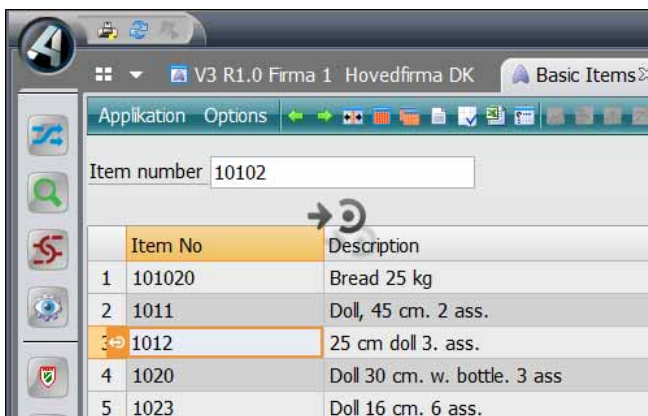
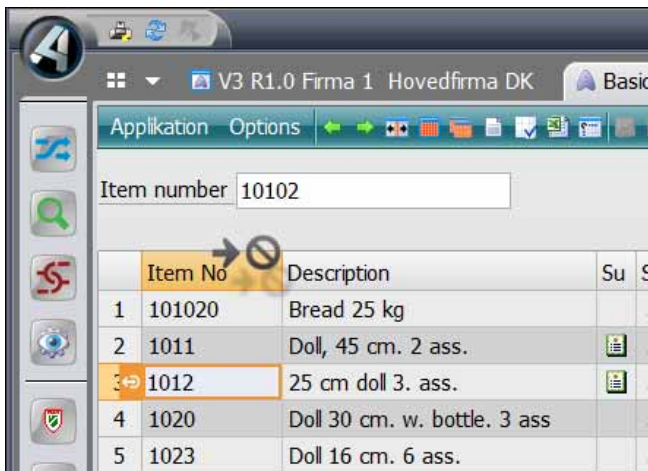
## Copy Options

The copy options have been improved. When a field is activated in Client, you can use the usual copy/paste features. I.e. you can use Ctrl+C to copy the content of the field and then Ctrl+V to paste it into another position.

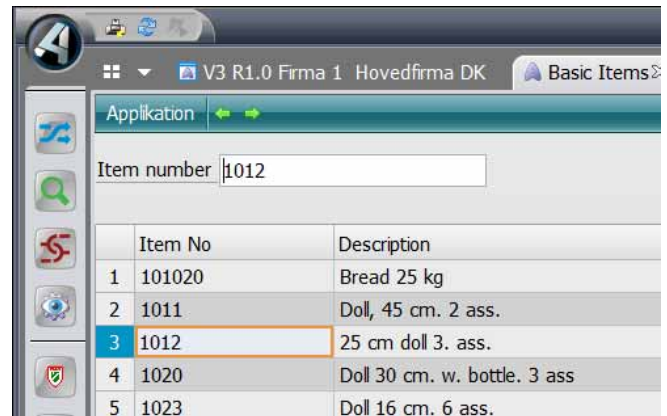
Apart from the function keys you also have a new feature: "drag-and-drop" in ASPECT4 Client. Where drag-and-drop is an option, it is displayed in the following manner: The field is marked and an orange frame is drawn around it. A "Copy from" symbol is displayed in front of the field:



Now you can drag the content to another field. In front of the to-field you will either get a "forbidden sign" (i.e. not possible to copy to his) or a "Copy to" symbol:

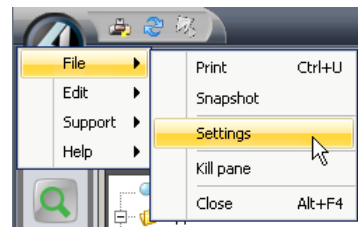


When you release the mouse button, the dragged value is entered in the to-field:

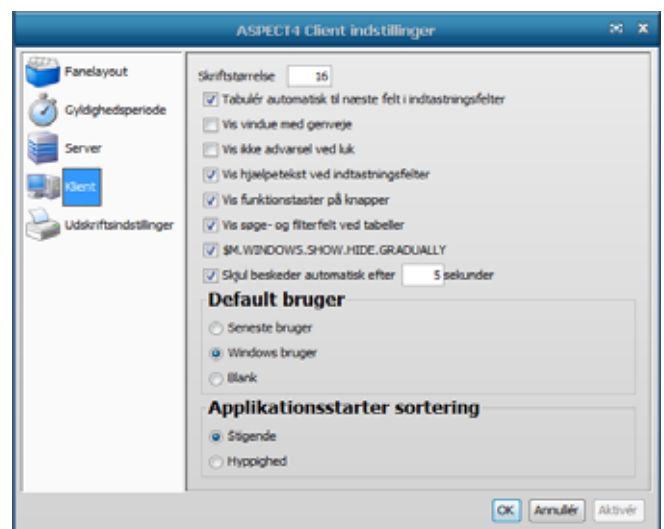


## Improved Settings

A number of options have been added to the settings. By pressing the ASPECT4 icon - "The large A4" - in the left corner and selecting Files and Settings:



- you will get the following screen image:



Here you can enter whether you wish to have function keys displayed on buttons. If so, you will have e.g. the following text on a button: "F16 Accept" instead of the previous "Accept".

Search and filter fields at the bottom of all tables can be displayed/switched off.

You can also specify for how long an error message should be displayed – if you want it to remain on the screen or to disappear after a certain number of seconds.

Beside the application starter field in the upper right corner, you can see a drop-down list where the applications previously called can be displayed. Under Settings you can determine whether to display applications ascending or descending per user or according to frequency.

An option to automatically send any system errors by email to EG has also been created. All necessary documentation should be included in the email.

## Display Messages

If entry is made in the wrong field, a red bar appears next to the field. The bar will tell you what went wrong. Often you will be able to click the question mark to get a more detailed error message.

Until now, general messages have been displayed in the bottom line at the bottom of the screen. From release 2 this display has been moved.

In order to make the messages more visible and also to be able to include more content on the screen (e.g. several rows in tables), we have made changes so that messages are now displayed next to a bulb at the bottom left, in the shortcut bar.

As previously mentioned you may indicate if messages should disappear automatically or stay for x seconds under the ASPECT4 button in the top left corner (under Files/Settings/Client).

## The Future

We have plans for using Pivot tables in a coming update of ASPECT4 Client. This is a request from many customers and we are working on introducing this function.

## Workspace

Some changes have been introduced to the workspace with this release.

Previously the shortcut bar to the left was personal. Now this shortcut bar can be saved by function group or by company level.

Super users (with setup permission 20 in application 0110) can now also copy or move shortcuts in application 0X03 - see the picture below.

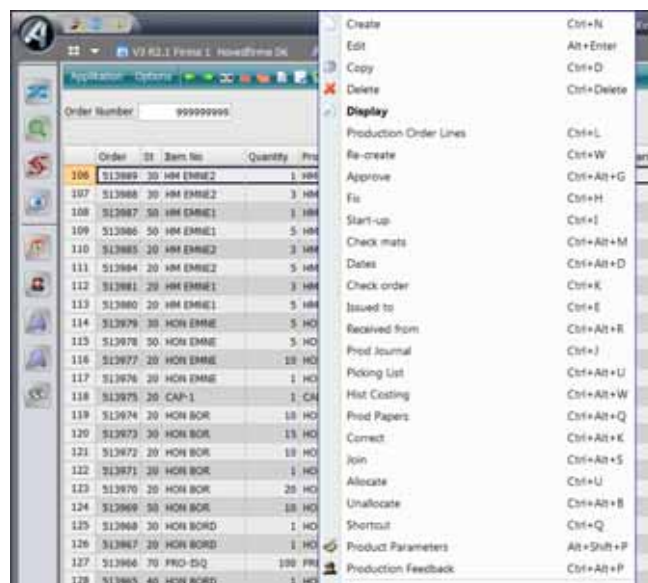
## Own Shortcuts

Various facilities have been developed for own shortcuts in company parameter SHORTAPP.

### Icons on Own Shortcuts

You can define an icon for your own shortcut and it will be displayed with a right click.

Appl	Cd	Appl	Appl	Shortcut	Icon	O
1	6522	P	9320	Product Parameters	Alt+Shift+p	BOOK 2
2	6522	X	6300	Sales Orders		VEHICLE
3	6524	KF	9520	Configure Production Model		
4	6524	LG	9322	Stock Balance Global		
5	6524	M	9301	Material Profile		
6	6524	P	9320	Product Parameters	Alt+Shift+p	BOOK 2
7	6524	SU	9104	Sales Items	Ctrl+7	PENCIL
8	6524	X	6300	Sales Orders		VEHICLE
9	7102	LB	956B	Filed Supplier Invoice		DEAL



## Shortcut buttons for Own Shortcuts

For shortcuts defined via company parameter SHORTAPP, shortcut keys are automatically added if an invalid key or a requested number already used is entered.

### Function for Shortcut

You can specify which function a given shortcut should be called with, information about format for the called STFE, which field control ident to be used for obtaining the key, whether to carry out another check for authorisation and whether the current record should be locked while the shortcut is performed.

When you return from the shortcut, you can choose whether to perform a refresh and which function to continue with.

### Examples

If from a sales order line you wish to enable editing of the sales item text, you can choose to make a call to *Sales Items* (9104), option Edit (option 2) with a special format that only contains the sales item text in different languages and e.g. the minimum sizes and unit order sizes.

If you also wish to maintain the basic item text, this might be a subsequent function by which you will be lead through both applications.

After these calls you might want to refresh the sales order line image to make the amended text apply globally.

Another example: you might want to see the master information for the current warehouse in *Stockholdings* (9145). If so, you can make a call to *Warehouses* (9144) with the function Display (option 5). The format should be set to blank to make the image similar to that of *Warehouses* (9144).

The user might not have access to *Warehouses* (9144) when they have no authorisation to edit in the application. But they are allowed to make a request and therefore you specify that this could be done without an authority check. But this does not mean that everybody has authorisation for this. But if you have access to *Stockholdings* (9145), you also have this request access to *Warehouses* (9144).

After making this request you do not need to do a refresh as you cannot change anything that might have influence on the screen image of *Stockholdings* (9145).

System Parameters

Applikation

Application 6104 Firm Orders Code XX <= ZZ

Application to be Called 946A

Number for Shortcut 3102

Icon NOTE

Optional Text (danish) Print scanningslabel

Option

Format

Field Control ID for Key

Authority Check

Lock

Return action

☒ None

☐ Refresh line

☐ Refresh table

Continue with Option

Print Scanning Label in MultiArkiv  
Alt+Shift+b

Note

1. Identification 2. Change Log

OK Exit Back Help

Ready

## Field Control Idents

The new features for the field control idents introduced in release 9 under the heading "Management of colours and text attributes", have been great improved.

This means that you have an increased number of setting options and an improved access to look up information, without having to make individual adaptations to ASPECT4 Logistics.

### General CALL Programs in Field Control Idents

We have developed general programs that can be used for field control idents.

- A program collects selected data from a selected file. If you need to display the content from another file in a field, e.g. if you have the basic item information and need the min. order from sales item information – you can obtain this without any adaptation.
- A program where a text can be substituted into a string. This can be used for adding a track-and-trace number in a URL in order to show the current package information.
- A program where it is possible to obtain a text from a company parameter and the text – not the code – is displayed.

### TIP Result

A code can be added to the field control ident to display a certain result as a "tip" for the field (an example is shown on the next page). This functionality is used when displaying supplementary texts for a number of programs, but it can also be used in other contexts.

	Item No	Description	Su	St	Tp	Unit	Spec	Dec	Grp 0	Grp 1
1	101020	Bread 25 kg				30 L STK	1	0		
2	10111	Doll, 45 cm. 2 ass.				30 L STK	1	0		
3	1012	25 cm doll 3. ass.				30 L STK	1	0		
4	1020	Doll 30 cm. w. bottle. 3 ass.								
5	1023	Doll 16 cm. 6 ass.								

*A field tip*

### Edit Functions

A number of edit functions are available:

- Right or left justifying of fields with insertion of blanks.
- Rounding of values (rounding up, rounding down or direct rounding)
- Looking up minimum or maximum values
- Obtain, remove or override panel texts

### Replication via Field Control Idents

In cooperation with Unimerco we have extended the replication options for intercompany settings, so that value changes are made via a field control ident.

This is relevant for instance if you have used a field control ident that should "bend" the value to something else (for example GR + LDA company number) and you wish to replicate.

Intercompany Setup

Application

Extended Company Number: 1 File Name: VARBREG Varkartotek Basis Format for Parameter

Field Name: VARBGRPO Item Group 0

Status: Active (30)

Field Handling

☐ No replication when changed

☒ Replicate when changed

Value for Field

☐ Normal Default used

☐ Value from Source

☐ Value from here

☒ Value from Field Control Mgm.

Field Management Ident:

Field Handling Code

☐ Not shown

☐ Shown but cannot be edited

☒ Shown and can be edited

1. Change Log

OK Exit Back Help

Ready



## ASPECT4 Workflow Management

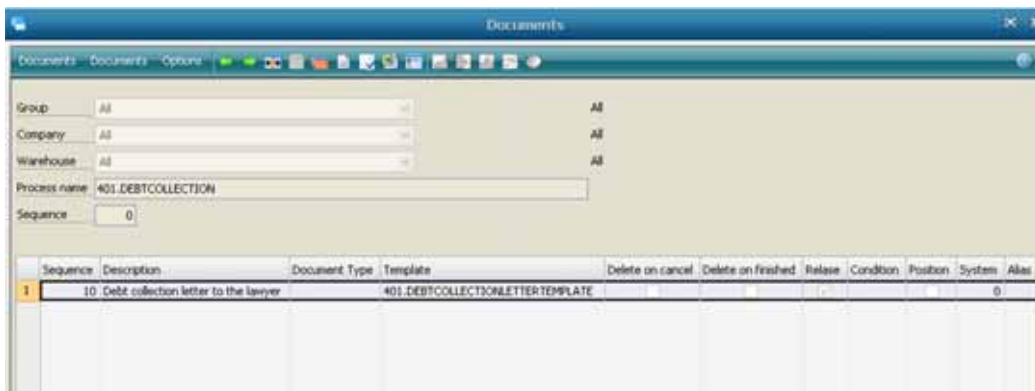
### Document management in ASPECT4 Workflow Management

The document management in ASPECT4 Workflow Management is used for managing relevant documents for individual processes.

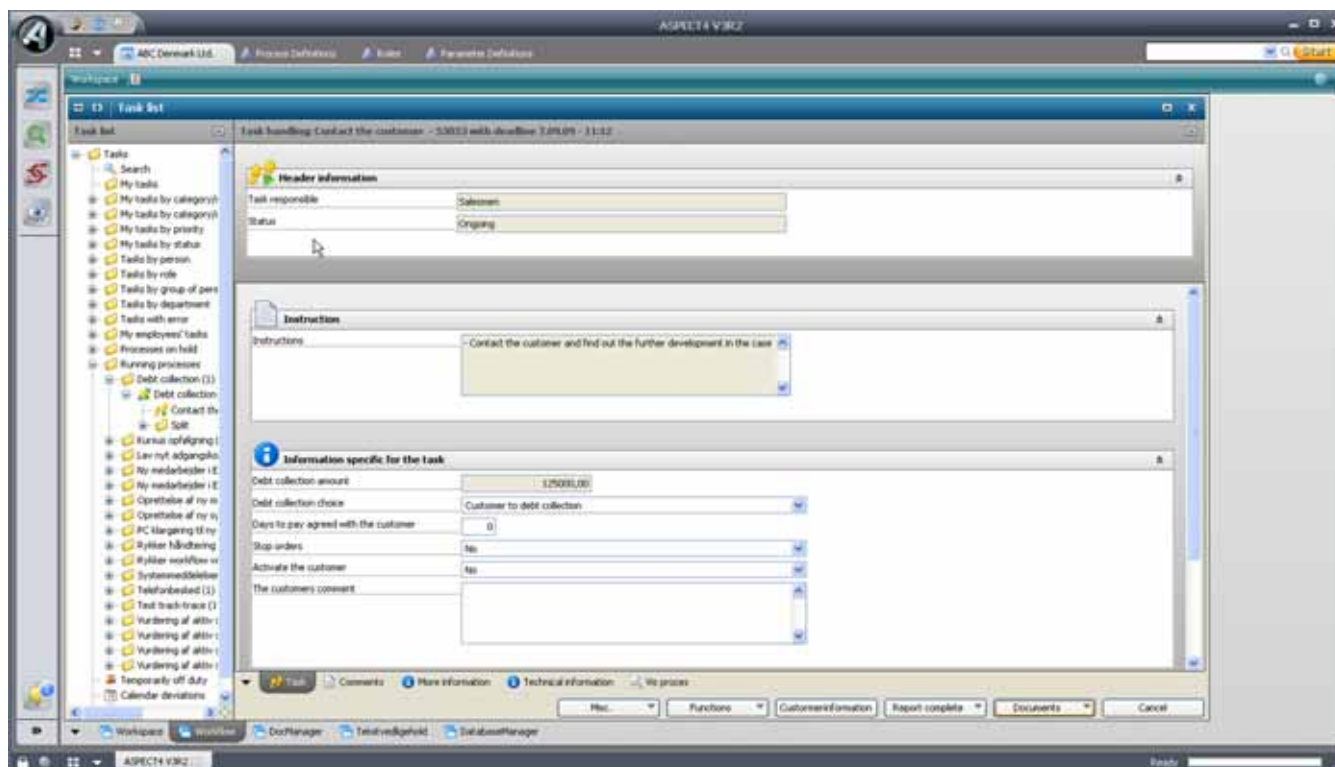
By using document management in ASPECT4 Workflow Management, you avoid having to keep track of small notes and papers in various folders. On the other hand everyone (with the authority) can see relevant documents for the individual processes. This also guarantees that the documents that should be produced are produced so that you will not forget to draw up employment contracts, written quotes to customers etc. By using templates, all letters will look similar, always contain the same information that should be included in the letter and will be correctly stored.

There are two methods to link documents:

1. Create fixed documents for the process. You can refer to a document template that is a standard for the individual document type (customer letters, employment contracts, wage agreements). During creation of the document for the process, information (via parameters) can be merged into the document (Word and Excel), e.g. customer name and address. The creation of a document for a particular task can be made mandatory to make sure it is done.
2. Any documents existing on the network can be linked to a process. This could be a document that is sent from a customer.



In the task list you can use the "Documents" button to create or connect documents.



The documents created can also be found via QueryManager by searching the document index (via drilldown).

## Export/Import Process Definitions

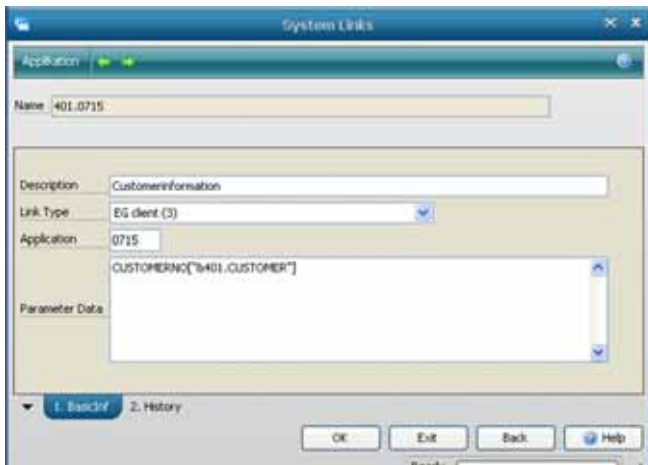
Export and import of process definitions can be used in a way so that EG can create processes that can be distributed to one or several customers. This can also be used when a process definition has been created in the test environment which is going to be moved and used in the production environment.

From Maintaining Process Definitions, the individual process definition can be exported via a right click function. The data is saved to a file.

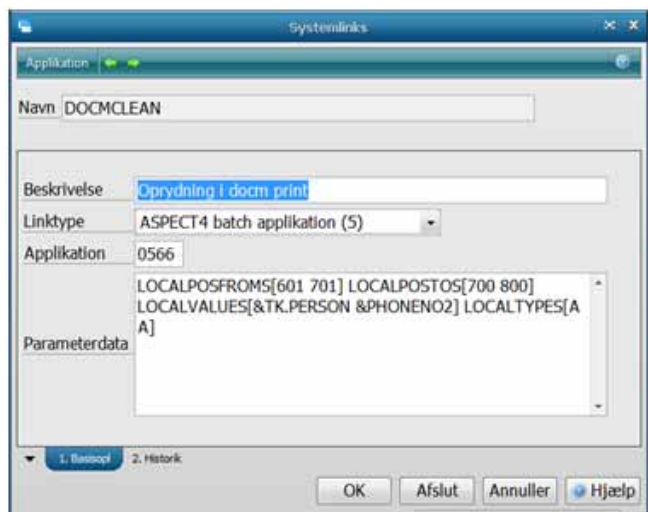
You can also choose to import process definitions via a function key in Maintain Process Definitions. Select the path and file to import from. If data already exist, you must decide which data should be overwritten, if any.

## New System Link Types

System links can now also be created with the types "ASPECT4 Cockpit" and "ASPECT4 batch application". "ASPECT4 Cockpit" is used for calling cockpit applications.



'ASPECT4 batch application' is used for calling applications that are submitted directly to the job queue without a requisition.



## Cleaning-up Run

The clean-up run is automatically started after restarting EGSERVER. The following is cleaned up:

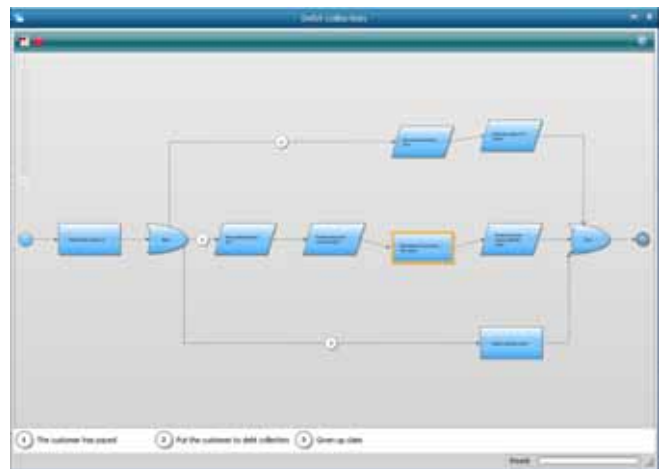
- Process definitions where version numbers no longer in use will be deleted.
- Process instances where instances that are too old will be deleted.
- Event log where too old data will be deleted.
- Database triggering where too old data will be deleted.
- Calendar variances and temporary absence where data too old data will be deleted.
- Task responsible's authorisations where too old data will be deleted.

## Display Process Graphically

The process definition can be displayed graphically from Maintain Process Definitions and from a task in the workflow task list.

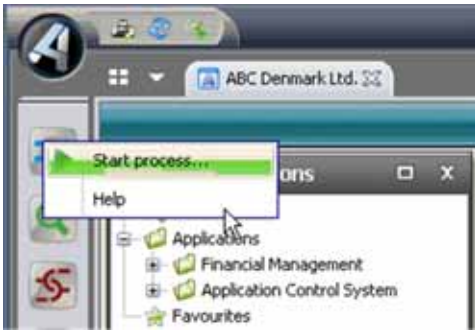
Hold the mouse pointer over a task to enlarge the text. You zoom in and out either by using the scroll bar to the left, by right-clicking and selecting "Zoom in" or "Zoom out", or by using the shortcuts Ctrl + and/or -.

With the "Functions" button in the workflow task list, the process may also be displayed. Here you can also see where in the process the current task is (marked with a yellow frame).

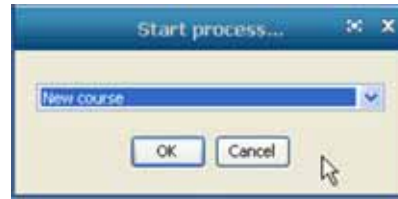


## Manual Event

Events can be manually started by right-clicking the shortcut for the workflow task list in the shortcut bar. Manual events are events that cannot be started from other triggers, i.e. events where system-wise nothing happens, but where something external triggers the start of an event in ASPECT4 Workflow Management.

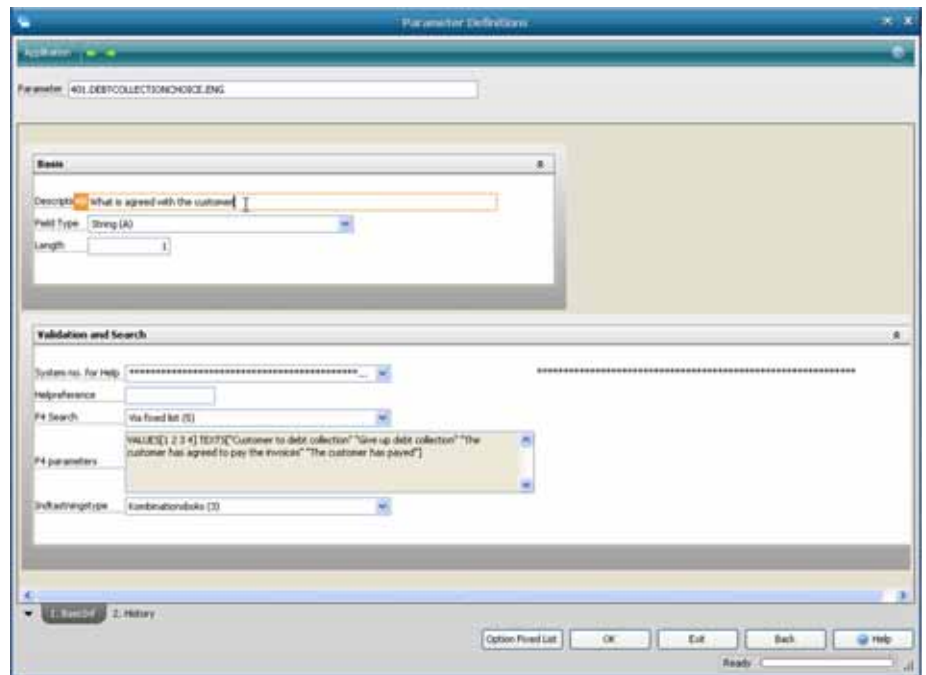


In the overview, choose the event you want to start. If parameters from the event's process definition should be entered, they will be prompted.



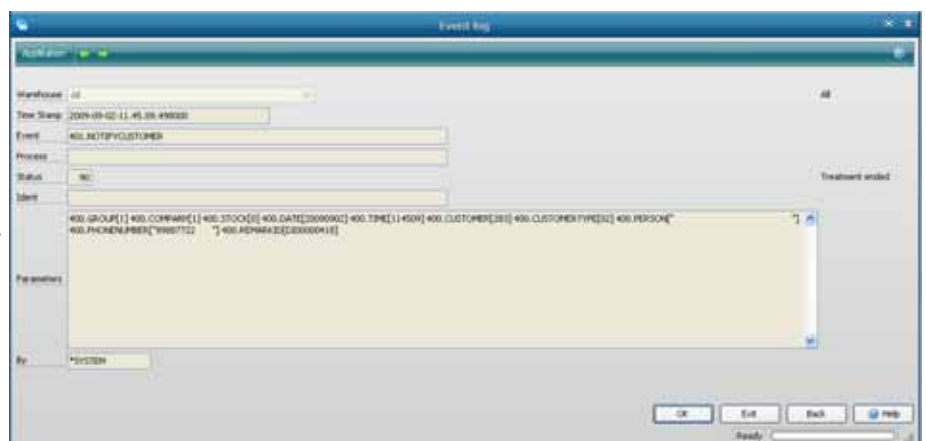
## Presentation of Parameters

For each parameter, choose how to display it and how to enter it in ASPECT4 Workflow Management.



## Event Log

This is a new application that enables you to display the event log. The application is used if you have problems with seemingly missing process instances in ASPECT4 Workflow Management. By positioning on the event, you get information about it and about why a process instance has not been started. The status information tells what has happened. An overview of status values is found in the application help.



## Common Item Maintenance

For a long time there has been a request for ASPECT4 Logistics to be able to do common item maintenance, i.e. maintaining all information for an item in the same sequence.

The feature is provided in this release where a function has been created that is called "Common Item Maintenance".

The "Common Item Maintenance" is available via settings. When the basic item has been created, data can be copied into other applications and subsequently you are lead through the applications while maintaining the data. The applications must be the kind of applications where other information related to the item is maintained.

For *Basic Items* (9102) settings are made in *Maintain Application Parameters* (0128) under Maintain Parameter. A file name KOPIERUDV must exist.



At present you can choose between the following applications:

- *Sales Information* (9104)
- *Item Features* (9105)
- *Basic Sales Prices* (6114)
- *Basic Prices - Sales* (6115)
- *Duty per Item* (950G)
- *Alternative Units* (950E)
- *Supplementary Item Discount Groups* (950J)
- *EAN Numbers* (9109)
- *Customer Special Agreements* (611A)
- *Purchase Items* (9103)
- *Basic Prices - Purchase* (7115)
- *Standard Costs Items* (9131)
- *Overhead Elements* (9139)
- *Special Agreements Suppliers* (711A)
- *Production Models* (9121)

Up to 25 applications calls can be specified here.

Enter an application number and choose the following:

- Data is copied and subsequently maintained (i.e. the application is called)
- Data is not copied, but the application is called (supposing manual creation of the data)

This is carried out with these parameters for an application:

- Copy Data  
(0=No, 1=Yes)
- Maintain Data  
(0 =No, 1=Edit data, 2=List image)

Please note that 1 in 'Maintain Data' is only allowed for applications with only one possible record.

There are a number of conditions and special circumstances for copying:

- Sales prices – only valid prices are copied. Prices with customer ident = 0, are not copied.
- Purchase prices – only valid prices for primary supplier are copied.
- Standard costs – only valid and new standard cost prices are copied.
- Production model – only valid model variants are copied.
- Item texts in language are copied.
- Supplementary texts in language are copied.

The common item maintenance can either be performed with the normal item maintenance in *Basic Items* (9102) or in the new cockpit that has been developed for this purpose - *Common Item Maintenance* (9703) - see the image on the next page.



Item No.	Description	Su	St	Tp	Unit	Spec	Dec	Grp 0	Grp 1	Grp 2	Grp 3	Grp 4	Grp 5	Grp 6	Grp 7	Grp 8	Grp 9	R	Whse	Location
1	AA001254		30	D		1	5		1-001	XL444			5-001						Anvendes ikke pt.	LAGR001
2	AA001255		30	L		1	4			4444			5-001						Anvendes ikke pt.	LAGR001
3	AA001347		30	L		1	0			4444			5-001						Anvendes ikke pt.	LAGR001
4	ABC VARE		30	L	STK	1	1			00004			5-001	6-001	7-001	8-003			Anvendes ikke pt.	LAGR001
5	ADRGEBYR		0	D	STK	1	0	0		444			5-001						Anvendes ikke pt.	LAGR001
6	AFGIFT BATTERI		30	D	STK	1	4			2-004			5-001	6-001					Anvendes ikke pt.	LAGR001
7	AFGIFT EMB GLAS2		30	D	STK	1	1			444			5-001						Anvendes ikke pt.	LAGR001
8	AFGIFT EMB GLAS4		30	D	STK	1	1			444			5-001						Anvendes ikke pt.	LAGR001
9	AFGIFT SPIRITUS		30	D	ARK	1	5			444			5-001						Anvendes ikke pt.	LAGR001
10	AFGIFT VIN		30	D	LTR	1	4			44			5-001						Anvendes ikke pt.	LAGR001
11	AFGIFT VIN 1.2		30	D	LTR	1	4			2-004			5-001						Anvendes ikke pt.	LAGR001
12	AFGIFT VIN 1.3		30	D	LTR	1	4	3AU		44			5-001						Anvendes ikke pt.	LAGR001
13	AFGIFT VIN 2.2		30	D	LTR	1	4			44			5-001						Anvendes ikke pt.	LAGR001
14	AFGIFT VIN 2.3		30	D	LTR	1	4			44			5-001						Anvendes ikke pt.	LAGR001
15	AFGIFT VIN 3.2		30	D	LTR	1	3			44			5-001						Anvendes ikke pt.	LAGR001
16	AFGIFT VIN 3.3		30	D	LTR	1	2			44			5-001						Anvendes ikke pt.	LAGR001
17	BMH-DIV		30	D		1	0						5-001						Anvendes ikke pt.	
18	BMH-DIV-TEST		30	D		1	0			2-004			5-001						Anvendes ikke pt.	LAGR001
19	BMH-DIVX		30	D		1	0			2-004			5-001						Anvendes ikke pt.	LAGR001
20	BMH-DIV1		30	L		1	0			2-004			5-001	B					Anvendes ikke pt.	LAGR001
21	BMH-D1		30	L	STK	1	0	HBM		2-004			5-001					BMH	Anvendes ikke pt.	LAGR001

Cockpit for Common Item Maintenance (9703)

## Postcode Application

In many solutions for the transport business it is important to use the correct postcode with the correct structure to be able to perform the exchange of package information.

In cooperation with Iver C. Weilbach we have developed a feature which makes sure that a validation is carried out to the postcodes and that the city name is automatically added based on the postcode.

This validation is performed in *Postal Code Maintenance* (0212) as an addition to section 0242, where the construction of postcodes is specified.

The country code is part of the entry and different formats can be used for different countries' postcodes.

A specific postcode field has been added, and an F4 application can be used from the following information:

- ADRSREG (delivery- and receiving addresses) – maintained in *Delivery Addresses* (6129) and *Receiving Addresses* (7129).
- KULEREG (customers and suppliers) – maintained in *A/R Maintenance (Flex version)* (2111) and *A/P Maintenance (Flex version)* (3111)
- ORDHREGS (sales orders) – maintained in *Sales Orders* (610x)
- ORDHREGI (purchase orders) – maintained in *Purchase Orders* (710x)
- TRALREG (transport arrangements) – maintained in *Transport Planning* (6191)
- FRBHREG (freight dockets) – maintained in *Freight Dockets* (6192)
- TRSHREG (sales order transactions) – maintained in *Sales Order Transactions* (6101)

A specific postcode field has been added to the following information:

- EDCHREG (EDI and DocManager, invoices etc.) – cannot be manually maintained, but contains a specific postcode.
- EDFHREG (EDI and DocManager, delivery notes etc.) – cannot be manually maintained, but it contains a specific postcode.
- EDPHREG (EDI and DocManager, packing list etc.) – cannot be manually maintained, but it contains a specific postcode.

The value of the field is validated:

- and when the correct postcode is found, the values from the postcode file are added to the selected fields.

## Extension of Bank Data Information

In cooperation with Unimerco we have created a function to automatically obtain information about bank data that may be included in the communication with customers.

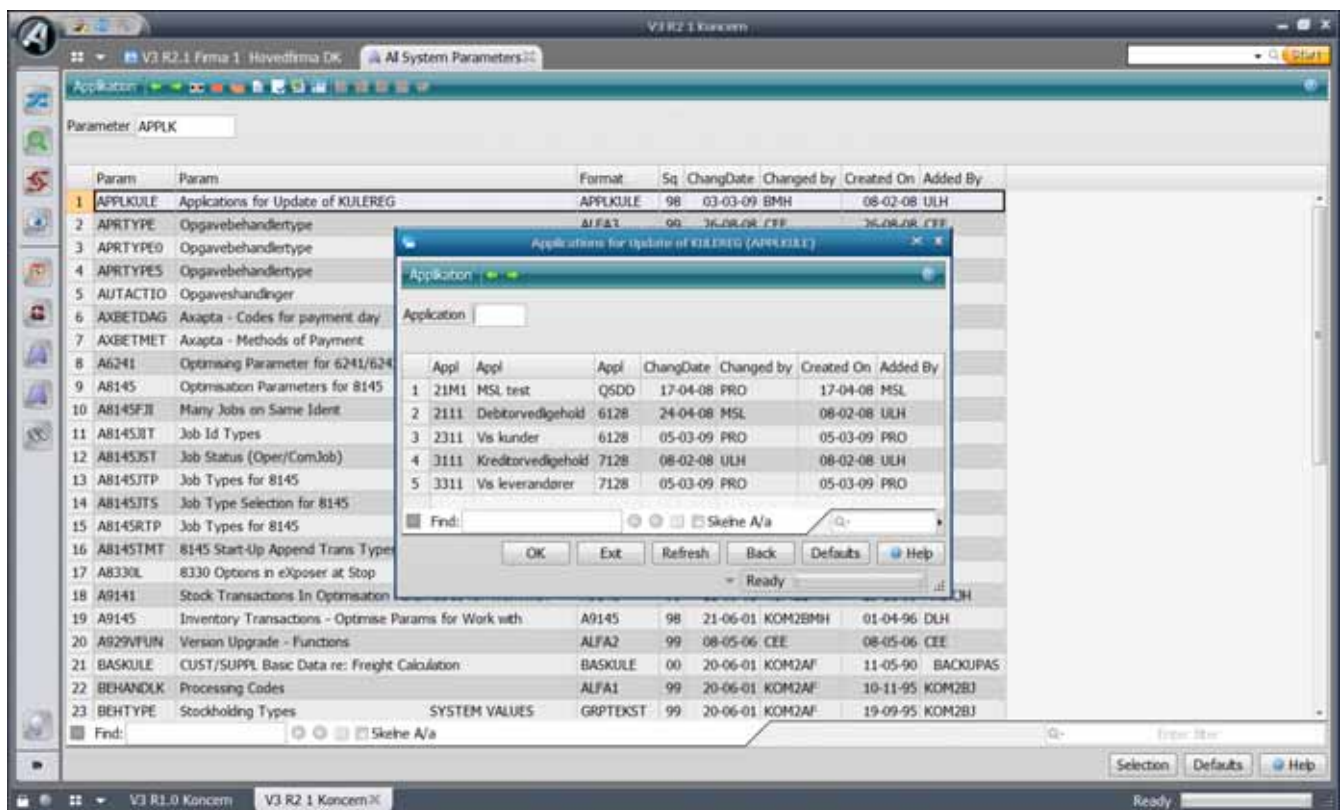
From section 2269 (Payment Identification) in the General Files the following information is obtained based on group, country, form type and currency:

- The bank's registration number
- Account number in the bank
- IBAN number - International Bank Account Number

## Parameter Controlled 2111

A solution has been developed to make copy applications of customer and supplier maintenance possible in the future.

Method: If there is a reference between for instance *A/R Maintenance (Flex version)* (2111) and *Customers* (6128) in the new company parameter APPLKULE, it will define the call. If there is no reference in the parameter, the call continues to *A/R Maintenance (Flex version)* (2111) for customers and to *A/P Maintenance (Flex version)* (3111) for suppliers. This might be the case if you call from *A/R Master Records* (2311).



## Enquire Product Parameters (9320)

In cooperation with Unimerco, an application has been developed by which you can see how a product is configured.

To display the information, you must enter the model number and the model variant. If the model variant has not been entered, the variant indicated in the item's basic information is selected.

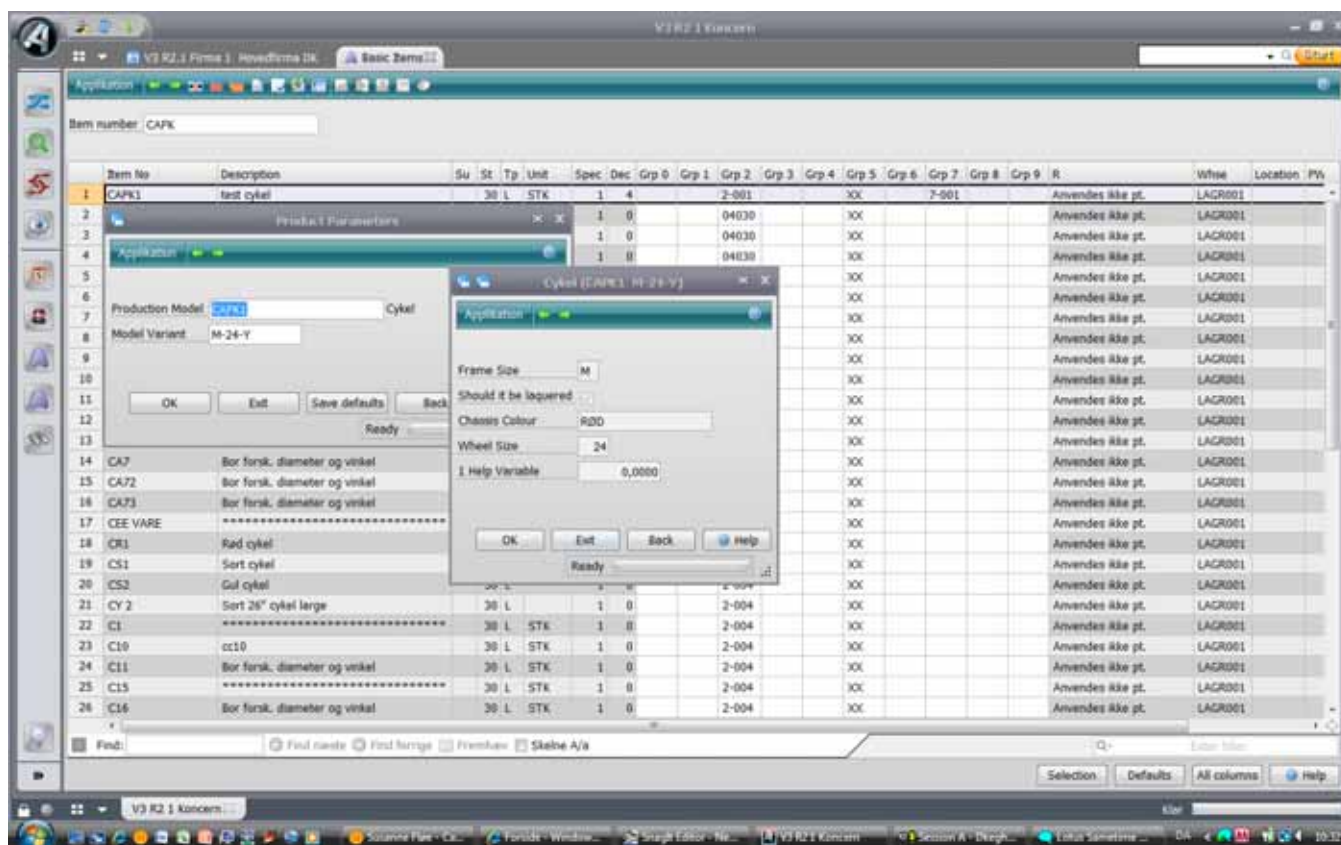
*Product Parameters* (9320) can be called from a menu. It can also be added as a shortcut to for example *Basic Items* (9102), *Sales Items* (9104), *Firm Orders* (6104) and *Production Orders* (8102).

Furthermore, *Production Models* (9121) has been improved and is now giving information about which configuration model was used when creating the model.

## Replacement Item Number

Previously you had to know if an item had been discontinued and replaced by another. No tools existed to handle this. In cooperation with Iver C. Weillbach we have now created a function to this end.

To *Basic Items* (9102), a next level has been added where you can enter the replacement item number for the item. In order to enter the replacement number, the status of the item that is replaced must be at least 80 (not part of new relations).





In case of an EDI order, the replacement item is unconditionally created when entering items with status  $\geq 80$ .

It is possible to let these replacement items consist of an entire chain of replacements, to ensure that a check is made for replacement items each time an item number is used.



## News in the Configuration

In cooperation with Unimerco we have added new facilities to the configuration.

### External Processes in the Configuration

This is done by entering "K" to the operation line as operation type plus the model that you wish to use in the operation ident.

After this the information from the entered model will be copied into the configuration model that you are working with.

### SIN, COS and TAN in the Configuration

We are using SIN, COS, TAN and their inverse functions ASIN, ACOS and ATAN.

Furthermore the functions MIN, MAX, SQRT, SUM, LOG and LOG10 are implemented.

GrLne	CalcSpec
1	3 &HONREGN2 := 25
2	4 &NUM := 0,4448
3	5 &HONREGN1 := 180 - ASIN(&NUM) * 360 / 2 / 3,1416 * (-1)
4	6 &ALFA16 := @DATETOSTR(@CURDATE)
5	7 &DATO := @STRTO DATE(&ALFA16) + 1
6	10 IF MIN((&HONREGN1 + &HONREGN2) / &HONREGN3, MAX(2,3)) = 3 &HONHELP1 := MIN((&HONREGN1 + &HONREGN2) / &HONREGN3, MAX(2,3))
7	20 &HONHELP2 := SUM((COS(&HONREGN1) + 1), (&HONREGN2 + 1), (&HONREGN3 - 2))
8	30 &HONHELP3 := COS((&HONREGN1 * &HONREGN2) + 2 + SIN(1))
9	40 &NUM := 3 + 20 * (10 - 2) / 8

## Call to ZAKTIVDATO instead of looking up in DATOREG

When working on a development for GP Gas, we created an easy way to make company specific validations of whether a date is active.

All programs that previously looked up in *Company Calendar* (9175), now calls ZAKTIVDATO instead. ZAKTIVDATO is called with 'C' to check if the date is active.

If you are using ASPECT4 Financial Management, a check is also performed to see if a date is prior to an end date specified in *Monthly/Annual Closing* (1270). A date that is prior to the end date specified, will always be a not-active date. The system will return an error if a date does not exist or if it is not active. So it is fairly easy to add company specific changes into this call.

## F4 for Account Number/Dimension in Pseudo Chart of Accounts

When maintaining the *Pseudo Chart of Accounts* (9180) you can now use F4 to dimensions when you have an integration to the ASPECT4 Financial Management. If you have integration to other financial systems, F4 will not work. This gives you an easy and quick overview with created values found in the individual dimensions.

The help text for dimensions in *Pseudo Chart of Accounts* (9180) has been amended to:

*"Valid values must exist in the chart of accounts in the financial system. If there is integration to ASPECT4 Financial Management, the entered value is validated against a dimension in the financial system during transfer to finance. When entering or selecting account number/dimension with*

*F4 during maintenance of the pseudo chart of account, no validation is performed if the current account or dimension permits entries. It is not possible to make this validation because the final posting string is only determined at the time when the finance transaction is created."*

## Freight – Debit and Provision

In cooperation with Unimerco and Iver C. Weilbach we have developed a solution for handling provisions and for debiting freight.

Changes were made on the background that provisions should be made in a way, that they will reflect the real freight costs as much as possible. You must be able to adjust or even omit freight costs.

The description below includes:

- General debiting terms
- Freight delivery method
- Freight warehouse area
- Freight tariff
- Freight item group
- Freight rate table
- Calculate freight provision
- Control of freight provision
- Variable freight
- Manual entry of freight provision
- Control of freight debit
- Regulating freight rates

### General Debiting Terms

The delivery terms for the order control whether to debit freight or not. The company parameter LEVBETIN has a new field added to it for this control (Yes/No to freight debit). If the delivery term says "No" to freight debit, nothing further is done.

When the delivery terms are added to the sales order during order creation, a search is performed with "fall through" meaning that if the information for the customer number is blank, the search might continue to a retailer. If this is also blank, it continues to debtor etc.

### Freight Delivery Method

There is a new company parameter - FRAGTLMD – in which you can specify that the freight calculation for a given delivery method must be calculated based on the freight table for another delivery method.

When freight is calculated based on a specific delivery method, the rates are looked up according to the selected freight delivery method. The rate from here is corrected according to the specified rate index (index 100 corresponds to the same rate, index 125 corresponds to an additional 25 %, index 80 % corresponds to 20 % less) and is added to the specified fixed addition.

If no freight delivery method is connected to a given delivery method, the delivery method is used as the freight delivery method.

### Freight Warehouse Area

In a new company parameter FRAGTLGS you may specify that the freight calculation, when delivering from a given warehouse area, shall be calculated in the same way as when delivering from another selected warehouse area.

If no freight warehouse area is connected to a given warehouse area, the warehouse area is used as freight warehouse area.

## Freight Tariff

*Freight Tariff* (6124) is used for pointing out which freight rates to use.

Application: Fragttariffer

Freight Delivery Method: BJ BVJs fragttestlevmåd

Country Code: DK Denmark

From Delivery Area: Intet Leveringsområde

To Delivery Area: 7777777 Leveringsområde 7777777

Freight Tariff: TARIF1 Tarif 1

Buttons: OK, Exit, Back, Help

Ready

The freight tariff number is validated against a new company parameter - FRAGTTTRF - which contains permitted freight tariffs.

If the delivery method code is used for selecting the carrier, and the delivery area code (customer master data, delivery address master data and sales order header information) is used for a further division, for example postcode, the table may reflect the carrier's tariff division.

## Freight Item Group

In the company parameter LEVMAADE connected with the delivery method code there is a specification of the quantity unit that the freight (and thereby any connected freight tables) is made up in, i.e. the freight calculation key:

- V: Weight
- R: Volume
- K: Parcel
- P: Pallets

The freight item group is an item master data. This is validated against company parameter VAREFRAG.

At present you have to specify in the company parameter whether to make freight provision for the group in question.

Now the company parameter VAREFRAG has had the following information added to it:

System Parameters

Application: Fragtbl

Group: FB Fragtbl

Group Name (danish): Fragtbl

Freight Provision: ☒

Conversion Factor for Weight: 0,00000

Freight Unit Type: V Weight

Sequence: 0 >= 0

Buttons: OK, Exit, Back, Help

Ready

## Freight unit type

The freight unit type determines the quantity unit for the freight calculation, which the item is normally made up in. The unit type may have the same values as described above (V, R, K or P).

A new company parameter FRAGTFAK is created with the following content:

System Parameters

Application: Fragt 88 sp. 00

Freight Delivery Method: B

Item Freight Group: Ingen fragtgruppe

Conversion Factor for Weight: 150,00000

Conversion Factor Volume: 150,00000

Conversion Factor for Parcel: 150,00000

Conversion Factor for Pallets: 150,00000

Buttons: OK, Exit, Back, Help

Ready

The conversion factors determine any fixed conversion between the item's freight unit type and the unit type of the delivery method (from the freight table). If a given conversion factor is not specified (i.e. equal to 9), the appropriate quantity unit from the item's sales information will be used.

*Example:* The delivery method specifies that the quantity indicated is weight, i.e. "V". A given item's item freight group indicates that this is a volume item, i.e. quantity unit "R". The item's sales information indicates that the weight is 0.75 (kg), while the volume is 2.0 (l). If the current delivery method/item freight group combination has a "conversion factor for weight" which is 0.5, then the weight of one unit of the item will be 1.0 (kg). If the conversion factor is 0, the weight will be 0.75 (kg) instead.

## Freight Rate Table

*Freight Rate Table* (6120) contains the following information:

Application: Fragt

Delivery Method: FB Afhentes sp.00 Warehouse area: DAI

Limit for Quantity: 0,00000 Net Weight

	Quantity limit	Quantity limit	Freight Rate	Freight Rate
1	5,00000	Net W	1,26	DKK
2	15,00000	Net W	13,00	DKK
3	20,00000	Net W	1,70	DKK
4	30,00000	Net W	4,00	DKK
5	35,00000	Net W	1,70	DKK

Buttons: Find, Find næste, Find forrige, Fremhæv

Tekst er for lang, begræns til 5 tegn

"From date" indicates the date when the freight rate comes into effect. The units of the quantity limit is found under the delivery method. At lookup you might find overriding values for "delivery method" and "warehouse area" under



FRAGTLMD and FRAGTLGS, respectively. If there is no overriding value, the original value will be used.

"Freight rate" indicates the amount that is set aside for a freight quantity up to the specified quantity limit. The freight provision amount can make up the basis for the freight debit.

### Calculate Freight Provision

For company parameter FRAGT, a general check is performed for whether freight provision is used, and LEVBETIN is checked to see whether provision should be made according to the current delivery terms.

If provision for freight should be made, all sales order lines will be run through.

- The delivery method from the order is converted.
- The order line's warehouse area is converted.
- The item's freight group is checked for whether a freight provision should be made.
- If provision, the freight quantity is calculated.

After summing up, the freight amount is determined.

- The "freight tariff" is determined based on the order delivery method, country code and delivery area as described in freight tariff.
- The freight amount is calculated and updated in a new field on the sales order.

The field "Manual freight" on the order header still overrides, if indicated, any automatically calculated freight provision.

### Control of Freight Provision

When creating e.g. a firm order, the freight is calculated for the entire delivery. When transferring to invoice order, the freight provision is individually calculated. Naturally the freight provision for this may vary from the provision of the firm order when we have a partial delivery.

Even if the freight is calculated for the order as an entity, the freight provision will be distributed proportionally to the relevant order lines when requested and at finance update.

When subsequently enquiring into the order total of the firm order, the freight provision for the total order will stay unchanged, while the provision for the back order will reflect the back order's proportional share of the total freight provision. Therefore this will not necessarily reflect the costs of the next or subsequent deliveries.

### Variable Freight

If no fixed freight is debited, if there is no freight annulment, and if no manual freight amount is specified, the customer will be charged a freight charge based on the freight provision.

In a first round the freight provision is converted into a freight amount in system currency. This conversion is controlled by the settings in a new company parameter FRAGTDEB.

The screenshot shows the 'System Parameters' dialog box with the 'Freight Delivery Method' set to 'AF'. Other parameters include 'Freight Provision' (12,34), 'Fixed Freight Debit Amount' (1000,00), and 'Regulation factor' (1,50000). The currency is set to DKK. Buttons for OK, Exit, Back, and Help are visible at the bottom.

A found freight provision is converted into debit amount if the provision amount is smaller than or equal to the specified amount limit.

The conversion can be for a fixed amount ("Fixed debit amount" entered and "Regulation factor"=0), and it may be a proportional regulation or a combination of both.

The calculated amount to be charged or - if such a conversion rule has not been defined - the very amount of the freight provision is converted to freight charge via rate and rounding rules defined under a new company parameter FRAGTVAL.

The screenshot shows the 'System Parameters' dialog box with the 'Currency' set to 'DKK'. Other parameters include 'Rate of Exchange' (100,0000), 'Fixed Addition' (0,00), 'Settlement Type' (0,01), and 'Rounding Type' (Normal Rounding). Buttons for OK, Exit, Back, and Help are visible at the bottom.

The currency rate is a "conversion index" or a "political rate" and must not necessarily reflect the actual currency rates. Please note that if you use rate "110" for "DKK", the freight rate is set to equal the freight provision + 10 %.

"Fixed addition" could be a fixed addition in the specified currency that is added to the converted amount before rounding.

"Rounding" is a specification of amount. The regulated amount is rounded so that it can be divided by the value that is specified here. The value for "DKK" can e.g. be "1.00" which means rounding to the nearest DKK.

The "rounding type" can take on the following values:

- A: Rounding
- O: Rounding up
- N: Rounding down

The freight item number for "Variable freight" is specified in company parameter LEVMAADE.

### Manual Entry of Freight Provision

The amount of the freight provision can be manually entered to the order header in ASPECT4 Logistics. Such an

amount will override the automatically calculated freight provision and thereby also any debited freight rate.

### Managing Freight Debit

The freight charge is calculated during order creation and recalculated during order editing. The order is also checked for "collective delivery".

Freight charges are placed irrespective of the type ("Manual freight" or "Variable freight") in the order charge file (ORDAREG) where all other charges are also found.

Any previous freight rate is deleted during the recalculation and before a new calculation is performed.

"Manual freight" is only released at the first delivery (the invoice order's delivery sequence number is < 2).

For partial delivery, the balance of "Variable freight" is recalculated in line with the freight provision and it is based on delivery of the current balance.

If debited freight is based on freight provisions and the freight should be invoiced according to the first order, this can be achieved by specifying the calculated amount in the field "Manual freight".

### Regulating Freight Rates

Freight rates are frequently regulated in many places. When regulation is performed, it is based on rates on a given date and the regulation is performed with a factor (e.g. "oil price addition").

*Regulate Freight Rates* (6203) is used for regulating freight rates. The four first lines define the freight tables that make up part of the regulation ("Carrier" is indirectly evaluated via the delivery method's master record).

"New validity date" indicates the date for the resulting freight tables. The specified regulation rate will be used for this regulation.

As you may have a large number of agreements to be regulated with different rates, and as regulations may be frequent, you are now able to specify validity dates and regulation factors in a special file that is maintained in *Freight Regulation* (6123):

If you have answered Yes (J) to using parameters from the freight regulation file, information from here is used instead of from the startup parameters "Validity date" and "Regulation factors".

Only those rates are processed where carrier and validity dates have been specified in the freight regulation file and where they also meet the limitation set by the startup parameters' "From/To"-specifications.

### Enquire Sales (6300)

In cooperation with Unimerco we have created a new sales enquiry application.

Here the user can enter available information.

If a customer number is entered, the same customer number search is used as when creating sales orders.

If at least one of the four fields at the top is used, the data from here is used for finding the customer.

You can then only select list 1 or 2. Any other information entered apart from the customer number will limit the lists. This means that if you enter the customer's exact order number in order to find the customer, there must be an exact match. If the customer number is entered, you can enter a part of the customer's order number, which will only limit the list of order numbers, so that the entered data only have to be part of the customer's order number and as such is not case sensitive.

Some examples are shown on the next page.

If headers per customer is required:

Application: Sales Costings (Items)

Order Type: Undefined Created Date: 99999999 Order Number: 0 Delivery Sequence Number: 0

Mulige genvejes  
Refresh F5  
Selection Shift+F5  
All columns Ctrl+Alt+F12  
Tryk "Ctrl" for at fjerne

	TP	Created	SG	Order	Seq	St	Cm	Ref No	Cust Order No	Cust Contact	Internal Contact	ExpiryDt	Cust No	Salesperson
1	00	04-11-08		2903884	1	20	0	0	8504003	PJ	SUF	0	82001	KJH
2	00	04-11-08		2903885	0	55	0	0	8500324	PJ	SUF	0	82001	KJH
3	00	03-11-08		2903882	1	20	0	0	8504776	ST	SUF	0	82001	KJH
4	10	17-11-08		2903915	0	5	0	0	8506443	ST	CAP	0	82001	KJH
5	10	03-11-08		2903882	0	90	0	0			SUF	0	82001	KJH
6	10	03-11-08		2903884	0	90	0	0			SUF	0	82001	KJH
7	17	03-11-08		100270114	0	90	0	0			SUF	0	82001	KJH
8	17	27-10-08		100270113	0	20	0	0			SUF	0	82001	KJH

Find: Skejle A/a

OK Ext Refresh Back Selection All columns Help

Ready

If lines per customer is required:

Application: Transfer Credit Note Lines

Order Type: Undefined Created Date: 99999999 Order Number: 0 Delivery Sequence Number: 0 Line Number: 0

	TP	Created	Order	Seq	Line	St	Cm	Item No	Cust Item Descrip	Customer Item No	Qty Ordered	Del Date	ReqDelDate	Optn1	Whse	Optn2	Optn3	Optn4
1	00	04-11-08	2903885	0	10	55	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
2	00	04-11-08	2903885	0	20	55	0	1012	25 cm dol 3. ass.	46907	3	03-11-08	03-11-08		KEM			
3	00	03-11-08	2903882	1	10	20	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
4	00	03-11-08	2903882	1	20	20	0	1012	25 cm dol 3. ass.	46907	3	03-11-08	03-11-08		KEM			
5	00	03-11-08	2903884	1	10	20	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
6	00	03-11-08	2903884	1	20	20	0	1012	25 cm dol 3. ass.	46907	3	03-11-08	03-11-08		KEM			
7	10	03-11-08	2903882	0	10	90	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
8	10	03-11-08	2903882	0	20	90	0	1012	25 cm dol 3. ass.	46907	3	03-11-08	03-11-08		KEM			
9	10	03-11-08	2903884	0	10	90	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
10	10	03-11-08	2903884	0	20	90	0	1012	25 cm dol 3. ass.	46907	3	03-11-08	03-11-08		KEM			
11	17	05-12-08	100270113	0	12	0	0	KHN V1	Kristian Hansen Vare 1	KHN V1	1	27-10-08	27-10-08		KEM			
12	17	05-12-08	100270113	0	17	0	0	KHN V1	Kristian Hansen Vare 1	KHN V1	1	27-10-08	27-10-08		KEM			
13	17	02-12-08	100270113	0	15	0	0	1012	25 cm. dukke 3. ass	46907	2	27-10-08	27-10-08		KEM			
14	17	02-12-08	100270113	0	80	0	0	KHN V1	EN to trE	KHN V1	1	27-10-08	27-10-08		KHN HL			
15	17	03-11-08	100270114	0	10	90	0	1011	Dol, 45 cm. 2 ass.	91301	2	03-11-08	03-11-08		KEM			
16	17	03-11-08	100270114	0	20	90	0	1012	25 cm dol 3. ass.	46907	4	03-11-08	03-11-08		KEM			
17	17	27-10-08	100270113	0	10	20	0	1012	25 cm dol 3. ass.	46907	100	27-10-08	27-10-08		KEM			
18	17	27-10-08	100270113	0	20	0	0	1020	Dol 30 cm. w. bottle. 3 ass	91221	100	27-10-08	27-10-08		KEM			
19	17	27-10-08	100270113	0	30	0	0	1023	Dol 16 cm. 6 ass.	81601-PH	100	27-10-08	27-10-08		KEM			
20	17	27-10-08	100270113	0	40	0	0	1024	Dol 16 cm. Bath	81651	100	27-10-08	27-10-08		KEM			
21	17	27-10-08	100270113	0	50	0	0	1026	Dol 30 cm. 3 ass.	81101	40	27-10-08	27-10-08		KEM			
22	17	27-10-08	100270113	0	60	0	0	1031	en	GG1094-12538	40	27-10-08	27-10-08		KEM			

Find: Skejle A/a

OK Ext Refresh Back Selection All columns Help

Ready

If the top four fields are blank, the item number or the customer's item number must be entered, which will automatically form list 3.

Application: Transfer Sales Ord Lines Type

Order Type: Undefined Created Date: 99999999 Order Number: 0 Delivery Sequence Number: 0 Line Number: 0

	Customer No	Description	TP	Created	Order	Seq	Line	St	Cm	Item No	Customer Item No	Cust Item Descrip	Qty Ordered	Del Date	ReqDelDate	Whse	Optn1	Optn2	Optn3
1	90858	Supermarked 1	10	23-03-09	2904100	0	10	60	0	1020	91221	Dol 30 cm. w. bottle. 3 ass	12	03-04-09	03-04-09	KEM			
2	90859	EG A/S	10	30-09-08	2903758	0	60	0	0	1020	91221	Dol 30 cm. w. bottle. 3 ass	5	30-09-08	30-09-08	EKS1			

Find: Skejle A/a

OK Ext Refresh Back Selection All columns Help

Ready

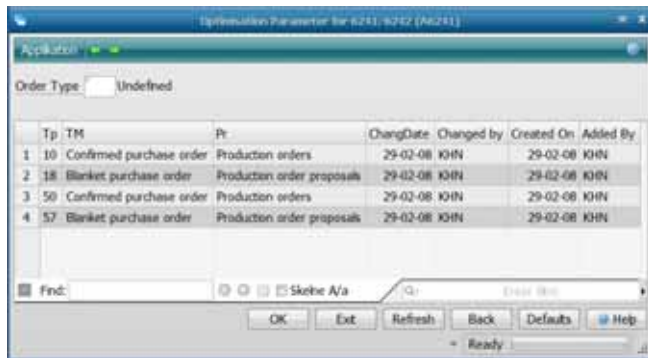
## Additional Optimizing Parameters for 'Implement Derived Order Transactions'

In cooperation with Nissens we have created further optimising parameters for *Implement Derived Order Transactions* (6241 and 6242).

An extra company parameter – A6241 – has been added and it contains the order types that are used for creating orders.

When creating orders you may add the order type to the basic item information – the order type to be used when creating an order for the individual item number when performing derived orders.

When entering a blank order type for the basic item information, the order type is obtained for the production order creation or the order type for purchase order creation via company parameter A6241. If no valid order type has been specified in the company parameter for the "From" type in question, the values specified in the application dependent data are used.



## Create Order Lines based on Spreadsheet

In cooperation with Iver C. Weilbach we have developed a function for importing order lines from e.g. a spreadsheet.

With ASPECT4 BusinessConnector (ABC) an adaptor has been created that makes up a standardised method for importing order lines from a document.

The task only covers creation of order lines. No options will be given for receiving changes via this adaptor.

### The working procedure is as follows:

An order header is created in *Sales Orders* (610x).

Then a document is saved with the document name = created order number for an agreed destination.

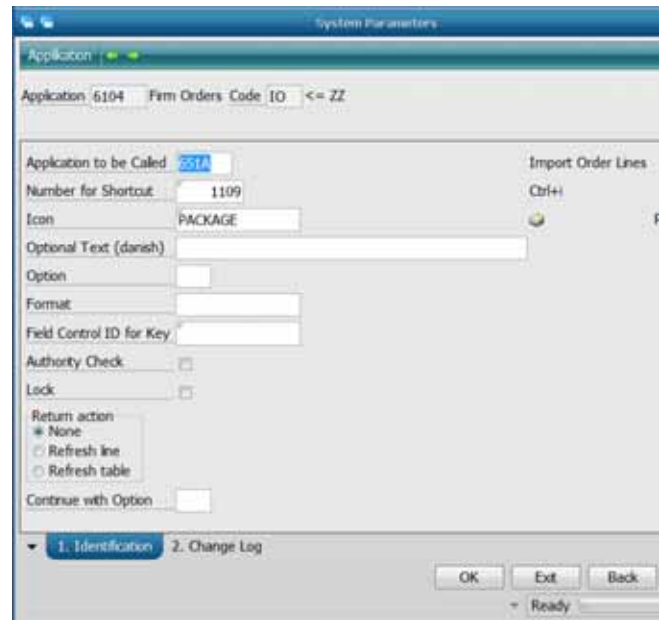
Via a right-click option in the order processing, an ABC job is initiated which causes order lines to be created based on the information in the saved document.

The import of this structure is performed via *Sales Order Transactions* (6101).

An "empty" journal header is created, and under this order header the individual lines are created.

When the import has been performed, the journal is updated with the sales order transactions and the order lines will be added to the created order.

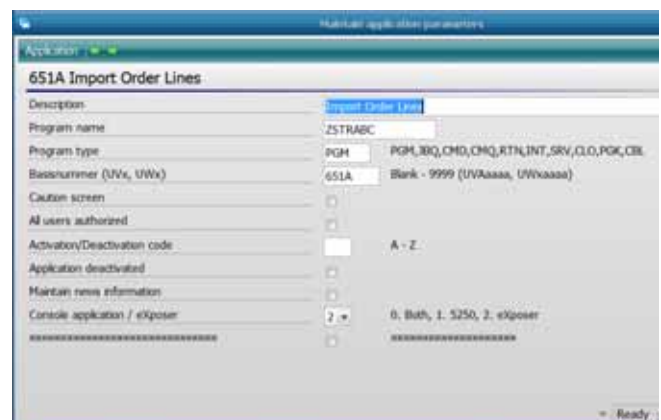
To initiate the import, right click on the created order and select the new option "Import Order Lines". This option is created in the company parameter SHORTAPP:



Calling this option causes the call of an application that provides a requisition with file name and file extension.



The file name and file extension has been filled in in advance with the order number that this option has been called with as well as the file extension that is set up via application-dependent data.





Apart from these two fields this new application also contains a profile name that is specified as application-dependent data.

When accepting the requisition, a call is made to application 0654 that starts an ABC job with the entered file name, and the import will be carried out.

An adaptor ORDERSADD is created which can import data based on the following XML structure:

#### Header:

Field name	Type	Description
OPRETDATO	S9(8)	Creation date for document

#### Line:

Field name	Type	Description
ORDRETYPE	X(2)	Order type (00, 01, 10, 17, 18) (must be entered)
ORDREN	S9(9)	Order number (must be entered)
LEVQOBENR	S9(4)	Delivery sequence number (may be entered)
LINIENR	S9(4)	Line number (set to 0)
VAREN*	X(16)	Internal item number
UDFALD1-5	5 * x(5)	Option 1 – 5, may be filled in or otherwise left blank
KUNDEVAREN*	X(16)	Customer's item number
EANNR*	X(14)	EAN item number
ANTAL	S9(8)V9(5)	Ordered quantity
UNIT	X(5)	Ordering unit (may be left blank)
LEVDT**	S9(8)	Internal delivery date for order line
FRKDT**	S9(8)	Arrival date for order line

\* Only one of these three item numbers must be filled in. Agree with the customer which of the fields should be filled in.

\*\* You must enter either delivery date or arrival date. The field that is not filled in, is automatically calculated based on another field.

## Quote Management

In cooperation with Iver C. Weillbach we have added facilities for handling quote management.

An option for specifying the number of days until expiration of a quote has been added. In company parameter MODUL-3 you must enter the number of calendar days that should be added to the first default calculated delivery time - this it makes up the expiry date for the quote.

The number of days that we refer to is calendar days (e.g. adding 30 days to the 15<sup>th</sup> of September gives the 15<sup>th</sup> October). A maximum of 999 days can be added. If the field contains a value that is 0 or an invalid value, the expiry date will have 00.00.00 as default.

Furthermore, we have now enabled the changing of status on quote lines so that you can work manually with the likelihood of turning the quote into an order. This is used for including certain quotes in the arrangements run. We have enabled the use of status 00 and 15 via a function. If a quote does not contain lines, the current status value 05 (no lines) will remain.

## Customer Search

In the latest release we made the search for items in ASPECT4 Logistics easier. This search concept is now also applied to search for customers. The feature was developed in cooperation with Unimerco.

You may search by:

- Customer number
- Telephone number
- Address line 1
- Address line 2
- Address line 3
- Address line 4
- Address line 5
- Contact person
- Internal name

- and choose whether to search only among active customers.

The search is activated by entering one of the values and pressing Enter.

Customers that meet the specified criteria are displayed in the list. If there is only one possible candidate, it is entered into customer. In the example on the next page we have entered "820" as the customer number.

**Mulige genveje:**  
 Refresh F5  
 Selection Shift+F5  
 Tryk "Ctrl" for at fjerne

	Cust/Suppl No	Telephone Number	Internal Name	Contact Person	Name Lin	er Addr Line 1	Customer Addr Lin
1	82000	89303030	DANSK SUPERMARKED	SALGSAFDELINGEN 07	Dansk Supermarked A/S	Bjødstrupvej 18	8270 Højbjerg
2	82001	89438000	FØTEX CITY VEST	SALGSAFDELINGEN 07	Føtex City Vest	Gudrunsvvej 7	8220 Brabrand
3	82002	87393000	FØTEX STORC. NORD	SALGSAFDELINGEN 07	Føtex Storcenter Nord	Finlandsgade 17-19	8200 Århus N
4	82003	87446000	FØTEX VIBY CENTER	SALGSAFDELINGEN 07	Føtex Vibycentret	Viby Ringvej 10	8260 Viby J

Find:  Skeje A/a

Buttons: OK, Back, Selection, Exit, Refresh, Help

Ready

You may limit which searches to use. This is done in a company parameter, which for customers is KUNDEVAL. This company parameter can be defined by user or generally for all users.

System Parameters

Application

User Name

Customer Number ☒

Telephone Number ☒

Customer Address Line 1 ☒

Customer Address Line 2 ☒

Customer Address Line 3 ☒

Customer Address Line 4 ☒

Customer Address Line 5 ☒

Contact Person ☒

Internal Name ☒

Active ☒

1. Identification 2. Change Log

Buttons: OK, Exit, Back, Help

Ready

We recommend that the search is limited to what is required, not to affect the server unnecessarily.

## Print Scanning Labels for MultiArchive

The purpose of printing scanning labels to MultiArchive is to be able to add these labels to a document before the document is scanned. The scanning label will normally contain information on e.g. order number and consignment number. When the document/certificate has been scanned, you can search and view the document based on the information found on the scanning label.

An application has been developed that prints a scanning label to MultiArchive. This application can be called from many existing functions.

System Parameters

Application

Version  ORDRE Ordreidentifikation

Identification

Description (danish)  Ordreidentifikation

Field description

Reference for Display File  ORDHREGS Ordrehoved (Salg)

Reference for Display Format  ORDHRECS

Field Info for Label

Ident  ORDRE Test ordre PRO

Text 1  ORDRE Test ordre PRO

Text 2  KUNDE Test ordre-kunde PRO

Text 3  SAGSBEH Ordresagsbeh. - Test PRO

Change Log

Date Changed  30-06-09

Changed By  SUF

Created Date  19-02-09

Added By  PRO

Buttons: OK, Exit, Back, Help

Ready

The design for a scanning label is specified in company parameter MALABEL, in which file name + format name and four fields are entered for voucher number, Text 1, Text 2 and Text 3 (these four fields are printed as (1) barcode and (3) plain text fields on the label, respectively.) The four fields get a value added from a field control ident.

The design of a scanning label is specified via a version in application-dependent data.

Via the company parameter SHORTAPP you can set up a call to this application from optional applications.

## Update Delivery Date on Lines

In cooperation with AASS P. Ltz. AS, we have developed a function in sales order transactions for updating delivery date from the header down onto all lines. This is done based on an application parameter. There is a function that corresponds to the one for order registration.

Via *Maintain Application Parameters* (0128) for *Sales Order Transactions* (6101) you can determine how **Update of Delivery Date** should be carried out:

0=No update of delivery date

1=Automatic update without enquiry

9=Enquiry of whether you wish to update delivery date.

## Send Quotation via ASPECT4 BusinessConnector

In cooperation with Iver C. Weilbach we have developed facilities for sending quotations electronically.

Quotations that have been prepared in *Quotations* (6105) can be sent as document type 310 (Offer/Quote) via ASPECT4 BusinessConnector when the customer has been set up to receive this way.

---

## Automatic Selection of Delivery Method

In cooperation with Unimerco we have developed a function for making an automatic selection of delivery method, e.g. that an order for a specified area with a specified value and weight should be included.

The automatic selection of delivery method is based on parameters created for selected order types describing how a delivery method is automatically replaced by another.

The automatic function for the selection is made during the feedback of the despatch.

The description is divided into the following elements:

- Limitation of delivery
- Ranking the elements in VAREFRAG
- Company parameter LEVMAADE
- Delivery method table
- Manage automatic selection of delivery method

### Limit Delivery

Only order lines that are delivered by the selling company make up part of the basis for automatic selection of delivery method, meaning that order lines that are delivered directly to the customer from a supplier (associated company or external supplier) will be skipped in this situation.

### Ranking of the Elements in VAREFRAG

The elements (freight groups) in VAREFRAG must be ranked. Two elements cannot have the same ranking value.

The screenshot shows the 'System Parameters' window with the 'Allways Roadparcel' group selected. The configuration includes:

- Group Name (danish): Allways Roadparcel
- Freight Provision: ☒
- Conversion Factor for Weight: 1,00000
- Freight Unit Type: V
- Sequence: 1
- Weight: >= 0

At the bottom, there are tabs for '1. Identification' and '2. Change Log', and buttons for 'OK', 'Exit', 'Back', and 'Help'.

When the handling of sales order lines for a given order is completed (after creating or changing), all relevant order lines are run through. Freight rates are checked for all item numbers concerned and the freight group with the highest value is used for look-up in the delivery method table.

### Company Parameter LEVMAADE

Specify the following new information for company parameter LEVMAADE:

- Automatic overriding permitted?
- Should order be held back from picking?
- Carrier
- Freight charge type (Freight charge item number)

The first information indicates if the delivery method concerned may be overridden by another automatically found delivery method.

The second information specifies whether the current delivery method must be held back from picking. This is used for instance for "special courier" where freight specifications are handled manually. When the freight recording is completed, you change the delivery method for the order manually.

"Carrier" is transferred to the sales order when the delivery method has been selected.

"Freight charge type" is used when creating freight charges.

The screenshot shows the 'System Parameters' window with the 'Speditar, lastbil' delivery method selected. The configuration includes:

- Delivery Method: TL
- Description (danish): Speditar, lastbil.
- Freight Information:
  - Calculation of Freight Charges: ☒
  - Freight Unit Type: V
  - Item No Freight Provision: FRAGT
  - Freight Paid for Retmed Goods: ☐
  - Item Freight Group: ☐
  - Auto Override permitted?: ☐
  - Order Held Back from Picking?: ☐
  - Carrier No:
  - Freight Charges Type:
- Miscellaneous:
  - Accounts Group: KK
  - Vat Group:
  - INTRASTAT Transport Method: 0
  - Customs Documents Transp Methd: 30
- Route Calendar:
  - Default Route Calendar Purch:
  - Default Route Calendar Sales: TSR\_DNP

At the bottom, there are tabs for '1. Identification' and '2. Change Log', and buttons for 'OK', 'Exit', 'Back', and 'Help'.



## Delivery Method Table

Automatic selection of delivery method is managed in *Automatic Selection of Delivery Method* (6126).

"From/To item group" is limiting the search regarding the order's most important item group element (VAREFRAG). The weight limit is the maximum average parcel weight for an order (FRAGTOMR).

The delivery date code can have the following values:

- Delivery date can be changed
- Delivery date must not be changed

When a search in the delivery method table is performed, the time of closure, the route calendar and the delivery date code is checked as follows:

- If the delivery date is today's date and the time of closure has been exceeded in relation to the current time, the delivery method cannot be used, i.e. the search continues for an alternative delivery method.
- Otherwise the search is performed via the route calendar, if delivery can be made on the order's delivery date. If this is not the case and the delivery date *cannot* be changed, the search goes on for an alternative delivery method.
- If the delivery date *can* be changed, you return to the day that is the first possible next delivery date, according to the route calendar.

## Manage Automatic Selection of Delivery Method

When the processing of sales order lines for an order is completed (after creation or editing) or when editing order header information, a check is performed for whether the delivery method shall be replaced automatically.

First there is a check for whether this is permitted according to the delivery method's master data (LEVMAADE). If not, nothing further is done.

"Most important item freight group" exists.

Then a search is made in the delivery method table (6126). The first occurring key fields are the "most important ones". A specific search is performed (the most narrow limitation), before a more general search.

Each time a search criteria is met, a check is made to see whether the "route calendar" that is connected to the selected delivery method is "open" on the requested delivery date. If this is not so, the search will, depending on the "delivery date code", look further or find an alternative delivery date.

If the delivery method is accepted, the delivery method, carrier (from the delivery method's master data) and delivery date are returned to the order. The person handling the order is informed via a popup if the delivery date has been changed.

Automatic selection of delivery method is furthermore carried out when creating despatch journal. The selection is not performed if the journal contains several orders!

Only order lines that are in picking procedure (order lines that are marked with picking journal number) are checked during the evaluation. The selected delivery method is added to the picking journal's master data. Furthermore, any open picking journal connected to the same sales order will be corrected.

### Example

It is assumed that a concrete order has a delivery method that can be overridden and

- that the delivery country is "SE"
- that the delivery area is "1234"
- that the item group is "007"
- that the sales order group is "EX"

- and that the delivery method table has the relevant elements shown below:

Country	From/to area	From/to item grp	SO grp	Weight grp	Del. method
SE	0000-9999	000-002		30	LM1
SE	0000-9999	000-999		30	LM2
SE	0000-9999	000-999		9999	LM3
SE	0000-9999	000-999	EX	30	LM4
SE	1000-2000	000-999		30	LM5
SE	1000-2000	000-002	EX	30	LM6

In the first round the delivery method "LM4" is selected. If this is not "open" on that day, the search start from the beginning again with "blank" sales order group. Thus the search and lookup is done in the sequence "LM5", "LM2" and last (if these were not open either) "LM3". If "LM3" is not open, nothing is returned!

Please note: It would be relevant to leave open the delivery method that makes up the "base" in each search (e.g. "Mail").

In order to be able to catch any error situation, we recommend that the delivery methods that can be automatically replaced, should be marked so that they are held back from picking.

Therefore you must also make a manual follow-up on orders that are held back from picking due to the delivery method.

## Integration to Post Danmark and TNT

In cooperation with Iver C. Weilbach, we have developed an integration to the transport suppliers Post Denmark and TNT. The integration to Post Denmark is carried out via WINEDI.

The individual transport supplier's software prints labels and controls the despatches. The information is transferred back to track-and-trace.

### Conditions

ASPECT4 Logistics' transport solution is a requirement, as this solution is based on transport arrangements.

### Overall Solution

Information is transferred to the transport supplier's software which prints one label per parcel. Lines are transferred from the despatch journal for orders that have a specification in the delivery method (new code) about whether it should be transferred and to whom.

Freight docket number for the individual package is returned.

The individual packages can be displayed under each order. A link is created to a website for the logistics partner, based on the freight docket number. This information is saved as freight docket headers in ASPECT4 Logistics.

## System Parameters

An integration code has been added to the delivery method company parameter. It specifies who handles the current delivery method. The code must be able to have different values as it is also used by other integrations.

The new adaptors are defined in system parameter ABCDOCID:

	Code	Code	ChangDate	Changed by	Created On	Added By
1	WINEDIR	EG416.WINEDIR.RCV	25-06-09	STU	25-06-09	STU
2	WINEDIS	EG416.WINEDIS.RCV	25-06-09	STU	25-06-09	STU

A complete description for mapping can be obtained from EG when purchasing the modules.

There is also a new system parameter (LEVMAADET) that specifies the link for delivery methods connected to the track-and-trace.

## Trigger

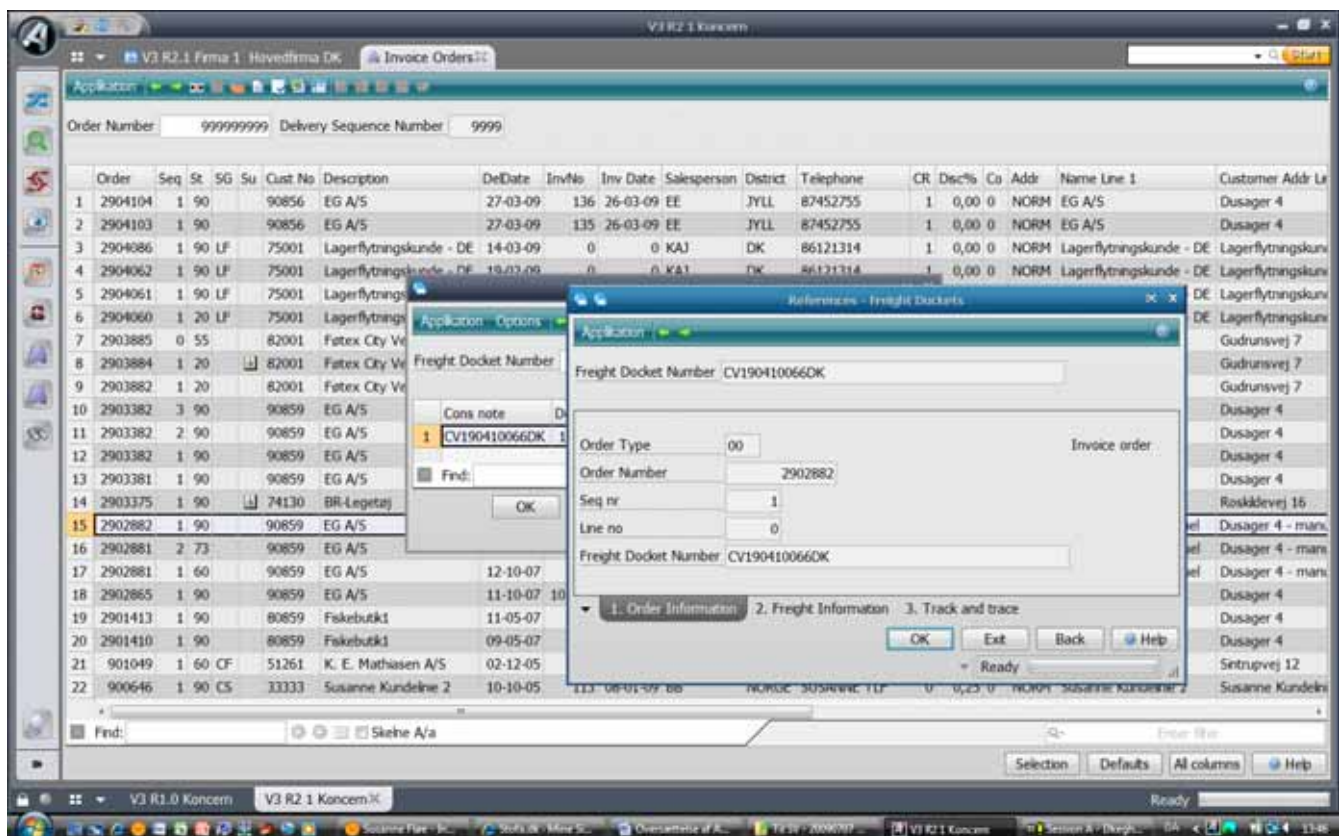
A trigger has been added to RUTHREG. When the status is lifted to 90, the delivery method is checked. If this indicates that a transfer will be performed, the lines are run through and the adaptor for the despatch is called.

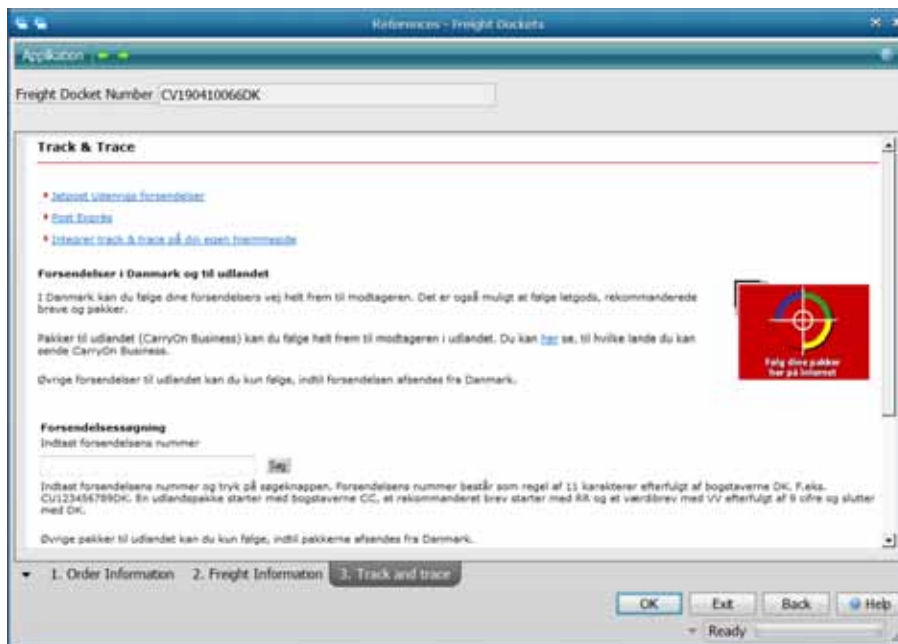
## Functionality

When the transactions have been processed, the information is returned to ASPECT4 Logistics, including the track-and-trace information.

The information that is returned is a track-and-trace number and information regarding number of parcels, gross weight and volume. The three last-mentioned fields are all updated in the transport arrangement.

The track-and-trace number is updated to the freight docket number in freight docket reference and is displayed via function *Freight Docket/Transport Ref* (652E) which is called from *Invoice Order. Firm Orders* (6102/6104) shows the freight docket number.





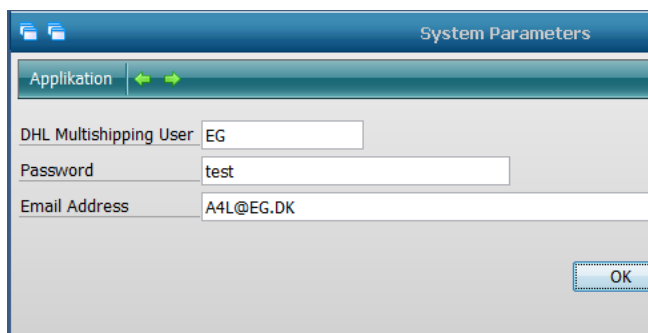
By pressing the tab Track-and-trace, information about the despatch is displayed.

## Integration to DHL

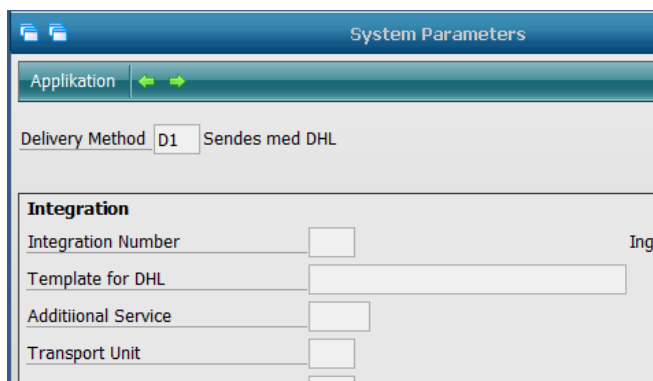
In cooperation with Iver C. Weilbach, we have developed an integration to DHL. The solution works more or less the same way as WINEDI, but with more fields and more extensive setup.

### System Parameters

A new company parameter - DHL - describes the access to DHL's system Multishipping:



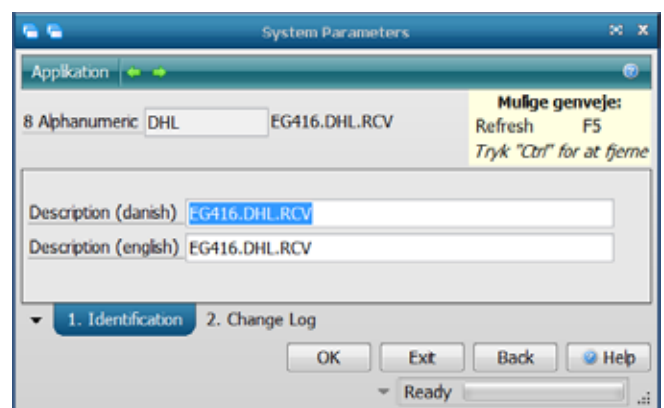
The company parameter LEVMAADE has been extended:



- where the extended service is defined as:

DOM	Domestic
ECX	Inside EU- not liable to duty
DOX	Documents – not liable to duty
WPX	Liable to duty
TDK (09:00)	Not liable to duty
TDK (12:00:00)	Not liable to duty
TDK (09:00)	Liable to duty
TDK (12:00:00)	Liable to duty

The new adaptors are defined in system parameter ABCDOCID:



A complete description for mapping can be obtained from EG when purchasing this module.



## Changes in Booking – Specify Delivery (8229)

In cooperation with Nissens we have made some changes to the Booking – Specify Delivery.

A print option has been added to this application. It contains the delivery times that are calculated. Furthermore, you may now select Yes or No in the startup screen to update the run, so that it only shows the delivery times that can be calculated.

Company parameter BOOKBAND has had some extra parameters added:

- Extra days that make up the number of days that are added to the calculated delivery time.
- The minimum number of days that is a specification of the minimum delivery time. If the calculated delivery time including the added extra days is less than the minimum delivery time, the minimum delivery time is used.
- The utilisation degree that is a specification of the utilisation degree of the capacity for this band. The utilisation is specified in percent.

System Parameters

Application: [OK] [Cancel] [Help]

Bookings' band: KHIN1

Mulige genveje:  
Refresh F5  
Tryk "Ctrl" for at fjerne

Text (danish): Kristian Blind

Units before stop of del.date: 10

Suppl Days: 0

Minimum Number of Days: 0

Utilisation Degree: 100

1 - 100

1. Identification 2. Change Log

OK Exit Back Help

Ready

## Print Freight Dockets

A change has been made to printing freight dockets so that the facilities in the STFES are used when the print is generated.

The printout is performed from *Invoice Orders* (6102).

Print Freight Docket

Application: [OK] [Cancel] [Help]

Freight Docket Format

Format	Description (danish)	PrinterFile	Changed	Changed by	Created	CrtdBy	
1	APOST	Apost test	A6139P1	11-07-08	JTD	11-07-08	JTD
2	APOSTPAK	Apostpak test	A6139P2	16-07-08	JTD	16-07-08	JTD
3	FRAGTBREV	Fraktbrev test	A6139P3	17-07-08	JTD	17-07-08	JTD
4	FRAKTBREV	Fraktbrev (norge) test	A6139P4	17-07-08	JTD	17-07-08	JTD
5	POSTERBHV	Post erhverv test	A6139P5	17-07-08	JTD	17-07-08	JTD

Find: [ ] [OK] [Afskud] [Opfrisk] [Tilbage] [Faste værdier] [Hjælp]

Ready

Here you may choose between existing created freight dockets.

It is also possible to edit information and add information – e.g. the number of packages or the value of the package.

Udskriv fragtpapirer APOST

Application: [OK] [Cancel] [Help]

Delivery Address: EG A/S

Delivery Address 2: Dusager 4

Delivery Address 3: 8200 Århus N

Delivery Address 4: Adresselinie 5 25

Delivery Address 5: Susanne Fløe

Kg. 0-5 Kg. 5-10 Kg. 10-15 Kg. 15-20 Kg. 20-25 Kg. 25-30

Vol 0-5 Vol 5-10 Vol 10-15 Vol 15-20

OK Annuller Hjælp

Ready

Udskriv fragtpapirer POSTERBHV

Application: [OK] [Cancel] [Help]

Delivery Address: EG A/S

Delivery Address 2: Dusager 4

Delivery Address 3: 8200 Århus N

Delivery Address 4: Adresselinie 5 25

Delivery Address 5: Susanne Fløe

Date: 80709 Weight in Kgs: Value of Amount: 4125

Cautious Express Night/Weekend Express

OK Annuller Hjælp

Ready

### FIFO Standard Costs in Warehouse

In cooperation with Unimerco we have developed a feature that changes the FIFO standard cost price management so that a standard cost per warehouse is found instead of per company.

These new parameters have been added to system parameter KOSTPRIS:

- FIFO costs per warehouse – a Yes/No field that determines whether FIFO standard costs should be used by warehouse.
- Recalculate historic stockholding – a specification of when a historic stockholding record in LABHREG must be recalculated. If a historic stockholding record in LABHREG is older than the number of minutes specified here, it will be recalculated.

In *Print Historic Holding* (9404) we have made changes so that when giving a value to a stock, the calculated FIFO price is used instead of the FIFO price that is found in *Item Costs* (9131). The same applies for *Print Current Holding* (9401) and in *Stockholding* (9302).

When FIFO cost prices are used, the price search is performed in the sequence below if no standard cost is found for the stockholding. The search sequence applies for instance when items are returned from a customer to a warehouse where the item has not yet been stocked.

1. The standard cost for the warehouse is used.
2. The standard cost from the item's primary warehouse is used
3. The item's reordering price (primary supplier's price + goods intake costs)
4. Standard cost from *Item Costs* (9131)

The screenshot shows the 'System Parameters' dialog box with the 'Costs and Rates' tab selected. The dialog has a title bar with 'System Parameters' and standard window controls. Below the title bar is a tabbed interface with three tabs: '1. Variants', '2. Costs and Rates' (active), and '3. Correction Perce'. The 'Costs and Rates' tab contains several parameters:

- Item Overhead Cost**: A checkbox that is checked.
- Other Rate**: A checkbox that is checked.
- Simulation Prices/Rates**: A checkbox that is checked.
- Error Message, Rates**: A dropdown menu showing the value '2'.
- Cost Price Element Usage**: A dropdown menu showing the value '2'. To its right, the text 'Looked-Up in Cost/Price File' is displayed.
- Fifo costs per Whouse**: A checkbox that is checked.
- Recalculation Hist Balance**: A text input field containing the value '30'.

At the bottom of the dialog, there are buttons for 'OK', 'Afslut', 'Annuller', and 'Hjælp'. Below these buttons is a status bar with the text 'Ready' and a small icon.

### Preregistration in ASPECT4 Financial Management and Automatic Invoice Settlement

For details about this feature we also refer to the description of the Integration package to MultiArchive.

In cooperation with Unimerco we have developed features for preregistration of credit invoices in ASPECT4 Financial Management and automatic settlement of adherent orders in ASPECT4 Logistics.

The background for this feature is a request to be able to use the preregistration function from ASPECT4 Financial

Management together with ASPECT4 Logistics. Hereby the following advantages are obtained:

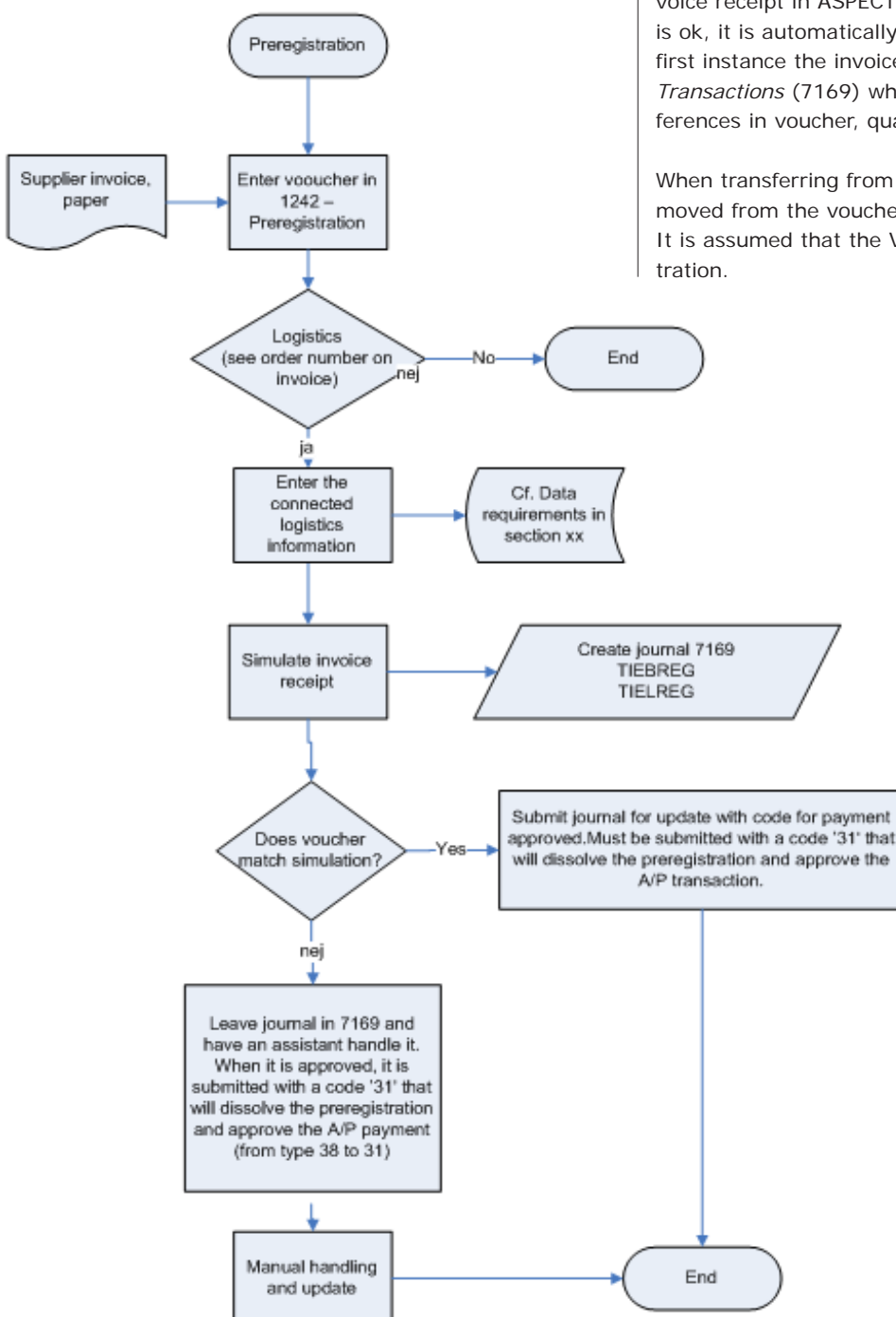
- VAT is deducted already at this point of time.
- All supplier invoices that have arrived, can be handled at this point in the process.

The solution follows the workflow below:

To the preregistration in *Voucher Registration* (1242) we have added a facility where you enter the necessary information for the automatic settlement.

When the preregistration is completed, the applications that carry the information into the EDI interface of the invoice receipt in ASPECT4 Logistics are called. If the invoice is ok, it is automatically approved. This means that in the first instance the invoice is taken on to the *EDI Receipts Transactions* (7169) where the extended validations for differences in voucher, quantity, and price are performed.

When transferring from the interface files, the VAT is removed from the voucher in relation to ASPECT4 Logistics. It is assumed that the VAT is deducted during the preregistration.



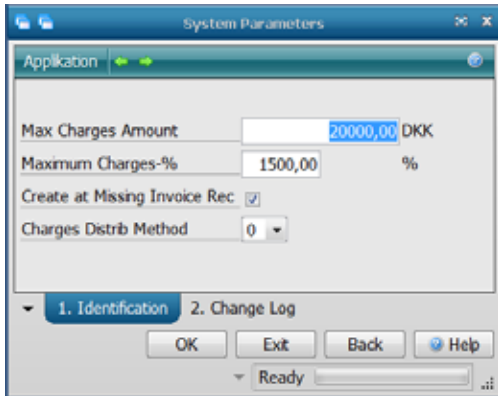
## Conditions and Limitations

An important part of the condition for this solution is that the voucher number is following all the way around, so that the settlement to the interim account is automatically performed.

Credit notes from the supplier are treated the same way as invoices. The only thing that is different is the sign of the amount. But, normally an automatic match of credit notes is complicated.

## Controlling Parameters

A company parameter – FORREG – has been created.



Amount limits for charges in relation to total sums on orders are controlling whether to mark the charges as accepted in the preregistration (both percentage and fixed amount can be used – and also in combination).

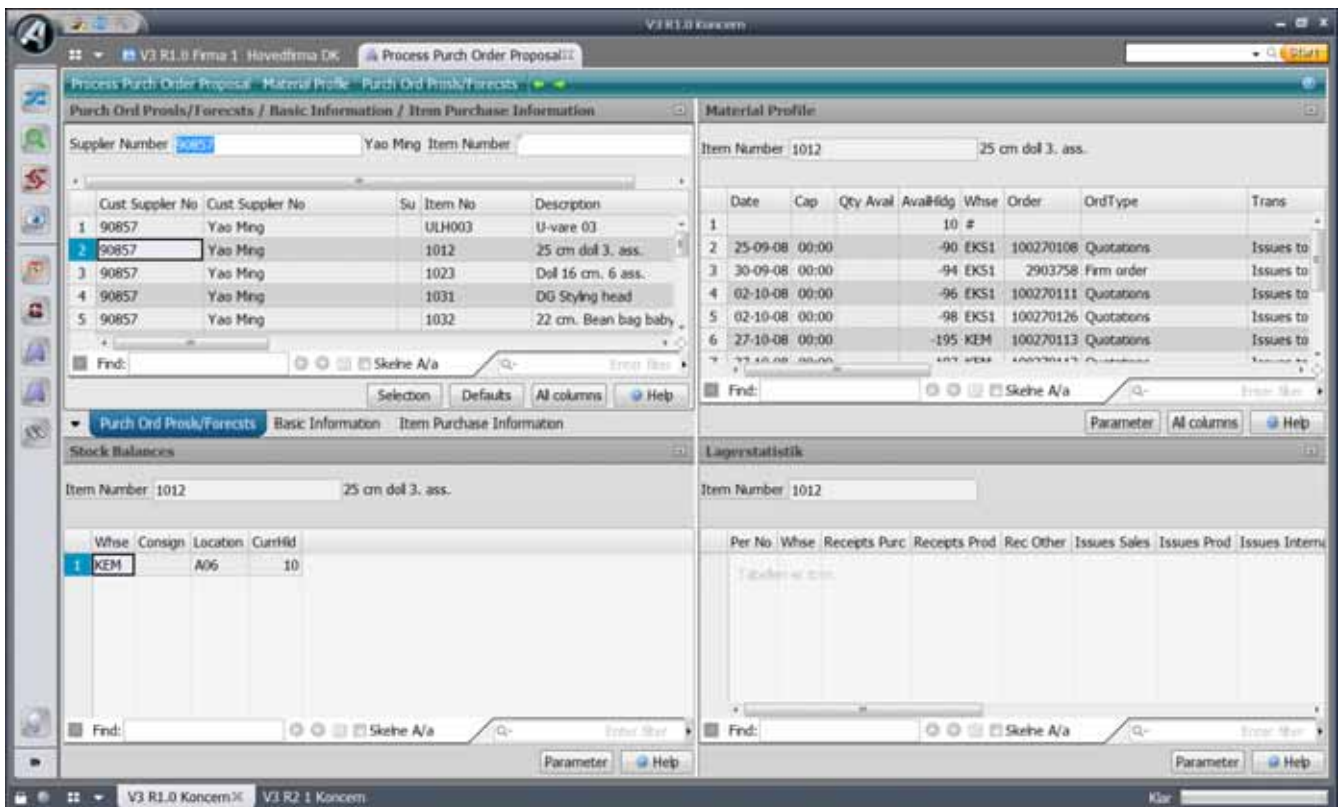
Parameters must exist for the following:

- 1) Must attempts be made to create an invoice receipt, when no item receipt has been made to the belonging purchase order?
  - Yes, voucher header is created without connected lines.
  - No, they will remain in the integration files.
- 2) Principle for distribution of charges:
  - On first order or
  - Evenly to the orders that belong to an invoice, i.e. in relation to the payable amount of the orders.

## Purchase Cockpit

In cooperation with Tytex we have developed a new cockpit for processing purchase order proposals.

*Process Purchase Order Proposals* (7701) is a compilation of *Purchase Order Proposals/Forecasts* (7123) with master data from item, stock holding, material profile and stock history.





## Supplier Search

In the latest release we made the search for items in ASPECT4 Logistics easier. This search concept is now also applied to search for suppliers. The feature was developed in cooperation with Unimerco.

You may search by:

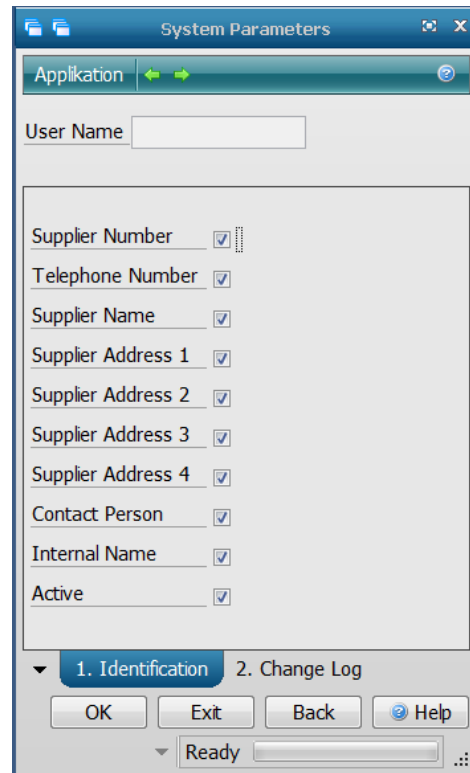
- Supplier number
- Telephone number
- Address line 1
- Address line 2
- Address line 3
- Address line 4
- Address line 5
- Contact person
- Internal name

- and choose whether to search only among active suppliers.

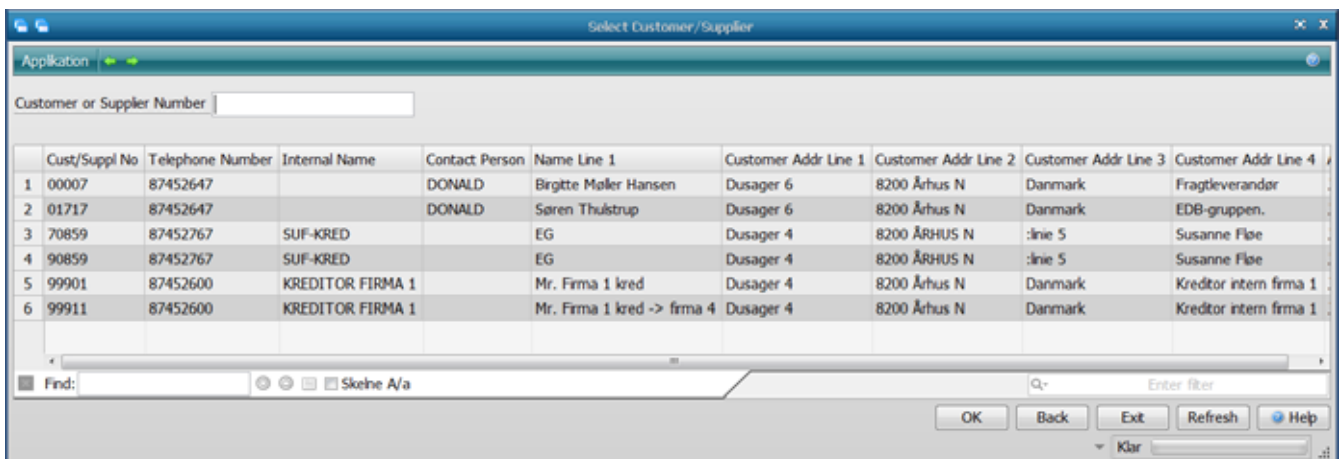
The search is activated by entering part of the value and pressing Enter.

Suppliers that meet the specified criteria are displayed in the list. If there is only one possible candidate, it is entered into the supplier field. Here we have entered "820" as the supplier number:

It is possible to limit which searches to use. This is done in a company parameter, and for suppliers this is LEVERVAL. This company parameter can be defined by user or generally for all users.



We recommend that the search is limited to what is required, not to affect the server unnecessarily.



	Cust/Suppl No	Telephone Number	Internal Name	Contact Person	Name Line 1	Customer Addr Line 1	Customer Addr Line 2	Customer Addr Line 3	Customer Addr Line 4
1	00007	87452647		DONALD	Britte Møller Hansen	Dusager 6	8200 Århus N	Danmark	Fragtleverandør
2	01717	87452647		DONALD	Søren Thulstrup	Dusager 6	8200 Århus N	Danmark	EDB-gruppen.
3	70859	87452767	SUF-KRED		EG	Dusager 4	8200 ÅRHUS N	:line 5	Susanne Fløe
4	90859	87452767	SUF-KRED		EG	Dusager 4	8200 ÅRHUS N	:line 5	Susanne Fløe
5	99901	87452600	KREDITOR FIRMA 1		Mr. Firma 1 kred	Dusager 4	8200 Århus N	Danmark	Kreditor intern firma 1
6	99911	87452600	KREDITOR FIRMA 1		Mr. Firma 1 kred -> firma 4	Dusager 4	8200 Århus N	Danmark	Kreditor intern firma 1

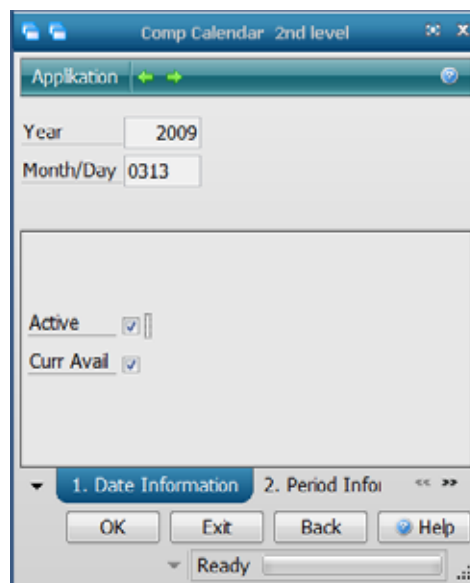
## Arrangements

### The use of Active Arrangement Date

In cooperation with Expedit we have developed a feature for ASPECT4 Logistics that extends the company calendar so that you have both an indication of whether a date is active (existing feature) in respect of creating finance transactions as well as whether a date is active in respect of the arrangement.

If you are using active arrangement dates and block off holidays and non-working days, in the future the delivery time will be specified as working days and not as until now in calendar days.

This also provides the opportunity to better control the delivery time during longer holidays such as Christmas and Easter.



## Intercompany

### Minor Intercompany Changes

In cooperation with Unimerco we have made a number of minor changes to Intercompany.

- 1) During *Intercompany Settlement* (7261) the prices from the invoicing in the delivering company are indiscriminately used (where previously they were held up against the expected prices from the internal purchase order).
- 2) Furthermore charges are now transferred in the same way from the invoice order to the *Supplier Invoice Recording* (7261). They are created as charges transactions. The information that is transferred is the four charge fields from the order header and the charges and excise duties in ORDAREG (charges and duties linked to sales orders). Please note that charges added as item lines on the invoice order are therefore not automatically settled!
- 3) An Intercompany parent order cannot be manually approved for invoicing in *Invoice Orders/Credit Orders* (6102/6103) if derived orders do not have a sufficiently high status. This only applies for vouchers that are di-

rectly linked to derived orders (e.g. during creation) and therefore not for vouchers that are transferred from the actual parent order (usually an invoice order transferred from a firm order).

- 4) You now have the opportunity to see status, order type and order number for derived orders (1<sup>st</sup> and 2<sup>nd</sup> level).

If you have several linked derived orders, the reference to the order with the lowest status is displayed. But references at the second level override references at the first level. This means that on a firm order that might include references to both internal and external purchase orders (e.g. order policy codes 'CF' and 'IG' respectively), any non-completed sales orders (not intercompany settled) are displayed at the second level (order type 'CS') before any non-completed purchase orders (not received) are displayed.

- 5) When creating an intercompany sales order, the *Simulate Arrangement* (6360) is activated in the associated company. The rearrangement including splits is replicated back to the parent order.

## Integrations

### Price Adaptor – Sales and Purchase Prices

In cooperation with MT Højgård and BP Gas, we have developed a solution for receiving sales prices and purchase prices via the ASPECT4 BusinessConnector (the ABC).

We have had still more requests from several parties regarding electronic transfer of prices to ASPECT4 Logistics from customers and suppliers.

ASPECT4 Logistics can now handle the recording of prices in a more automatic way, both for sales and for purchase prices.

One condition for received prices to be updated is that the item already exists in the system with belonging sales or purchase information and that units and price specifications are used - as defined in this information.

A module has been developed for an adaptor setup to receive the item price information in different formats via ASPECT4 BusinessConnector, to control them and to store them into the sales and purchase price files.

In the same way the prices sent from customers or suppliers must be sent via a new adaptor and be validated and transferred to price journals. Updating these journals will result in recording prices in the sales price file (SPRIREG) or purchase price file (LPRIREG).

It is possible to handle prices with errors in the journals in *Price Transactions* (611J).

### Controlling Parameters

*EDI Agreements (Suppl)* (6198) must be created with the document PRICAT:

Here you specify how received prices should be handled - which identification they must have and which supplementary discount codes to be added to the individual prices. Besides, this you must decide whether to create or make changes if the price already exists.

In this version of price receipt, alternatives cannot be used.

### Company Parameters

To the company parameter EDI we have added: Receive sales and purchase prices J/N.

The company parameter ABCRSP must be created with Response Processing for the document PRICAT:

Responses handling from ABC (ABCRSP)

Applikation: [Navigation icons]

Document Time Code: **PRICAT** EG416.PRICAT.RCV

Transaction Type Code: [Empty field]

	DocType	Trans	RefPgm	S	Appl	File	Format	ChangDate	Changed by	Created On	Added By
1	PRICAT	DE	ZABCRCPRI	OPDAT.HEAD				09-07-08	RN	09-07-08	RN
2	PRICAT	H	ZABCRCPRI	CREATE.HEAD	A2OH	EG416	PRICAT	09-07-08	RN	09-07-08	RN
3	PRICAT	H2	ZABCRCPRI	CREATE.HEAD	A2OH	EG416	PRICAT	16-09-08	HM	16-09-08	HM
4	PRICAT	L	ZABCRCPRI	CREATE.LINE	A2OL	EG416	PRICAT	09-07-08	RN	09-07-08	RN
5	PRICAT	L2	ZABCRCPRI	CREATE.LINE	A2OL	EG416	PRICAT	16-09-08	HM	16-09-08	HM

Find: [Field] Skejle A/a [Field] Enter filter [Field]

Buttons: OK, Exit, Refresh, Back, Defaults, Help

Klar [Field]

## Functions

The prices are read from ASPECT4 BusinessConnector into *Price Transactions* (611J). Here you can display and edit received prices.

Price Transaction Lines

Applikation: [Navigation icons]

Journal Number: **51**

Journal Line: **000000**

	Journal	JLine	St	TT	L	Item No	Cost	Price unit	PricCorr	OD	MB	OD	Changed	Changed by	Created	CreatedBy
1	51	000001	10	O	✓	101010	42,50	STK	✓	✓	✓	✓	17-02-09	HM	17-02-09	HM
2	51	000005	10	O	✓	101015	213,00	STK	Price Ord Units	✓	✓	✓	17-02-09	HM	17-02-09	HM
3	51	000007	10	O	✓	101020	455,00	STK	✓	✓	✓	✓	17-02-09	HM	17-02-09	HM

Find: [Field] Skejle A/a [Field] Enter filter [Field]

Buttons: OK, Exit, Refresh, Back, Help

Klar [Field]

Furthermore, the messages that were created in connection with the import can be displayed.

Messages - Price Transactions

Applikation: [Navigation icons]

Journal Number: **51**

Journal Line: **000000**

	Journal	Line	Ty	No	Text	Information
1	51	000000	90	14.811	Fejl ved oprettelse af en eller flere linier - Se fejlmeddelelser	SYSTE 000000000
2	51	000001	10	210	Enhed findes ikke	ZABCR
3	51	000001	10	1.404	Gyldighedsperiode (fra- til dato ) ikke angivet	ZABCR
4	51	000001	90	10.702	Record er allerede oprettet	SYSTE 000012
5	51	000005	10	210	Enhed findes ikke	ZABCR
6	51	000005	10	1.404	Gyldighedsperiode (fra- til dato ) ikke angivet	ZABCR

Based on a displayed journal, a transfer to/update of price data can be performed if all errors have been corrected. An update will result in new or changed prices in the files SPRIREG or LPRIREG, depending on whether the journals contain sales prices or supplier prices.



## Split Output

When queries using breaks are printed via e.g. DocManager, it usually means that one report is generated. With split output, several reports may now be generated, viz. one per break.

If e.g. a customer statistics report split up by salesperson is generated, the split output will be one report for each salesperson, rather than one large report.

When a print is split up into several reports, you may override selected data for each print. For example, you can specify the salesperson in the page header for the DocManager printout while the print is automatically sent via e-mail to the salesperson concerned. In this way the salesperson only gets the information that concerns him or her – and entirely automatically with a single query run.

Split output is supported for DocManager reports and when creating IFS files.

## Conditional Formatting

Conditional formatting makes possible better visibility to deviations etc. in a query result as you are able to change the way you want the result presented depending on the values in the individual rows. This could be formatting the row where the contribution ratio is below an acceptable value and making the background colour red while making the background colour yellow for rows that have a contribution ratio that is close to acceptable.

Apart from the background colour, you may also change the colour of the font, make the font bold and/or italic and decide if the formatting should apply for the entire row or only for the value that you relate to – e.g. the contribution ratio.

Another example could be a customer overview with customers that you need to pay special attention to regarding exceeded credit limits, as illustrated in the picture.

	Credit limit	Name	Phone number	Balance	Limit exceeded
1	5000	Knud Erik Andersen	56390108	9.947,60	4.947,60
2	5000	Leo Nielsen	50508131	5.266,67	266,67
3	5000	Pia Korsdal	98187426	9.680,01	4.680,01
4	5000	Peter Lundbye	40738756	9.250,00	4.250,00
5	5000	Bo Møller	61272056	7.950,00	2.950,00
6	5000	Tine Wagner	41127797	6.043,25	1.043,25
7	5000	Verner Østergaard	22898472	8.193,00	3.193,00
8	5000	Nanna Rolff	86258060	6.525,00	1.525,00
9	5000	Kristian Nyeboe	74425123	7.866,00	2.866,00
10	5000	Ole Bremer	20212739	6.000,00	1.000,00
11	5000	Hanne Kjeldsen	415 84 133	7.668,00	2.668,00
12	1000	Brian Rasmussen	35103429	1.768,72	768,72
13	1000	Søren Kristian Sørensen	56288095	2.100,00	1.100,00
14	1000	Torben Jakobsen	44944625	2.174,74	1.174,74
15	1000	Åse Kristensen	97538923	3.545,30	2.545,30
16	1000	Finn Jensen	31132207	5.750,98	4.750,98
17	1000	Else Olsen	61701739	2.278,02	1.278,02
18	1000	Søren Boris	28720004	3.103,00	2.103,00
19	1000	Sonja Sørensen	98133655	2.280,58	1.280,58
20	1000	Jula Winkler	40587762	9.851,29	8.851,29
21	1000	Vagn Sørensen	97446432	2.983,24	1.983,24
22	1000	Marie Misao Yoshida	23442237	4.475,00	3.475,00
23	1000	Rune Harder	21600135	1.050,51	50,51
24	1000	Mads Høth	35141595	2.347,32	1.347,32

## Functions

Functions is another new concept in QueryManager that covers a number of possibilities for further handling a row in a result. For example, functions can be used for making a drilldown in the result, i.e. get deeper into the results of a given row.

The types of functions available are: drilldown, web call and document look-up.

### Drilldown

Drilldown gives the opportunity to find new information based on the selected row. For a query that gives an overview of customers you might think it relevant to see a customer's orders.

Drilldown in QueryManager can only be used with queries by entering the query for which to make the drilldown and how to request it. For example, from the query that gives the customer overview, you can create a drilldown that uses an order query that is requested with a customer number.

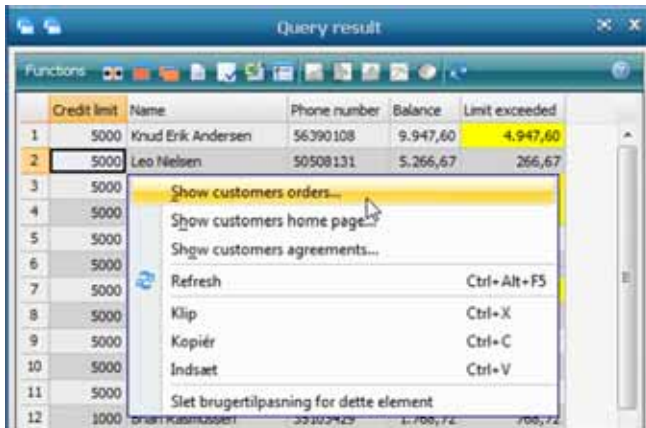
### Web call

Web calls make possible activating an internet page based on the selected row. In a customer overview this might be displaying the customer's home page or displaying the linked salesperson's information from the company's "Blue book".

## Document Search

With document search you can find information in the ASPECT4 Document Index based on the selected row. Documents in ASPECT4 Document Index may originate from workflows. In a customer overview, a document search might have the objective of displaying the customer's agreements.

When executing the query, each created function will appear as right-click options in the query result:

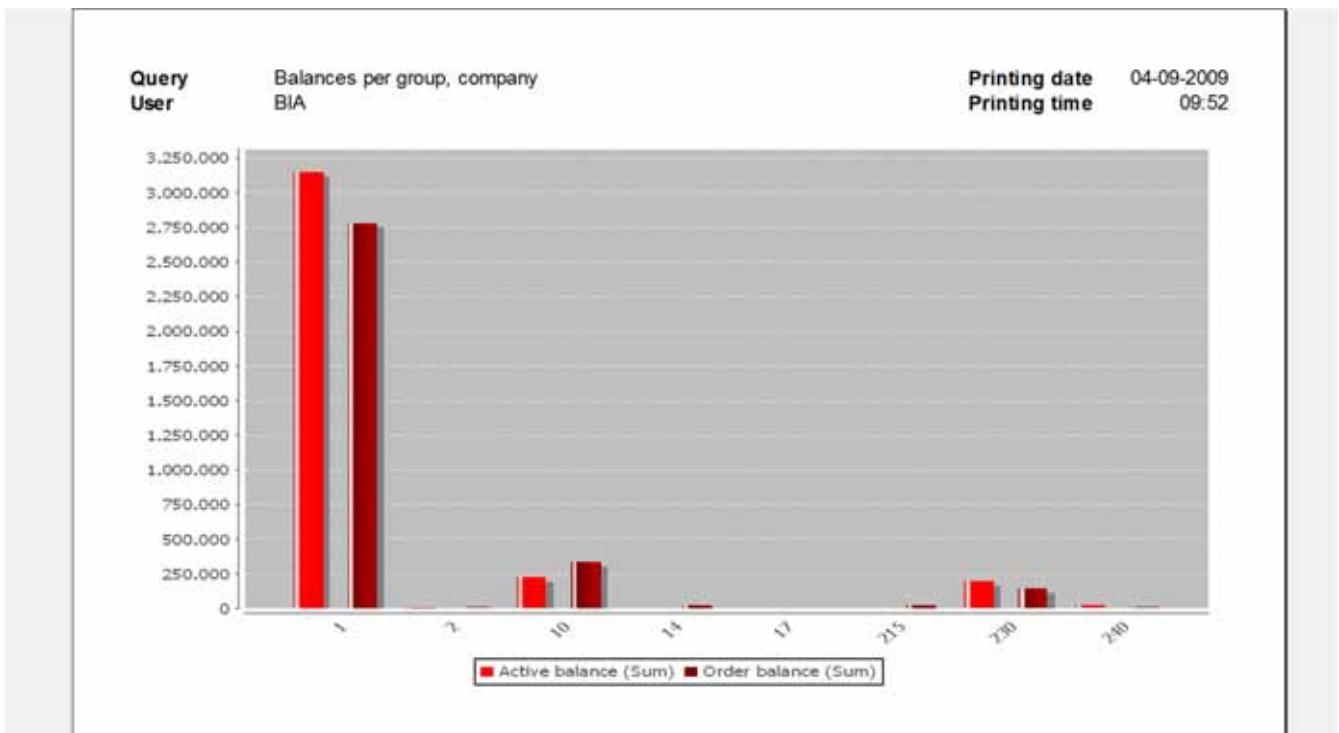


## Charts for DocManager Reports

Previously you were only able to display charts on the screen. Now you may include charts in DocManager reports where they will be printed on a separate page. You can print the charts only or combine the report with both charts and data.

Combined with generating PDF files in DocManager that can be sent by email, you may now also send charts from QueryManager by email, and therefore you do not need to request it to the screen. In correlation with the job scheduling system this means that for example on the first day of each month you would be able to automatically send a monthly report by email with the charts.

*Chart in a DocManager report*



## Calculation on Totals

If you want to make calculations for split rows, e.g. calculation of the contribution ratio, it has previously meant that you had to involve several queries – a query that calculated the totals and saved them in a file which another query could catch and make calculations for. If you also wanted to combine this total result with displaying the detail rows that make up the basis for the totals, you had an even larger task. This belongs to the past as we now introduce total calculations in QueryManager. Now you only need one query and you are even able to display and to make calculations on the totals in the same query.

Calculations on totals is a new type of calculation field that contrary to calculating on the total rows make calculations on the split rows with the possibility of basing your calculation on the values from the split row - whether the values are split fields or calculations.

The image below illustrates an example of calculating totals. The exceeding of the credit maximum is calculated as a percentage for all customers for each salesperson and country. This is done based on the sums of the credit maximum and the balance:

$$\frac{(\text{SUM}(\text{BALANCE}) - \text{SUM}(\text{CREDIT MAXIMUM})) * 100}{\text{SUM}(\text{BALANCE})}$$

## FTP Option for IFS output

When creating IFS files, as e.g. comma-separated files, you may now upload the generated file to a given FTP server and thereby automatically deliver generated files to FTP servers to external partners. This could e.g. be sending INTRASTAT information to SKAT based on a query.

	Break text	Country	Salesman	Name	Credit limit	Phone number	Balance	Limit exceeded	Limit exceeded in %
140				Åge Hausager	1000	918 35 083	3.900,00	2.900,00	
141	Salesman 201	28	201						76,46
142	Sum						33.998,69	25.998,69	
143	Country 28	28							76,46
144	Sum						33.998,69	25.998,69	
145		30	301	Lena Björklund	0	011-577 04	4.500,00	4.500,00	
146				Els Sundelin	1000	058-560 57	2.095,89	1.095,89	
147				Fredrik Thelin	0	023-287 72	884,71	884,71	
148				Elin Abrahamsson	0	013-526 32	1.533,87	1.533,87	
149				Lena Andersson	0	011-544 00	1.533,87	1.533,87	
150				Carl Adolfsson	0	031-493 87	709,15	709,15	
151				Shanti Ahlen	0	026-753 64	575,10	575,10	
152				Lena Ahlberg	1000	023-391 44	1.001,71	1,71	
153				Tove Almerström	0	030-708 37	75,00	75,00	
154				Ellen Almqvist Ericson	0	013-870 80	1.995,00	1.995,00	
155				Therese Andersson	0	011-872 32	390,00	390,00	
156				Jan-Erik Andersson	0	016-623 64	1.900,83	1.900,83	
157				Mats Andreasson	0	011-608 28	9.851,29	9.851,29	
158				Peter Arrhenius	0	011-609 92	118,61	118,61	
159	Salesman 301	30	301						92,63
160	Sum						27.165,03	25.165,03	
161	Country 30	30							92,63
162	Sum						27.165,03	25.165,03	

## Outgoing Documents

Via the new plug-in 'Outgoing Documents' the user has the option of working with the documents that are created through DocManager, e.g. account statements, order confirmations and invoices. You may also work with documents (reports) that come from QueryManager.

The plug-in provides the opportunity to search documents: prints, faxes, emails and archived documents. These different types of the same documents are called destinations. A document that is printed and also sent by email, therefore has two destinations.

When documents are searched, you may limit your search by destination. If you want to see the account statements sent to a particular email address, e.g. *accounting@eg.dk*, you simply select the form *KONTOUDTOG* and the document type *E-mail* and the destination *accounting@eg.dk*.

When a search has been carried out, the search result is displayed to the right.

From the search you can also print the document, send it by email or fax it again.

You can save any search as a filter.

Limited search

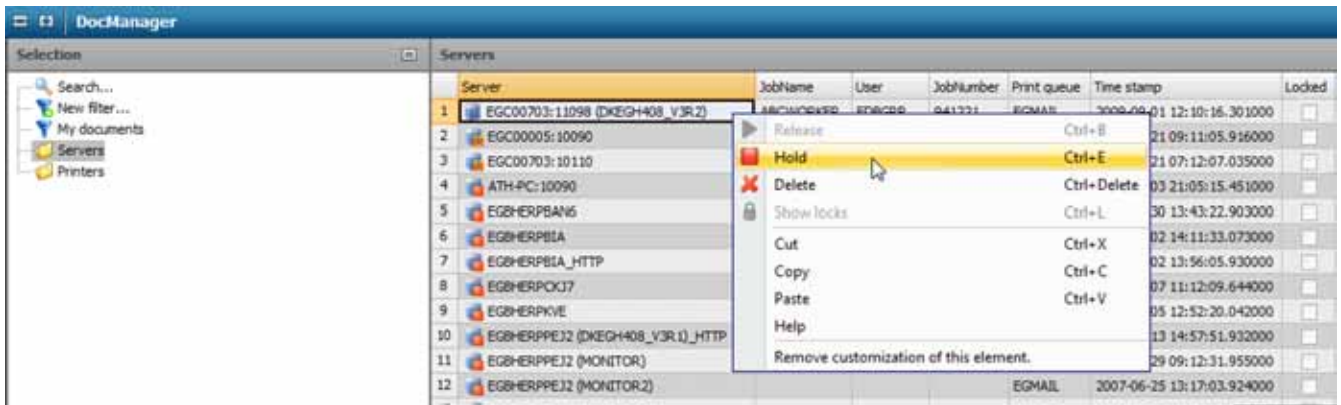
Type	Destination	Date	Hour	Status	Status Description	Form	User	Archive Id	Comments
E-mail	bogholder@eg.dk	28-01-09	12:04:07	OK		KONTOUDTOG	PEJ	000000002	
E-mail	bogholder@eg.dk	07-01-09	13:18:46	OK		KONTOUDTOG	PEJ	000000008	
E-mail	bogholder@eg.dk	07-01-09	11:38:19	OK		KONTOUDTOG	PEJ	000000002	

Bilagsdato	Valdato	Bilagsnr.	Tekst	Bet.bet.	Portalsdato	Betrag i DKK
09-01-2008	09-01-2008	50000001254		99	09-01-2008	1960,26
09-01-2008	09-01-2008	50000001254		99	09-01-2008	355,19

Display of search result

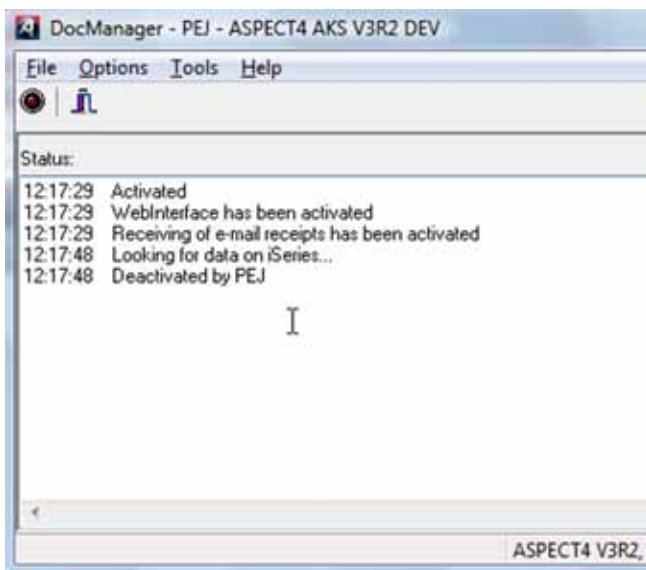




## DocManager Remote Control

The plug-in 'DocManager' now has the option to remotely control individual DocManager server functions.

When the folder 'Servers' is selected, an overview of active (and inactive) DocManager servers is displayed. By right-clicking an active server and from the popup menu selecting 'Hold', the DocManager server can be deactivated. On the DocManager console the following message is displayed:



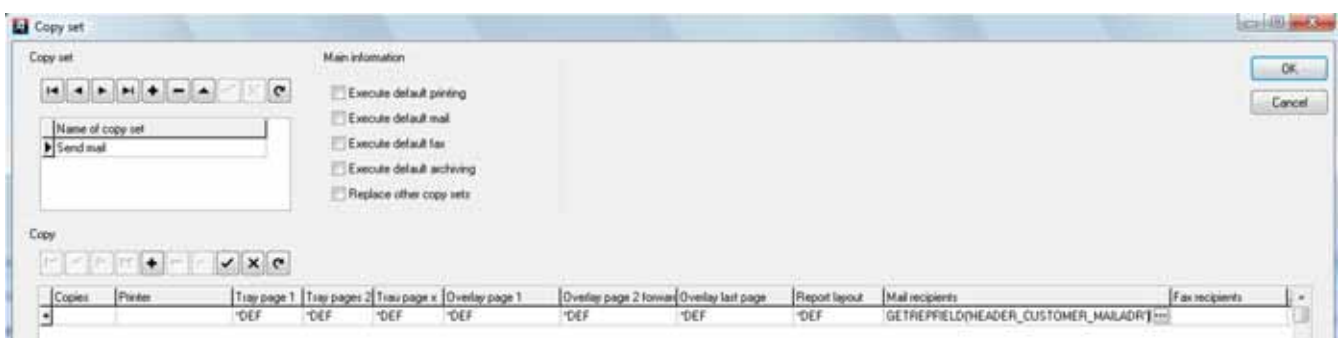
## Extended Copy Set Options

When emails and faxes are sent via DocManager's copy set, you may now specify the email address or the fax number via a calculation expression:

This could be used for sending the document as an email to a recipient whose email address exists as an information in a field in the report. If the field should be blank for a given printout, the copy set line is ignored and no email is sent.

## Minor Changes and Expansions

- A number of new functions to be used in formulas in DocDesigner: REPFIELDVALUEEXISTS, COUNTRYNUMBER, LANGUAGENUMBER, FORM, USERMAIL, USERFAX, USERPHONE, USERMOBILE. The three last functions require filling in three data for the user in application 0110.
- General Files section 0663 (Form name for DocManager) have been extended with a code where you can indicate that the document that contains sensitive information. Sensitive information is not collected in "Printouts with errors" and is not attached to emails (in case of an error).
- You may now control formatting in DocManager centrally based on the customer's/supplier's country code and language code.
- In the General Files section 0674 you may create region code per country code and language code.
- In the General Files sections 0675 you may, by region code, enter formatting codes for dates, time and numeric fields.
- In DocDesigner you may, in the individual field under "Adjustment and editing", enter if the formatting of the field should ignore region-dependent formatting. As default this field is not selected, and therefore all fields basically react to region-dependent formatting.





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