

# PRA<sup>®</sup> CAR 3000

Transport planning  
and  
control system



**WANKO**  
INFORMATIONSLOGISTIK

<b>List of contents</b>	<b>Page</b>
GENERAL DESCRIPTION OF IMPORTANT FUNCTIONALITIES	3
INTERFACES	5
Retrieval of master and movement data	5
Data feedback	5
ENTITLEMENTS	5
ORDER ENTRY AND HANDLING	6
Order entry	6
Order list	6
Summary of recorded orders	7
Carrying positions in order handling (supplementary module)	7
TOUR PLANNING	8
Tour planning	8
Graphic presentation of orders	9
Summary in table form	9
Totals window	10
Order selection	10
Komplettübersicht	11
PRA <sup>®</sup> MAP road network (external, incorporated licence)	11
PLANNING PROCEDURE	12
Free optimisation	13
Automatic revision of planned orders (Best tour) (supplementary module)	13
Cost calculation	14
COST COMPARISON (supplementary module)	14
Toll calculation	15
Tour list	16
Applications planning for driver and vehicle	16
AUTOMATIC FAX NOTIFICATION (supplementary module)	17
FREIGHT INVOICING – <b>TLT 3000</b> (supplementary module)	17
CUSTOMER-SPECIFIC TRANSPORT COST INVOICE <b>TLK 3000</b> (supplementary module)	20
PRINT-OUTS	21
FORWARDER PACKAGE <b>PRA<sup>®</sup>SPED 3000</b>	22
TRANSPORT EQUIPMENT ADMINISTRATION (supplementary module)	23
MODULES FOR COMMUNICATION TO WAREHOUSE AND PRODUCTION CONTROL AND MERCHANDISE ADMINISTRATION	24
FINISHED-OUTPUT CONTROL (supplementary module)	25
STRATEGIC / OPERATIVE PLANNING (supplementary module)	26
INTRANET RECORDING (RECORDING ORDERS AND PUTTING ON-LINE)	27
SET POINT / ACTUAL VALUE COMPARISON	28
Manual data acquisition	28
Automatic data acquisition (on-board computer)	28
CARD EDITOR	29
MANAGEMENT INFORMATION SYSTEM (MIS), ANALYSIS AND KEY DATA	30
SUPPLEMENTARY MODULES FOR EXTENDING <b>PRA<sup>®</sup>CAR 3000</b> .	31
OPTIONS IN CONJUNCTION WITH TELEMATIC SOLUTION	34

Version 2.1

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## Scope of the tour planning and control system with its modules *PRA<sup>®</sup>CAR 3000* or *PRA<sup>®</sup>SPED 3000*

### GENERAL DESCRIPTION OF IMPORTANT FUNCTIONALITIES

#### **General**

- ▲ The system can be administered centrally and made available for branches with a user concept
- ▲ Access can be given to a wide array of functionalities by means of an entitlement concept
- ▲ All of the process described in the following are user-friendly and based on practical work
- ▲ Additions, cuts and modifications for the can be made to the programme easily for each company

#### **Planning**

- ▲ Planning takes into account the customer's delivery deadlines, wishes and restrictions, and arranges handling for merchandise with the lowest transport costs
- ▲ Bottlenecks in the manufacturing process (production planning) can be taken into account before planning tours
- ▲ Orders can be optimally allocated to a tour via the functionality "best tour"
- ▲ Planning can be carried out via one or more transshipment depots
- ▲ Formation of several tour versions
- ▲ The tour routes are automatically optimised to cover a wide variety of road networks (e.g. at a house number level) with the lowest costs
- ▲ The personnel and vehicle capacity required for the most cost-efficient delivery and collection is determined by the system
- ▲ The deployment of drivers and vehicles is planned precisely in accordance with predetermined driving/working hours, avoiding recipients' off-hours
- ▲ Notification of planned arrival times can be sent automatically by fax, e-mail or using a call list
- ▲ Strategic operative planning of simulated order volumes taking into account delivery rhythm, delivery days and sales volumes

#### **Settlement/costs**

- ▲ On-line calculation of income/expenditure of a tour
- ▲ The costs of the tours can be determined immediately for the purpose of delegating them to the user's own fleet or a subcontractor in order to make the most cost-efficient delivery.
- ▲ Vehicles are administered, for third parties, too, invoiced and current account balances passed to customers
- ▲ flexible credits and invoices concerning subcontractors, invoice recipients, customers, distributing forwarder etc. are shown
- ▲ Invoicing of the proportional toll costs observing the toll charges set by the federal ministry of transport and the autobahn kilometres calculated in the tour planning process (only possible in connection with *PRA<sup>®</sup>MAP* road network)
- ▲ Transport costs are assigned directly to the customer and meaningful evaluations produced such as the average value against costs per ton for a customer or several customers in a specific period
- ▲ The activities and time required by a driver are checked using the specifications and form the basis for payment of a performance-related wage

### **Evaluations**

- ▲ The documentation required for delivery such as load lists, tour lists etc. are produced and, in doing so, modified to suit standard or user-specific reports
- ▲ Data required for decisions in planning and management are secured statistically and evaluated

### **Interface**

- ▲ To permit a wide scope of data exchange with upstream and downstream IT systems such as SAP, MBI, BAAN, Navision etc.

## **Project preparation**

### **Information discussion**

- ▲ Interested party's requirements
- ▲ Service provided by Wanko Informationslogistik GmbH

### **For standard tasks**

- ▲ Determining the scope of service required
- ▲ Data analysis. where desired
- ▲ Determining the interfaces
- ▲ Training and introduction of the standard software

### **Organisation analysis for complex requirements**

- ▲ Recording of the current status with analysis of critical points
- ▲ Proposal of the future procedure and the measures to be carried out, stating the outlay and costs
- ▲ Determination of cost-savings, where desired
- ▲ Determination of the required interface to the HOST and of the data transfer
- ▲ Recommendation of required IT structures
- ▲ Communication vehicle <> control centre – (possible with telematics solution)
- ▲ Determination of services
- ▲ Training and introduction of the new procedure and programmes
- ▲ Trainer training

## INTERFACES

### Retrieval of master and movement data

Retrieval of all the data in the HOST required for processing:

- ▲ Customer file once, changes and new customers continuously (automatic location of the customer)
- ▲ Order file with positions, continuously
- ▲ Item file, where required
- ▲ Complete tours

### Data feedback

After processing the data on the PC, feedback of all the data required or desired for further processing in the HOST, e.g.

- ▲ Delivery deadline
- ▲ Production deadline in manufacturing companies
- ▲ Tour number, delivery day, time and sequence
- ▲ Status report of effected provision, loading and delivery
- ▲ Delivery deadline confirmation
- ▲ and much more

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## ENTITLEMENTS

Specific programme sections and functionalities can be individually assigned to different users. The "rights" for this are coordinated with the range of programmes. The user can see from the menu bar which functions he has access to and which are barred.

## ORDER ENTRY AND HANDLING

### Order entry

The mask "order entry" can be created individually using

- ▲ a standard mask without pre-entered values or
- ▲ masks with fixed values already entered.

Order no. 589432  
Date of order 19.10.2004  
Delivery Date 01.12.2004  
Time to stay 2:00

Loading Point  
Cust. 200122  
Name 1 Wankol Ltd  
Road 3, Lulworth Grove  
Country GB Pos TS24 Loc Hartlepool

Vehicle assignment  
A01.0 A02.0 A03.0 A04.0 A05.0 A06.0 A07.0 A08.0 A09.0 A10.0 A11.0 A12.0 A13.0 A14.0 A15.0 A16.0 A17.0 A18.0 A19.0 A20.0 A21.0 A22.0

Standard mask for order entry

### Order list

The order list enables, for example,

- ▲ all quotes to be viewed that were made for a loading location in a certain period
- ▲ all orders not yet invoiced in a certain period to be listed for invoicing a particular customer
- ▲ plus much more

order list - 630 orders (1 marked)

Active filter: <all orders>

ord-no.	type	weight	entry bor.	loading no.	Un-no.	units	Volume	Deliv-date	Post-code	Destination	Stat	Delivery area	Ope
1R273765-001	0	0.000	249	074	015	5.00	0.000	27.09.2004	97941	TAUBERBISCHOFSEIM	H	02	wanko
2V397229R	3	0.000	231	1014438	062	1.00	0.000	27.09.2004	06231	RODDEN	H	02	wanko
3X058561	0	0.000	269	062	39016-96114	39.00	0.000	27.09.2004	96114	HIRSCHLACH	H	02	wanko
00341	0	0.000	245	062	1656058	2.00	0.000	27.09.2004	98553	SCHLEUSINGEN	H	02	wanko
2V414347R	3	0.000	231	49219	062	5.50	0.000	27.09.2004	06231	RODDEN	H	02	
A88033972	0	0.000	278	062	1010180	1.50	0.860	27.09.2004	98527	SUHL	H	02	
A88031678	0	0.000	209	062	39016-96114	3.00	1.700	27.09.2004	96114	HIRSCHLACH	H	02	
A88031561	0	0.000	237	062	1018480 049	2.00	0.860	27.09.2004	16303	SCHWEDT	H	01	wanko
000000004-001	0	0.000	0	60006	062	5.00	0.000	27.09.2004	06231	RODDEN	H	01	wanko
000000004	0	0.000	0	062	A50003	5.00	0.000	27.09.2004	83404	AINRING	H	01	wanko
A88034840	0	0.000	237	062	1018480 049	9.00	4.720	27.09.2004	16303	SCHWEDT	H	01	wanko
000000009	0	0.000	0	A50003	41318	60.00	0.000	27.09.2004	70435	Stuttgart / Neuwirtshaus	H	01	wanko
005006497-001	0	0.000	0	015	14.00	0.000	0.000	27.09.2004	97941	TAUBERBISCHOFSEIM	H	01	MESSE
005006497-002	0	0.000	0	015	074	14.00	0.000	27.09.2004	74385	PLEIDELSEIM	H	01	MESSE
005006497	0	0.000	0	074	60000	14.00	0.000	27.09.2004	71307	WABLINGEN	H	01	MESSE
VH000000013	0	0.000	0	074	062	20.00	30.000	27.09.2004	06231	RODDEN	H	01	MESSE
112211	0	0.000	0	074	0001200	0.00	0.000	27.09.2004	10709	RULIN / HOHENZOLLERN	H	01	Harti
112211-001	0	0.000	0	00003	074	0.00	0.000	27.09.2004	74385	PLEIDELSEIM	H	01	Harti
TEST	0	0.000	0	062	00130	3.00	4.000	27.09.2004	27751	DELMEHORS	H	01	Gruber
F177499	0	0.000	214	062	19605-24568	5.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
2C186476	0	0.000	211	062	19605-24568	8.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
F169621	0	0.000	241	062	19605-24568	6.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
F172476	0	0.000	214	062	19605-24568	3.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
2C186776	0	0.000	211	062	19605-24568	2.50	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
F175114	0	0.000	222	062	19605-24568	7.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer
F181043	0	0.000	261	062	33032	5.00	0.000	27.09.2004	23791	BAD SEGERBERG	H	01	Broetzer
F179319	0	0.000	261	062	33032	6.00	0.000	27.09.2004	23791	BAD SEGERBERG	H	01	Broetzer
E479543	0	0.000	222	062	19605-24568	30.00	0.000	27.09.2004	24568	KALTENKIRCHEN	H	01	Broetzer

Complete summary of recorded orders for order handling

## Summary of recorded orders

Recorded orders can be viewed in accordance with a variety of criteria, e.g.

- ▲ delivery date
- ▲ manufacturing date
- ▲ status
- ▲ and many more

Filter for the recorded orders in accordance with set criteria

## Carrying the positions in order handling (supplementary module)

Handling orders and carrying the individual positions is possible, e.g.

- ▲ resetting orders and individual positions
- ▲ division of orders and positions

Order handling and carrying the positions

- ▲ setting up deliveries, collections, returns
- ▲ calculating quotes (using the filed terms and conditions)
- ▲ and setting a price for an order (only possible with the supplementary module Immediate Order Settlement)

Quote/order calculation

## TOUR PLANNING

### Tour planning

The largely user-defined configuration of the screen masks, window sizes and positions enables all the data relevant for operation planning to be presented clearly, such as:

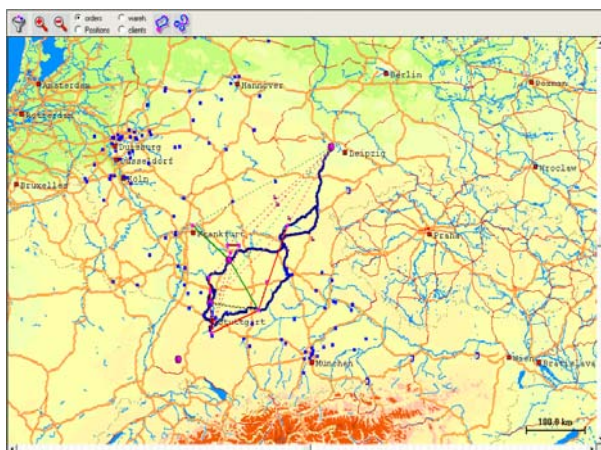
- ▲ graphic presentation of the orders,
- ▲ tour window,
- ▲ order table,
- ▲ totals window

Full overview of tour planning using **PRA<sup>®</sup>MAP** basic European road network

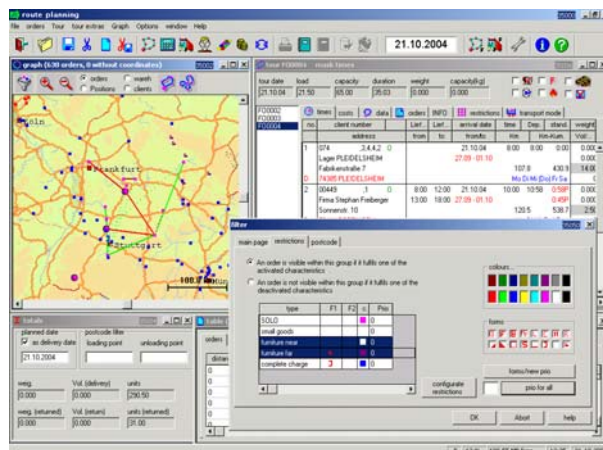


## Graphic presentation of orders

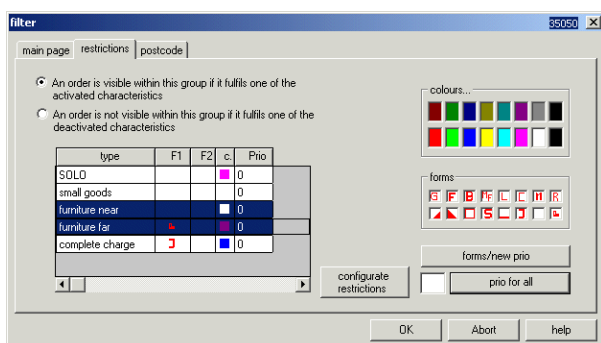
Display of loading and unloading locations, depots, distribution centres, service providers, vehicle location, tour route etc. always for the current situation.



Display of orders on the road map



Display of orders in the graphic window



Description of filter symbols

## Summary in table form

List of the orders selected in the graphic display (customers and suppliers) with information about

- ▲ delivery and collection volumes, individual and combined
- ▲ arrival and departure times
- ▲ restrictions
- ▲ and much more

The view

- ▲ is freely configurable
- ▲ can have up to 6 list structures per table
- ▲ can be sorted by mouse-click
- ▲ has grouping functions

table (75 orders)

number	name	weight	Vol.	unit	Bel.N...	unloa...	Bel.PLZ	item name	unloa...	unload name
1	Gabrielle Mayr	0.000	0.000	5.00						
1	Helmut Müller	0.000	0.000	3.00						
8	Jack Mayer	0.000	0.000	30.00						
1	Jack Walther	0.000	0.000	6.00						
F172857	61050	27.09.04	0.000	6.00	RODDEN KREFELD	06231	03994683	47804	Jack Walther	
2	Martha Maier	0.000	0.000	12.00						
F180249	61050	27.09.04	0.000	6.00	RODDEN WSCHEID	06231	6035	42855	Martha Maier	
F182999	61050	27.09.04	0.000	6.00	RODDEN WSCHEID	06231	38911	42855	Martha Maier	
1	Martha Telman	0.000	0.000	0.50						
F180002	61050	27.09.04	0.000	0.50	RODDEN ATINGEN	06231	211878	40878	Martha Telman	
1	Martin Maier	0.000	0.000	6.00						

Tour planning – Orders displayed in the table

## Totals window

Display of the totals for delivery or collection orders in the order table.

The 'totals' window displays the following data:

planned date	postcode filter	
<input checked="" type="checkbox"/> as delivery date	loading point	unloading point
21.10.2004		

weig.	Vol. (delivery)	units
2.500	2.560	587.50

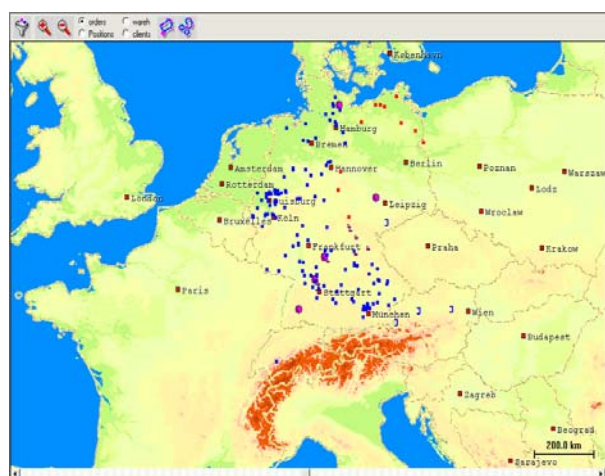
weig. (returned)	Vol. (return)	units (returned)
1.100	0.000	283.00

Display in the totals window

## Order selection

Selection of the required orders from the order file according to

- ▲ Order type
- ▲ Areas, numerical / graphical
- ▲ Dates/times/deadlines
- ▲ Order size
- ▲ Delivery type
- ▲ Dispatch type
- ▲ Restrictions
- ▲ Delivery deadline confirmation
- ▲ Production date/time
- ▲ Completion number
- ▲ Postal loading and unloading points
- ▲ Countries
- ▲ Freely definable zones
- ▲ Order date
- ▲ and many more



Filter of orders by area / graphical

The 'Filter' window (main page: weight/vol...) includes the following options:

- ☐ determine cumulated values after using all filters
- ☒ determine cumulated values of all orders

weight/volume/units:

0.000	<input checked="" type="checkbox"/> from weight	000 90	<input type="checkbox"/> view weight by client
0.000	<input checked="" type="checkbox"/> to weight	000 90	
0.000	<input checked="" type="checkbox"/> from volumes	000 90	<input type="checkbox"/> view vol. by client
0.000	<input checked="" type="checkbox"/> to volume	000 90	
0.00	<input checked="" type="checkbox"/> from units	000 0	<input type="checkbox"/> view units by client
0.00	<input checked="" type="checkbox"/> to units	000 0	

Buttons: OK, Abort, help

Filter of orders by weight/volume/units

The 'filter' window (main page: delivery dates) includes the following options:

An order is visible within this group if it can be delivered in the period between <from> and <to> or if it is <urgent>. Only the selected characteristics are viewed.

<Urgent> stands for the [latest date of delivery] which comes before the indicated point of time

delivery dates:

11.05.01	<input type="checkbox"/> from	000 99
27.03.03	<input type="checkbox"/> to	000 99
11.05.01	<input type="checkbox"/> urgent	000 0

☒ arrival at client during company holidays

☒ arrival at client outside company holidays

Buttons: OK, Abort, help

Filter of orders by delivery dates/times

## Complete overview

To achieve a better overview when distributing the tours amongst the vehicles, a complete overview of all the tours of a certain period can be displayed on the screen. Tour data can be altered manually (e.g. removal from or addition to a tour using Drag & Drop). The alterations are calculated immediately and displayed.

Depending on whether the vehicles are the user's own or foreign and the defined period of time, the following points are displayed in the overview:

- ▲ vehicle list
- ▲ list of the tour positions per vehicle
- ▲ Total line boxes of the selected vehicle (total time, tour distance in km, costs, total loading, total capacity, capacity utilisation)

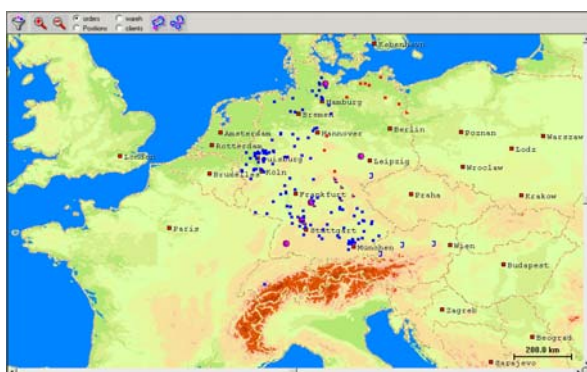
Tourdatum: 07.10.02		Anzahl Tage: 1		Eigene Fahrzeuge	
F...	Kennzeich...	TouN...	TouDat...	TouN...	TouDat...
Nutz...	V...	KdName_1	KdName_2	KdName_3	KdName_4
Faz-GSM	Einhei...	PLZ_1	PLZ_2	PLZ_3	PLZ_4
Fahrer	Beifahrer	Ort_1	Ort_2	Ort_3	Ort_4
		Ankunfzeit...	Kum_W...	Ankunfzeit...	Kum_W...
006	0 10 0				
0171/3195406	0				
011	CODE-EC-591				
2780	25 0				
0171/3195411	0				
012	CODE-MK-60				
2780	25 0				
0171/3195412	0				
013	CODE-LZ-407				
2780	25 0				
Gesamtzeit 13:47		Kosten 704,27		Gesamtladung 24,032	
Tour-Km 161		Auslastung 96		Gesamtkapazität 25	

Full overview

## PRA<sup>®</sup>MAP road network (external, incorporated licence)

Different road networks can be incorporated into our tour planning system such as:

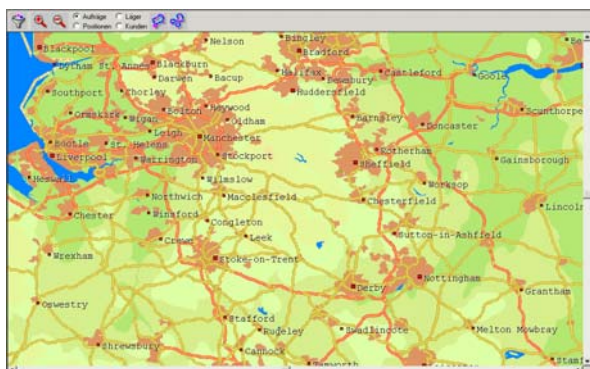
- ▲ Module **PRA<sup>®</sup>MAP** Europe Basis II (external, incorporated licence), contains Europe's main roads including an index of place names in central Europe



PRA<sup>®</sup>MAP Europe Basis road network (external, incorporated licence)

including Germany, Austria, Switzerland, Italy, France, Benelux, Liechtenstein, Czech Republic, Poland etc. (41 countries in total), 200,000 locations with postcode (where available). ROUTE specification, location points, street names, road categories, road types, edges with start and finish nodes, edge lengths, one-way streets, ahead-only roads.

- ▲ **PRA<sup>®</sup>MAP** German road network module at house-number level (external, incorporated licence), contains all passable roads in Germany



**PRA<sup>®</sup>MAP** German road network at house-number level (external, incorporated licence)

Street names and categories, symbol style, road type (driving speed), road junctions and length, one-way streets and turning restrictions, street directory Type A, places, topographic layer: inhabited areas (where they exist). Possible down to house-number level (where required).

## PLANNING PROCEDURE

Tour planning with optimisation can be carried out with the following preset data:

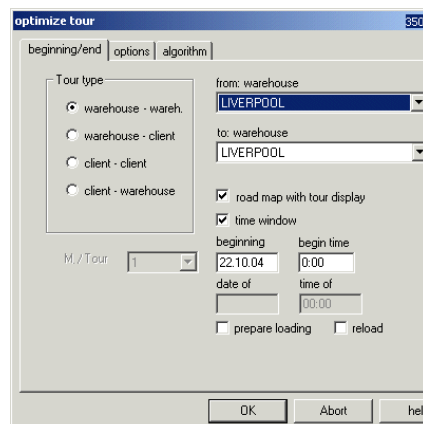
- ▲ Closed or open tour
- ▲ The first and/or last destinations in the tour sequence can be preset.
- ▲ Consideration of restrictions (special vehicle types)
- ▲ Special times
- ▲ Customer's opening times
- ▲ Automatic allocation of driver's breaks
- ▲ Vehicle's loading

This can be done as follows:

- ▲ Manual tour planning
- ▲ Automatic assignment of selected orders to a tour
- ▲ Automatic assignment of selected orders to several tours (free optimisation)

A variety of optimisation processes are available for dealing with different problems. These are calculated simultaneously in the background. The optimum result is applied. The alternatives can be provided as variants.

The optimisation process itself is performed using a dense road network with road grades (km/h), tailored to suit the customer's structure, and real distances for every section of the route with the costs of the driver and vehicle. This is the only method of optimising the route. Real cost optimisation is not possible using a table of distances instead of a road network.

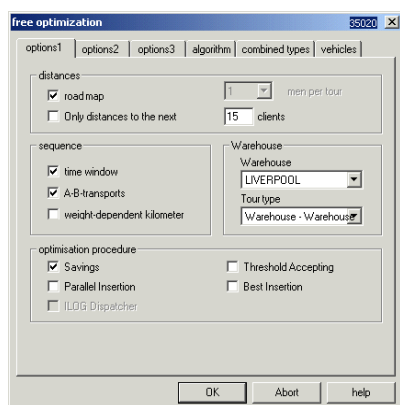


Manual tour-planning optimisation

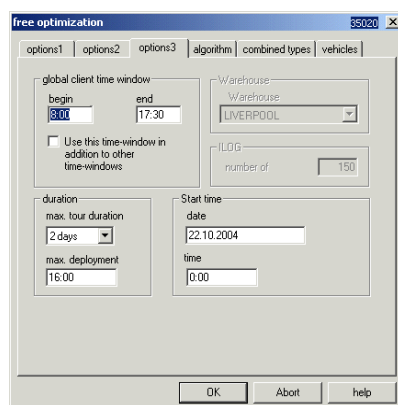


## Free optimisation

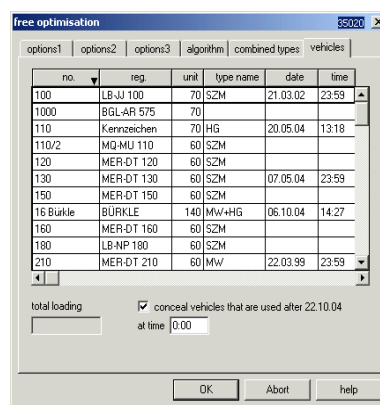
- ▲ Vehicle approach options
- ▲ Definition of any origins and delivery destinations
- ▲ Maximum deployment times
- ▲ Vehicles e.g. only solo vehicles
- ▲ Alteration option – filing different variations of a tour
- ▲ Option of immediate alteration of any automatically planned tour plus filing of every variation for comparison.
- ▲ Constant reaction to demands from routine work during planning such as incorporating latecomers, restrictions, answering queries etc. by means of
- ▲ Graphic overview for manual planning (drag&drop)
- ▲ Supplementary module "Best tour"
- ▲ Constant option of calling up information with a rapid overview of the main key data such as order situation, restrictions etc. with regard to master data, order composition, order alterations etc.
- ▲ Print-out of tour lists and loading lists, deployment plans etc. as required



Free optimisation by distances



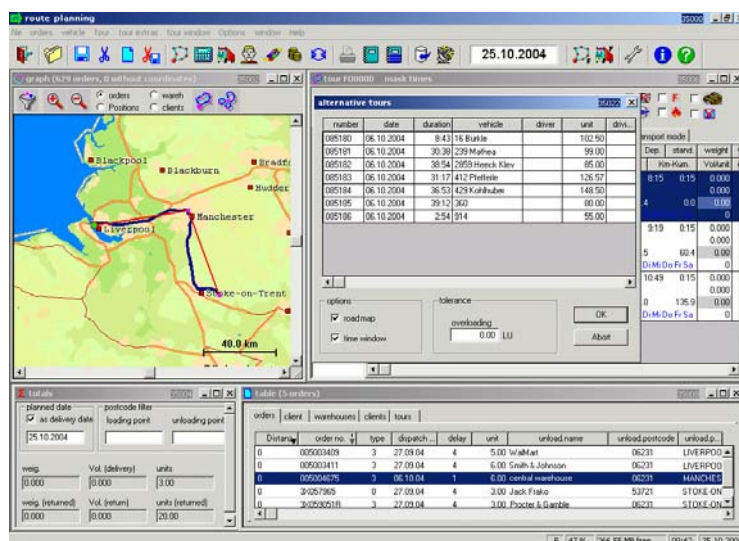
Free optimisation by time window/duration



Free optimisation vehicle selection

## AUTOMATIC REVISION OF PLANNED ORDERS (BEST TOUR) (Supplementary module)

Using the "Best tour" function, orders at short-notice can be added after a tour has already been planned. Low-cost tour suggestions are made after the order has been selected. The order can ultimately be assigned to a suggested tour.



Automatic planning revision (Best tour)

## Cost calculation

Immediate calculation of the cost of every tour and determination of the proportional cost per customer

- ▲ Own costs
- ▲ Cost of outside services
- ▲ Forwarder costs
- ▲ Comparison

The 'costs' window displays a 'detailed view of own costs' with the following data:

Item	Value	Unit	Rate	Cost
vehicle costs per kilometer	661	km	0.276 EUR/km	182.44 EUR
vehicle costs per minute	10.48	h	0.174 EUR/min	112.75 EUR
driver costs per minute	10.48	h	0.307 EUR/min	198.94 EUR
LSVA 1.68 CHF/100/km/t	0	km	18.00 t	0.00 EUR
motorway toll charge (Germany) 0.11 Euro/km	464.90	km	0.11 EUR	51.14 EUR
motorway toll charge (Austria)	185.39	km		33.90 EUR
<b>Total</b>				<b>579.16 EUR</b>

Cost calculation - customer's costs

The 'Kosten' window provides an overview of costs with the following data:

Nr.	Name	Zeit	Fahr...
4	Richard Frako	m 0.56	7.30
5	Andrea Oberegger	m 0.16	2.25
6	Firma Monika Wildb	m 0.49	9.79
7	Eva Wildberger	m 0.55	10.38
8	Eva Mustermüller	m 1.10	12.75
9	Helmut Mustenberg	m 0.38	7.93
10	Firma Heinrich Tel	m 2.36	29.56
11	Firma Heinrich Unt	m 0.55	6.73
12	Heinz Müller	m 0.49	7.68
13	Stephan Mustermann	m 4.28	47.90
14	Madern F.	m 0.56	9.03

Summary data at the bottom:

Fahrer	Fahrzeug	Gesamt	Weg	Zeit
Sel. Positionen: 7.37 EUR	7.69 EUR	15.07 EUR	21 km	10.49

Cost calculation / overview of costs

## COST COMPARISON (SUPPLEMENTARY MODULE)

Own or outside costs can be ascertained easily using the tour-planning system. This permits a quick decision to be made on assigning the tour to the own or outside fleet. (only possible in conjunction with freight invoicing module **TLT 3000**)

TourNo.	TourDate	A-Vehic...	A-costs	B-Vehicle	B-costs	difference
085193	25.10.2004	259	228.07	465 Trans B'w	0.00	-228.07
085193	25.10.2004	259	228.07	455 Bente	60.00	-168.07
085193	25.10.2004	259	228.07	451 Höpfner	60.00	-168.07
085193	25.10.2004	259	228.07	449 Siegmann	0.00	-228.07
085193	25.10.2004	259	228.07	443 Rogotz	60.00	-168.07
085193	25.10.2004	259	228.07	439 Schall	60.00	-168.07
085193	25.10.2004	259	228.07	430 Kupitz	75.00	-153.07

Buttons at the bottom: self costs : details..., forwarding costs : details..., Close

Cost comparison

## Toll calculation

In the quote calculation, tour planning and freight invoicing, the proportional toll costs can be calculated quickly and invoiced to the customer (prerequisite is the **TLT 3000** freight invoicing module). Toll charges can only be calculated in conjunction with our module **PRA<sup>®</sup>MAP** road network.

The screenshot displays the 'route planning' software interface. On the left, a map shows a route connecting Frankfurt, Stuttgart, and München. The main window is divided into several panes:

- tour F00000 mask times:** Shows tour details for date 25.10.04, load 60.00, capacity 120.00, duration 56:53, weight 0.000, and capacity(kg) 0.000.
- times costs data orders INFO restrictions transport mode:** A table listing tour stops with columns for no., client number, address, Lief... from, Lief... to, arrival date, time, Dep., stand., and weight.
- costs:** A pane showing a 'balance sheet' of costs.

**Balance Sheet Data:**

Item	Value	Unit	Rate	Total
vehicle costs per kilometer	1669 km	·	0.276 EUR/km	= 460.64 EUR
vehicle costs per minute	56:53 h	·	0.169 EUR/min	= 576.80 EUR
driver costs per minute	56:53 h	·	0.307 EUR/min	= 1047.79 EUR
LSVA 1.68 CHF/100/km/t	106 km	·	17.00 t	= 30.27 EUR
motorway toll charge (Germany) 0.11 Euro/km	1073.70 km	·	0.11 EUR	= 118.11 EUR
motorway toll charge (Austria)	146.15 km			= 26.20 EUR
<b>Total</b>				<b>2259.80 EUR</b>

Toll calculation

The following items can be displayed individually:

- ▲ Distance-related toll charges when planning a tour.
- ▲ Toll cost per order
- ▲ Toll cost per customer, loading/unloading point
- ▲ Extra costs for the tour (total costs)
- ▲ Toll cost per customer, loading/unloading point

Additional functions such as these are available in conjunction with the telematic option:

- ▲ Variance comparison of the driven tour
- ▲ Exact settlement for autobahn kilometres actually driven.
- ▲ Checking paid toll charges

## Tour list

- ▲ The tour summary provides information about
- ▲ Tour costs
- ▲ Fixed costs
- ▲ Vehicle
- ▲ Trailer
- ▲ Start/finish
- ▲ Distance travelled (km)
- ▲ Capacity utilisation
- ▲ Remarks about the tour
- ▲ Plus many more

number	beginning date	begin	veh-reg	clients	kilometers	duration	unit	capacity	veh-reg	Maut Km (Euro)	Maut Km (Euro)
095153	25.10.2004	08:00	HQ-L2-250	4	307	4:58	0.00	60.00	HQ-L2-250	0.00	0.00
095059	10.11.2004	08:00	BUPALE	4	0	0:00	25.00	140.00	BUPALE	377.00	0.00
095156	06.10.2004	08:11	HERM 914	1	4	2:54	55.00	120.00	HERM 914	0.00	0.00
FO0000	25.10.2004	08:00	HQ-L2-300	6	1669	56:53	60.00	120.00	HQ-L2-300	1073.70	118.11
095162	06.10.2004	03:59	HEECK KLEVE	13	938	38:54	85.00	140.00	HEECK KLEVE	363.70	43.31
095165	06.10.2004	09:42	HQ-L2-360	4	0	0:00	80.00	120.00	HQ-L2-360	878.30	0.00
095160	06.10.2004	08:44	BUPALE	4	211	8:43	104.50	140.00	BUPALE	7.20	8.79
095161	06.10.2004	06:33	MATHEA	17	488	30:38	99.00	120.00	MATHEA	51.50	9.67
095163	06.10.2004	06:33	PEFFERLE	14	531	31:17	126.57	140.00	PEFFERLE	204.40	22.48
095164	06.10.2004	05:21	KOHLHUBER	18	629	36:53	148.50	150.00	KOHLHUBER	341.20	37.53
095162	22.10.2004	04:12	HERDT 170	2	881	10:40	80.00	90.00	HERDT 170	464.30	51.14
<b>Summe 11</b>				<b>67</b>	<b>5418</b>	<b>221:58</b>	<b>638.57</b>	<b>1320.00</b>		<b>3791.90</b>	<b>444.07</b>

Selected tours: 4:58 | 307 | 228.07 | 20.00 | 200.00 | 10 | Fresh

Tour list

## Applications planning for driver and vehicle

- ▲ Graphical and alphanumeric applications plan
- ▲ Tour start and finish stating the place
- ▲ Display of the date and time of return of every driver and vehicle
- ▲ Display of non-availability due to illness, holiday, service and repairs
- ▲ Suggestion and entry of breaks
- ▲ Entry of special times

date	time	location	vehicle	status
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:11	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active

Vehicles view

date	time	location	vehicle	status
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:11	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active
25.10.2004	08:00	HERM 914	HQ-L2-250	active

A condensed vehicles view

date	driver	holiday
25.10.2004	Brau Heinz	active
25.10.2004	Bäcker Peter	active
25.10.2004	Capia Gustav de	active
25.10.2004	Dübe Volker	active
25.10.2004	Engelmann Mike	active
25.10.2004	Engelmann Steffen	active
25.10.2004	Fink Jörg	active
25.10.2004	Fröhlich Thomas	active
25.10.2004	Grunewald Hans-Joach	active
25.10.2004	Summervill Jan	active
25.10.2004	Öhler Matthias	active
25.10.2004	Hoffmann Dirk	active
25.10.2004	Hüper Frank	active
25.10.2004	Hust Lohar	active
25.10.2004	Hanel Dietmar	active
25.10.2004	Sammler Alois	active
25.10.2004	Seppel Michael	active
25.10.2004	Gless Amr	active
25.10.2004	Knoche Uwe Jens	active

Holiday planning



## AUTOMATIC FAX NOTIFICATION (SUPPLEMENTARY MODULE)

Once planning has been completed, one or more tours can be selected for which notification can be sent automatically by fax, e-mail or call list.

Notification options

Notification document settings

von	bis	Ausgabe
07:00	10:00	früher Vormittag
07:00	12:00	später Vormittag
12:01	14:00	früher Nachmittag
14:01	17:30	später Nachmittag

Notification formats

## FREIGHT INVOICING – TLT 3000 (SUPPLEMENTARY MODULE)

Our freight invoicing module offers you the means of:

- ▲ on-line calculation for a tour during planning
- ▲ calculating and printing out toll charges (only possible in conjunction with **PRA<sup>®</sup>MAP** road network) for
  - ▲ the whole order
  - ▲ each order proportionally
- ▲ producing invoices for
  - ▲ tours
  - ▲ orders
  - ▲ entry bordereau
  - ▲ other

lfd.	description	amount	discount...	surcharge	VAT (%)	net amo...	t...
1	basic wage rate (171.30km, 0.00cbm)	23.42	0.00 %	0.00	16.00 %	23.42	Auftr

Invoice

- ▲ Distribution of the incurred costs for each order, special expenses can be taken into account
- ▲ production of credits for tours and others
- ▲ comparison of income / expenditure of one or more tours

Vergleich der Einnahmen und Ausgaben mehrerer Touren

TourNr	TourDat...	Anz. Ku...	Km	Ausgaben	Einnahmen	Gewinn	Spanne	Verlust	Gewinnspan...	Verlustspanne
029693	12.06.2002	3	20	258.45	362.60	104.15			28.7 %	
029716	12.06.2002	7	185	484.05	661.20	177.15			26.8 %	
029724	12.06.2002	2	44	402.50	587.44	184.94			31.5 %	
Markierung 3 Touren				1145.00	1611.24	466.24			28.9 %	
Gesamt 3 Touren				1145.00	1611.24	466.24			28.9 %	

Schließen

Comparison of income and expenditure

- ▲ comparison of different contracts
- ▲ settlement of loading aids (means of transport)
- ▲ settlement of warehouse charges
- ▲ cost summary for one or more tours

comparison of income and expenditure of several tours 30070

TourNo.	TourDate	no. of clients	Km	income	expenditure	profit	loss	range	profit margin	loss mar
085180	06.10.2004	4	211	1368.48 EUR	713.86 EUR	654.62 EUR			47.8 %	
085181	06.10.2004	17	468	1942.01 EUR	880.62 EUR	1061.39 EUR			54.7 %	
085182	06.10.2004	13	938	1317.46 EUR	1656.36 EUR		338.90 EUR			20
085183	06.10.2004	14	531	2421.79 EUR	919.15 EUR	1502.64 EUR			62.0 %	
085184	06.10.2004	18	629	2258.91 EUR	1666.29 EUR	592.62 EUR			26.2 %	
marking 0 tours				0.00 EUR	0.00 EUR					
total 5 tours				9308.65 EUR	5836.28 EUR	3472.37 EUR			37.3 %	

close

Cost summary

- ▲ Document selection by
  - ▲ document no.
  - ▲ document date
  - ▲ document recipient
- ▲ 10-day invoicing
- ▲ Production of collective-entry documents
- ▲ Display of up to 10 invoicing and credit items to a wide variety of document recipients

comparison of income and expenditure of several tours 30070

TourNo.	TourDate	no. of clients	Km	income	expenditure	profit	loss	range	profit margin	loss mar
085180	06.10.2004	4	211	1368.48 EUR	713.86 EUR	654.62 EUR			47.8 %	
085181	06.10.2004	17	468	1942.01 EUR	880.62 EUR	1061.39 EUR			54.7 %	
085182	06.10.2004	13	938	1317.46 EUR	1656.36 EUR		338.90 EUR			20
085183	06.10.2004	14	531	2421.79 EUR	919.15 EUR	1502.64 EUR			62.0 %	
085184	06.10.2004	18	629	2258.91 EUR	1666.29 EUR	592.62 EUR			26.2 %	
marking 0 tours				0.00 EUR	0.00 EUR					
total 5 tours				9308.65 EUR	5836.28 EUR	3472.37 EUR			37.3 %	

close

Invoicing items configuration

- ▲ Access to standard tariffs GFT, GU, BSL etc.

properties: variable table 30014

General

name: Normal table account: <none>

referer: VAT-Code: Description: cost centre:

☒ summary ☐ Supress negative results ☐ conversion factor (Matrix): 0.70000

costs/benefits: VAT: 16.00 discount: 0.00 surcharge: 0.00

discount rate: <Standard>

rows: Kilometer: BeS->EntS ☐ from ☒ to

rounding: 0 ☐ comm. rounding ☒ up ☐ down Maximum

column: Volume ☐ from ☒ to

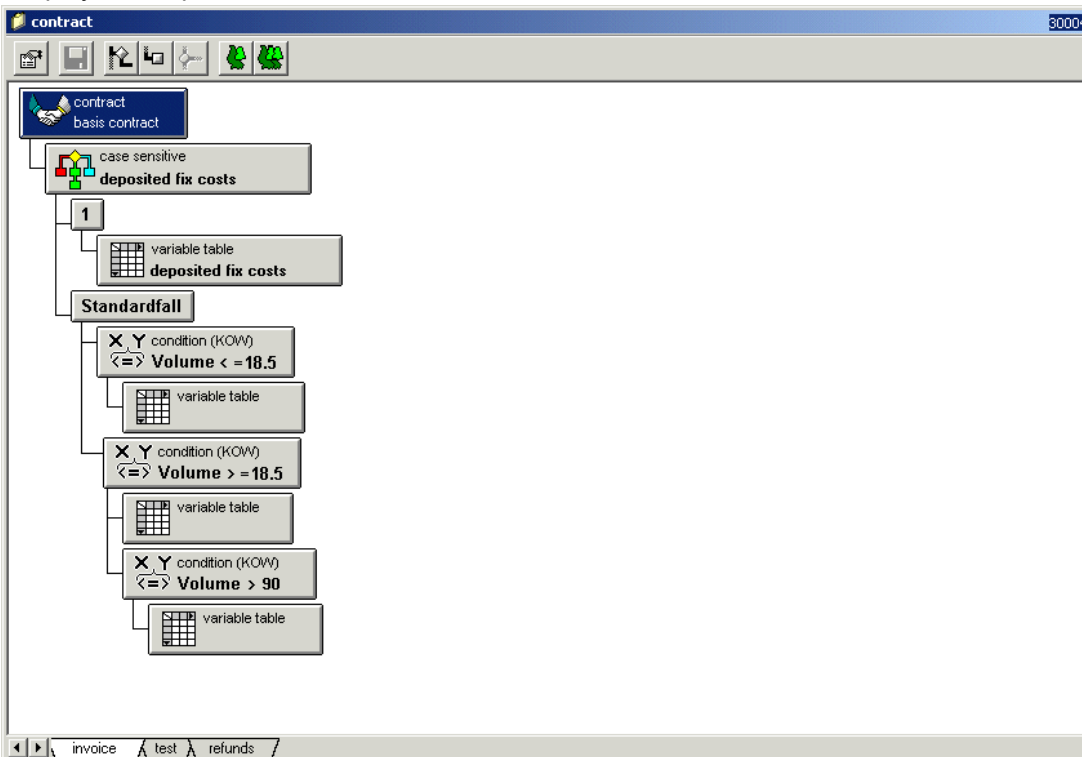
rounding: 0 ☐ comm. rounding ☒ up ☐ down Maximum

Matrix: <none> ☐ comm. rounding ☒ up ☐ down Maximum

	0.3	0.4	0.5	0.6	
50	23.42200	23.42200	23.42200	24.94100	24.
75	23.42200	23.42200	23.42200	24.94100	25.
100	23.42200	23.42200	23.42200	24.94100	26.
125	23.42200	23.42200	23.42200	25.57800	28.
150	23.42200	23.42200	23.42200	26.70500	29.
175	23.42200	23.42200	23.42200	27.48900	30.
200	23.42200	23.42200	24.20600	28.42000	31.
225	23.42200	23.42200	24.79400	29.05700	32.
250	23.42200	23.42200	25.43100	29.89000	33.
275	23.42200	23.42200	26.01900	30.52700	34.
300	23.42200	23.42200	26.60700	31.26200	34.
325	23.42200	23.42200	27.14600	31.94800	35.
350	23.42200	23.42200	27.53800	32.58500	36.
375	24.01000	24.20600	28.17500	33.22200	37.
400	24.35300	24.64700	28.56700	33.81000	37.
425	24.99000	25.38200	29.49800	34.20200	38.
450	25.28400	25.62700	29.79200	34.59400	38.
475	25.38200	25.87200	30.08600	34.93700	39.
500	25.57800	26.06800	30.28200	35.23100	39.
550	26.06800	26.75400	31.21300	36.30900	40.
600	26.60700	27.44000	32.04600	37.33800	42.
Minimum	0.00000	0.00000	0.00000	0.00000	0.000
Maximum	0.00000	0.00000	0.00000	0.00000	0.000

Standard rates and charges

- ▲ Display of complex forms of contract



Contract

## CUSTOMER-SPECIFIC TRANSPORT COST INVOICE TLK 3000 (SUPPLEMENTARY MODULE)

The customer-specific transport cost invoice is a selectable cost analysis that shows the profitability of each customer or tour on the basis of the tour costs from the tour planning process and the entered revenues.

Customer-specific transport costs are presented on a pro rata basis. Selection criteria include

- ▲ tour duration from/to
- ▲ consignee customer, country and
- ▲ postcode from/to

### Cost analysis

- ▲ Cost accounting per customer (including destination [customer] from – to, details for each delivery and driving, stationary, and total hours, volumes etc. stating deviation of monthly values from average)
- ▲ Cost accounting per tour, stating
  - ▲ mode of transport, kilometres etc.
  - ▲ percentage and absolute deviation from average

Filter for costs to destination

- ▲ Comparison of the determined costs per customer, comparison of the entered and recorded revenues or margins of individual deliveries.

Kunden Kostenliste													
1 von 2+ 65% Summe: 79 100% 79 von 79													
Kundenkosten Auswertung													
				Tournr. von:	Datum von:	01.01.2002	Karte von:	22.08.02					
				Tournr. bis:	Datum bis:	30.06.2002	Karte bis:	10.00.21					
Kundennr.	PLZ	Name	Ort	Gesamt-kosten in €	Gewicht in t	Ant. Uzf.	Buro/Tonne €/t	Abweichung in %	Total	km	km/Tonne	Zeit	Min in Tonne
5940930.366	8918	Brallinger	MERKLINGEN	196,73	34,0	1	5,76	42,0	2	111,2	3,3	2:43	4,8
5830470	7436	INDUSTRIEBAU BÖNNI	BÖNNINGHEM	209,96	36,6	1	5,74	41,0	2	73,4	2,0	2:31	4,1
583070.049	6376	FA. HOCK, ABPRESSTE	GRÖßSTRICH	70,48	12,4	1	5,70	40,0	2	21,3	1,7	0:54	4,4
5007140.242	7654	Rauch Franz	SINZHEIM	104,67	18,4	1	5,68	40,0	2	21,3	1,2	3:51	12,6
5830470.251	7436	Industriebau Bönningheim	BÖNNINGHEM	20,07	3,6	1	5,64	39,0	2	3,6	1,0	0:17	4,8
5808160.322	7079	HANS-MACKOMBER	FILDERSTADT-BI	175,91	31,4	1	5,60	38,0	2	68,6	2,2	2:01	3,9
5245320.475	6429	DONOS	DARMSTADT	166,76	28,1	1	5,66	36,0	1	60,1	2,1	1:48	3,8
5921430	6864	STAHLBAU RIED OMB	BURSTADT-BÖB	449,44	85,3	2	5,27	30,0	1	171,0	2,0	5:59	4,2
5884210	6377	GEHLERT OMBH	MÖNDRIS	366,66	69,2	1	5,09	26,0	1	148,8	2,1	3:56	3,4
5604980.668	6666	Hans Zewe GmbH	ILLINGEN-UCHT	536,66	106,7	1	5,08	26,0	1	229,4	2,3	5:47	3,3
5079430.943	8826	THOMMEL GMBH & CO	NIEDERBIEGEN	842,78	196,0	1	5,08	26,0	1	360,7	2,2	9:52	3,6
5743230.251	6879	Robert Kump	REILINGEN	172,28	35,4	1	4,87	20,0	1	86,4	2,4	2:16	3,8
5843160.084	6722	REBER STAHL	FRANKENTHAL	176,82	38,0	1	4,66	14,0	1	100,6	2,6	3:44	5,9
1030080.424	6054	FRAPORT AG	FRANKFURT/MAI	200,66	43,7	1	4,69	13,0	1	84,6	1,9	2:36	3,6
5918070.857	6466	STAHLBAU RIED	LÖRSCH	17,41	3,8	1	4,66	13,0	1	3,0	0,8	0:16	3,9
5887510	7664	SCHMIDT & HEINZMAN	BRUCHSAL	22,02	4,9	1	4,53	11,0	0	8,0	1,7	0:18	3,7
1052010.443	7037	CARL SPAETER GMBH	STUTTGART/BA	72,66	16,1	1	4,52	11,0	0	25,3	1,6	0:51	3,2
5006040.270	7490	Elsle	BAD RAPPENAU	178,12	40,9	1	4,40	9,0	0	66,6	1,7	2:03	3,0
5040830.211	7138	Bollm et al	SASSACH	124,59	28,9	1	4,34	7,0	0	57,0	2,0	1:52	3,9
5008160.070	7682	Ufer	Landau	35,04	8,8	1	4,31	6,0	0	16,3	1,7	0:36	4,0

Customer cost analysis

## PRINT-OUTS

- ▲ Tour lists
- ▲ Loading lists stating every position, assignment to truck or trailer, and storage space for collection.
- ▲ Transportation order
- ▲ Forwarding order
- ▲ Storage space or wagon number on to which the goods are to be set.
- ▲ Freight documents z. B. CMR, KVO
- ▲ Tour statistics (Tour analysis)
- ▲ Cost statistics
- ▲ Analysis – Forwarder logbook
- ▲ Vehicle capacity utilisation
- ▲ Bordereau
- ▲ Invoices
- ▲ Credits
- ▲ Other options / adjustments can be made against a charge upon request

TOURINFORMATION FÜR ZEITRAUM VOM  
01.04.02 BIS 30.04.02  
EIGEN- UND FREMDFAHRZEUGE

Fahrzeug-Nr.	Fahrzeug	Km Tour	gefahrte Kilometer	km gerundet	kg / 1.0m / m³	kg / 1.0m / m³ -%-last
1	WST-CT 41	9	5.094	5.700	57.647 1.947,00	533,14 3,61% 3,56% 4,09%
10	WST-TG 42	15	7.208	7.200	71.219 1.981,00	616,63 4,46% 3,62% 4,65%
11	B-OW 3409	7	2.974	3.000	38.865 1.291,00	344,84 2,47% 2,36% 2,64%
12	WST-TT 42	8	4.380	3.500	45.330 1.425,00	392,58 2,84% 2,62% 3,01%
13	WST-TU 42	4	5.207	5.200	40.441 1.209,00	344,84 2,57% 2,21% 2,64%
16	WST-TO 41	3	1.823	1.800	14.406 532,00	118,57 0,90% 0,97% 0,85%
2	WST-NT 41	4	5.436	5.400	34.091 1.213,00	271,63 2,17% 2,22% 2,08%
29	WST-LT 41	9	7.724	7.700	56.491 1.993,00	517,96 3,54% 3,48% 3,97%
4	WST-UT 41	7	4.487	4.500	51.754 2.253,00	494,43 3,24% 4,12% 3,79%
5	WST-VT 41	7	7.515	7.500	65.751 2.462,00	514,48 4,12% 4,50% 3,94%
561	Pier Post	17	101.468	101.500	21.826 1.687,00	166,74 1,37% 3,03% 1,23%
562	NST	13	12.292	12.300	3.985 136,00	32,87 0,25% 0,25% 0,25%
563	Diverse Abhol	14	2.579	2.600	9.093 300,00	110,11 0,57% 0,55% 0,64%
564	Hard-Internat	22	35.558	35.600	69.130 2.292,00	539,65 4,37% 4,19% 4,14%
6	WST-WT 41	7	3.520	3.500	63.397 2.716,00	515,34 3,97% 4,97% 3,96%

Tour information own/outside

Frachtführer: K&N, 1001

Transportnummer (ID): 092200

Sehr geehrte Frau / Herr,  
gemäß Vereinbarung  
übernehmen Sie in unserem Auftrag

**Transportauftrag**

Beladung: Art der Verpackung, Inhalt, Gewicht (kg), Volumen (m³), Beschreibung

Beladungstermin: Datum: 29.04.02, Uhrzeit: 0:00 - 10:00

Entladungstermin: Datum: 30.04.02, 02:00 - 05:00

Ab dem 01.07.1999 gehen die Bestimmungen der Par. 407 ff HGB.

Transportation order

Tourliste

Tour: 20739 RAUB

Adresse

Uhrzeit, Beladung, Entladung, Anfahrtszeit, Abfahrtszeit

Beladungstermin: 01.04.02, 07:00 - 07:30

Entladungstermin: 01.04.02, 07:30 - 08:00

Abfahrtszeit: 01.04.02, 08:00

Abfahrtszeit: 01.04.02, 08:00

Tour list

Frachtführer: K&N, 17000, Art. 5

Telefon: 03241-5210

KVO-Frachtbrief

Ansprechpartner: Herr Blauke

Fahrzeug: MFI 87 244

Beladungstermin: 24.05.2002

Entladungstermin: 24.05.2002

Ab dem 01.07.1999 gehen die Bestimmungen der Par. 407 ff HGB.

Rechnungsbefehl / Lieferdatum	Anzahl	Art der Verpackung	Inhalt	Gewicht (kg)	Volumen (m³)
08473 345363	1.00	Maßwerkstoffe 200x200x20	200 x 200 x 20	221,000	12,000
08473 345363	8.00	Ring	22 - 200 (20 x 20)	441,000	22,400
08473 345363	2.00	Gründruckwerke 4-achs (F4)	CRANF400PRO-CKANTE	87,000	9,600
08473 345367	1.00	Maßwerkstoffe 200x200x20	Maßwerkstoffe 200 x 200 x 20	221,000	12,000
08473 345367	20.00	Maßwerkstoffe 200x200x20	Maßwerkstoffe 200 x 200 x 20	221,000	12,000
08473 345368	1.00	Gründruckwerke 4-achs (F4)	CRANF400PRO-CKANTE	87,000	9,600
08473 345368	4.00	Gründruckwerke 4-achs (F4)	CRANF400PRO-CKANTE	348,000	4,000
08473 345368	1.00	Gründruckwerke 4-achs (F4)	CRANF400PRO-CKANTE	87,000	9,600
08473 345368	1.00	Gründruckwerke 4-achs (F4)	CRANF400PRO-CKANTE	87,000	9,600

Consignment note

Menge (Stückzahl)	Einheit	Art der Verpackung	Bezeichnung	Gewicht (kg)	Volumen (m³)
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10

Loading list

Tourdatum	Anzahl Touren	Anzahl Abgabebestände	Tonnage (kg)	Tourdauer	Entfernung
01.04.2002	1	1	30		
04.04.2002	3	3	512	48:58	3.112 km
05.04.2002	6	38	13.588	29	181:22 19.448 km
06.04.2002	26	278	165.814	9:57	974:28 26.475 km
09.04.2002	6	53	26.653	1:29	242:01 9.970 km
10.04.2002	17	167	97.319	4:074	563:42 19.943 km
11.04.2002	16	175	101.632	3:879	579:22 20.661 km
12.04.2002	19	38	24.321	2:52	211:09 6.927 km
15.04.2002	34	475	197.733	7:396	1.064:58 48.237 km
16.04.2002	0	46	19.819	1:79	198:05 9.380 km
17.04.2002	17	235	135.297	2:782	738:24 17.446 km
18.04.2002	17	233	110.438	4:733	786:41 18.888 km
19.04.2002	19	24	23.796		177:58 7.137 km
20.04.2002	1	16	7.948	38	56:01 3.293 km
22.04.2002	27	315	186.389	6:172	1.034:04 33.786 km
23.04.2002	9	162	43.328		677:39 14.817 km
24.04.2002	16	291	75.648	1:914	916:11 24.887 km

Forwarder logbook / Log sheet

Menge (Stückzahl)	Einheit	Art der Verpackung	Bezeichnung	Gewicht (kg)	Volumen (m³)
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10

International waybill

Datum	Bezeichnung	Umsatz	Netto	Brutto	Netto	Brutto
20.05.02	Handtasche	100	10	110	10	110
21.05.02	Handtasche	100	10	110	10	110
22.05.02	Handtasche	100	10	110	10	110

Tour analysis

Menge (Stückzahl)	Einheit	Art der Verpackung	Bezeichnung	Gewicht (kg)	Volumen (m³)
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10
100	Stück	Handtasche	Handtasche	100	10

Outgoing bordereau

## FORWARDER PACKAGE **PRA<sup>®</sup>SPED 3000**

The functions in tour planning and freight invoicing have been put together in a special package for forwarding processes.

(**PRA<sup>®</sup>SPED 3000** = **Basis PRA<sup>®</sup>CAR 3000** + **freight invoicing module TLT 3000**)

The **PRA<sup>®</sup>CAR 3000** functions the industry requires are accessible as well. These particularly include:

- ▲ Incoming and outgoing bordereau
- ▲ Consignments to predefined postcode areas



## ADMINISTRATION OF TRANSPORTATION EQUIPMENT (SUPPLEMENTARY MODULE)

Information is provided of each customer's quantity and ownership details as well as liabilities and receivables via a specific transportation equipment account.

**Tour 085193 (luw\_greatbritain)** 35006

tour date: 25.10.04 | load: 0.00 | capacity: 60.00 | duration: 4:58 | weight: 0.000 | capacity(kg): 0.000

085193 | 085182 | 085183

times | costs | data | orders | INFO | restrictions | **transport mode**

no.	client number	address	EUP	Gibo	DD...	EWP	we...
1	60013 ,2,3,4	Central Logistics Inc.	25.00	0	0	0	16
GB	B100 Birmingham		0	0	0	0	
2	60010 ,1	Smith & Miller	25.00	0	0	0	10
GB	L10 Liverpool		0	0	0	0	

description of the transport unit      amount

Transportation equipment administration

Transportation equipment administration functions:

- ▲ Automatic posting of the transport equipment upon delivery
- ▲ Manual input of returns via recording mask
- ▲ Recording of initial inventories with subsequent correction of existing entries
- ▲ Print-out of pallet and return note
- ▲ List per destination / Loading-aid statement
- ▲ Current inventory, coordination date and printing date
- ▲ Monthly settlement including accompanying letter and statement showing status / information about transportation equipment per postcode area and customer
- ▲ Distributed booking options e.g. loading / unloading point and hauler summary account for reference booking and transportation equipment and much more

**client WZ / L**

General | times | loading aid | addition

**unhandled loading aid movements**

booking number	Tour no.	tour date	booking	load	quantity	document	document	loading aid name	loading	debit no.	d	email
82109104	06.10.2004	06.10.2004	16.24	1	2153	06.10.2004	euro pallet	1	062			
82109104	06.10.2004	06.10.2004	16.24	1	2156	06.10.2004	euro pallet	1	062			
79109104	06.10.2004	06.10.2004	16.24	1	20195	06.10.2004	euro pallet	1	062			
76109104	06.10.2004	06.10.2004	16.24	1	2154	06.10.2004	euro pallet	1	062			
74109104	06.10.2004	06.10.2004	16.24	3	2153	06.10.2004	euro pallet	3	062			
72109103	06.10.2004	06.10.2004	16.15	1	6152	06.10.2004	euro pallet	1	062			
70109103	06.10.2004	06.10.2004	16.15	1	11151	06.10.2004	euro pallet	1	062			
68109103	06.10.2004	06.10.2004	16.15	1	1150	06.10.2004	euro pallet	1	062			
66109103	06.10.2004	06.10.2004	16.15	1	7149	06.10.2004	euro pallet	1	062			
64109103	06.10.2004	06.10.2004	16.15	1	10148	06.10.2004	euro pallet	1	062			

**current loading aid inventories**

cross validation | loading aid account | stock | debit date | Zübach

States whether or not the client is subject to hold an account. This has an effect on the determination of the debit.

This function creates a movement. Le a charge or credit is made for the current client and the one selected in the function.

Man. Movement      Using this function, a manual inventory correction is made for the selected client.

Man. charge/credit

Inventory account

**Wanko Informationslogistik GmbH**  
Gewerbestraße 1  
83404 Ainring  
www.wanko.de  
info@wanko.de

**Firmenlogo**

**LM-Bewegungen**  
Seite 1 von 1

Textstudie: Lindenstraße 19  
D - 83395 Freilassing

Bewegdatum	LM-Schein-Nr.	Transportmittel	Bemerkung	SALT gds ab / anfert
28.01.2008	132	Paletten		3
			Gesamt	2
			Saldo	2
29.01.2008	132	Karton		3
			Gesamt	3
			Saldo	3

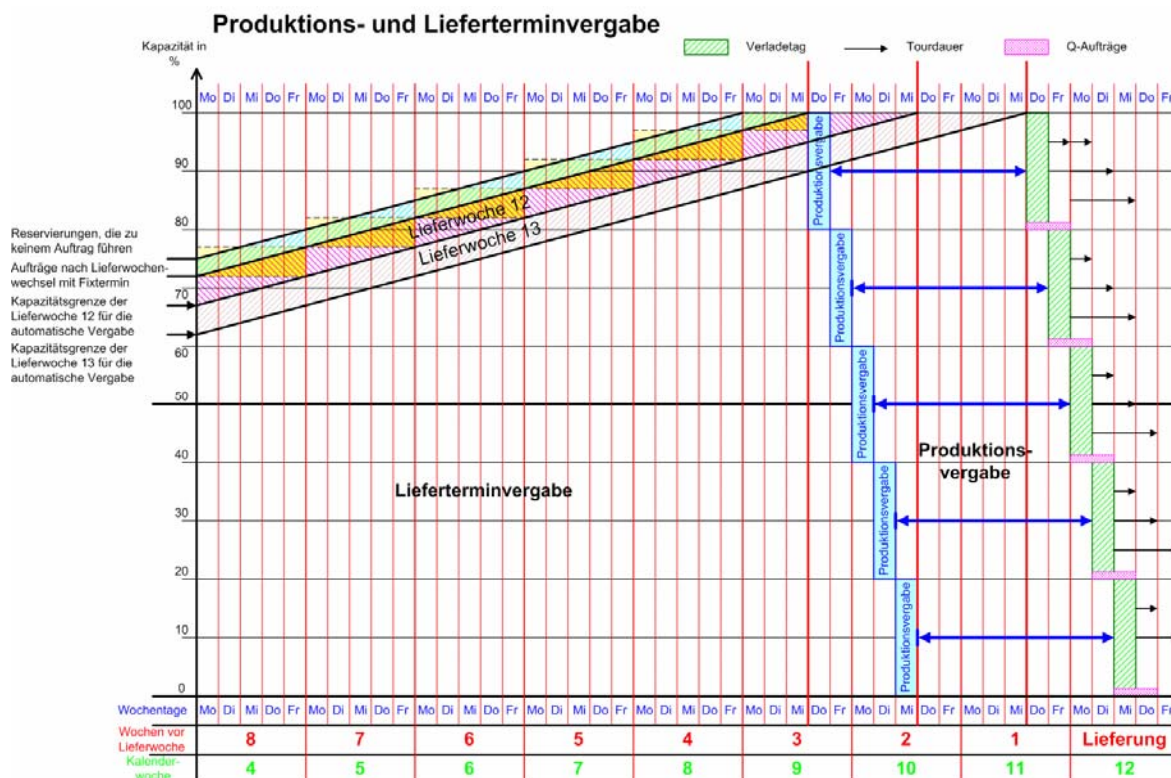
Anmerkung: Mit Mitbewegungen verschobene Saldo betragen zu Beginn des Monats.

Loading-aids movements

## MODULES FOR COMMUNICATION TO WAREHOUSE AND PRODUCTION CONTROL AND MERCHANDISE ADMINISTRATION SUCH AS SAP®, BAAN ETC.

These modules largely prevent incorrect items; if incorrect items arise nevertheless, they are detected in time and not planned into the tour.

- ▲ Allocation of delivery times  
Delivery times are allocated taking into account production capacity, procurement and throughput time in the various production sectors, stock levels and delivery periods from upstream suppliers, and delivery areas.
- ▲ Production dates  
Production dates and feedback upon completion are given taking into account delivery deadlines, production capacities and throughput times in the various production sectors and the most efficient delivery.



Production and delivery date allocation



## FINISHED-OUTPUT CONTROL (SUPPLEMENTARY MODULE)

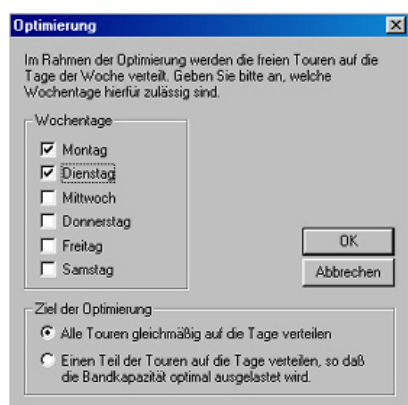
### Interface

- ▲ Adoption of production line allocation in minutes or units per order (position)
- ▲ Feedback to host of planned orders stating tour/tour sequence

### Assignment of daily output

- ▲ Automatic allocation of planned tours taking into account the capacities in up to 20 restrictive work areas (production lines) to the individual production days
- ▲ Manual changes down to the level of individual positions

Optimisation can take place evenly-spread over several weekdays or for optimum production line capacity:



Optimisation dialogue

Band	Mo	Di	Mi	Do	Fr	Sa
Band 1	1800.00	1800.00	1800.00	1800.00	1200.00	
Band 2	1550.00	1550.00	1550.00	1550.00	1250.00	
Band 3	6.00	6.00	6.00	6.00	6.00	
FE Stelle 4	300.00	300.00	280.00	300.00	200.00	
Band 5	350.00	350.00	350.00	350.00	300.00	
Band 6	500.00	500.00	500.00	500.00	500.00	
Band 7	1300.00	1300.00	1300.00	1300.00	1050.00	
Band 8	2500.00	2500.00	2500.00	2400.00	1750.00	
Band 9	5.00	5.00	5.00	5.00	5.00	
Band 10	20.00	20.00	20.00	20.00	20.00	
Band 11	6.00	6.00	6.00	6.00	6.00	
Band 12	0.01	0.01	0.01	0.01	0.01	
Band 13	80.00	80.00	80.00	80.00	80.00	
Band 14	0.01	0.01	0.01	0.01	0.01	

Determining production line capacity per production day

Once the tours have been put together, the production line capacities can be assigned for the output. The finished output can be checked via the tour planning process:

Ziele	Band 1	Band 2	FE Stk.	Band 5	Band 6	Band 7	Band 8	Band 9	Band 10	Feiten
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000
8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000
10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

Production dialogue, heading

In this register, the previously selected tours are listed in the lower section. These are now booked using the command **Optimise** from the menu **Production lines**. The result can be extracted in absolute figures or a percentage or as a graph:

Produktion

Abstrakt  
Prozent

Datum: 26.05

Montag Dienstag Mittwoch  
Donnerstag Freitag Samstag

Tabelle Diagramm

Zelle	Band1	Band2	Fixtermin	Verladedatum	Zone
Kap.	1200.00	10.00			
Summe	0.00	0.00			
frei	1200.00	10.00			

Zelle	Band1	Band2	Fixtermin
F00001, 26.05	16.00	0.00	nein
F00002, 26.05	28.00	0.00	nein
F00003, 26.05	6.00	0.00	nein
F00004, 26.05	50.00	0.00	nein

Production dialogue, register table



Production, register graph

## STRATEGIC / OPERATIVE PLANNING (SUPPLEMENTARY MODULE)

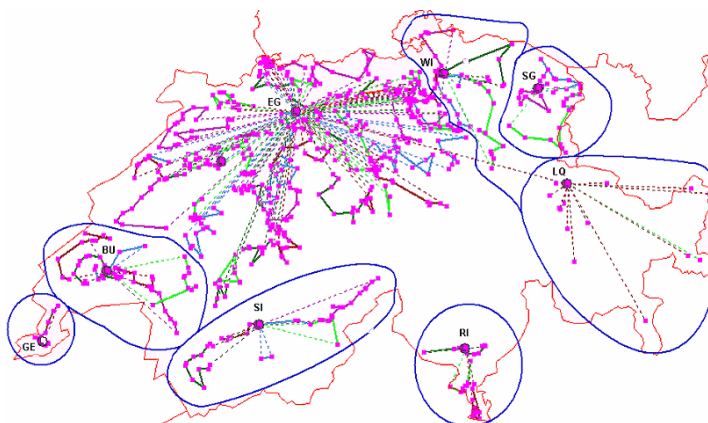
Strategic planning of simulated order volumes depending on delivery rhythms, delivery days and turnover volumes.

### Volume determination

- ▲ from turnover
- ▲ per range and plan day
- ▲ per delivery day
- ▲ and weeks with bank holidays

### Customer selection by

- ▲ type of order, range
- ▲ delivery days, delivery frequency
- ▲ area



### Graphic presentation of customers, stating volume in the mode of transport and kilograms per range

- ▲ sum per selected area or postcode area
- ▲ individually per customer

## Specifying the directions

- ▲ Customer selection by range, delivery day or delivery frequency for the plan day
- ▲ Specification of time restrictions per product range and customer
- ▲ Specification of the direction
- ▲ With set trip sequence that has emerged in this direction from the optimisation of all customers and which contains all the restrictions
- ▲ alternative: assignment of customers in the respective direction for free planning later on taking all the restrictions into account

## Costing for the own fleet of vehicles

- ▲ statement of the absolute costs and costs per palette or container trolley
- ▲ determination and display of prime costs for the planned tour
- ▲ determination and display of prime costs for individual destinations

## INTRANET RECORDING (RECORDING ORDERS AND PUTTING THEM ON-LINE)

Parties connected to the network (Intranet) can record and handle orders using Intranet recording. The status and progress of the orders is visible for parties. Access is obtained through an individual, password-secured code.

The screenshot shows the 'Auftrag' (Order) form. It includes fields for 'Auftragsnr.', 'Referenz', 'Liefergebiet', and a dropdown for 'Waren Art/Typ'. Below this is the 'Entladestelle / Lieferkunde' section with fields for 'V-Unternehmen', 'Match', 'Kilometer', 'Name 1 + 2', 'Strasse', 'Land', 'Plz', 'Ort', 'Telefon', and 'Behälter' (Container) details. The 'Bestellinformation' section contains 'Besteller', 'Füllgrad Tank', 'Bestellmenge', and 'Lieferung'. The 'Termin' section has 'Letzte Rückmeldung', 'Bestellstatus', 'Liefertermin', and 'Zeit'. The 'Teile' section includes 'Temp. Restriktion' and 'Falschlieferung (Auftrag)'. The 'Beschränkungen' section is a table with columns 'Nr.' and 'Bezeichnung'. At the bottom, there are fields for 'Volumen', 'Au-Status Host', and 'AuArt.Nr.' along with status icons.

Order recording by Intranet

The screenshot shows the 'Kunden' (Customer) recording form, divided into 'Basis' (Basic) and 'Weiteres' (Further) sections. The 'Basis' section includes 'KundenNr.', 'Kilometer', 'Match', 'Name 1', 'Name 2', 'Strasse', 'Land', 'Plz', 'Ort', 'Telefon', 'Handy', 'E-Mail', 'WWW-Adresse', 'Ansprechpartner 1', 'Ansprechpartner 2', 'Seitenarbeiter', 'Verordnungsqualität', 'Produktzahl-Zusatz', 'Sprache', 'Text 1', and 'Text 2'. The 'Weiteres' section includes 'Kunden-Bezeichnungen', 'Fakturenzeichen', 'Zahlungsart', 'Zahlungsbedingung (Kredit)', 'Zahlungsbedingung (Debit)', 'Zu- und Abschläge' (Skonto, Rabatt, Prolongation, Lagerentgelt), 'Artikel' (Artikel1, Artikel2, Artikel3), 'Behälter' (Behältergröße, Behälternummer, Füllgrad), and checkboxes for 'Leistungsfähigkeit', 'Rechnungen erstellen', 'Quoten erstellen', 'Leistungsfähigkeit', and 'Alle Daten laden'. Status icons are at the bottom right.

Customer recording by Intranet

## SET POINT / ACTUAL VALUE COMPARISON

### Manual data recording

The planned tour dates can be compared with the actual tour-relevant data and analysed. Actual data is recorded manually.

The results of the set-point /actual-status comparison are presented in a report. Any deviations are displayed in absolute figures and in percentages.

The set-point /actual-value report can be generated with the following criteria:

- ▲ vehicle-or driver-related
- ▲ from-To date or single date
- ▲ choice between standard report and detailed report
- ▲ choice between own or subcontractor vehicles

Fahrzeugauswertung vom 18.10.2002 bis 24.10.2002 f									
Datum	Tournr.	Beginn	Zeit	Ende	Zeit	Gesamtzeit (hh:mm)		Fahrzeit (hh:mm)	
		Ist	Ist	Ist	Ist	Ist	Diff %	Ist	Diff %
		Soll	Soll	Soll	Soll	Soll	Diff abs	Soll	Diff abs
18.10.02	572457	18.10.02	07:55	19.10.02	04:16	9:39	-7,4%	9:03	24,0%
		18.10.02	08:20	18.10.02	19:30	10:25	- 0:46	7:18	1:45
21.10.02	572545	21.10.02	14:03	22.10.02	13:48	5:14	-30,4%	5:08	5,8%
		21.10.02	09:31	21.10.02	17:47	7:31	- 2:17	4:51	0:17
22.10.02	572626	22.10.02	13:55	23.10.02	08:32	8:05	-20,5%	6:59	-19,7%
		22.10.02	15:00	23.10.02	12:10	10:10	- 2:05	8:42	- 1:43
23.10.02	572707	23.10.02	09:12	24.10.02	09:21	8:22	66,2%	7:01	153,6%
		23.10.02	14:00	24.10.02	08:08	5:02	3:20	2:46	4:15
						<b>31:20</b>	<b>-5,4%</b>	<b>28:11</b>	<b>19,3%</b>
						<b>33:08</b>	<b>- 1:48</b>	<b>23:37</b>	<b>4:34</b>

Vehicle analysis

The following tour-relevant data can be recorded as actual value data and compared:

- ▲ beginning and end of the tour
- ▲ vehicle and driver
- ▲ driver's regular times (driving and stationary periods, driving breaks, breaks, overnight stops) as well as special times (e.g. waiting for unloading)
- ▲ kilometres
- ▲ litres (refuelling and consumption)

### Automatic data recording (recording via on-board computer)

Actual-status data recording is performed by the driver during his tour using the telematic system's on-board computer. The data is transferred to **PRA<sup>®</sup>CAR 3000** via an interface with the recorded GPS coordinates of the tour actually driven. Changes in quantities and the tour status are presented in updated form in the tour plan.

The recorded data can be presented differently in the set-point /actual-status comparison:

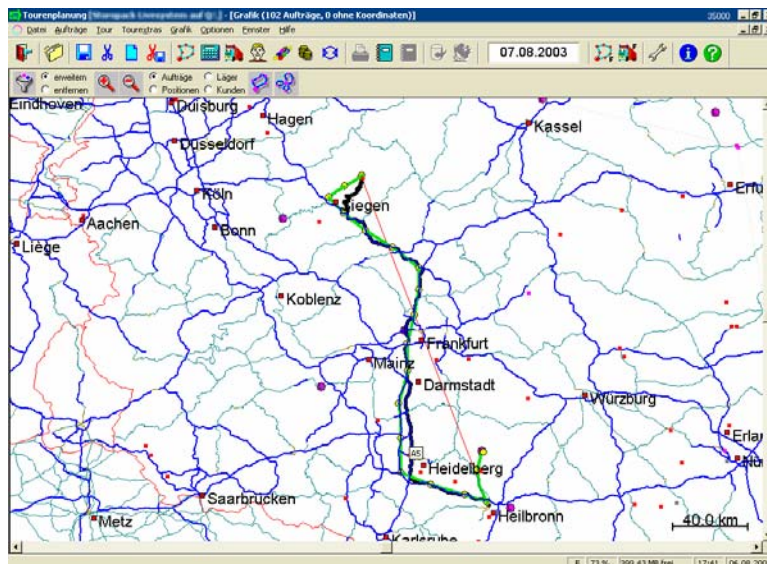
- ▲ set-point /actual-status comparison with report – see set-point / actual value comparison (manual data acquisition)
- ▲ Graphic presentation: the planned and actual tour can be presented on the **PRA<sup>®</sup>MAP** road map. This is a particularly good idea when larger-scale deviations arise in the report and the precise route/tour taken by the driver is to be displayed.



Set point



Actual value

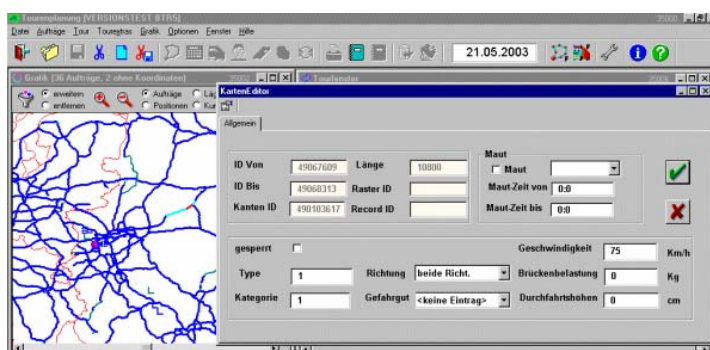


Set-point / actual-status comparison

## MAP EDITOR

The map editor enables the user to edit the road network to suit his/her requirement. The following restrictions can be set for a particular section of road:

- ▲ Hazardous goods information
- ▲ Speed reductions
- ▲ Bridge loadings / clearances
- ▲ Road closures
- ▲ Toll roads
- ▲ and many more



Map editor

Processed roads can be highlighted in colour. The data is stored separately and is not lost when the road network is updated!

## MANAGEMENT INFORMATION SYSTEM (MIS), ANALYSES AND KEY DATA (MODULE IN DEVELOPMENT)

- ▲ MIS offers decision-makers the option of using ready-made analyses or determining their own key data.
- ▲ The analyses can be produced with any parameters; e.g. by orders per client

Aufträge vom 10.01.2000 für Rechnungskunde 270093								
Auftrag	A-Art	Tour	Gewicht	Volumen	Einheiten	Einnahmen	Ausgaben	Marge
<b>Aufträge in Liefergebiet PLZ 80</b>								
012954	4	990471		0,20		39,02	26,00	13,02
Summe Plz:	1	1		0,20		39,02	26,00	13,02
<b>Aufträge in Liefergebiet PLZ 81</b>								
012958	4	990471		1,50		89,52	67,50	22,02
Summe Plz:	1	1		1,50		89,52	67,50	22,02
<b>Aufträge in Liefergebiet PLZ 82</b>								
012948	4	990501		0,40		36,59		36,59
012955	4	990501		1,20		72,99		72,99
Summe Plz:	2	1		1,60		109,58		109,58
<b>Aufträge in Liefergebiet PLZ 83</b>								
012956	4	990471		0,70		51,62	38,50	13,12
Summe Plz:	1	1		0,70		51,62	38,50	13,12
<b>Aufträge in Liefergebiet PLZ 84</b>								
012970	4	990451		8,10		346,78		346,78
Summe Plz:	1	1		8,10		346,78		346,78
<b>Aufträge in Liefergebiet PLZ 85</b>								
012968	4	990451		1,40		96,68		96,68
012980	4	990501		0,02		40,59		40,59
014188	4	990501		1,20		60,99		60,99
Summe Plz:	3	2		2,62		198,25		198,25
<b>Aufträge in Liefergebiet PLZ 86</b>								
012942	4	990471		1,10		66,72	49,50	17,22
Summe Plz:	1	1		1,10		66,72	49,50	17,22
<b>Aufträge in Liefergebiet PLZ 87</b>								
012960	4	990475		0,25		36,88	26,00	10,88
Summe Plz:	1	1		0,25		36,88	26,00	10,88
<b>Aufträge in Liefergebiet PLZ 89</b>								
012951	4	990456		0,20		30,07	21,30	8,77
012961	4	990456		0,02		30,07	21,30	8,77
012984	4	990456		1,20		30,07	21,30	8,77
012950	4	990471		0,20		39,02	26,00	13,02
012983	4	990471		0,01		39,02	26,00	13,02
Summe Plz:	5	2		1,63		168,23	115,90	52,33
Total:	16	11		17,70		1.106,58	323,40	783,18

Order analysis for invoice recipients

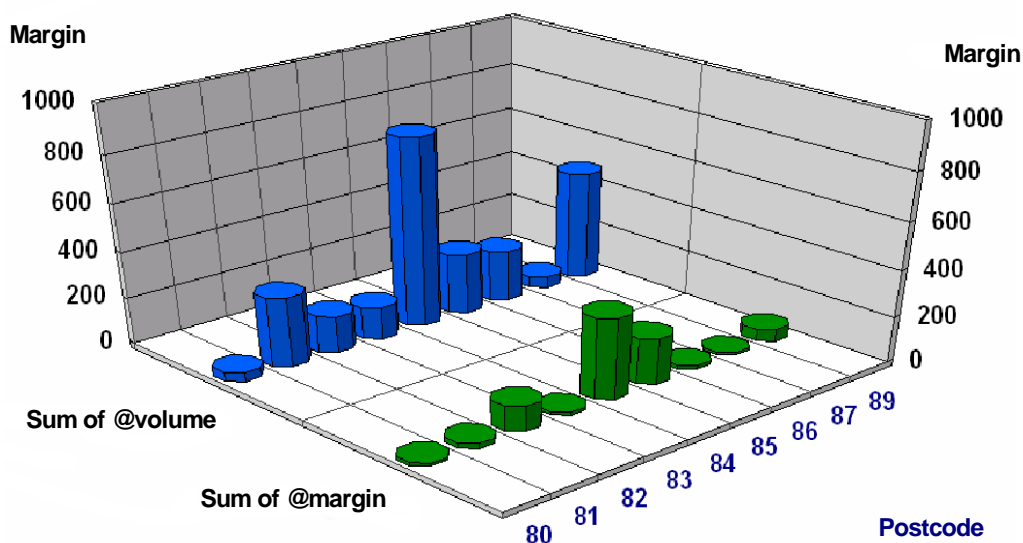
### Fahrzeugauslastung für 15.05.2002

Kennzeichen	Anzahl Touren	Verplante Nutzlast	Tonnage (kg)			Auslastung in %
			Lieferungen	Abholungen	Entfernung	
M-E 2710	1	10.200	9.854		360	97
M-E 2711	1	10.200	4.970		58	49
M-E 2712	1	10.200	1.904		154	19
M-E 4395	1	10.450	4.837		111	46
M-E 8540	1	10.150	5.703		234	56
M-E 8541	1	10.150	6.863		169	68
M-O 1234	1	10.000	4.553		142	46
M-O 1237	1	10.250	7.394		183	72
M-O 2345	1	10.200	6.487		205	64
M-O 3182	1	10.050	3.728		391	37
M-O 3456	1	10.400	9.363		528	90
15.05.2002	11	112.250	65.656		2.535 km	58
Total:	11	112.250	65.656		2.535 km	58

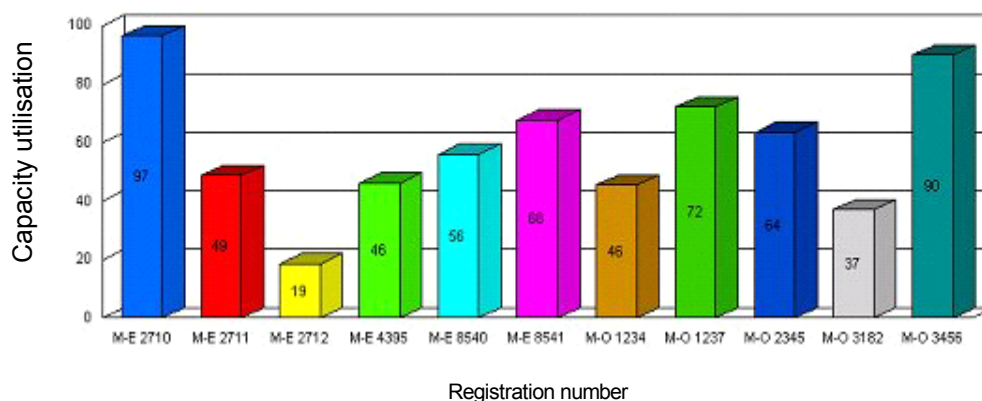
Analysis per vehicle



## Margin per postcode area



## Utilisation of vehicle capacity in % per vehicle



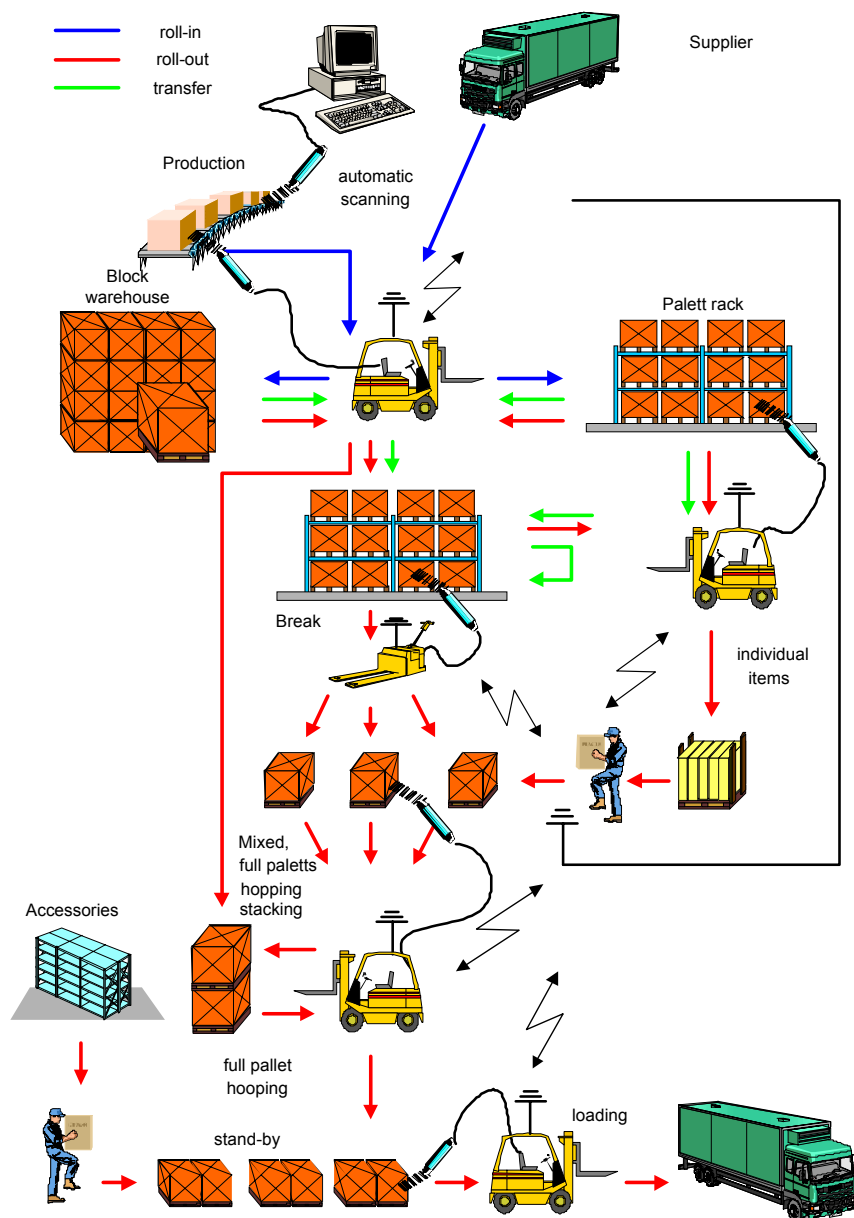
## SUPPLEMENTARY MODULES FOR EXTENDING *PRA*® CAR 3000 INCLUDE:

- ▲ Transshipment-warehouse scheduling
- ▲ Planning with several operation points
- ▲ ILOG optimisation module
- ▲ Immediate order invoicing
- ▲ Container administration
- ▲ Driver schedule
- ▲ and many more

## WAREHOUSE LINK

### **PRA<sup>®</sup>MAG 3000**

Control package for the automatic procedure and personnel and equipment deployment in the warehouse from goods entry to loaded on the vehicle.

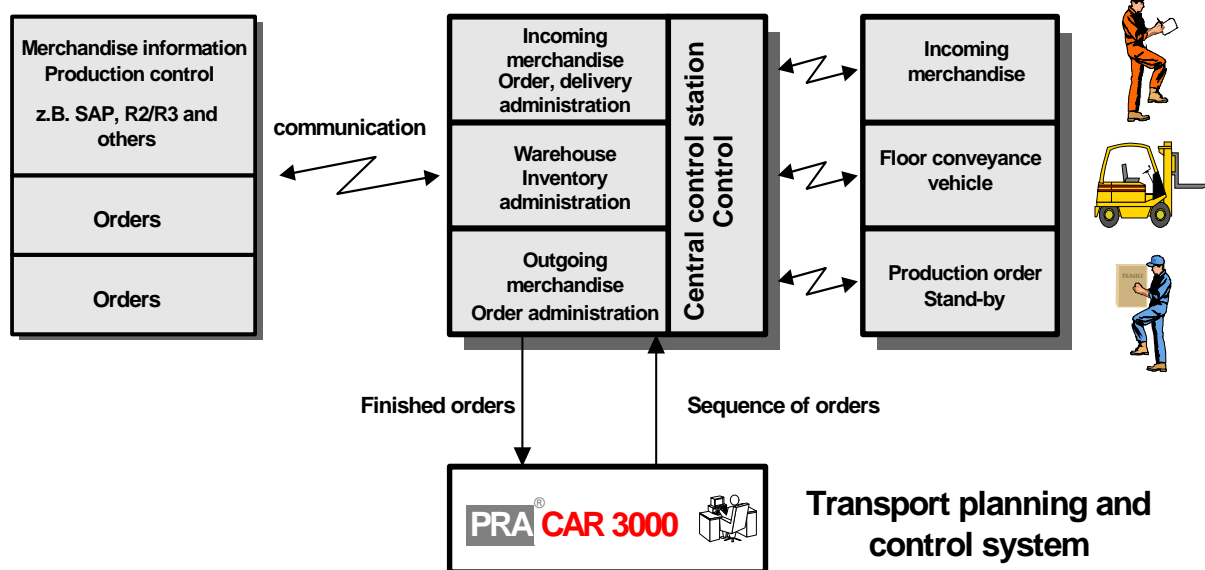


Suitable for all floor conveyors, constant conveyors, storage and retrieval units for high-bay warehouses.

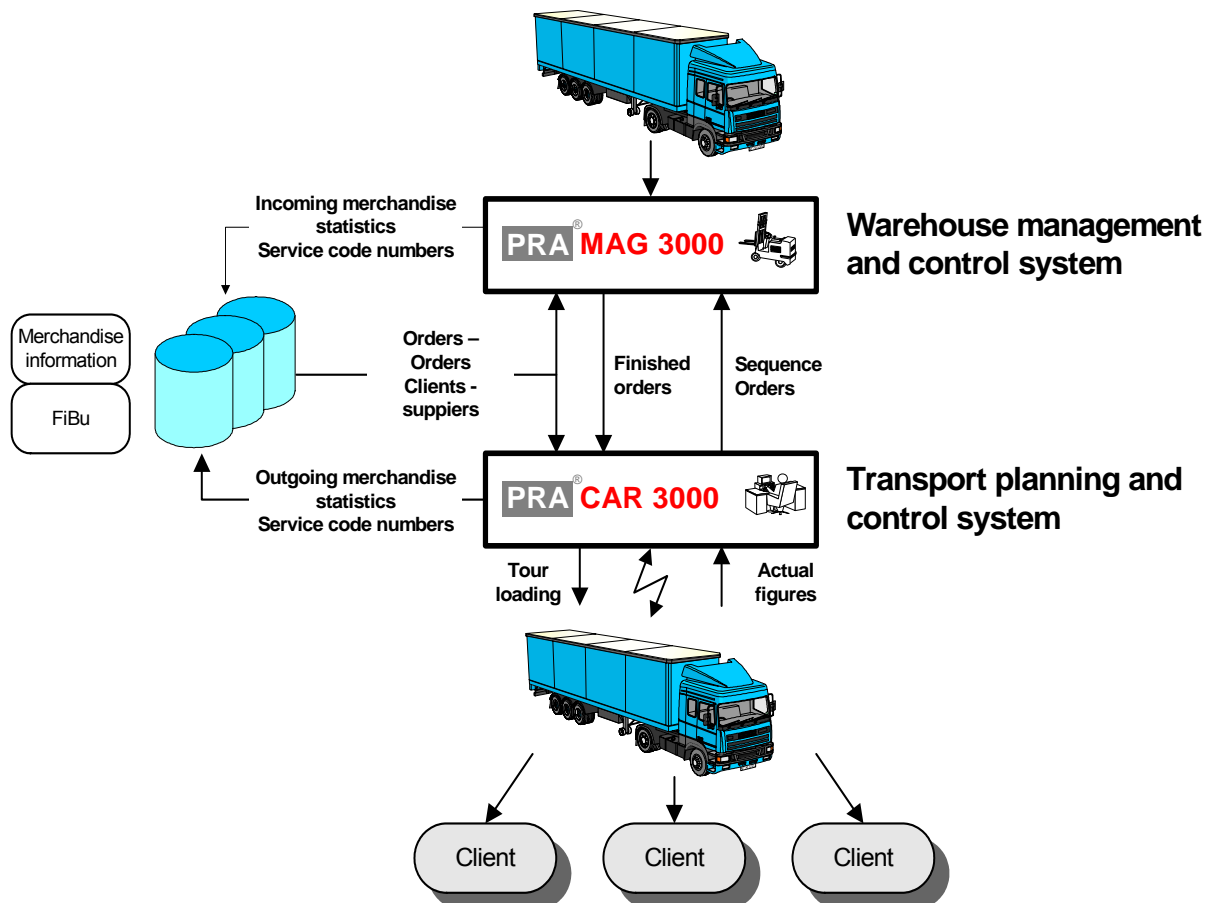
We will be glad to send you detailed information about our **PRA<sup>®</sup>MAG 3000** warehouse solution.



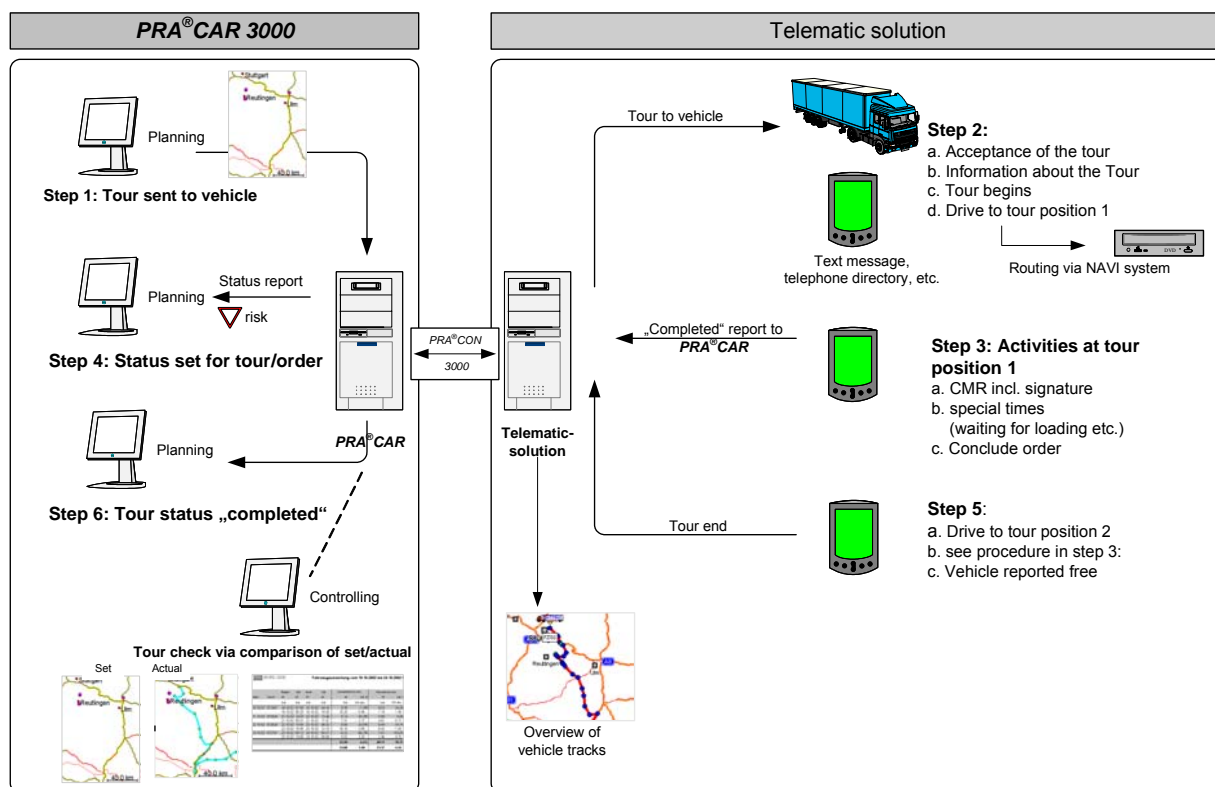
## Inventory management and control system *PRA<sup>®</sup>MAG 3000*



## Integration into the total process



## OPTIONS COMBINED WITH A TELEMATIC SOLUTION



The following are examples of the possibilities:

- ▲ Transfer tour or tour alteration on-line
- ▲ Paperless tour processing
- ▲ Current tour and order status
- ▲ Send messages
- ▲ Set-point / actual-status comparison for driver and vehicle
- ▲ Determination of working hours and expenses
- ▲ Active EMAIL notification of a jeopardized tour!
- ▲ Actual-status data acquisition (e.g. quantity change) with on-board computer
- ▲ and many more

Detailed information about our telematic solution is available upon request!