

MapBooking

Route Planning
Route Optimization
Order Booking



Many advantages of automatic route planning

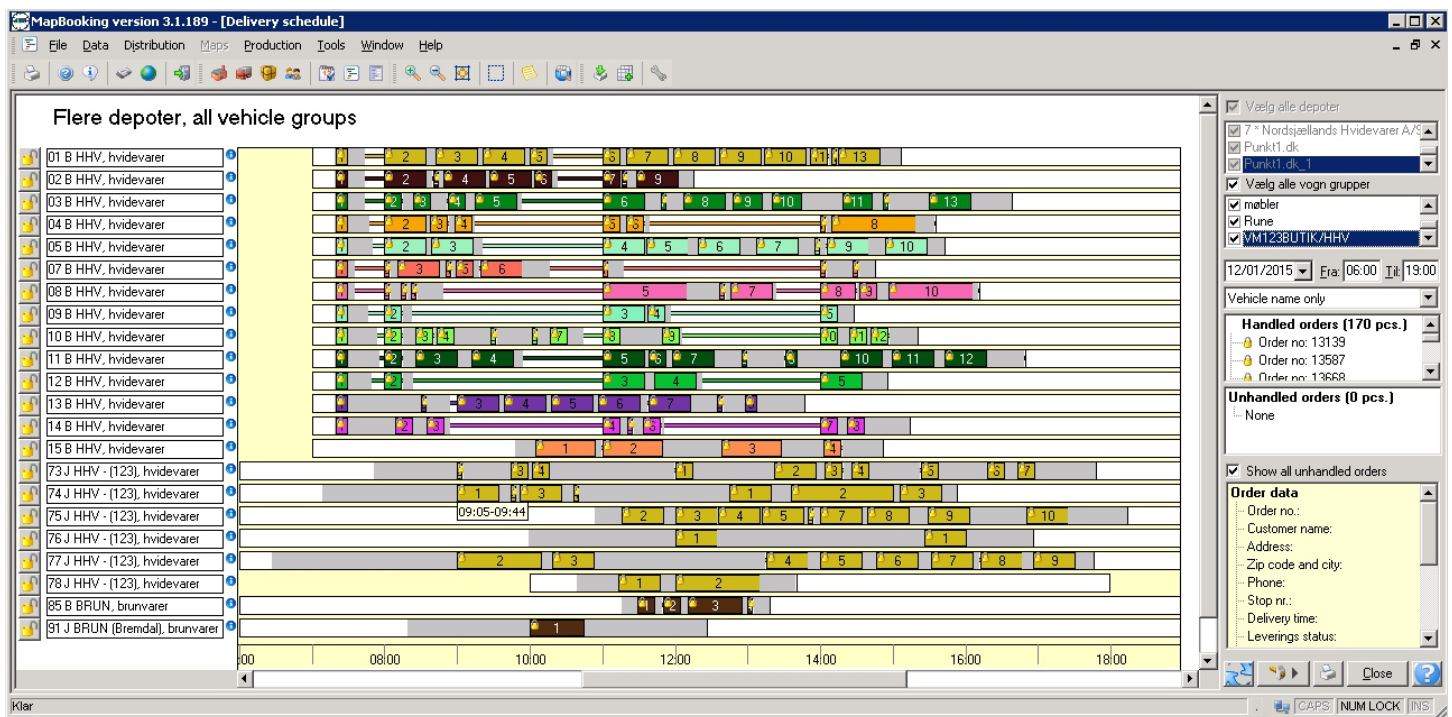
Route planning and optimization with MapBooking typically provide a savings of driving time and mileage between 7 and 20%. The potential savings depend on the routes complexity. If there are many routes which varies from day to day it is typically in the upper end, while with few and relatively fixed routes typically is at the lower end.

The human brain is not particularly suitable for route planning. An experienced planner can easily plan 40 stops on 4 routes in maybe 10 minutes, but is often 10-20% from the optimum. With MapBooking the routes are planned in 5-10 seconds and is very close to optimum. Companies make many antics in the manual Route Planning - vehicles and customers are divided into districts, customers get long delivery time slots, so you are reasonably sure, that the agreed can be kept, putting permanent limits on how many stops or tasks a vehicle maximum can perform per route or workday. MapBooking manage routing without all these antics!

An essential element of customer satisfaction is, that you delivers the agreed at the agreed time. With MapBooking you can inform customers about the exact time slot, so they don't have to stay at home all day waiting for a delivery.

With MapBooking many employees experience a more satisfied workday - it applies to both staff in the field and staff in the office, who are involved in Route Planning and customer related tasks.

All companies using MapBooking achieve administrative savings.



Gant diagram from MapBooking interface

Route planning where all requirements always adhered

MapBooking can in a short time optimizing several hundred routes. In spite of the short calculation time, the algorithms in MapBooking ensures that the optimized routes meet all requirements for vehicles, customers, orders and drivers.

The routes always meet the delivery time slot for each stop. Routes length is consistent with the desired, both in relation to when the route must start and end, and in relation to driving time and working time.

Routes are planned so all the capacities and restrictions always be respected. MapBooking can by default handle up to 16 capacities and an infinite number of restrictions. The difference in capacities and restrictions are, that capacities are exhausted, while restrictions are conditions which always has to be met. A restriction is for example, that customers who live in the ground floor can be operated by all cars, while customers who live on the first floor must be operated by vehicle with both driver and helper in case of a heavy delivery.

When routes are planned with MapBooking it is usually not possible, to reallocate a single stop without making the routes worse.

MapBooking version 3.1.199 - [Booking and delivery]

File Data Distribution Maps Production Tools Window Help

Existing customers: [all 18 show]

Name	Address
01 - IDdesign A/S	Ventruparken 2, 2670 Greve
02 - Bjerg I	Odense
03 - Eiland H	Stenhus
04 - Expert F	Omega
05 - Ilkøb A	Kornmark
06 - Laasby	Bråskov
07 - Nordsjæ	Svalehøj
08 - Punkt1	Ravnæs
09 - Skouse	Askelund
10 - Smeg D	Amerika
11 - Jylland	Marsvej
41 - Expert F	Omega
42 - Expert F	Omega
50 - Punkt1	Odense
51 - Punkt1	Torvet 1
52 - Punkt1	Vesterga
53 - FHL	Agerhø
Postnord	Kornmark

Selected delivery:

Name: 01 - IDdesign A/S

Delivery address: Ventruparken 2, 2670 Greve

Delivery address for: Ventruparken 2, 2670 Greve

Group: Normal

Depot: 02 - RTC Brøndby

Vehicle: Automatic

Open 05:30-21:00

Expected delivery:

Time: 00:00

Veh.: 00:00

Cost: 00:00

Order cnt.: 00:00

Order info

Order ny

Find...

Delete

Cancel

Close

Delivery for customer:

Future orders (0 ite)

Orders today (0 ite)

Orders carried out

Pos. commodities:

- Servicelevering brun (1040)
- Servicelevering brun (1040) (RTC Fyn, Jylland syd)
- Servicelevering brun (1040) (RTC Jylland nord & v)
- Servicelevering brun -> (x) 2 mand (1050)
- Servicelevering brun -> (x) 2 mand (1050) (RTC Fy)
- Servicelevering brun -> (x) 2 mand (1050) (RTC Jy)
- (10) Monterings
- (10) Monterings (Eiland)
- (10) Monterings (ID 50)
- (10) Monterings (ID 51)
- (10) Monterings (ID 52)
- (10) Monterings (ID 53)
- (10) Monterings (Ilkøb)
- (10) Monterings (Ilkøb)

Selected commodities:

Del. 1 pcs. (10) Monterings

Del. date: Tue 13-01-15

+days: 0

Time: 07:00

Priority: 1

Check delivery time

Lock delivery to veh.

Date for order handling: 13-01-15

Kundenavn:

Butik bem.:

RTC bem.:

Opkrævning:

Use max. time

Time to first cust.: 00:00

Time from last cust.: 00:00

Revenue (Euro) for order: 0

Total operating time (min): 35

Frem. nøgle:

Ord. from 01-10 to 01-07

Help

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CAPS NUM LOCK INS

Booking dialogue in the client software are used to book new tasks. The task are automatically committed to the cheapest vehicle or placed on a desired vehicle. In connection with the booking MapBooking calculates the precise costs, associated with execution of the task. The customer can immediately get the the time of delivery.

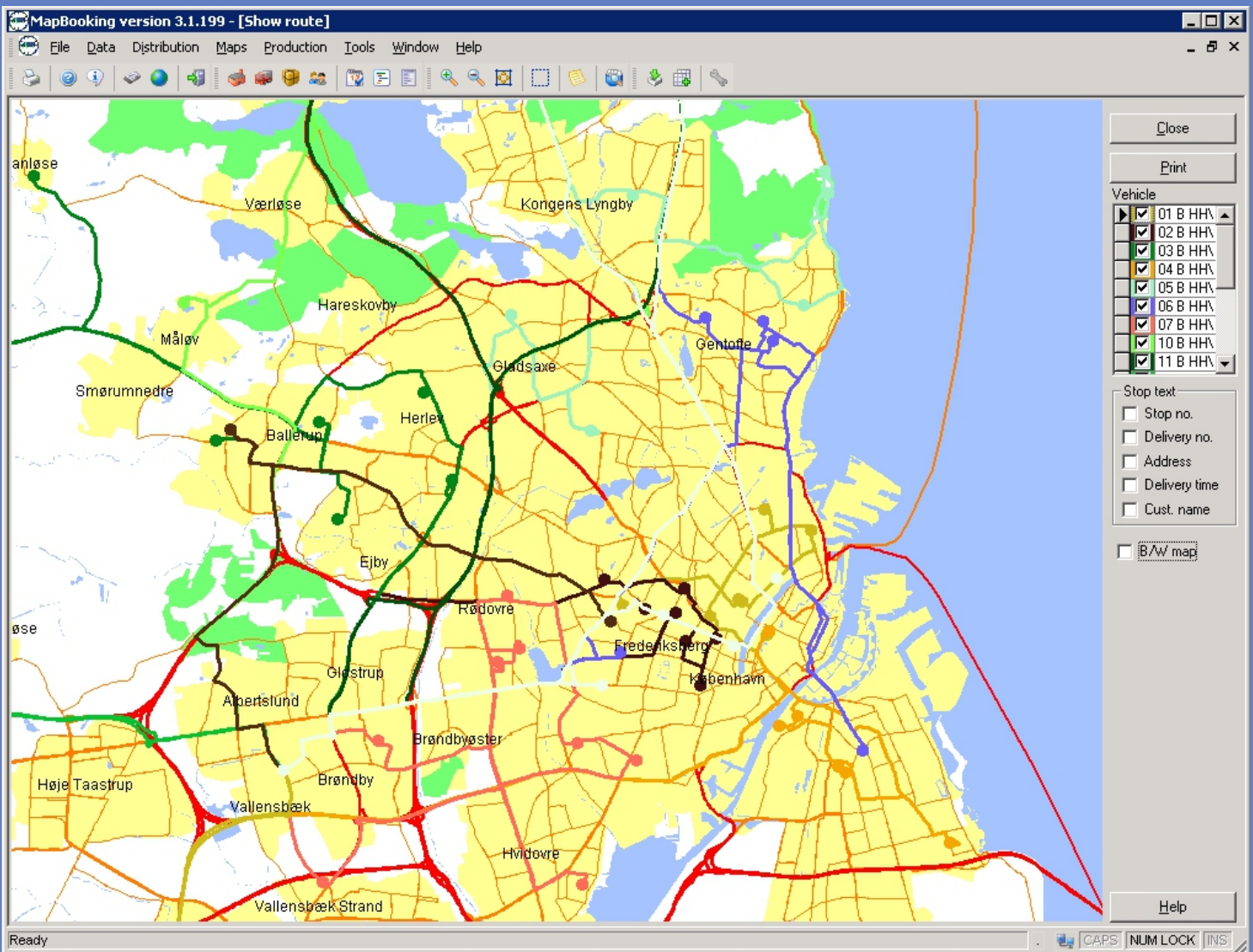
Client server

MapBooking is a client server application. For a single user installation MapBooking are typically installed on a PC.

For multi-user installations and integration with external ERP and database systems MapBooking are typically installed on a dedicated server and the client software are installed on a terminal server or on users pc.

MapBooking - route planning, route optimization and order booking

In case of a full integration with the company's ERP system MapBooking are installed on a server and the company's ERP system acts as a client to the MapBooking server.



Visualization of the routes give a quick overview of the planned routes.

Integration

MapBooking can be integrated with the company's ERP system regardless of the database. Many have experienced IT projects running out of hand, when newly acquired IT systems shall be integrated with existing IT systems. TetraSoft have in the company's early years also experienced, that integration projects were far more complex than anticipated.

A number of years ago we took the consequence of that and recoded the whole integration, so MapBooking now can be 100% integrated with corporate ERP and database systems without requiring greater technical insight. Integration with external databases are now coded to take place through a Windows service. In this model TetraSoft or the company's current ERP provider can typically integrate customer table, product table order table and call of route calculation in a few days' work.

Contakt

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