

map&guide professional 2009

The truck route planner

A leader in the transportation market – and beyond

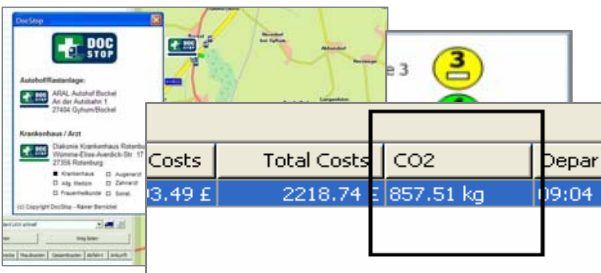
With over 50,000 professional users in the transportation industry and other sectors, map&guide professional is the market leader in Germany and the Benelux countries. The truck route planner provides the most extensive package of:

- Data specifically for truck transports
- Truck-optimized route planning
- Numerous editing functions

map&guide professional allows you to plan routes throughout Europe with exceptional precision, and calculates the fastest, shortest or most cost-efficient route for each of your trucks or cars.

The new 2009 version of map&guide professional comes with additional transportation data such as low emission zones, Routex acceptance sites, DocStop addresses, secure truck parking facilities (SETPOS) or truck wash centers. Plus, it can import data from the Freight Forwarders Directory published by DVV Media Group GmbH.

Another new feature: map&guide professional 2009 is the first route planner in the market to calculate CO2 and other pollutant emissions and consider low emission zones during routing.



Costs	Total Costs	CO2	Depar.
3.49 £	2218.74	857.51 kg	09:04

Countless transportation and logistics companies use map&guide professional for

- Planning appointments and vehicles
- Calculating distances
- Calculating transportation costs
- Calculating toll costs
- Optimizing sequences and time slots for transport routes
- Preparing quotations
- Verifying freight charges and invoices

However, map&guide professional is also used in many other industries for route planning, distance calculation, travel cost calculation, address visualization, travel planning and point-to-point routing.

NEW! DVV Freight Forwarders Directory data

With the Freight Forwarders Directory Data Package add-on, you can integrate over 7,000 top addresses from the Official Freight Forwarders Directory published by DVV Media Group. The Freight Forwarders Directory is a recognized reference work for the international transportation industry. The add-on module is packed with data from all segments of the European transportation industry and covers freight forwarders, special transports, special means of transportation, CEP services, important institutions, and much more. It does not contain addresses outside Europe or contact information without a postal address.

NEW! Emission calculation

With map&guide professional 2009, not only are you ready for future legal requirements, but you can also capitalize on your commitment to "green your fleet". map&guide professional is the first route planner in the market to calculate CO2 and other pollutant emissions, taking into account the selected vehicle as well as the selected route. See p. 4 for more information.

NEW! Low emission zones

map&guide professional 2009 displays low emission zones for Germany and the Netherlands right on the map. When generating routes, the software considers the low emission zones in Germany for the selected emissions sticker; if the vehicle does not have a valid sticker, the software avoids those zones as much as possible. If the driver has to pass through low emission zones without a valid sticker, the system will show a warning at this point in the route.

NEW! Transportation industry data

The new 2009 version contains plenty of new information of relevance to carriers:

- Routex acceptance sites for all of Europe
- Truck wash centers all over Europe
- DocStop in Germany: 250 service points at interstate exits, rest stops and truck terminals where professional truck drivers can obtain medical assistance while on the road. map&guide professional shows the nearest service point on the route to the scheduler, who can pass this information on to the driver in need of medical assistance.



Other new features

Toll kilometer surcharge for more precise toll calculation

The new version allows you to enter a specific toll kilometer surcharge for each country and vehicle category. This feature helps you handle situations in which a country has announced toll increases, but official toll calculation tables have not yet been released for the software. The software adds the surcharge to your toll calculations so your results will remain accurate in the transitional period, too.

Parking area search by driving times and rest periods

This new feature lets you find parking areas along the route that coincide with the time windows for the calculated rest periods. Rest stops that will be in close reach during the rest period are marked on the itinerary. They include not only rest stops in plain view along the interstate, but other areas such as easy-to-reach parking lots in nearby industrial zones.

Account for driving times and rest periods

Rem. driving time 09:00 04:30 Rem. driving time till break

Rem. shift time 13:00 00:45 Rem. driving break time

Add Suitable Car Parks to Itinerary

Address table Service Stations Maximum Distance 3 km

Truck routing: more planning flexibility (e.g., for heavy loads)

The enhanced truck routing feature gives you even greater flexibility when planning routes: In each vehicle profile, you assign your own weights to road types - interstates, highways, trunk roads, residential roads, toll roads, low emission zones, et cetera. That way, for example, you can avoid low emission zones entirely or require your heavy loads to remain on interstates as much as possible.

Improved cost calculation: individual surcharges by distance or number of stops

Enjoy greater flexibility in estimating costs, too. You may want the software to use a higher rate if a route exceeds a certain distance or number of stops. Now you can – with map&guide professional 2009.

km	km	->	*		
0	to 50	->	*	2.1	⊗
50	to 100	->	*	1.8	⊗
100	to 150	->	*	1.65	⊗
150	to 250	->	*	1.55	⊗
250	to 350	->	*	1.45	⊗
350	to 600	->	*	1.4	⊗
600	to 800	->	*	1.2	⊗
800	to 1300	->	*	1.15	⊗

Basic features

- Pan-European route planning - right to the doorstep in many countries (see Map materials). Includes sequence optimization (for up to 200 stop-off points) and calculation of alternate routes, taking into account direct distance, road distance, and time slots.
- Calculation of the fastest, shortest or most cost-efficient route based on various parameters (vehicle-specific properties, speed profiles, time slots, appointments, stay times, driving times and rest periods).
- Realistic calculation of driving times and rest periods, given the remaining driving and shift times.
- Calculation of distances and costs based on map&guide distance kilometers - as a basis for quotations and invoices.
- Calculation of toll costs using the official toll tables. Toll booking for Germany with Toll Collect directly in map&guide professional
- Includes truck and hazardous goods data (NAVTEQ Transport) for many European countries (see section on truck and hazardous goods data).
- Data manager and Search for Next for handling your own personal address information. Detailed address information can be shown on the map with a single mouse-click.
- Traffic information for Germany, Austria, UK, Belgium, Netherlands.
- The Road Editor allows users to individually close roads and assign custom road segment attributes, enabling them to calculate routes tailored to each vehicle type.
- The "Add route marker point" feature makes planning routes easier: Drivers do not have to pass directly by the marker point on the list of stop-off points; instead, they just have to drive within a certain radius of the marker point. This enables users to specify a general route without requiring drivers to visit the additional marker point directly.
- Ferry ports can be selected as stop-off points and included in the itinerary. The "Show nearby ferries" feature shows all nearby ferry connections.
- Individual point-to-point routes can be sent by e-mail.
- Microsoft Office plug-in: Addresses can be imported directly from Microsoft Excel and used in route planning. Map sections can be pasted into Microsoft Word documents at the push of a button.

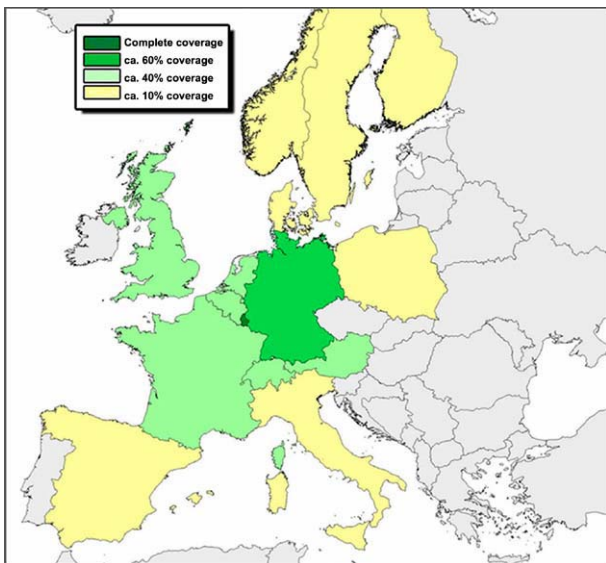
- Additional points of interest such as UTA or ROUTEX acceptance sites, service stations, parking areas, truck wash centers, churches, train stations and toll terminals help you find your bearings and provide important location-based information. Includes online hotel reservation throughout Europe.

Truck and hazardous goods data

In map&guide professional 2009, all data for truck and hazardous goods planning is based on the truck attributes from NAVTEQ Transport. The material includes the truck attributes that NAVTEQ calls "Physical Restrictions" - height restrictions or permitted total weight, for example - as well as no-through roads, temporary closures and hazardous materials restrictions. The warnings from NAVTEQ Transport - steep hill, for example - are shown as symbols on the map and the itinerary.



map&guide professional 2009 – truck attributes (selection)



Coverage of NAVTEQ Transport

Use case 1: Calculating distances and costs

Industrial enterprises, public authorities and transportation and logistics providers often use map&guide distance kilometers for billing purposes.

This puts quotations, cost estimates and audits on a solid foundation and makes them transparent for all stakeholders. Calculations are based on vehicle-specific properties and the latest map&guide map material.

Distance and cost calculation at a glance

1. Create cost profile: You only need to enter the costs associated with your vehicles once - e.g., fixed costs, variable costs, and other vehicle-specific data.
2. Route planning and costing: Now you can plan your routes (and alternate routes). The associated transport costs are calculated at the same time.
3. Quotations, billing, issuing invoices and credit notes, verifying transport costs: The distances calculated by map&guide professional and the associated costs can be used as a basis for quotations and invoices. And if you offer fixed prices for services such as customer calls or shipments, you can also check whether you're covering your own costs.



Use case 2: Calculating toll costs using the official toll tables

It doesn't matter whether you transport your goods yourself or outsource to forwarding companies - map&guide professional will calculate your truck toll costs and include them in the total transport costs.

- Exact truck toll calculation for Germany, Austria, Switzerland, France, Czech Republic, and Liechtenstein.
- Average toll calculation for Italy, Spain, Portugal, Greece, Croatia, Slovenia, Macedonia, Turkey

Avoiding toll roads

map&guide professional knows where on the road the manual toll terminals are located for logging in manually. map&guide professional can avoid toll roads if requested. With a route comparison, you can instantly see whether a detour is worthwhile or a time-waster.

Special toll roads

map&guide professional knows which roads charge a special toll, e.g., tunnels and bridges, in Germany, Austria and other places.

Country	Notes	Toll road	Toll	Special toll	Total toll costs
Belgium	1)	0.00 km	0.00 €	0.00 €	0.00 €
Luxembourg	1)	0.00 km	0.00 €	0.00 €	0.00 €
France		1.03 km	0.00 €	25.12 €	25.12 €
Switzerland	7), 8)	289.59 km	56.68 €	0.00 €	56.68 €
Italy		454.07 km	20.87 €	0.00 €	20.87 €
Austria	2), 3)	109.30 km	10.54 €	22.08 €	32.63 €
Germany		336.00 km	58.19 €	0.00 €	58.19 €

Country	Description	Costs
France	Maurice Lemaire tunnel	25.12 €
Austria	Brenner motorway A13	22.08 €

Toll	146.28	€
+ Special Toll	47.20	€
= Toll Costs	193.49	€
+ Route Costs	4130.04	€
= Total Costs	4323.53	€

Book German toll roads online

Your trucks don't have on-board units yet? Do you occasionally use rental vehicles? Toll Collect online lets you book your routes directly in map&guide professional. Of course, you must be registered with Toll Collect first. For more information, visit www.tollcollect.de

Always up to date

The Live Update function tells you when there's a new toll table available for download. That way, you'll always be up to date.

Use case 3: Calculating CO2 and other emissions

Many transportation firms are already developing environmental strategies to prepare for future legislation and to demonstrate to clients and the public that they take their responsibility and commitment to climate protection seriously.

The new version of map&guide professional is the first-ever route planning software to provide a precise analysis of the CO2 and other pollutants emitted by each of your trucks on each driven route. The analyses are based on data from the Handbook Emission Factors for Road Transport (HBEFA 2.1), the result of research projects and measurement series initiated by the environmental agencies of Germany, Austria and Switzerland. The data for map&guide professional is provided for each transport class, weight, fuel type, emissions class and traffic situation.

Calculating CO2 with map&guide professional 2009

You can only calculate CO2 accurately if the following vehicle parameters are entered correctly: transport class, weight, emissions class, fuel type and particle filter. The software then shows in the route summary how much CO2 was emitted by a certain vehicle on a certain route.

Route	Col...	Route Le...	Route Co...	Time	Toll Roads	Toll Costs	Total Costs	CO2
Default		94.47 km	214.21 €	1:27 h	84.30 km	14.61 €	228.82 €	44.71 kg
Route 1		110.65 km	289.31 €	2:28 h	9.70 km	1.68 €	290.99 €	50.19 kg

Calculating emissions of other pollutants

In addition to CO2, map&guide professional calculates the emissions of carbon monoxide, hydrocarbons, NOx, particulates, sulphur dioxide, methane, non-methane, benzene, methylbenzene, xylol, ammonia and nitrous oxide. All the calculation results are clearly documented in the itinerary or in a special pollutant emissions report.

Emission details *							
	km	CO	HC	NOx	CO2	CH4	
Total	1841.1	1.18 kg	322.71 g	6.69 kg	857.51 kg	7.75 g	
- urban	41.33	60.76 g	16.41 g	209.84 g	22.36 kg	0.39 g	
- suburban	89.27	67.48 g	13.76 g	325.72 g	37.43 kg	0.33 g	
- Motorways	1710.54	1.05 kg	292.55 g	6.16 kg	797.72 kg	7.02 g	

Route-related emissions							
	Description	km	CO	HC	NOx	CO2	CH4
Start	B 3500 At Hasselt Bampslaen	0	-	-	-	-	-
Stop-off point 1	F 54270 At Essey-lès-Nancy / La Hurte	334.9	211.21 g	58.30 g	1.21 kg	156.13 kg	1.40 g
Stop-off point 2	I 142040 At Reggio Nell'Emilia / Cella Via due Gugno	703.0	455.69 g	122.76 g	2.56 kg	325.67 kg	2.95 g
Stop-off point 3	D 90429 At Nürnberg Praterstraße	708.7	444.20 g	123.43 g	2.57 kg	330.99 kg	2.96 g
Destination	D 85049 At Ingolstadt Oberer Graben	94.5	65.95 g	18.23 g	353.79 g	44.71 kg	0.44 g



Use case 4: Accounting for remaining driving and shift times

map&guide professional considers the remaining driving and shift times when calculating appointment-based routes. That way, routes can be realistically planned around break times that are legally required at certain stages in each trip. This feature helps transportation companies conform to new worker safety regulations. Now, they can plan highly optimized routes and appointments while remaining in compliance.

map&guide professional is an essential tool for OSH-compliant planning, especially when planning multi-day routes or routes on a tight schedule.

Symbol	Cou...	Map	Date	Time	km	Description	Direction	Diff...
⊖	L	✓	26/02/2009	12:17	199.6	at B - L border continue straight on A6/E25	interchange Croix de	19.7
⊖	L	✓	26/02/2009	12:36	219.3	at interchange Croix de Gasperich keep right	Livange/A3/Saarbrüd	12.6
⊖	F	✓	26/02/2009	12:48	232.0	at L - F border continue straight on A31/E25	merging point Autoro	47.0
⊕	F	✓	26/02/2009	13:34	279.0	continue straight on A31/E21/E23		44.0
⊖	F	✓	26/02/2009	15:01	323.0	at junction Voie Express Banlieue-Est/Bouxièr	Parc Nancy-Pompey-t	2.8
⊖	F	✓	26/02/2009	15:06	325.8	turn left on to Rue de Bouxières-aux-Dames		1.2
⊖	F	✓	26/02/2009	15:09	327.0	in Lay-Saint-Christophe turn left on to Rue de		0.1
⊖	F	✓	26/02/2009	15:09	327.1	turn right on to Rue du Baron de Courcelles		0.3
⊖	F	✓	26/02/2009	15:10	327.4	turn right on to Rue d'Eulmont		3.8

Easy-to-follow planning of driving breaks and rest periods

Drivers will get even more help from a new feature in map&guide professional: Schedulers can now find parking areas that will fall on or near the route during the calculated rest periods. Schedulers can tell the drivers about the rest stops by phone or add them to the itinerary.

Map material

With our 15 years of experience, we know you need top-quality maps to develop top-quality map-based software.

That is why our map departments always refine the premium map data we receive from several suppliers including NAVTEQ, the European market leader. With every new map release, you receive improved and updated map material. On average, every release contains 20% more map data than the previous version.

New map material included in map&guide professional 2009:

- New map packages
- Available truck data
- New map detail levels

Map detail levels:

 Detailed Network

The best available road network (incl. entire road network from NAVTEQ and other providers). Detailed Network comes with City level maps, for example.

 Major Roads Network

Interurban network with the most important main roads, all cities and towns (location points) in Europe

 Transit Network

Rough interurban network of the most important cities and towns in Europe

Please note that tolls can only be calculated on Detailed Network maps. Restrictions apply to the use of truck data and ferry connections when planning routes in the Transit Network or Major Roads Network.



Map packages

DACH City

- D, A, CH, Liechtenstein with City level (Detailed Network) plus European interurban network for all countries not included with City level (Transit Network)



DACH City map:
Detailed Network (red)
Transit Network (light gray)

Europe

- All of Europe on one map. Includes cities with major roads down to main road level (Major Roads Network).



Europe map: Major Roads Network (dark gray)

Central Europe City

- D, A, CH, France, Belgium, Netherlands, Luxembourg, Italy, Denmark, Liechtenstein, Czech Republic and Poland with City level (Detailed Network)
- Plus Major Roads Network (interurban network with the most important main roads, all cities and towns (location points) in Europe)



Central Europe City map:
Detailed Network (red)
Major Roads Network (dark gray)

Europe City

- Austria, Benelux, Czech Republic, France, Germany, Great Britain, Ireland, Italy, Poland, Portugal, Scandinavia, Spain, Switzerland - including city maps (if available) (Detailed Network)
- Plus Major Roads Network (interurban network with the major main roads, all cities and towns (location points) in Europe)



Europe City map:
Detailed Network (red)
Major Roads Network (dark gray)



Other map material

In addition to our standard map packages, we offer other map packages with detailed city maps so your map basis is as efficient as possible and tailored to your specific needs.

- Benelux City
- Great Britain and Ireland City
- Scandinavia City
- Italy City
- Spain and Portugal City
- France City
- Poland City
- USA City: U.S. with detailed city maps.
- World: basic road network that covers the entire world. Available on request.

Additional maps are available on request.

Points of interest (POI)

Over 500,000 POIs make it easier to plan pan-European routes. The map shows service stations, rest areas, parking garages, ferry ports, conference centers, industrial districts and airports. However, it also includes Varta Hotels, tourist sights, shopping centers, lakes, woods, and rivers.

System requirements

Operating system: Windows 2000, 2003, XP, Vista 32-Bit (subject to restrictions, please see our online FAQs at www.mapandguide.info for more information)

Computer types: Current-generation computers

Processors: Current Pentium IV processors
Min. 1.3 GHz. 3 GHz recommended.

RAM: Min. 1 GB, 2 GB recommended

Disk space: Min. 3 GB available space (depending on the map and altitude profile data used, 9 GB required for Europe City)

Video adapter: Min. VGA (1024 x 768), 16 million colors, 1280 x 1024 or higher recommended

Printer: All printer drivers supported by Microsoft Windows

Drives: DVD drive

Other: Internet access and Internet Explorer 4 or higher is required for installation and when using traffic information and automatic booking with Toll Collect; an email client is required for sending maps and itineraries.

Only 32-bit systems are supported. Different system requirements apply for network implementation.

Further information

We'd be delighted to answer your questions:

- Phone +31 (0)346 581 600
- Email: info@ptvbenelux.com

Mon - Fri 9 a.m. to 5 p.m. (CET)

You can also find more information online at:

www.ptvbenelux.com

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