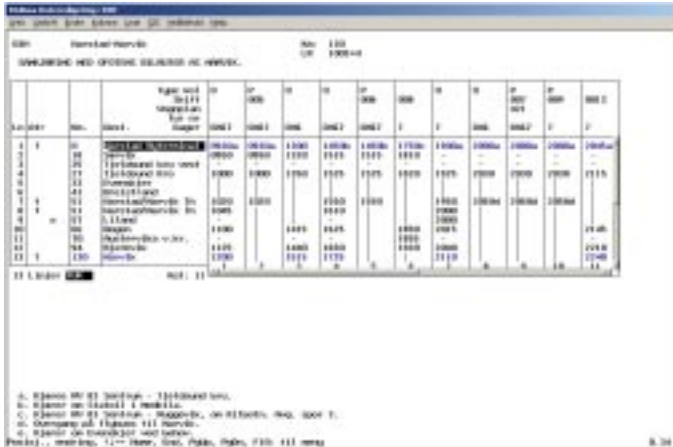


# DGBuss

## Planning of timetables and duties

Since 1988 DataGrafikk has installed more than 100 copies of PC-Ruter and PC-Plan in 5 countries. Based on this experience we developed DGBuss; an integrated system for planning of timetables and daily running. The system is designed to cover the needs of small and large public transportation companies, and the emphasis lies on a interface that gives a good overview and makes it easy to operate the program.



### Timetable-planning

The timetable-planning module is a flexible tool where you can choose to enter the schedules manually or use advanced calculation-functions to prepare departures and timetables. The timetables are integrated with the Daily running-module to ensure a consistent and correct planning of all activities.

### Production of timetable-booklets

Based on the timetables it's possible to export the data to PageMaker where further designing of the timetables is possible, or you can use the new print-module which generates Pdf-files directly from the timetable-planning module.

### Production reports

The combination of route-, vehicle- and shift-planning can form the basis for many different reports, plans and models, such as detailed production-reports for each trip, or accumulated production-plans based on production-matrices (production per vehicle and group of routes).

### Export-modules

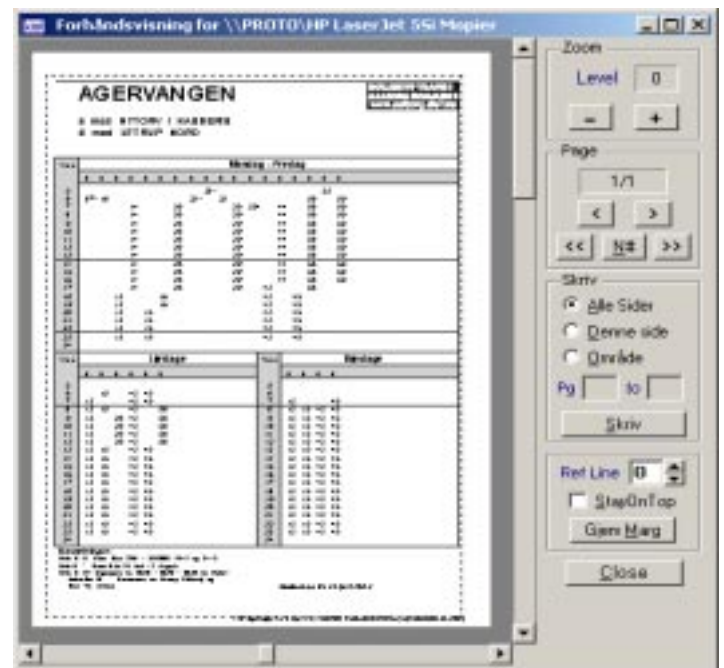
The timetables also form the basis for data export to the standard formats (RegTopp) and ERN (Norwegian Travel-information), plus export to several ticketing- and realtime information-systems.

### Timetables on public transport-stops

The system can be connected to advanced information-signs (for terminals/stops), where you can specify an unlimited number of signs that will be generated every time you change to a new production-period. Aalborg and Odense City-traffic in Denmark each produces about 1500 different signs using this system. The signs can also be made available to the public through Pdf-files on the internet.



Example of data used in TravelMagic, interactive travel planner on the Internet. The data are on the RegTopp-format, and are available to the public through TravelMagic on the Internet.



The graphic signs are available in 5 different layouts. The designs can be adjusted to the clients' needs. The results are shown in the preview in the printing-module.

## Vehicle- and duty-planning

Based on timetable-information the trips can be connected to duty- and vehicle-plans. Changes can be made either in the timetable-module or the Daily Running-module, and the consistency is secured by a joint integrated database.

You can use graphic images to visualize the plans that are also used as basis for the detailed planning. The system will calculate working hours and other elements used as basis for payment in the Daily Running-module.

| FRA         | RNR | R.var | AVG  | SPOR | Dager | TIL         | ANK  | TNR | 10 M | MERKNAD              | T.T |
|-------------|-----|-------|------|------|-------|-------------|------|-----|------|----------------------|-----|
|             | 440 |       | 0710 |      | D067  |             | 0730 | FM  |      | Fremfartsskikk...    | 0   |
| LAKBELV RB  | 440 |       | 0730 |      | D067  | Handelsbukt | 0745 |     | 2000 |                      | 0   |
| Handelsbukt | 440 |       | 0745 |      | D067  | LAKBELV RB  | 0830 |     | 2000 |                      | 0   |
|             |     |       | 0830 |      | 2     |             | 0910 | ST  |      | Rengjøring           | 0   |
|             |     |       | 0910 |      | 2     |             | 1110 | SP  |      | Spisepause           | 0   |
|             | 440 |       | 1110 |      | 1235  |             | 1120 | TK  |      |                      | 0   |
| Skolen      | 440 |       | 1120 |      | 1235  | Handelsbukt | 1200 |     | 1800 | Se kjøreplan rute... | 0   |
|             |     |       | 1300 |      | 3     |             | 1400 | TV  |      | Vannmann arbeid      | 0   |

## Roster-planning

When the duty-planning is completed, the duties can be used for creating working-plans, through the roster-module. In this module you can combine either fixed or revolving rosters in a chosen number of weeks, f.ex. four drivers on a four weeks roster, one driver on a six weeks roster etc. The system will calculate working hours continuously, as the roster is composed.

## Daily Running

Public transport companies spend a lot of their resources on organizing and executing the daily traffic. Handling extra duties, sick leaves, etc., and producing correct lists for payment can be very time-consuming. The Daily Running-module is developed for making this work easy and efficient for the traffic-leaders. The system will provide correct lists of working hours, ready to be processed by the payment-system.

## Other integration possibilities

DGBuss can be integrated with dGis, where you place the stops in electronic maps and define the routes. These data can be used for calculation of production-data in DGBuss.

By combining data from the Daily Running-module in DGBuss with data from the coach-system DGTempus, you can get an overview of all the driving assignments, both route- and touring bus-activities.

This is an advantage for the companies that run both these services.

Also data from PCRuter/PCPlan can easily be imported to DGBuss.

DGBuss is a system that is based on modules, which means you only have to buy the modules you need.

## DataGrafikk a.s

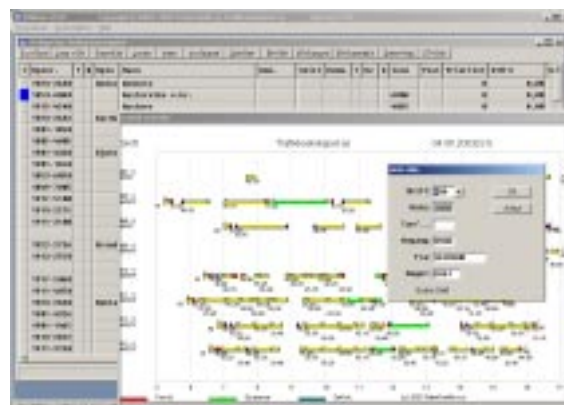
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Graphic planning of duties/vehicles. A list of all the stops lies in the background.



This is an example from DGTempus, where you can find both route- and touring bus-activities in the same Gantt-diagram.