



# FleetPlan

## Fleet planning and information system

### FleetPlan application

The FleetPlan application has been developed by HMC in co-operation with Seatrade Reefer Chartering in Antwerp, Belgium. FleetPlan can generate optimised Fleet schedules on a daily basis with a horizon up to several months to be specified by the user for each commodity and ship type. Schedules can be printed in full colour. The flexible database can store a broad range of ship and cargo data. The database can be filled with data from another system using an import module. The database is both applied for storage of historical data as well as for the data required for the generating of the Fleet schedule.

FleetPlan can be used to keep several types of information on vessels and cargoes. This information can be used to schedule these vessels by hand. Cargoes can be planned on a vessels using drag-and-drop functionality. A mathematical model is used to generate schedules automatically. For on line positions of the vessels user can connect to the satellite communication module. These on line positions of the vessels improve the schedule that are generated by the user or by the system. Each voyage in the schedule is represented by a detailed voyage calculation. All voyage calculations in the schedule are processed into result indicators which give an idea of the quality of the schedule.

### Optimisation algorithm

FleetPlan incorporates an optimisation algorithm that generates optimised Fleet schedules. The user can adjust a schedule generated by FleetPlan, in an interactive manner; FleetPlan reverts with messages whether manual adjustments are feasible. The system can save and reload previous generated schedules for comparing schedules.

### Features of FleetPlan

- **Generate and optimise** a part or all of the **Fleet planning**, using an optimisation algorithm, thus more than just an electronic agenda.
- Possibility to **connect to other databases**.
- Incorporating **Geographic Information System for on line positions, route planning and optimisation**.
- The possibility for the user to specify or **adjust a schedule manually** on the screen and use FleetPlan for **evaluating a certain schedule** using indicators, thence a strong user interaction with the system.
- Database and system can **easily be adjusted** to users' requirements.

