Routes

FleeTrak Monitor provides an opportunity to track a unit being on route and supposed to visit definite check points in predefined or arbitrary order, at definite time or without any strict schedule.

To understand how routes work, three notions are important: route, schedule, and round.

Route is a set of check points, each characterized by its location on map. The number of check points in a route is unlimited.

Schedule is a timetable which holds the time of visit for each point. One route can have many schedules attached to it.

Round is a route, its schedule and assigned unit as a whole.

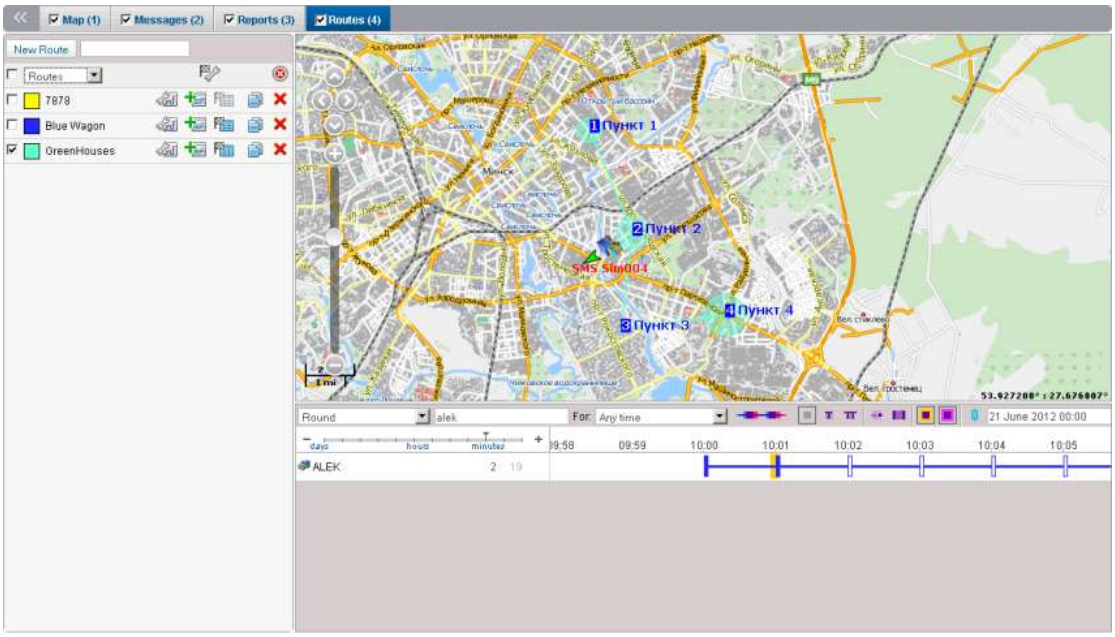
To create a route, perform the following steps:

1. Create a route itself, i.e. mark check point on map.
2. Create one or more schedules for this route.
3. Assign rounds manually or adjust automatic creation of rounds.

After creating the route, you can analyze the unit performance on route by various means:

1. In a specially designed online timeline.
2. In reports.
3. Get notifications about round progress.

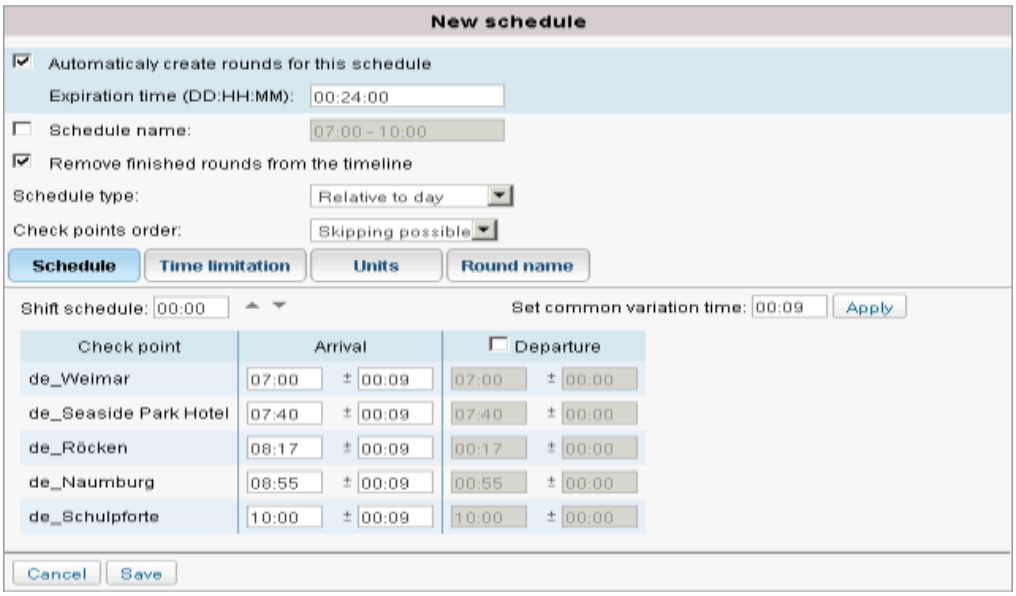
To work with routes, open the *Routes* panel. Here you can configure routes and observe the progress of active rounds.



How to Schedule a Route

A schedule is a list of route check points with times of their intended visit. One route can have unlimited number of schedules. Different schedules can be applied in odd and even days, at weekends and week days, in different months, etc.

To create a schedule for a route, press the *Add schedule* button against this route and adjust required parameters.



General parameters

- *Automatically create rounds for this schedule*: Rounds can be created automatically without any assistance of a dispatcher. When the time draws near the first point visit, the round is activated and the system starts to track it. This option works only with *Relative to day* schedule type.
- *Expiration time (DD:HH:MM)*: This is time after which the round (if not finished) will be finished forcibly and obtain the *Aborted* status.
- *Schedule name*: You can use automatically generated name for the schedule. It is composed of first point time and last point time or it can be 'Copy of …' if the schedule is created using the copying method. However, you can give schedule any desired name if you put the checkbox before its name.
- *Remove finished rounds from the timeline*: It is advisable to tick this option. Otherwise, finished rounds will remain on the timeline and soon will become too numerous and difficult to navigate through them.

Schedule type

- *Relative to activation*: Scheduled time of point visit will refer to time from round beginning. Such schedule can be used at any time.
- *Relative to day*: Scheduled time of point visit will refer to time of day. Such schedule can be used in different days (once in a day).
- *Absolute*: Scheduled time of point visit includes also a date. Such schedule can be used only once.

Check points order

This parameter is extremely important for route control.

- *Strict*: All check points are supposed to be visited in the sequence order they are placed in the route. No skipping is allowed. It means, while we are waiting for the arrival to the Point #3, any visits to other check points are ignored if they happen. The route is considered as finished when unit (after visiting all points) enters the last check point.
- *Skipping possible*: Check points are supposed to be visited in the default order; however, it is possible that unit would visit not all of them. If after the visit to the Point #2 the unit gets to the Point #4, then the Point #3 is considered as skipped (even if visited later). The round is estimated as finished when a unit enters the last check point, and it does not matter how many of other points it has visited.
- *Arbitrary*: Check points can be visited in any order but only when all of them are visited, the routes finishes.

Schedule grid

Here you see the list of all check points contained in the route and times of their visit. Visit time can indicate only arrival or both arrival and departure. Besides, you can set variation time to give unit some degree of freedom to visit the point (like plus or minus 5 minutes). Time format here is *hh:mm*.

Enter arrival time for each check point. To indicate departure time as well, tick this option to activate it. Variation time can be set automatically. Enter value into the appropriate box and press *Apply*.

If time is set to 00:00; then any visit to the point at any time will be considered as perfectly in accordance with the schedule (not late, not early).

If a route is going to have arbitrary points order, you can indicate time interval within which each check point should be visited. It is especially convenient for delivery services and the like. For example, a point should be visited between 18:00 and 20:00. Then write 18:00 as arrival time and 20:00 as departure time. At that, time variations should be zero.

Time limitation

Time limitations can be applied to restrict its operation to scheduled time intervals, days of the week, days of the month or months. For example, you can select only event or odd days or only working hours of week days, etc. Note that this option does not work with *Absolute* schedule type.

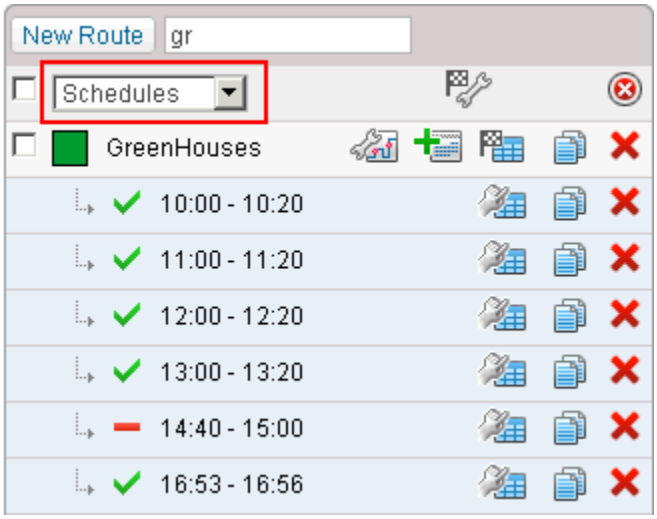
Units

Choose unit(s) to be assigned to this schedule and thus create rounds. Required access is *Use unit in retranslators, jobs, and notifications*. If several units are chosen, the first that begins the round will be assigned.

Round name

Here you can set name that will be applied to rounds created on the basis of this schedule do differentiate it from other rounds. Special tags can be used to form the name:

- %ROUTE% – route name;
- %SCHEDULE% – schedule name;
- %FIRSTPOINT% – first check point name;
- %LASTPOINT% – last check point name;
- %DATE% – date of round creation;
- %TIME% – time of round creation.



When you have configured the first schedule, others can be easily created by copying and shifting. Press the *Copy schedule* button against necessary schedule and alter some parameters. Enter shifting time (hh:mm) and press up or down icon (shift schedule upwards or backwards in time). Besides, you may want to change schedule name.

How to Manage a Route

Routes in the panel are listed in the alphabetical order. To quickly find a definite route, use the dynamic filter situated above the list. Enter route name or its part and observe the results.

In the dropdown list above the list, you can choose how routes are displayed:

- *Routes*: the simplest list of routes without any sublevels.
- *Schedules*: routes and their schedules.
- *Check point:* routes and their check points.
- *Active units*: routes and units which are currently performing them.

The following icons are used in the panel:
– edit route i.e. change its name, description, colour, and check points radius;
– add a new schedule for this route;
– copy route i.e. create a new route on the basis of chosen one;
– delete a route or a schedule;