

# FMB641 GSM Operators settings

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FMB641 can work in different modes (use different settings) according to the operator list defined. Operator list is used for Data Acquisition Mode switching (see [Data acquisition settings](#) section for more details). Modes are changed based on GSM operator FMB641 is connected to.

The screenshot shows the 'GSM Operators' settings page. The sidebar menu on the left is as follows:

- Security
- System
- GPRS
- Data Acquisition
- SMS \ Call Settings
- SMS Events
- GSM Operators**
- Features
- Accelerometer Features
- Auto Geofence
- Manual Geofence Settings
- Manual Geofence Zones
- Trip \ Odometer
- Bluetooth
- iButton List
- I/O
- LVCAN
- FMS IO
- Manual CAN IO
- Tachograph Data
- RS232 \ RS485
- CAN \ Tachograph

The main content area contains three operator lists:

- SIM1 Roaming Operator List**: A table with 20 rows, each with a number (1-20) and a field for the operator name. Below the table are 'Import CSV' and 'Export CSV' buttons.
- SIM2 Roaming/Home Operator List**: A table with 20 rows, each with a number (1-20) and a field for the operator name. Below the table are 'Import CSV' and 'Export CSV' buttons.
- Operator Black List**: A table with 20 rows, each with a number (1-20) and a field for the operator name. Below the table are 'Import CSV' and 'Export CSV' buttons.

If roaming operator list is left empty, FMB641 will automatically detect home operator. If home operator is written to the roaming operator list, it will still be detected as home operator. Any operator not in the roaming operator list (except the home operator) will be recognized as unknown operator and FMB641 will work in Unknown mode (make sure it is configured to allow data sending - GPRS context is enabled).

If user wants FMB641 to not connect and work with a particular operator it has to be written to *Operator Blacklist*. Up to 50 operators may be entered to this list.

Operator search procedure is initiated as normal every 15 minutes and tries to connect to an operator providing the strongest signal. It will prioritize operators which are specified in the operator list. If no operators from the operator list are available, the device will try to connect to an operator from the blacklist. If device connects to an operator from the blacklist, best operator search procedure is initiated instantly. During the time when device is connected to blacklisted operator no GPRS connection would be initiated and no data would be sent via GPRS. However, the ability to send SMS commands to the device would remain. If no suitable operator is found on both lists, the device will try to connect to a remaining available operator with the strongest signal.