

# FMC800 GSM Operators settings

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## GSM settings

### Operator lists

FMC800 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 the GSM operator FMC800 is connected to.

The screenshot shows the 'GSM Settings' configuration page. On the left is a sidebar with menu items: Security, System, GPRS, Data Acquisition, SMS \ Call Settings, GSM Operators (highlighted), Features, Accelerometer Features, Auto Geofence, Manual Geofence, Trip \ Odometer, Bluetooth, Bluetooth 4.0, Beacon List, 1-Wire, I/O, OBD II, CAN Adapter, and RS232 \ RS485. The main content area is titled 'GSM Settings' and contains two side-by-side tables. The 'Roaming Operator List' table has 20 rows, each with a number (1-20) and a text input field. Below it are 'Import CSV' and 'Export CSV' buttons. The 'Operator Black List' table also has 20 rows with numbers (1-20) and text input fields, and similar 'Import CSV' and 'Export CSV' buttons. A mouse cursor is pointing at the 'Operator Black List' table. At the bottom of the page is a blue footer bar with social media icons and a gear icon for settings.

**Configuring device roaming and blacklist operators is recommended to optimize device performance by mitigating additional latency.**

If the roaming operator list is left empty, FMC800 will automatically detect the home operator. If the home operator is written to the roaming operator list, it will still be detected as a home operator. Any operator not in the roaming operator list (except the home operator) will be recognized as an unknown operator and FMC800 will work in Unknown mode (make sure it is configured to allow data sending - GPRS context is enabled).

If the user wants FMC800 to not connect and work with a particular operator it has to be written to *Operator Blacklist*. Up to 50 operators may be entered into this list.

The Operator search procedure is initiated every 15 minutes. During the search, FMC800 tries to connect to the operator providing the strongest signal. It will prioritize operators that 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 the device connects to an operator from the blacklist, the best operator search procedure is initiated instantly. During the time when the device is connected to a

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.