

FM3001 GSM Operators settings

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GSM settings

Operator lists

FM3001 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 FM3001 is connected to.

The screenshot displays the 'GSM Settings' configuration page. On the left, a sidebar menu lists various system settings, with 'GSM Operators' selected. The main content area is divided into two sections: 'Roaming Operator List' and 'Operator Black List'. Each section contains a table with 20 rows, numbered 1 to 20, and a text input field for each row. Below each table are 'Import CSV' and 'Export CSV' buttons. The 'Roaming Operator List' is currently empty, and the 'Operator Black List' is also empty. A mouse cursor is visible over the 'Operator Black List' input field.

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

If the roaming operator list is left empty, FM3001 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 FM3001 will work in Unknown mode (make sure it is configured to allow data sending – GPRS context is enabled).

If the user wants FM3001 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, FM3001 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.