

**OMNICO**MM

# Remote Configuration Server

User Manual

19.12.2018

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# Remote Configuration Server

1 SUMMARY The user manual describes how to change terminal configurations remotely.

## 1.1 TERMS AND DEFINITIONS

OS — operating system;

PC— personal computer;

SW — software;

VH — transportation vehicle;

CAN (Controller Area Network — controller network) — standard of an industrial network mainly designed to unite various execution units and sensors in one network;

EGTS –EGTS protocol (Era Glonass Telematics Standard);

iButton — set of devices designed to identify the driver;

IMEI — (International Mobile Equipment Identity) — international identifier of mobile equipment;

GPS — (Global Positioning System) — satellite-based navigation system;

GPRS — (General Packet Radio Service — public packet radio service) — customization of mobile communication technology GSM performing packet data transmission;

GSM — (Global System for Mobile Communications) — global digital standard for mobile cellular communication;

PGN (Parameter Group Number) — parameter group number determining the content of the respective message according to SAE J1939;

SIM 1 — SIM-card installed in the slot on the external side of the terminal;

SIM 2 — for Omnicomm Optim 2.0 terminals — a SIM-card installed in the slot inside the terminal, i.e. during the case opening, or for Profi 2.0 — a SIM-chip;

SPN — parameter code according to SAE J1939.

Workstation	Hardware	Software
User	Personal computer with internet access	OS Windows XP or Windows Vista, Linux. Browsers (versions of at least) Mozilla 2.X, Opera 9.

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## CONNECTING TO REMOTE CONFIGURATION SERVER

### 1.3 USER QUALIFICATION REQUIREMENTS Advanced user

## CONNECTING TO REMOTE CONFIGURATION SERVER

To connect to the configuration server, open the browser and enter the following address in the address line <http://config.omnicomm.ru:9911/#en> Terminal authentication screen opens (Figure 1).6.

Terminal ID	Last connection time	Firmware version	Settings version	Last settings change	Tasks queue	Last record No.	Last conn with CS
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## PREPARING TERMINALS TO WORK WITH THE REMOTE CONFIGURATION SERVER

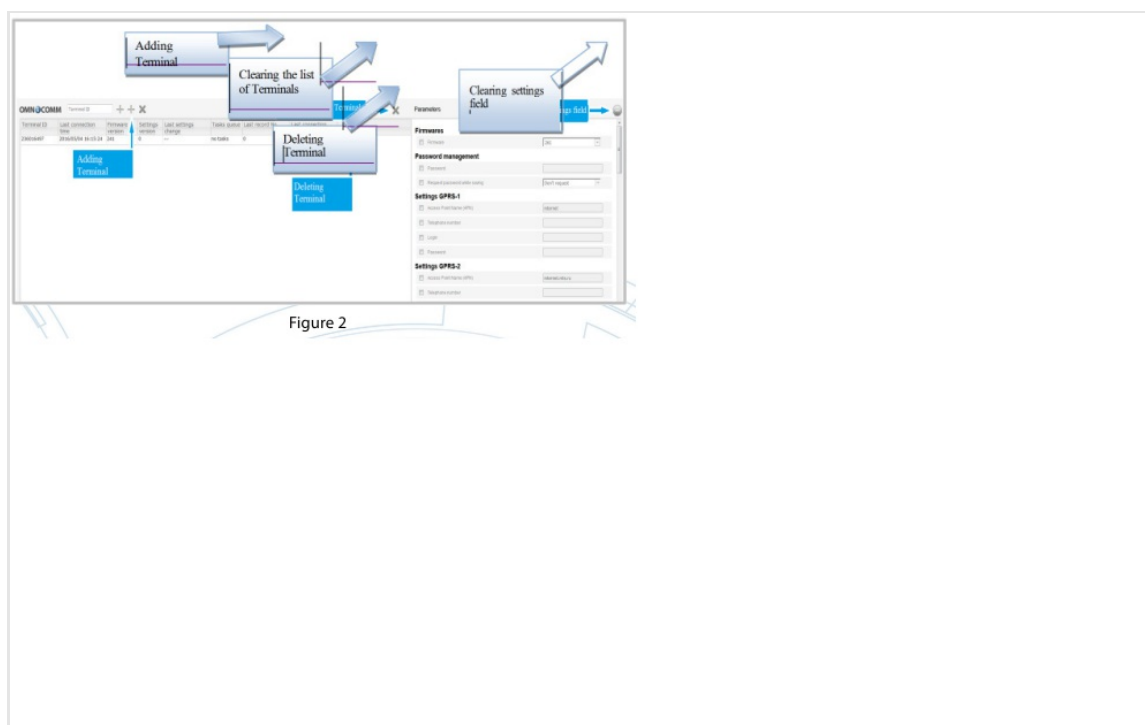
Update the firmware version to omnicomm\_131.ofw or higher. Set a password in the terminal to change the terminal settings with the help of Omnicomm Configurator while connecting to the PC, or change the default password remotely with the help of the following SMS-command: \*SETPWDID 235009988 12345# where 235009988 — terminal ID, 12345 — password to be set in the terminal. It may comprise letters and digits and must contain 8 characters maximum. The default password is a blank line.

Important! It is impossible to change a previously set password with the help of the SMS-command. Within 6 hours after the password is set, the terminal will perform authentication on the remote configuration server and will become available for operation on the remote configuration server.

## NAVIGATING REMOTE CONFIGURATION SERVER

The main screen of the remote configuration server (Figure 2).

## ADDING TERMINALS TO CHANGE SETTINGS



## ADDING TERMINALS TO CHANGE SETTINGS

To add terminals, in the screen (Figure 3): In the field "Terminal ID", enter the terminal identification number. In the field "Password", enter the password set in the terminal when configuring with the help of Omnicomm Configurator or through SMS-command.

Terminal ID	Last connection time	Firmware version	Settings version	Last settings change	Tasks queue	Last record No.	Last conn with CS

If, when configuring the terminal with the help of Omnicomm Configurator the password is not set, it will be impossible to change the terminal configuration with the help of the remote configuration server. To change the settings available only for some modifications of Omnicomm terminals, the Configuration server must contain only that modification of the terminals whose settings are to be changed. In the case that the list of terminals in the remote configuration server contains at least one terminal of another modification, only the parameters effective for all terminal modifications will be displayed. For example, if it is required to change the settings of the universal input of an Omnicomm Profi terminal and the configuration server is

## SETTING TERMINAL PARAMETERS

supplied with an Omnicomm Light terminal that does not support universal inputs, the section “Terminal parameter settings” will not display the universal input parameters.

## SETTING TERMINAL PARAMETERS

In the section “Terminal parameter settings”, tick the parameters to be recorded in the terminals. If there is no tick next to the parameter, its value will remain unchanged, i.e. as set up during previous settings.

## CHANGING BUILT-IN TERMINAL FIRMWARE VERSION

Select the firmware version to be uploaded to the terminals (Figure 4).



Figure 4

Firmware versions are uploaded to the remote configuration server by the Omnicomm technology support department.

## CHANGING PASSWORD TO RECORD SETTINGS IN TERMINAL

Select the firmware version to be uploaded to the terminals (Figure 4).

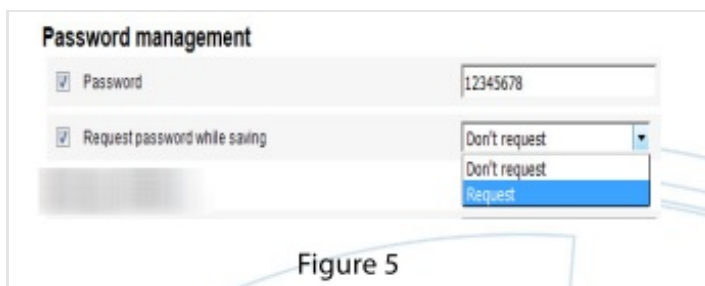


Figure 5

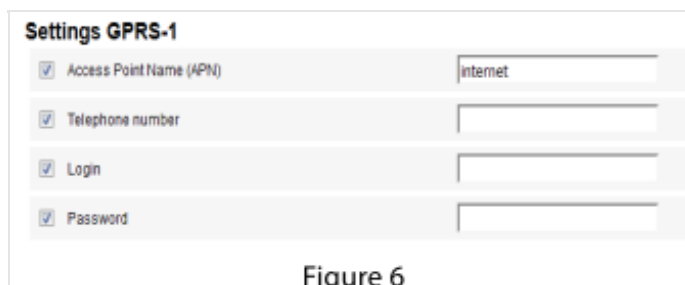
“Password” — enter a password to be used to change the terminal settings. The password must contain 8 characters maximum (Figure 5). “Request password while



## GPRS CONNECTION SETTINGS

saving” — select to/not to request password to change the terminal settings.

## GPRS CONNECTION SETTINGS



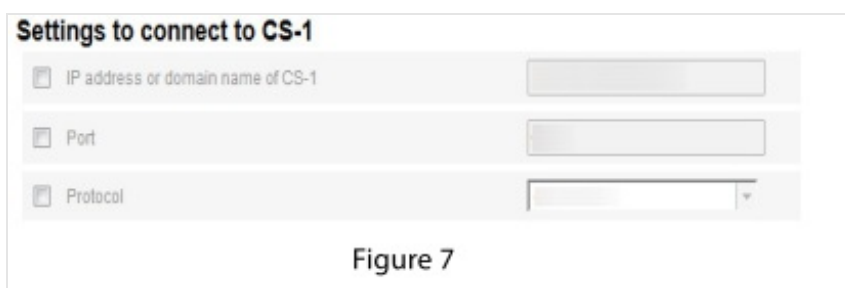
**Settings GPRS-1**

<input checked="" type="checkbox"/> Access Point Name (APN)	internet
<input checked="" type="checkbox"/> Telephone number	
<input checked="" type="checkbox"/> Login	
<input checked="" type="checkbox"/> Password	

Figure 6

“Access Point Name (APN)” — enter GPRS access point name (Figure 6). The GPRS access point name for operators can be obtained from the mobile operator whose SIM-card is installed in the terminal. “Telephone number” — number of the SIM-card installed in the terminal. “Login (APN)” and “Password (APN)” — if necessary, enter the login and password to access the point APN. A login and a password are supplied together with the SIM-card of the mobile operator.

## CHANGING SETTINGS OF TERMINAL CONNECTION TO COMMUNICATION SERVER



**Settings to connect to CS-1**

<input type="checkbox"/> IP address or domain name of CS-1	
<input type="checkbox"/> Port	
<input type="checkbox"/> Protocol	

Figure 7

“IP address or domain name CS 1” — enter the IP address or the domain name of the communication server (CS) with which the terminal (Figure 7) is operating. \*for Omnicomm clients — enter the domain name of the communication server cs.dc1.omnicomm.ru. “Port” — enter the port that the terminal will be using to connect to the communication server. \*for Omnicomm clients — enter port 9977. “Protocol” — select data transfer protocol to transfer data to the communication server. Possible options: Omnicomm or EGTS. If it is required to transfer data to the second communication server, fill in the connection settings to communication server 2.

## CHANGING EGTS PROTOCOL SETTINGS

# CHANGING EGTS PROTOCOL SETTINGS

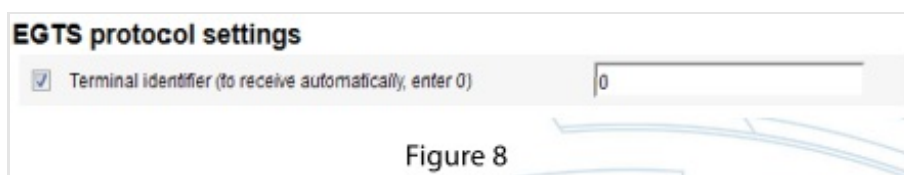


Figure 8

If while configuring data transfer using EGTS protocol it is required to use a terminal identifier TID (different from ID Omnicomm) or in the case that the server software receiving data using the EGTS protocol supports the TID assignment function, it is necessary to perform the respective settings.

## CHANGING DATA COLLECTION PARAMETERS



Figure 4

“Data collection timer” — set the terminal polling period for the modules and external devices connected to the terminal (Figure 9). Value range — from 15 to 240 sec.

“Collect data when ignition is off and main power on” — select (find more details in the Omnicomm Configurator User Manual or Omnicomm Terminals Operating Manual): — “Collect all data”; — “Collect data at jolting”; — “Collect all excluding GPS”.

“Adaptive data collection by changing directions” — switch on/off by selecting “On”/“Off”. Adaptive data collection improves track visualisation by way of additional data collection from the GPS-module more frequently than is set in the parameter “Data collection timer”. “Travelled distance data collection” allows the precision of VH location mapping to be increased by way of additional data collection from the GPS-module as relates to the distance travelled between events with fixed coordinates. Switching on the parameter “Travelled distance data collection” displays the field “Mileage between data collection points (m)”, where it is necessary to enter the value of the mileage achieved from the moment of the last recorded event with coordinates, after which data collection will be triggered. Possible values range from 10 to 1000. A default value is 100 meters.

## CHANGING PARAMETERS FOR ESTABLISHING TERMINALS CONNECTION WITH COMMUNICATION SERVER IN THE HOME NETWORK

# CHANGING PARAMETERS FOR ESTABLISHING TERMINALS CONNECTION WITH COMMUNICATION SERVER IN THE HOME NETWORK



Figure 4

“Data transfer interval to CS (min)” — enter the number of minutes after which the terminal must establish the connection with the communication server while being in the home network of the mobile operator (Figure 10). Recommended value — 10 minutes. Value range — from 2 to 65535.

## CHANGING ROAMING PARAMETERS FOR SIM-CARDS

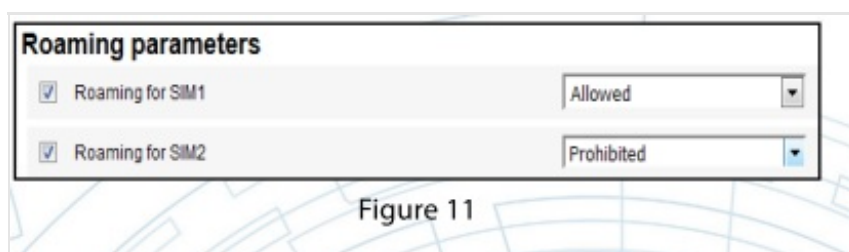


Figure 11

“Roaming parameters” — select SIM-card option to operate in roaming. Possible options are “Allowed”, “Prohibited” (Figure 11).

## CHANGING PARAMETERS FOR ESTABLISHING TERMINALS CONNECTION WITH COMMUNICATION SERVER IN ROAMING

## CHANGING COMMUNICATION PARAMETERS OF GSM AND SMS

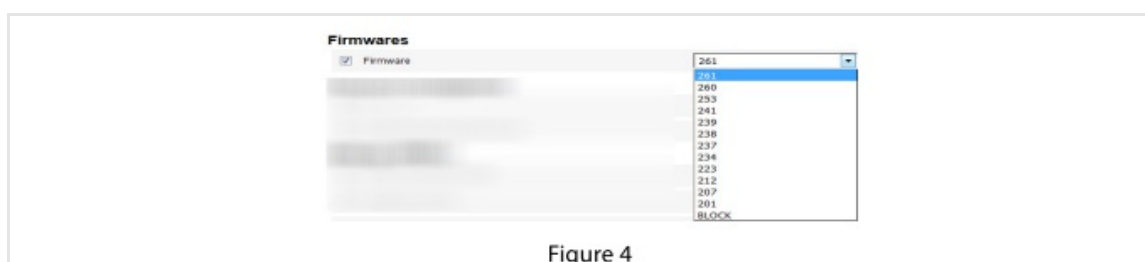


Figure 4

Select a criterion for establishing terminal connection with the CS: “Sending period (min)” or “Packet size (kb)” (Figure 12). “Period of data transfer to CS (min)” — enter the number of minutes upon expiry of which the terminal must establish the connection with the communication server being in roaming. Recommended value of “Period of data transfer to CS (min)” — 180 minutes. Value range — from 2 to 65535. “Data packet size to transfer to CS (kb)” — enter the data packet size upon reaching which the terminal must establish the connection with the communication server being in roaming. Recommended value of “Data packet size to transfer to CS (kb)” — 100 kb. Value range — from 1 to 1024.

## CHANGING COMMUNICATION PARAMETERS OF GSM AND SMS

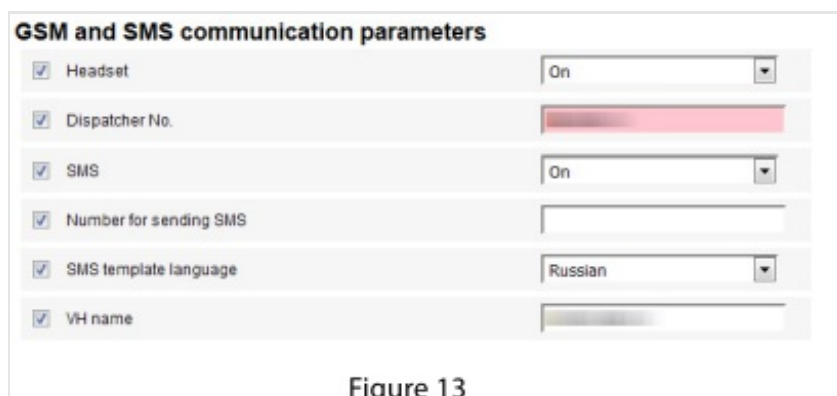
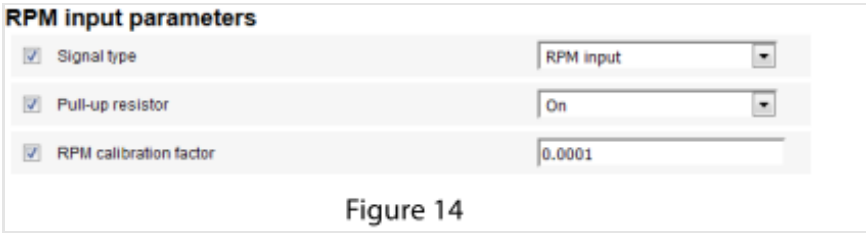


Figure 13

“Headset” — select “On” if an external headset is connected to the Omnicomm terminal. When the parameter “Headset” is on, the field “Dispatcher number” is displayed where it is required to enter the telephone number that the outgoing call will be addressing when the GSM call button is pressed. “SMS” — switch on/off the receiving of SMS-commands and sending of information messages by the terminal (Figure 13). When the parameter “SMS” is on, the following information is displayed: “Number for sending SMS” — enter the telephone number to which SMS with terminal and VH status information will be sent. “SMS template language” — select template language for SMS. Possible options: Russian, English, Portuguese, Spanish. “VH name” — enter the VH name. Filling in the field “VH name” is mandatory.

## CHANGING RPM INPUT PARAMETERS

# CHANGING RPM INPUT PARAMETERS



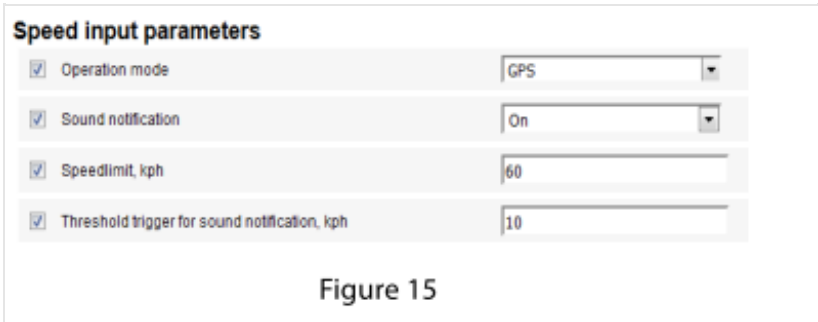
**RPM input parameters**

<input checked="" type="checkbox"/> Signal type	RPM input
<input checked="" type="checkbox"/> Pull-up resistor	On
<input checked="" type="checkbox"/> RPM calibration factor	0.0001

Figure 14

Depending on the terminals added to the configuration server, the minimum accessible parameter values are displayed. “Signal type” — select signal type (Figure 14). Possible values: “Off”, “Ignition key”, “CAN-bus”, “RPM input” (find more details in Omnicomm Configurator User Manual or Omnicomm Terminals Operating Manual). To check the presence of a signal, the field “Current RPM value” must display a value other than zero. In the absence of a signal, switch on the pull-up resistor by selecting “On” in the respective field. “RPM calibration factor” — enter the calibration factor value. Possible values: from 0.00001 to 10000.00000 within the accuracy of 0.00001.

## CHANGING SPEED INPUT PARAMETERS



**Speed input parameters**

<input checked="" type="checkbox"/> Operation mode	GPS
<input checked="" type="checkbox"/> Sound notification	On
<input checked="" type="checkbox"/> Speed limit, kph	60
<input checked="" type="checkbox"/> Threshold trigger for sound notification, kph	10

Figure 15

“Operation mode” — select the data for processing the speed values. Possible options: “GPS”, “CAN-bus” or “UI6” (for Omnicomm Profi 2.0 terminal). “Sound notification” — switching on/off sound notification in the case that the allowed speed value set in the VH profile is exceeded. This parameter is accessible only when selecting the operation modes “GPS” and “CAN-bus”. When the sound notification is on, the following parameters must be specified: “Speed limit, kph” — enter VH speed limit value. Possible values: from 5 to 150. “Threshold trigger for sound notification, kph” — enter the speed value by which it is allowed to exceed the speed limit without activation of sound notification. Possible values: from 0 to 50.

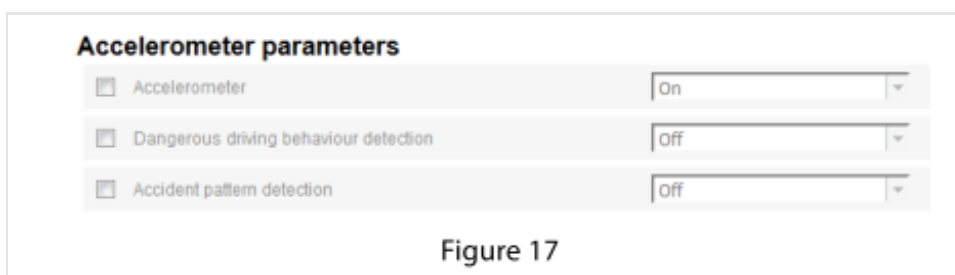
## PANIC BUTTON ACTUATION SETTINGS

## SETTING THE USE OF ACCELEROMETER



“Panic button” — select on/off to activate or deactivate the panic button control.

## SETTING THE USE OF ACCELEROMETER



“Accelerometer” — select on/off to activate or deactivate measurement of VH acceleration. “Dangerous driving behaviour detection” — select on/off to activate or deactivate detection of dangerous driving behaviour when the set threshold values are exceeded. When the dangerous driving behaviour detection is on:

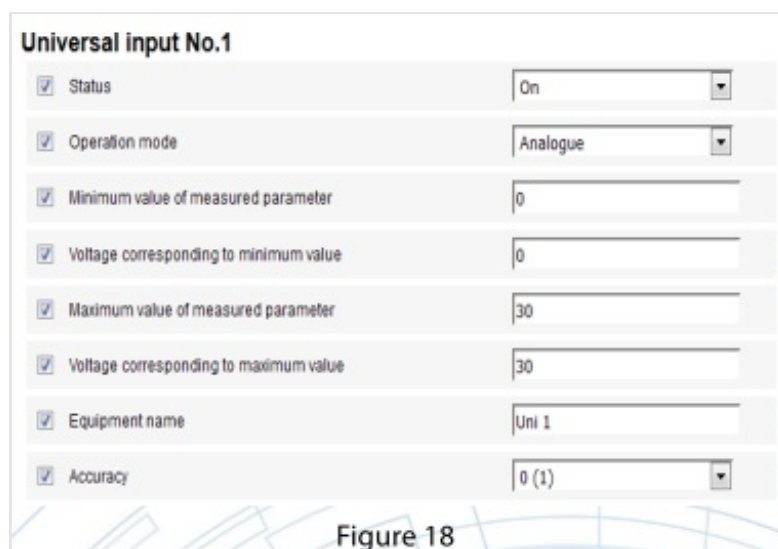
- “Safe acceleration threshold, g” — acceleration value during speeding up, beyond which dangerous driving behaviour is detected.
- “Safe deceleration threshold, g” — deceleration value during braking, beyond which dangerous driving behaviour is detected.
- “Safe lateral acceleration threshold, g” — acceleration value during turning, beyond which dangerous driving behaviour is detected.
- “Sending SMS when dangerous driving behaviour detected” — activation of SMS text sending when dangerous driving behaviour is detected.
- “Photo sending when activated” — activation of photo sending from the digital camera when dangerous driving behaviour is detected (only for Omnicomm 2.0 terminals).

“Accident pattern detection” — select on/off to activate or deactivate accident detection when the set values of thresholds are exceeded. When accident detection is on:

## CHANGING UNIVERSAL INPUT SETTINGS

- “Acceleration threshold, g” — acceleration value during speeding up, beyond which an accident will be detected.
- “Deceleration threshold, g” — deceleration value during braking, beyond which an accident will be detected.
- “Lateral acceleration threshold, g” — acceleration value during turning, beyond which an accident will be detected.
- “Sending SMS when accident detected” — activation of SMS sending when an accident is detected.
- “Photo sending when activated” — activation of photo sending from the digital camera when an accident is detected (only for Omnicomm 2.0 Terminals).

## CHANGING UNIVERSAL INPUT SETTINGS



The screenshot shows a configuration window titled "Universal input No.1". It contains several settings, each with a checked checkbox and a corresponding input field or dropdown menu:

Setting	Value
Status	On
Operation mode	Analogue
Minimum value of measured parameter	0
Voltage corresponding to minimum value	0
Maximum value of measured parameter	30
Voltage corresponding to maximum value	30
Equipment name	Uni 1
Accuracy	0 (1)

Figure 18

Universal input type is determined automatically depending on the additional equipment connected to the universal input (Figure 18). Enter the required settings depending on the universal input type according to the Omnicomm Configurator User Manual or Omnicomm Terminals Operating Manual.

## CHANGING PARAMETERS OF LLS FUEL SENSORS

## CHANGING SOUND NOTIFICATION STATUS

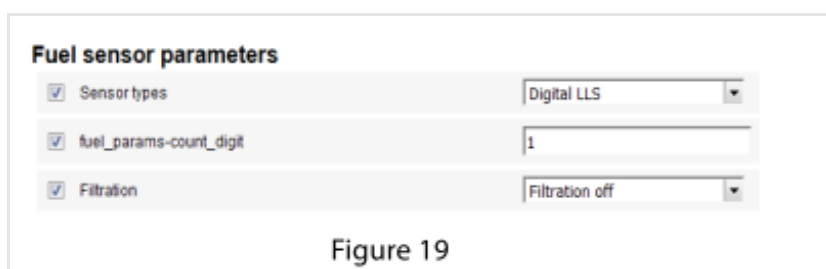


Figure 19

The type and number of LLS fuel level sensors are determined automatically and, if necessary, are available for change (Figure 19).

“Data source” — select the type of fuel level sensor. Possible options:

“Digital LLS” — when connecting LLS fuel level sensors;

“Frequency LLS-AF” — when connecting LLS-AF fuel level sensor;

“Analogue (regular)” — when connecting regular fuel sensor;

“CAN-bus” — when connecting to CAN-bus;

“Off” — if it is not required to control the fuel level.

When connecting LLS fuel level sensors, five filtration options are possible:

“Filtration off” . Filtration is performed only by the settings of the fuel level sensor.

“Low” filtration. Low filtration is used if the product is installed in stationary fuel storage tanks and in slow-moving equipment (diesel generator units, special vehicles).

“Medium” filtration. Medium filtration is used if the VH operates in regular road conditions (fixed-route transportation vehicles, cargo transportation).

“Strong” filtration. Strong filtration is used if the VH operates in regular and heavy road conditions (fixed-route transportation vehicles, cargo transportation, construction machinery).

“Maximum” filtration. Maximum filtration is used if the VH operates in heavy road conditions (construction machinery, VH operating in off-road conditions, farming machinery).

## CHANGING SOUND NOTIFICATION STATUS

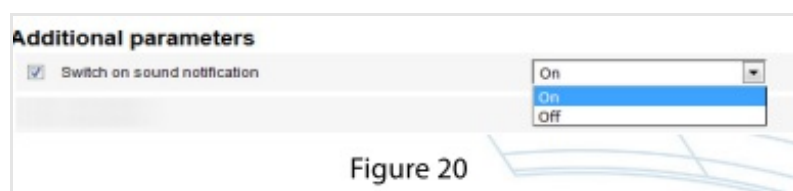


Figure 20

If necessary, switch on/off the sound notification of the need to authenticate the



## SWITCHING ON/OFF THE USE OF INTERNAL BATTERY OF OMNICO MM PROF I AND PROF I 2.0 TERMINAL

driver in the field “Switch on sound notification” “On”/“Off” respectively (Figure 20).

## SWITCHING ON/OFF THE USE OF INTERNAL BATTERY OF OMNICO MM PROF I AND PROF I 2.0 TERMINAL



“Use internal battery” — select on/off to activate or deactivate use of the internal battery when the main power is off and Omnicomm Profi terminal operates in the mode “Collect data at jolting” (Figure 21).

## SWITCHING ON/OFF SPEED VALUE TRANSFER TO LLD INDICATOR



To switch on/off the speed value transfer to LLD indicator, select on/off respectively (Figure 22).

## SETTING THE OPERATION OF INTERFACES EIA-485 AND RS-232

## SELECTING PARAMETERS READ FROM CAN-BUS OF TRANSPORTATION VEHICLE



For interfaces EIA-485 and RS-232, select the function: • "Off" — interface is not in use; • "CAN-log" — connection to CAN-log; • "J1708" — connection to information bus J1708 of the transportation vehicle; • "NMEA reception" — use of navigation data from the external device; • "NMEA transmission" — use of navigation data of the terminal in the external device; • "PP-01" — use to connect up a passenger traffic sensor; • "JPEG camera" — use to connect up a digital camera; • "DV-01" — use to connect up a driver's display; • "LLS" — use to connect up LLS fuel level sensors; "Tyre pressure sensor" (only for interface RS-232) — use to connect a tyre pressure sensor "RS port speed for NMEA data" — select the speed of the port to receive navigation data from the external device.

## SELECTING PARAMETERS READ FROM CAN-BUS OF TRANSPORTATION VEHICLE

## SETTING CASE TAMPERING CONTROL PARAMETERS (FOR PROFI 2.0 PROFI 2.0 WIFI)



CAN parameters	
<input type="checkbox"/> Parking brake status	Off
<input type="checkbox"/> Accelerator pedal position	Off
<input type="checkbox"/> Engine oil pressure	Off
<input type="checkbox"/> Engine coolant temperature	Off
<input type="checkbox"/> Fuel temperature	Off
<input type="checkbox"/> Engine oil temperature	Off
<input type="checkbox"/> Daily fuel consumption	Off
<input type="checkbox"/> Instantaneous fuel economy	Off
<input type="checkbox"/> Engine RPM	Off
<input type="checkbox"/> Daily mileage	Off
<input type="checkbox"/> Total mileage	Off
<input type="checkbox"/> Total time of engine operation	Off
<input type="checkbox"/> Total fuel consumption per total time	Off
<input type="checkbox"/> Service brake pedal position	Off
<input type="checkbox"/> Clutch pedal position	Off
<input type="checkbox"/> Cruise control status	Off
<input type="checkbox"/> Axle load	Off
<input type="checkbox"/> Service brake pedal status	Off
<input type="checkbox"/> Clutch pedal status	Off
<input type="checkbox"/> Mileage before next maintenance	Off
<input type="checkbox"/> Engine operation time before next maintenance	Off
<input type="checkbox"/> Axle index	Off
<input type="checkbox"/> Instantaneous speed	Off
<input type="checkbox"/> Doors status	Off
<input type="checkbox"/> Seat belts status	Off

Figure 24

From the list, select the parameters whose values must be displayed in Omnicomm Online software and select “On” (Figure 24).

## SETTING CASE TAMPERING CONTROL PARAMETERS (FOR PROFI 2.0 PROFI 2.0 WIFI)

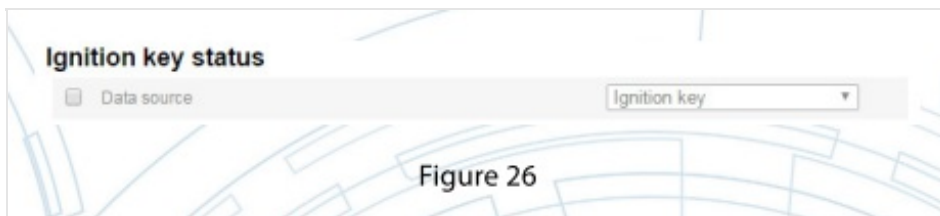


Case tampering control parameters	
<input checked="" type="checkbox"/> SMS sending when case tampered	Off

Figure 25

“Sending SMS when case tampered with” — switching on/off SMS sending when case tampering sensor triggers.

# SETTING THE SOURCE TO RECORD IGNITION ON/OFF



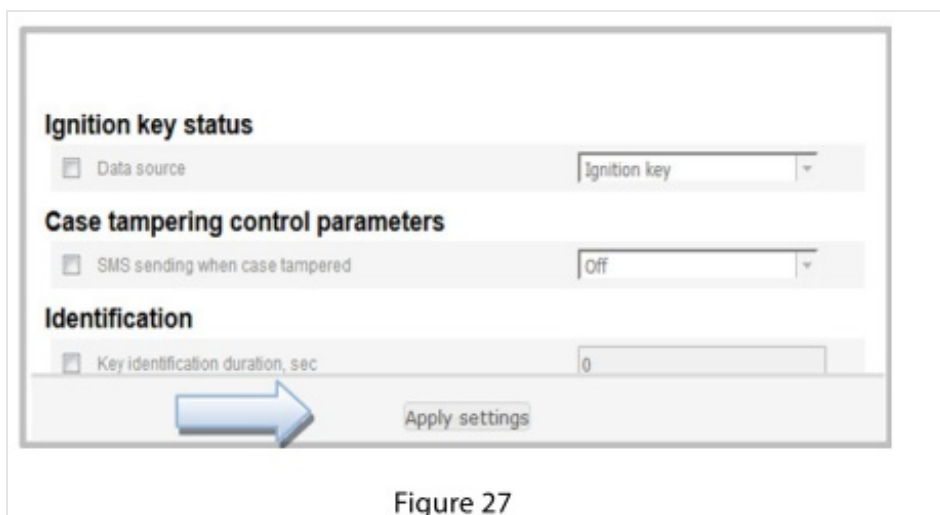
"Data source" — select the data for recording ignition on/off. Possible options:  
"Ignition key" — ignition on/off is recorded depending on the key position when the connection is made directly to the ignition key.

"Onboard voltage" — ignition on is recorded when onboard voltage reaches a threshold value when the VH is connected to the accumulator battery.

Selecting "Onboard voltage", specify the value "Threshold voltage, V" — the onboard value after reaching which ignition on will be detected.

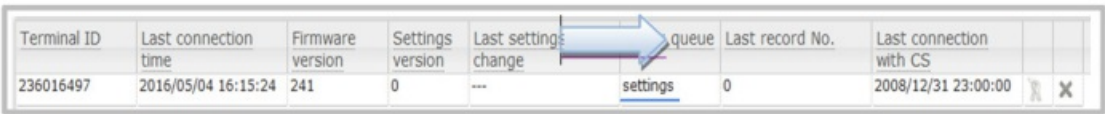
## SETUP PARAMETERS OF UPLOAD TO TERMINALS

After specifying the parameters (para. 6.1 — 6.23) to be set in the terminals, press the button "Apply settings" in the main screen of the Configuration server (Figure 27).



The column "Tasks queue" displays the setting or firmware depending on the set parameters (Figure 28). During the subsequent connection of the Omnicomm terminal to the remote configuration server, the settings will be uploaded to the terminal.

## SETTING THE SOURCE TO RECORD IGNITION ON/OFF



Terminal ID	Last connection time	Firmware version	Settings version	Last settings change	queue	Last record No.	Last connection with CS		
236016497	2016/05/04 16:15:24	241	0	---	<u>settings</u>	0	2008/12/31 23:00:00		X

Figure 28

Omnicom terminals establish the connection with the remote configuration server once every 6 hours. To speed up the process of uploading the settings and updating the firmware (if required), send the SMS command: \*CONNECTSC# to the number of the SIM-card installed in the terminal.

**OMNICOMM**

[info@omnicomm-world.com](mailto:info@omnicomm-world.com)

[www.omnicomm-world.com](http://www.omnicomm-world.com)