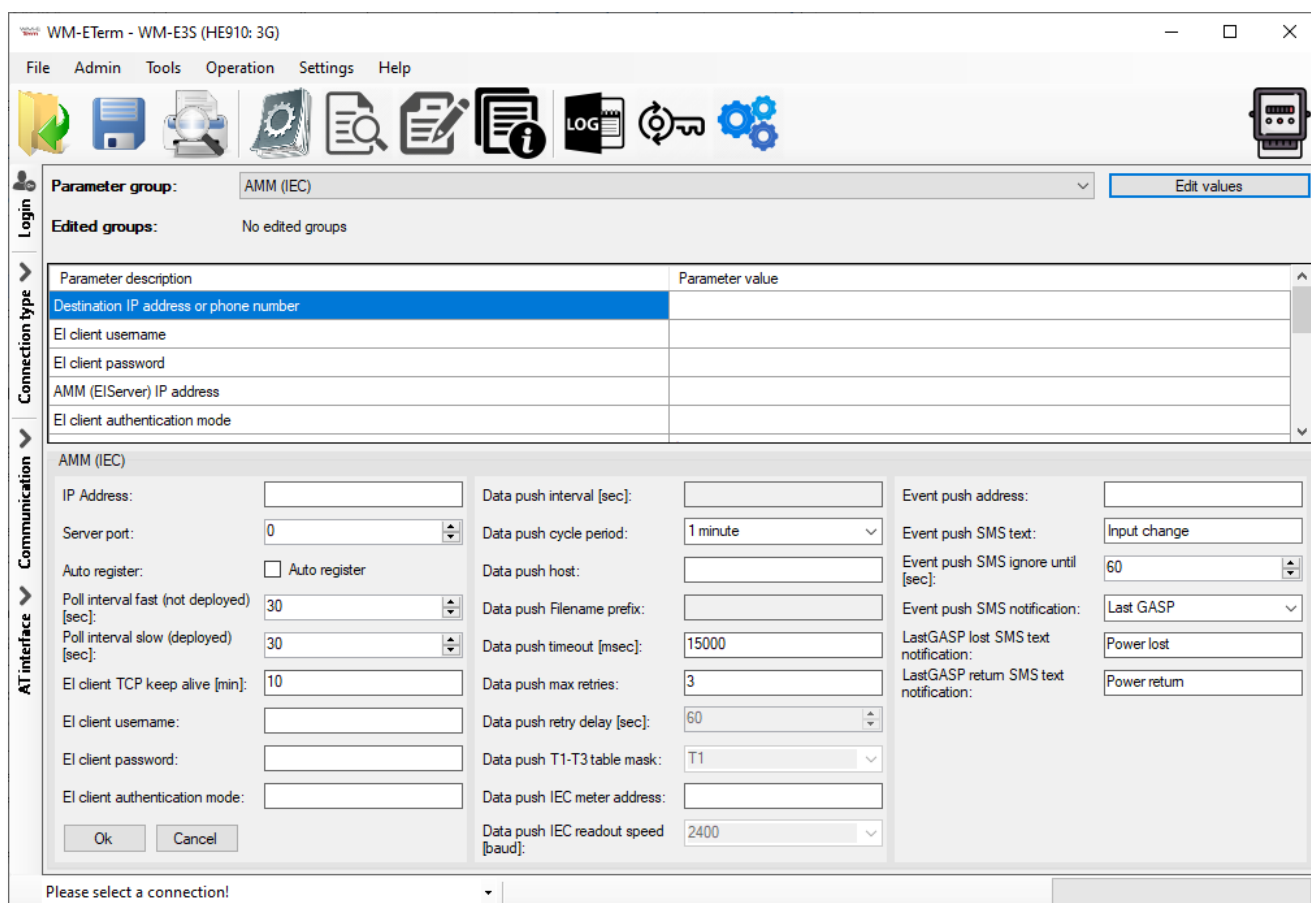


WM-E Term®

User Manual

Universal configuration tool for WM-E2S®, WM-E2SL®, E57C WM LTE® electricity metering modems



The screenshot shows the WM-E Term configuration window for a WM-E3S (HE910: 3G) modem. The interface includes a menu bar (File, Admin, Tools, Operation, Settings, Help), a toolbar with icons for file operations and settings, and a sidebar with navigation options (Login, Connection type, Communication, AT interface).

Parameter group: AMM (IEC) Edit values

Edited groups: No edited groups

Parameter description	Parameter value
Destination IP address or phone number	
EI client username	
EI client password	
AMM (EIServer) IP address	
EI client authentication mode	

Communication

AMM (IEC)

IP Address:	<input type="text"/>	Data push interval [sec]:	<input type="text"/>	Event push address:	<input type="text"/>
Server port:	<input type="text" value="0"/>	Data push cycle period:	<input type="text" value="1 minute"/>	Event push SMS text:	<input type="text" value="Input change"/>
Auto register:	<input type="checkbox"/> Auto register	Data push host:	<input type="text"/>	Event push SMS ignore until [sec]:	<input type="text" value="60"/>
Poll interval fast (not deployed) [sec]:	<input type="text" value="30"/>	Data push Filename prefix:	<input type="text"/>	Event push SMS notification:	<input type="text" value="Last GASP"/>
Poll interval slow (deployed) [sec]:	<input type="text" value="30"/>	Data push timeout [msec]:	<input type="text" value="15000"/>	LastGASP lost SMS text notification:	<input type="text" value="Power lost"/>
EI client TCP keep alive [min]:	<input type="text" value="10"/>	Data push max retries:	<input type="text" value="3"/>	LastGASP return SMS text notification:	<input type="text" value="Power return"/>
EI client username:	<input type="text"/>	Data push retry delay [sec]:	<input type="text" value="60"/>		
EI client password:	<input type="text"/>	Data push T1-T3 table mask:	<input type="text" value="T1"/>		
EI client authentication mode:	<input type="text"/>	Data push IEC meter address:	<input type="text"/>		
<input type="button" value="Ok"/> <input type="button" value="Cancel"/>		Data push IEC readout speed [baud]:	<input type="text" value="2400"/>		

Please select a connection!

Document specifications

This documentation was made for the usage of the **WM-E TERM®** software.

The application is capable of configuring WM-E2S®, WM-E2SL® and E57C WM LTE® modems to connect to the meter by our modem and readout data.

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1. Connecting to the device

1.1 Introduction

The **WM-E Term**® application is capable of configuring the WM-ExS smart metering modems for receiving communication from the meter. The configuration can be performed through RS232 compatible connection of the modem, or by remote TCP connection.

After the configuration, the modem can initiate RS232/RS485 data connection with the connected meter.

Please, follow the next steps for configuring the connection of the communication modem (CM) and the meter system.

1.2 Preparing

1. The software can be used on Microsoft® Windows® 7 / 8 / 10 operating systems.
2. Microsoft® .Net Framework v4 must be installed on your computer. In case of missing this component, you have to install it after having downloaded it from the manufacturer's website:
<https://www.microsoft.com/en-us/download/details.aspx?id=30653>
3. You have to own administrator privileges for the directory, where running the program.

1.3 Start the WM-E Term application, connect to the device

1. Connect the optical head properly to the meter. Then connect it to the USB port of the computer. Connect to the modem through the required interface.
2. Download **WM-E Term Appendix** document by the link, which can help the configuration.
https://www.m2mserver.com/m2m-downloads/WM-E-TERM_Appendix_V1_10.pdf

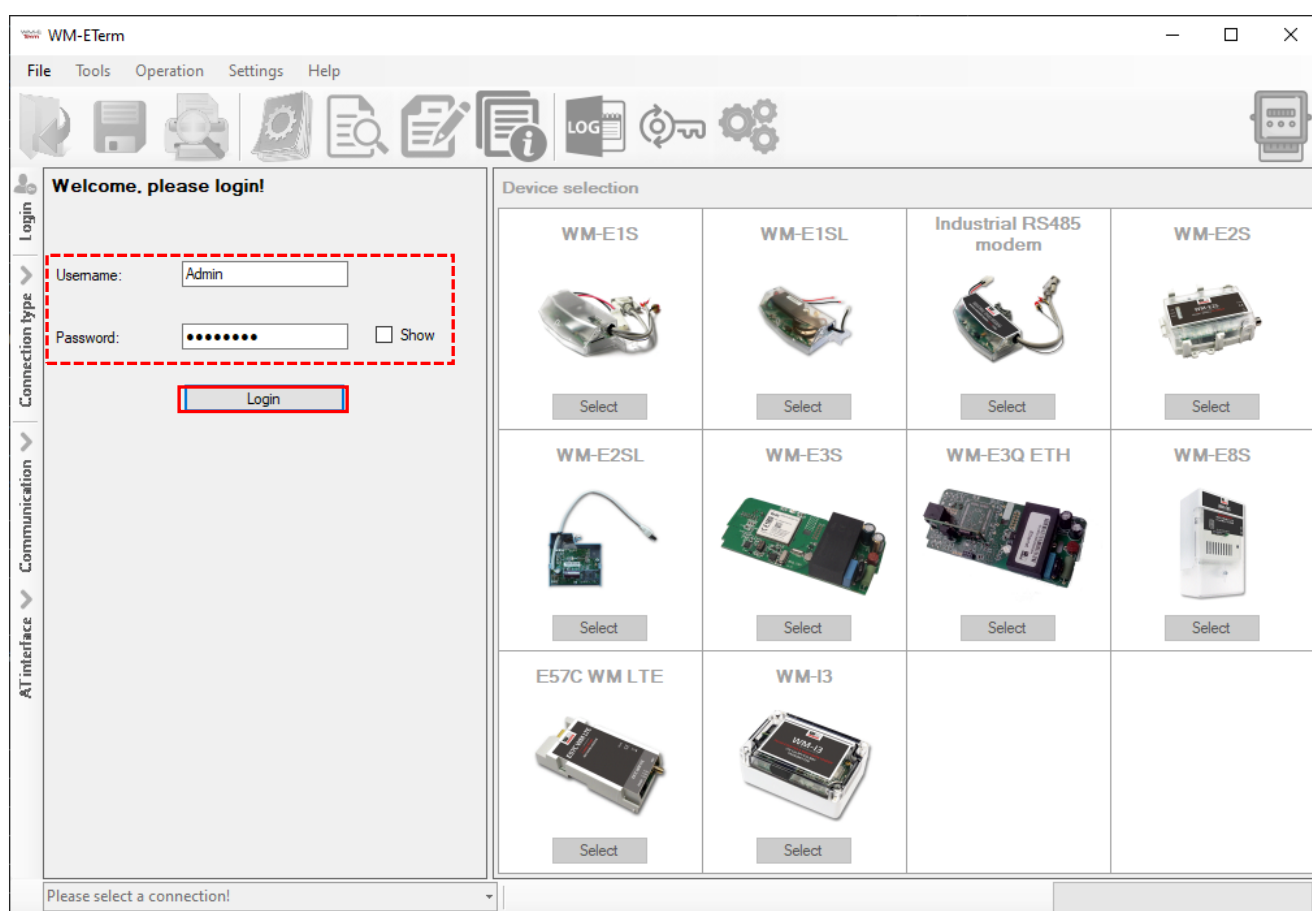
3. Download the WM-E TERM® configuration software to your computer by using this link:

https://www.m2mserver.com/m2m-downloads/WM-ETerm_v1_3_82.zip

4. Unpack the .zip file into a directory and **execute** the **WM-ETerm.exe** file and the following application screen appears.

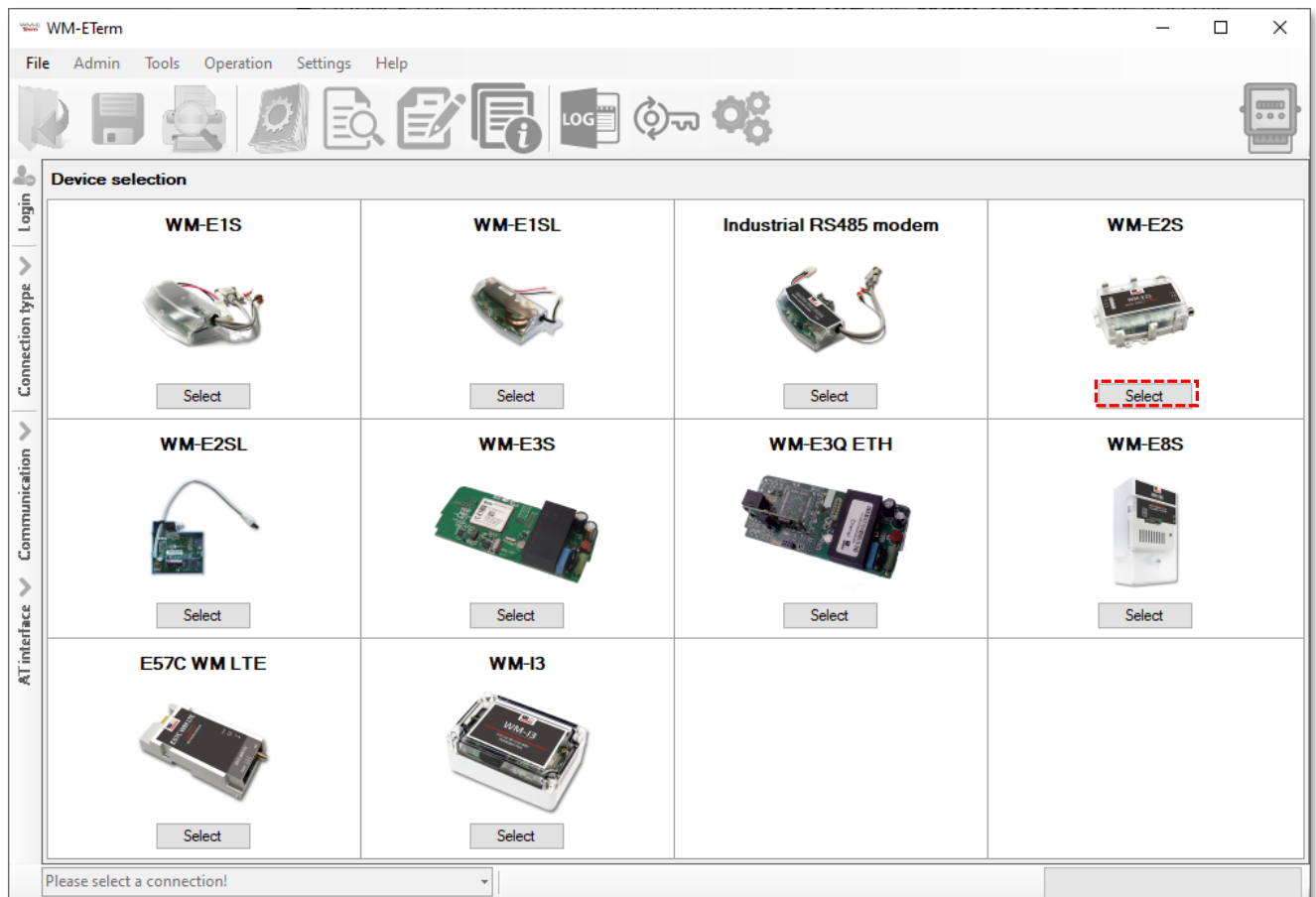
5. Define the login data to enter into the configuration software.

Default **Username**: Admin Default **Password**: 12345678

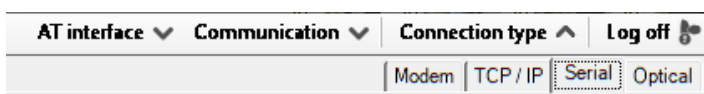
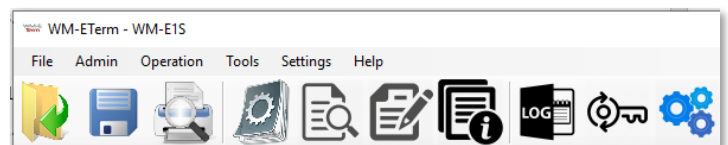


Note, that you don't have to enter the **Password** if you did not changed it. The asterix characters are signing that the password was already filled in. You can use the **Show** checkbox option to check the filled password.

6. **Select** the metering modem type for settings – according to the currently used model.

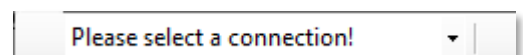


7. In the program window, you will find icons and menu items for performing settings, operation.



On the left side of the screen, the navigation buttons will help you to connect and check the communication.

At the bottom of the screen, on the left hand side, you can connect with a pre-configured profile to the modem (by selection).



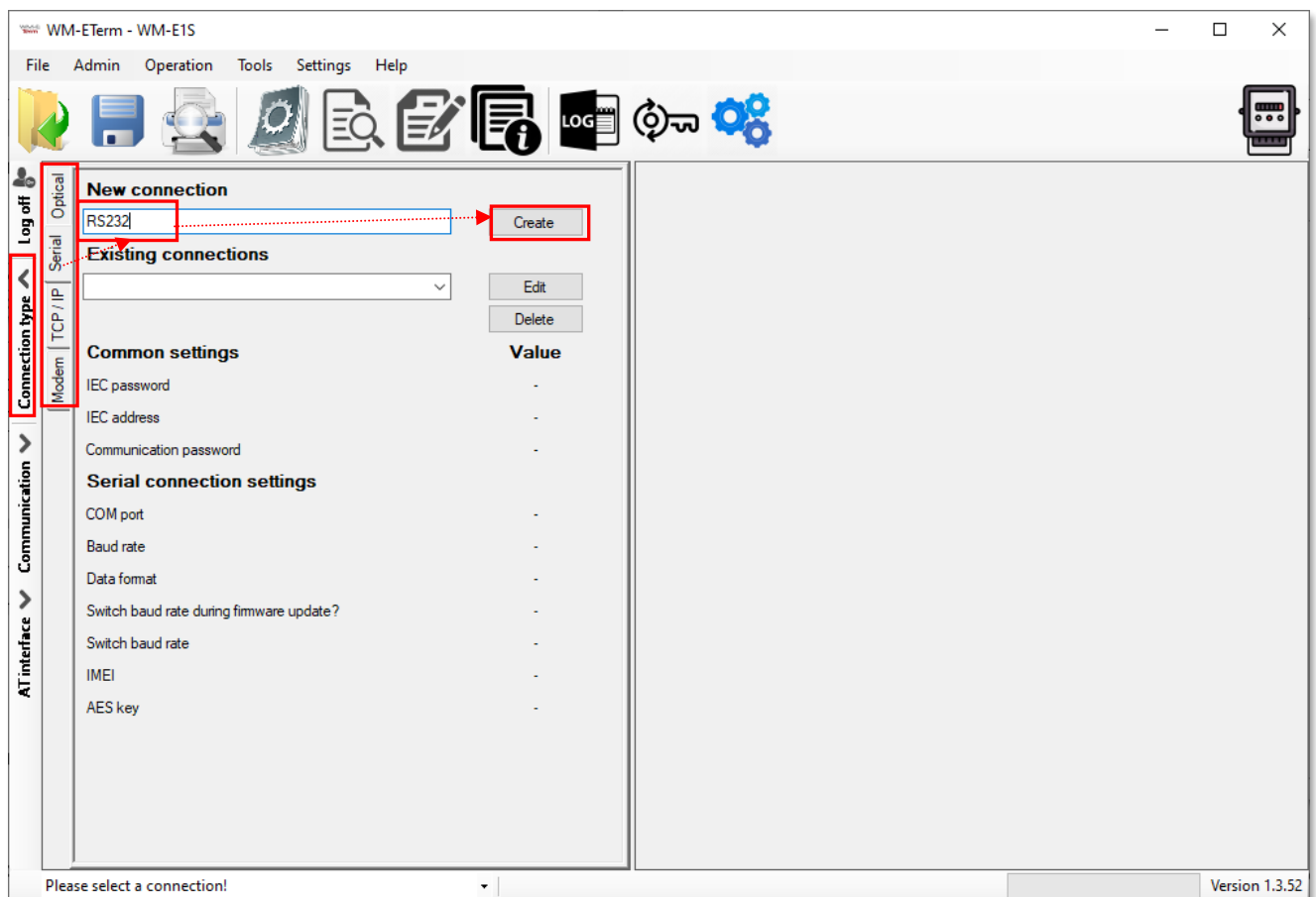
1.4 Setup the configuration connection

1. Configure the modem to the relevant interface. First you have to define at least one connection profile. You can make four different types of connections: Optical, Serial, TCP/IP, Modem.

2. Choose the **Connection type** on the left side of the screen, then choose an *interface* regarding the required type of connection (**Modem / TCP-IP / Serial / Optical**).

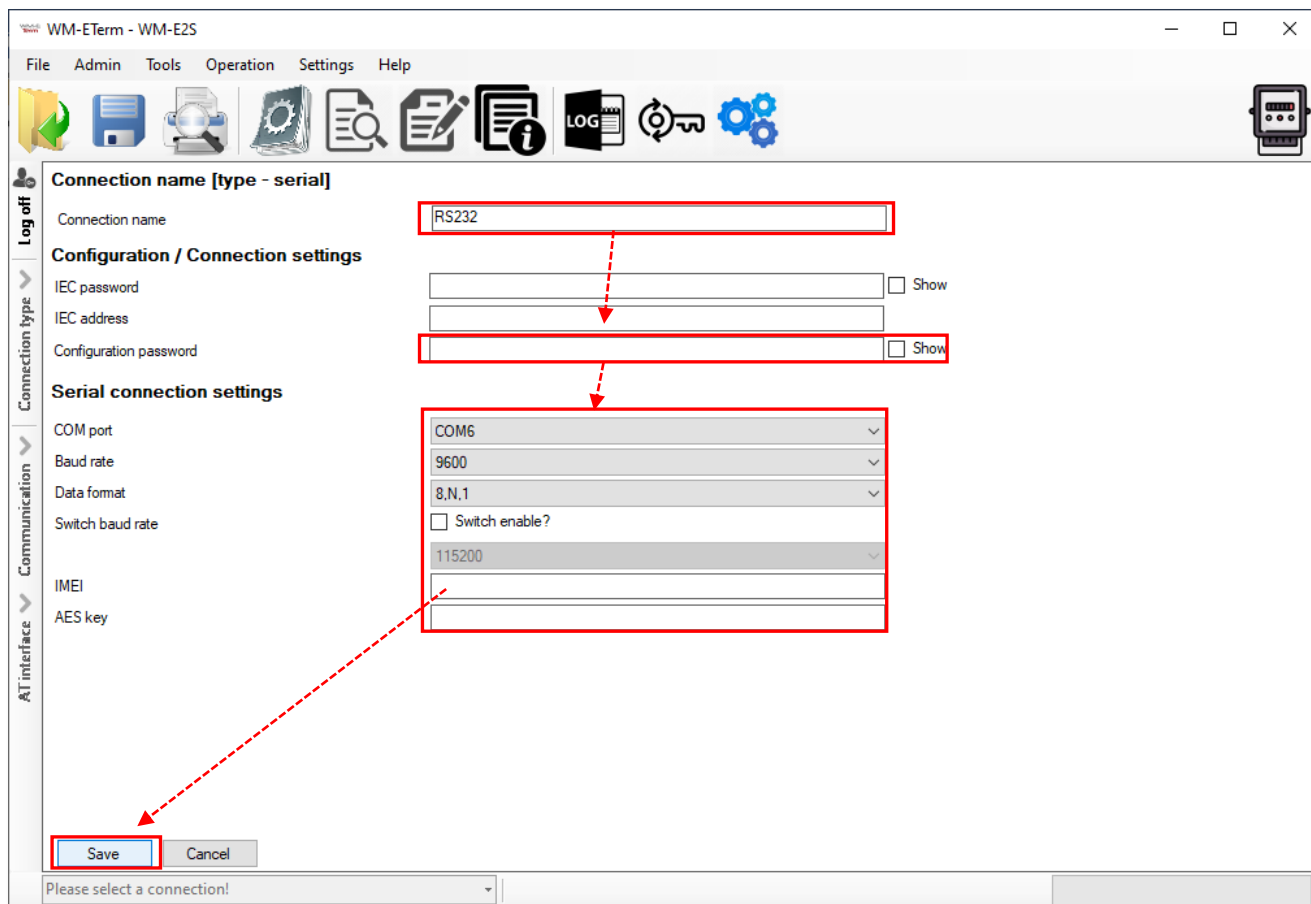
Serial configuration profile:

1. Make serial RS232 connection (by USB Dongle with RJ45 connection) between the modem and your computer (you should use RS485 USB Dongle adapter in case of WM-E2SL®).
2. On the left-side of the screen click on the **Connection type** and choose the **Serial** interface.




3. Add a name for the profile at the **New connection** field.
4. Push the **Create** button. In the next window connection settings will appear.
5. In the connection window you can define the connection profile parameters as **Connection Name**.


6. At **Configuration settings** part, you can add the **IEC Password**, the **IEC address** of the SIM card, and you can require the communication to be logged (**Communication log**).

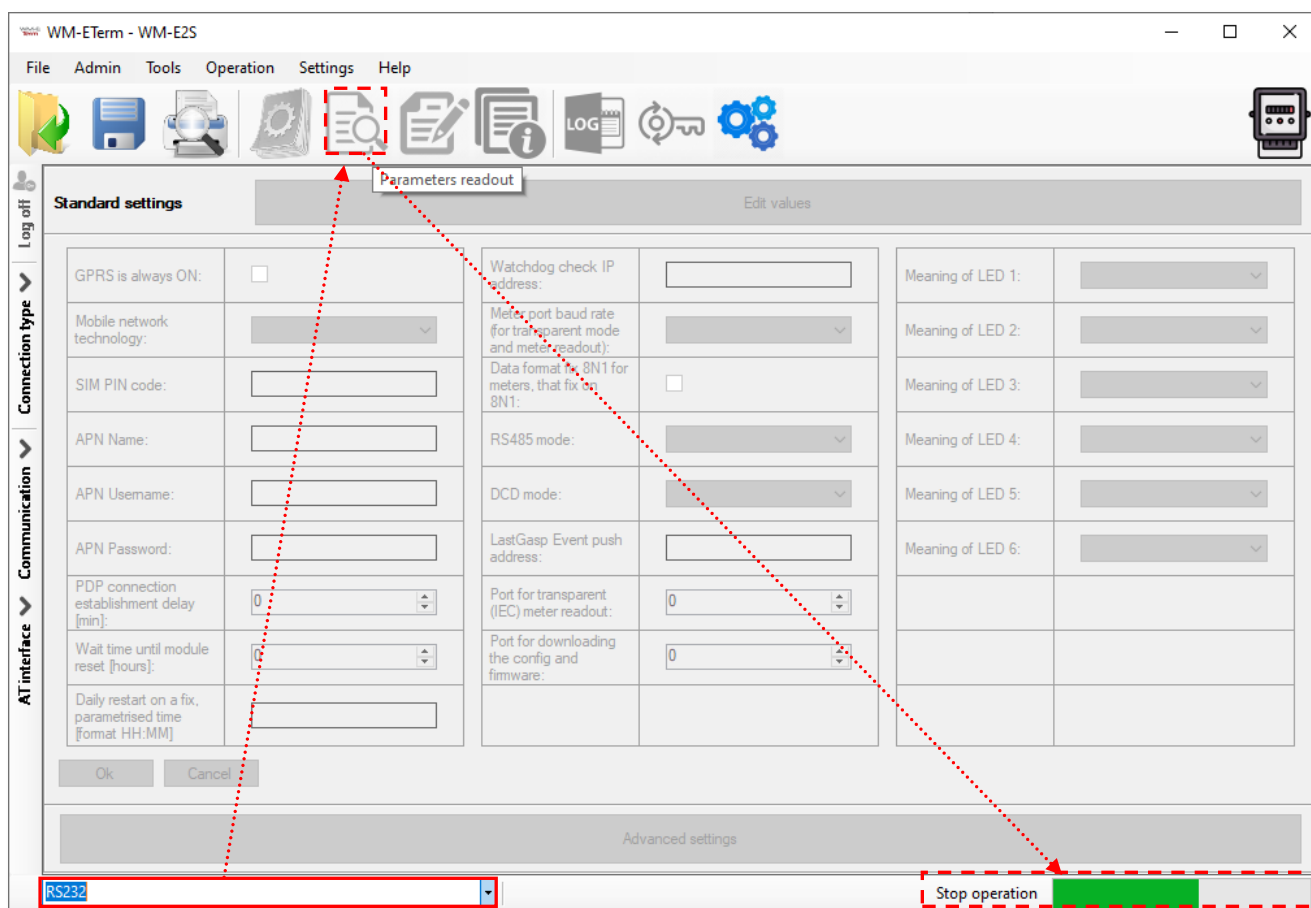


7. For newer modem firmware versions – such as v5.x version it is mandatory to use the **Configuration password** for the modem configuration. The default password is: **WMEXS!** You can check the written password by the **Show** option at right.

(Note that you can change the configuration password of the modem anytime by choosing the  icon from the menu.)

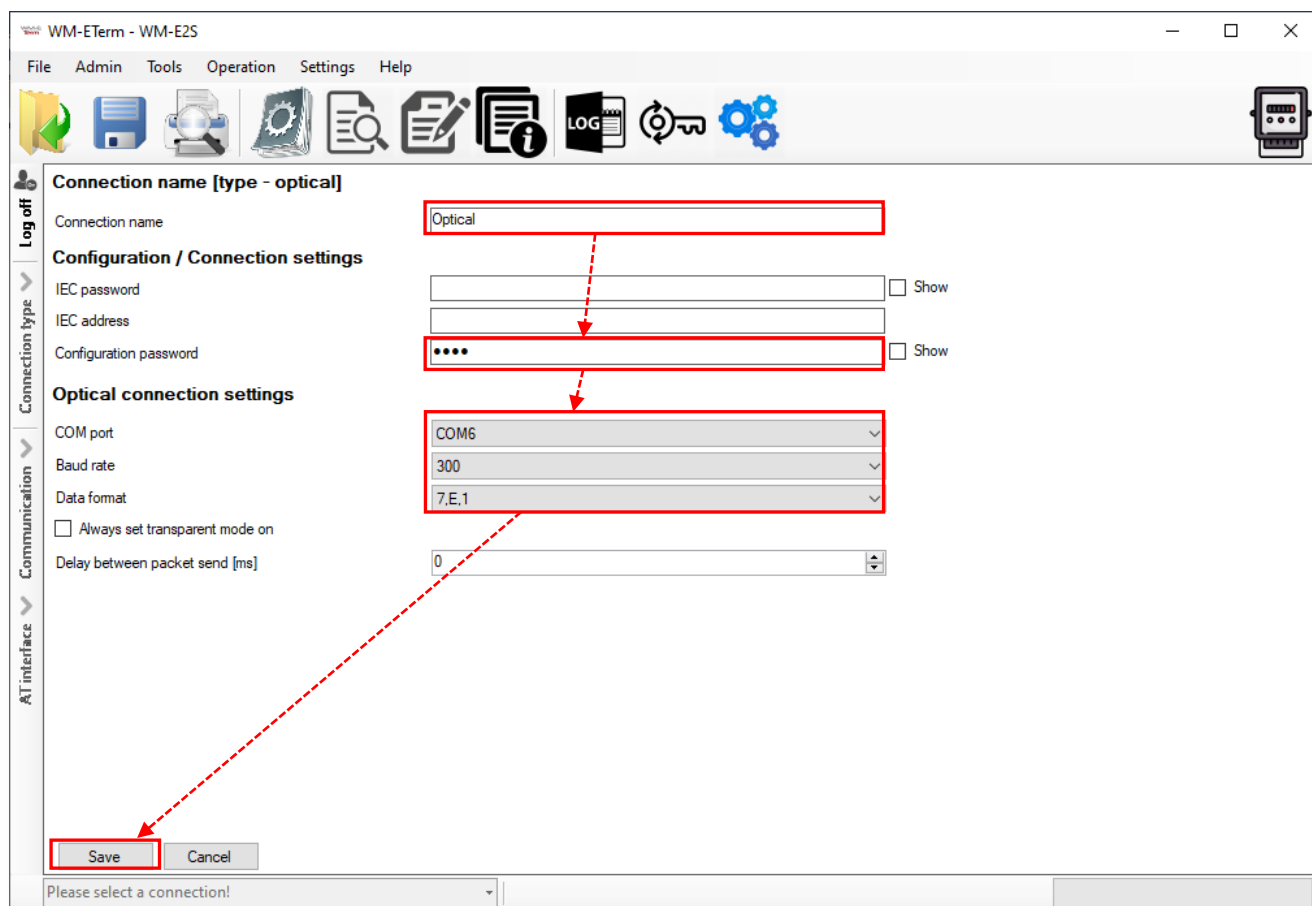
8. It is mandatory to setup the connection parameters: as **COM port** according to the available serial/USB port, the dataspeed (**Baud rate**), and choosing the proper **Data format** (e.g. 8N1, 7E1, etc) from the dropdown list.

9. You can **Switch baud rate** during the firmware by enabling the **Switch enable** option and choosing a baud rate from the list. This will be valid for the firmware update period.
10. You can define an **AES** key for the connection if you want. You can also declare the **IMEI** number (metering modem's module identifier) to guarantee that the connection is valid only for the relevant hardware (the modem which has the IMEI).
11. Click on **Save** button to save the connection profile.
12. When connecting by choosing the **Parameters Read**  icon, then the screen change to a different view with the *Standard settings* and the modem will reading out parameter values from the modem after the connection. Continue from the **Chapter 1.5**.



Optical configuration profile:

1. Make the optical connection between the meter and your computer (connect the optical USB cable to your computer and the opto-head to the meter).
2. Click on the **Connection type** and choose the **Optical** interface – at left.



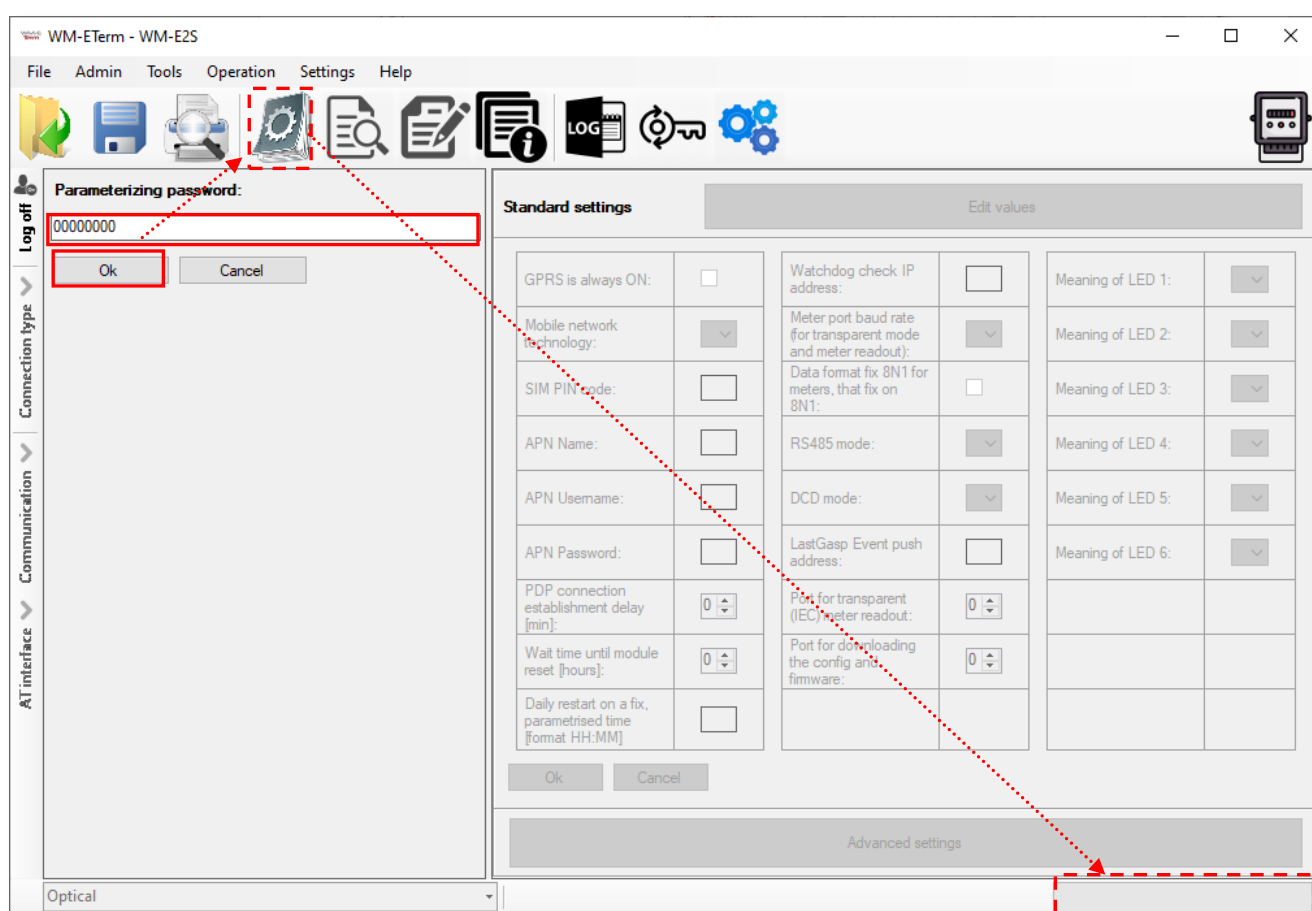
3. Add a name for the profile at the **New connection** field.
4. Push the **Create** button, and in the next window the connection settings will appear – similar to what was described at the serial connection.
5. For modem firmware v5 versions it is mandatory to use the **Configuration password** for the modem configuration. The default password is: **WMEXS!**


You can check the written password by the **Show** option at right.

(Note that you can change the configuration password of the modem anytime

by choosing the  icon from the menu.)

6. If it is necessary to use a secured IEC connection, you can add **IEC password** and the **IEC address** and a **Configuration password**.
(You can see and check the written password by the **Show** option.)
7. Choose **COM port**, **Baud rate** and **Data format** values – similar as for the serial connection. Note that value of **Data format** is usually **7E1** instead of **8N1**.
8. You can enable **Always set transparent mode** by its check box – for performing transparent communication between the IP address and the metering modem.
9. You can setup the **Delay between package send [ms]** where you can define the time interval (pause) between packages - value in milliseconds.

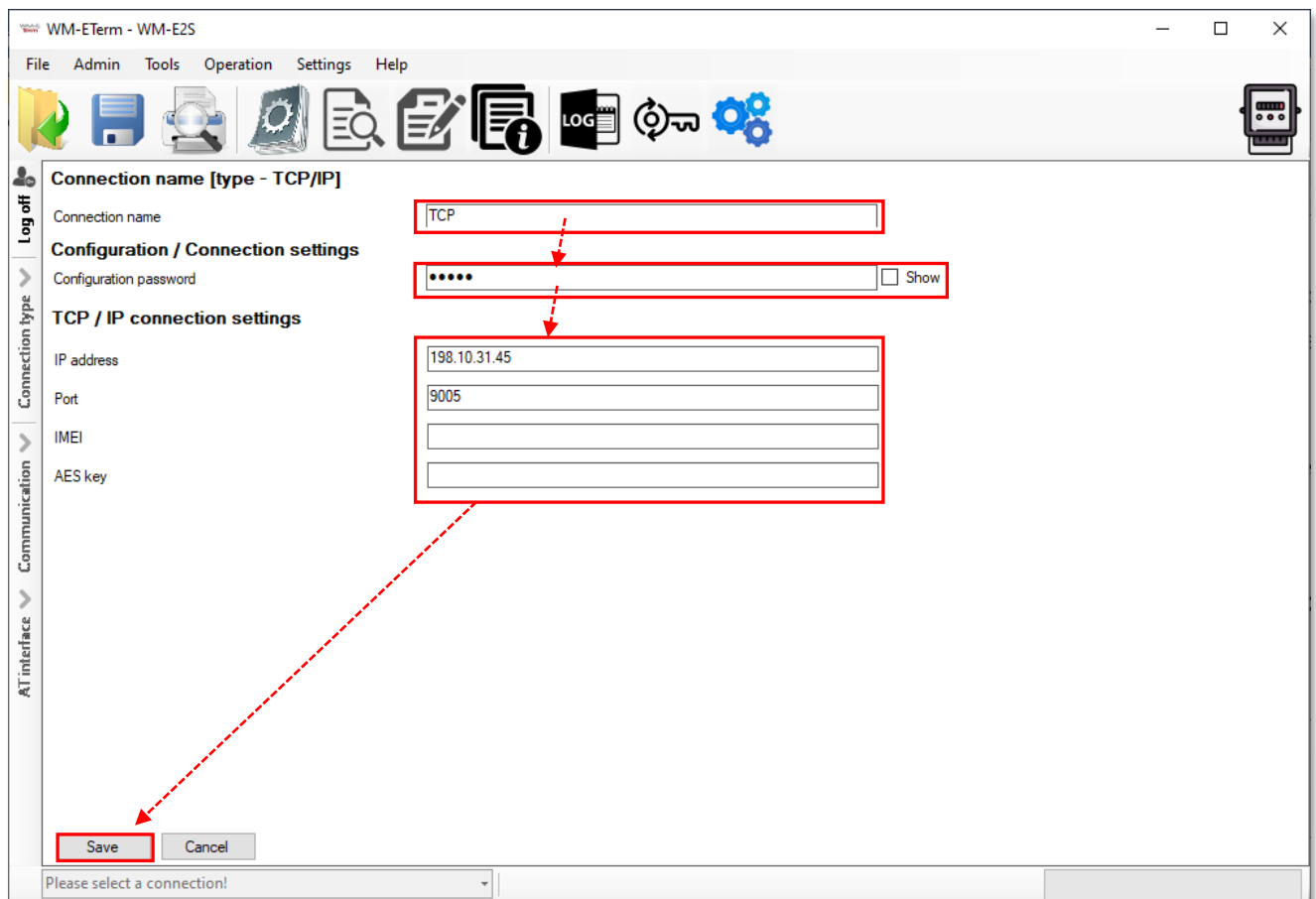


10. Then push the **Save** button to save the profile settings.
11. Fill the **Parametrizing Password**  according to the meter information, then push the **OK** button.



12. Then push to the **Parameters Read** icon, then the screen change to a different view with the *Standard settings*, and the modem will be reading out parameter values from the modem after connecting. Continue from the **Chapter 1.5**.

TCP/IP configuration profile:

1. You need to know the IP address of the SIM card for connection and the pre-configured port number to setup the TCP/IP settings.
2. On the left-side of the screen click on the **Connection type** and choose the **TCP/IP** interface.



3. Add a name for the profile at the **New connection** field.
4. Push the **Create** button, and in another window the connection settings will appear – similar to what was described at the serial connection.

5. For modem firmware v5 versions it is mandatory to use the **Configuration password** for the modem configuration. The default password is: **WMEXS!**
You can check the written password by the **Show** option at right.
(Note that you can change the configuration password of the modem anytime by choosing the  icon from the menu.)
6. Define the **IP address** to the connected SIM card and the **Port** for the connection.
7. You can define an **AES** key for the connection if you want. You can also insert the **IMEI** number (metering modem's module identifier) to guarantee that the connection is valid only for the relevant hardware (modem which has the IMEI).
8. Push then the **Save** button to save the profile settings.
9. Then push to the **Parameters Read** icon, then the screen change to a different view with the *Standard settings*, and  the modem will be reading out parameter values from the modem after connecting. Continue from the **Chapter 1.5**.

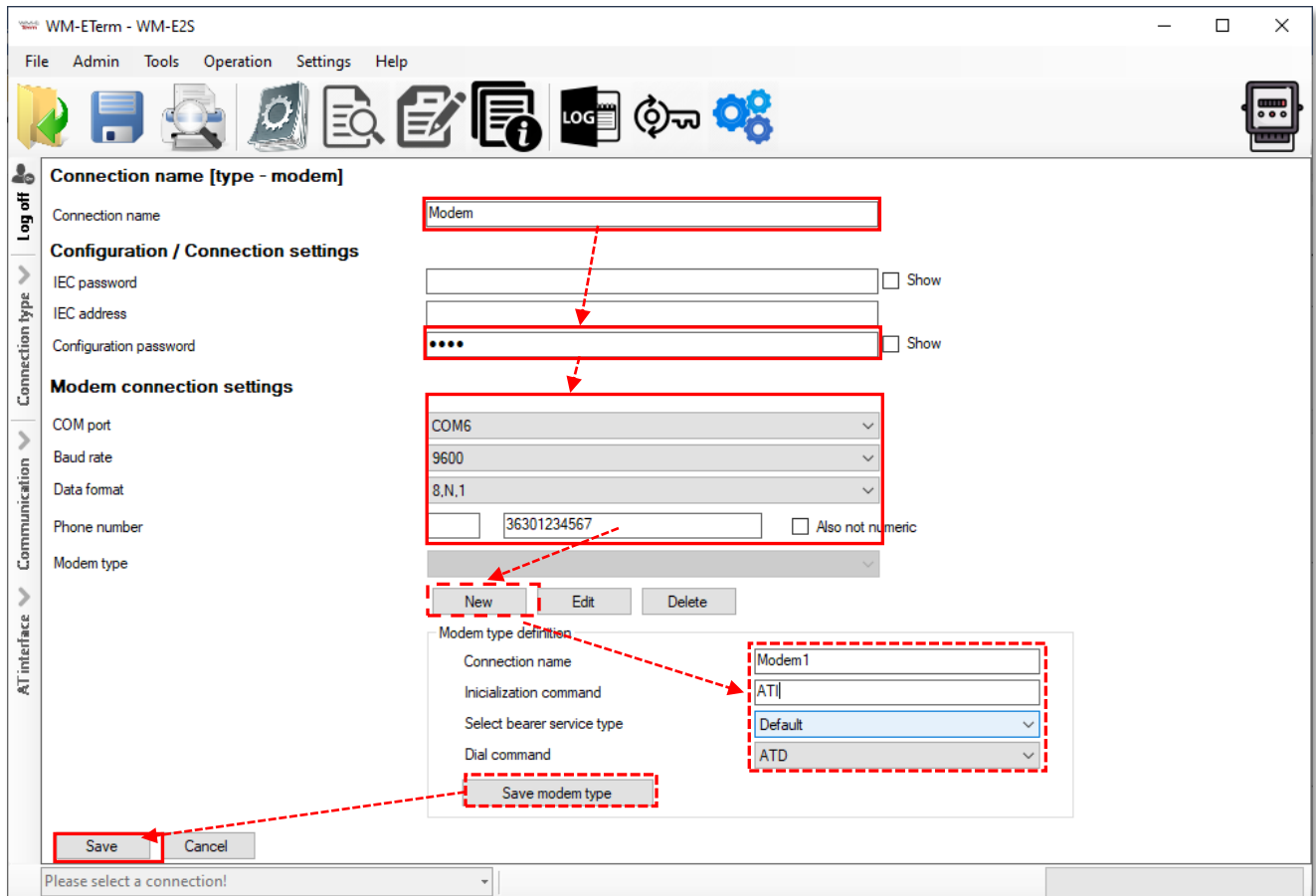
Modem configuration profile:

1. On the left-side of the screen, click on the **Connection type** and choose the **Modem** interface.
2. Define a name to the profile at the **New connection** field.
3. Push **Create** button, and in another window the connection settings will appear – similar to what was described at the serial connection.
4. For modem firmware v5 versions it is mandatory to use the **Configuration password** for the modem configuration. The default password is: **WMEXS!**

You can check the written password by the **Show** option at right.

(Note that you can change the configuration password of the modem anytime

by choosing the  icon from the menu.)



5. Define then the **COM port**, the **Baud rate** values and select a **Data format** type.


6. Add the **Phone number*** of the modem (SIM card's phone call number).

*The first part is the prefix – it is not obligatory to be used.

The phone number is the second part, which can contain special (command) characters, if you enabled the *Also not numeric option*.

7. Create a **New Modem type**. Some new parameters will then be listed at the bottom side of the screen. You can define the modems here (e.g. analog, ADSL, etc.), or you can edit or delete a registered one.

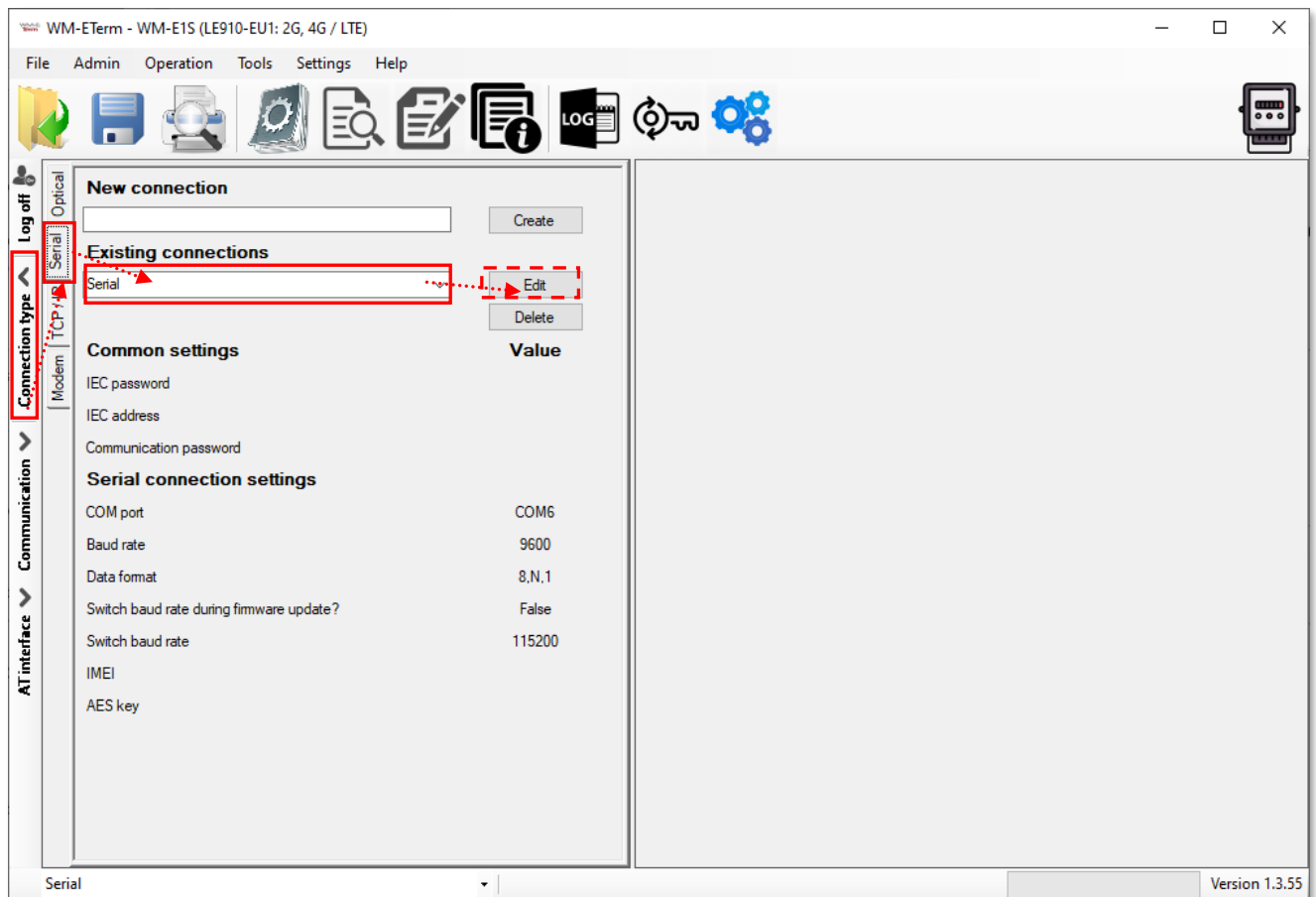
Fields:

- Add the **Connection name** and the modem **Initialization command**.
 - **Select bearer service type**, and add the **Dial command**.
 - Define the **Initialization command** for the connecting modem.
 - Configure further modem types also, use a **Bearer service** and define the **Dial command**.
8. For storing the *Modem type* parameters and the connection type, push the **Save modem type** button.
9. When you have finished the settings, push the **Save** button to save the connection profile.
10. Then push to the **Parameters Read**  icon, then the screen change to a different view with the *Standard settings*, and the modem will be reading out parameter values from the modem after connecting.

1.5 Editing or deletion of a configuration profile

You can delete the unnecessary connection profiles by choosing the **Connection type** button on left edge of the screen.


1. Choose an **Existing connection** at the connection selection part and the relevant settings will be loaded to the right part of the screen.
2. Choose then **Edit** and you can modify the existing profile settings. (You can **Delete** also a stored connection profile).

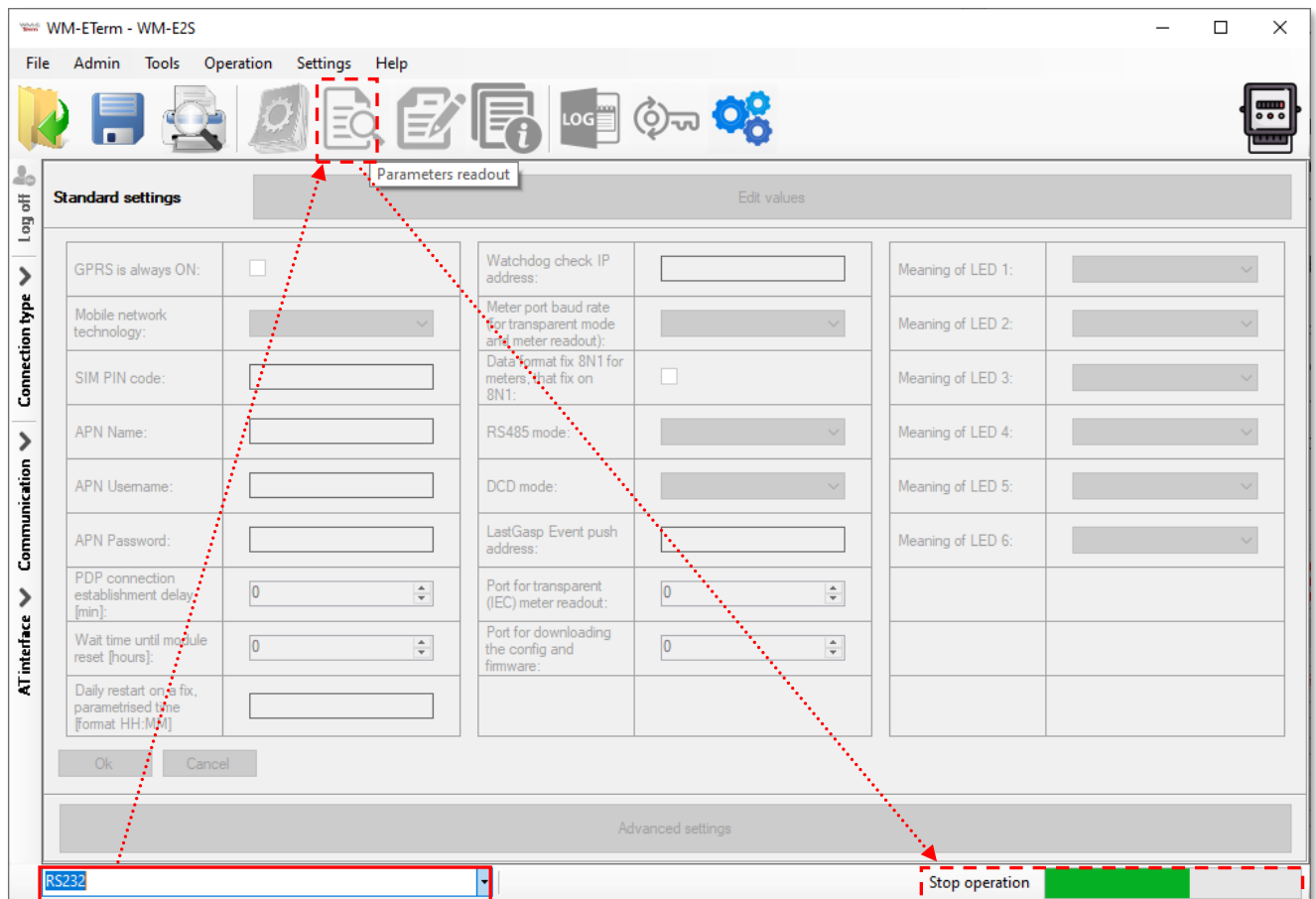


1.6 Connect to the modem - Choose a configuration profile

Previously you have created configuration profile(s). Note that the connection profile will NOT be automatically selected. Therefore, you have to choose a profile manually at the bottom of the screen to connect to the modem before readout or configure the settings!



1. Once the **connection profile** has been chosen, then click on the **Parameters Read**  icon to readout parameter values from the modem.
2. Then the screen will change to a different view by listing **Standard settings** with all parameter values which has been read out. The progress will be signed by the indicator bar on the right-bottom side of the screen.



3. Then confirm the parameter readout success by the **OK** button at the left side of the screen.
4. After all, the most important modem parameter values will be listed on the screen – in this **Standard settings** view.
5. If you want to configure further settings over the basics, then push to the **Advanced Settings** button at the bottom side of the screen.

1.7 Configuration in Standard settings mode

Here in **Standard settings** mode, you can edit the parameter settings by the **Edit values** button. Then the standard (basic) parameters will be editable on the screen – as APN settings, GPRS settings, RS485- and port configuration, LastGASP settings, LED configuration, etc.

WM-ETerm - WM-E2S (LE910-EU1: 2G, 4G / LTE)

File Admin Tools Operation Settings Help

Log off

Connection type

Communication

AT interface

Sender: Serial connection
Message: Parameters were read out successfully!

Ok

Standard settings

Edit values

GPRS is always ON:	<input type="checkbox"/>	Watchdog check IP address:	<input type="text"/>	Meaning of LED 1:	<input type="text"/>
Mobile network technology:	<input type="text"/>	Meter port baud rate (for transparent mode and meter readout):	<input type="text"/>	Meaning of LED 2:	<input type="text"/>
SIM PIN code:	<input type="text"/>	Data format fix 8N1 for meters, that fix on 8N1:	<input checked="" type="checkbox"/>	Meaning of LED 3:	<input type="text"/>
APN Name:	<input type="text"/>	RS485 mode:	<input type="text"/>		
APN Username:	<input type="text"/>	DCD mode:	<input type="text"/>		
APN Password:	<input type="text"/>	LastGasp Event push address:	<input type="text"/>		
PDP connection establishment delay [min]:	<input type="text"/>	Port for transparent (IEC) meter readout:	<input type="text"/>		
Wait time until module reset [hours]:	<input type="text"/>	Port for downloading the config and firmware:	<input type="text"/>		
Daily restart on a fix, parametrised time [format HH:MM]	<input type="text"/>				

Ok Cancel

Advanced settings

RS232

WM-ETerm - WM-E1S (LE910-EU: 2G, 3G, 4G / LTE)

File Admin Tools Operation Settings Help

Log off

Connection type

Communication

AT interface

Standard settings

Edit values

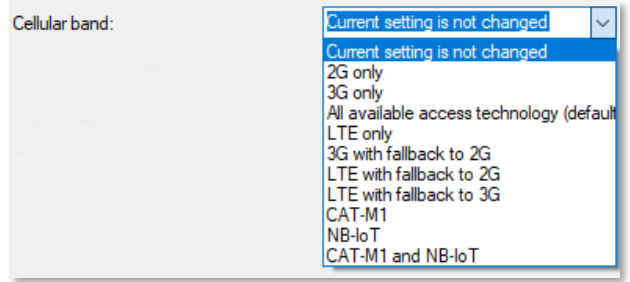
GPRS is always ON:	<input checked="" type="checkbox"/>	Watchdog check IP address:	<input type="text"/>	Meaning of LED 1:	<input type="text"/>
Mobile network technology:	<input type="text"/>	Meter port baud rate (for transparent mode and meter readout):	<input type="text"/>	Meaning of LED 2:	<input type="text"/>
SIM PIN code:	<input type="text"/>	Data format fix 8N1 for meters, that fix on 8N1:	<input type="text"/>	Meaning of LED 3:	<input type="text"/>
APN Name:	<input type="text"/>	RS485 mode:	<input type="text"/>		
APN Username:	<input type="text"/>	DCD mode:	<input type="text"/>		
APN Password:	<input type="text"/>	LastGasp Event push address:	<input type="text"/>		
PDP connection establishment delay [min]:	<input type="text"/>	Port for transparent (IEC) meter readout:	<input type="text"/>		
Wait time until modem reset [hours]:	<input type="text"/>	Port for downloading the config and firmware:	<input type="text"/>		
Daily restart on a fix, parametrised time [format HH:MM]	<input type="text"/>				

Ok Cancel

Advanced settings

RS232

Left column parameters:

1. **GPRS is always ON** – check in the field if it was empty (it will always be online)
– when enabling, it will connect to PDP only if it's in „push” mode, in any other case the GPRS part will be inactive (for FTP push or UDP/TCP push)
 2. **Mobile network technology** – here you can define the mobile access technology algorithm for network use (for 2G, 3G, LTE, Cat.M networks and for fallback* feature). See Chapter 3.3 for further details.


The screenshot shows a dropdown menu for 'Cellular band'. The menu is open, displaying a list of options. The top option is 'Current setting is not changed' with a downward arrow. Below it are: '2G only', '3G only', 'All available access technology (default)', 'LTE only', '3G with fallback to 2G', 'LTE with fallback to 2G', 'LTE with fallback to 3G', 'CAT-M1', 'NB-IoT', and 'CAT-M1 and NB-IoT'.
 3. **SIM PIN code** – check in the field if the SIM card that you are using needs a PIN code and fill in the code here
 4. **APN Name** – here you have to add the APN zone name according to the modem SIM card (ask your Mobile Operator).
 5. If the SIM requires a APN username, add the **APN Username** according the mobile operator hints of the SIM card.
 6. Then fill the **APN Password** if the SIM card uses a password for the APN access.
- Important!** If the SIM is not using **APN Username** or **APN Password** values, then leave these fields blank.
7. If the modem restarts due to an incorrect configuration, it is possible to access it with a CSD call. Its operation can be fine-tuned by setting the **PDP connection establishment delay [min]** value, where you can add a delay time (in minutes) used before the PDP activation – the parameter can be set between 1 and 255 value. This PDP Delay feature can be disabled by using the value 0). See Chapter 3.1 for further details.

8. **Wait time until modem reset [hours]** – from the start of the modem, the watchdog restarts the module at these hourly intervals. (This is true if the following field is not filled. If the **Daily Restart on a fix, parametrized time** field is filled, then only the settings there will take effect, meaning the modem will be restarted at a fixed time).
9. **Daily restart on a fix, parameterised time [format HH:MM]** – to schedule a daily restart time for the device – use **HH:MM** time format. Or leave the field empty if you do not want the device to be restarted every day.

Note, that the scheduled restart will be executed in the exact time only if the NTP settings are done and the modem also getting proper time information from the NTP server. Otherwise you can use the Mobile Operator provided time information, but at first please verify that the received time value is correct.

Middle column parameters:

1. **Watchdog check IP address** – add an IP address which can be accessed from the IP zone of the SIM card. This will be used for continuous checking of the network availability.
2. **Meter port baud rate (for transparent mode and meter reading)** E-meter serial port speed (during readout) can be also configured – define the serial data baud rate (baud) for the connection. The default and recommended value is 9600 baud and 8,N,1 mode.
3. **Data format for meters** means data connection mode for the serial port of E-meter. Select the proper value from dropdown list (e.g. 8N1, 7E1, etc.)
4. ***RS485 mode** – select a wire mode to configure the RS485 operation.
 - **2-wire** – means half duplex 2-wire pinout
 - **4-wire** – means full duplex 4-wire pinout

- **Disable** – RS485 will be used automatically (for modem versions which are having only RS232 cable, it is recommended to configure this mode).

****Important !** In case of E57C WM LTE modem, the RS485 mode is detected automatically (will be set to Disabled (which means automatic)). Note, that if you will override this setting (e.g. to 4-wire or 2-wire), then the modem will not operating properly and cannot be accessed locally – will be accessible only via TCP connection! Therefore, we suggest not to set or configure the RS485 mode in case of this modem type.*

**In case of firmware v2 this parameter is used automatically - controlled by the current firmware. Only in case of firmware v5 can be used the configured parameter setting.*

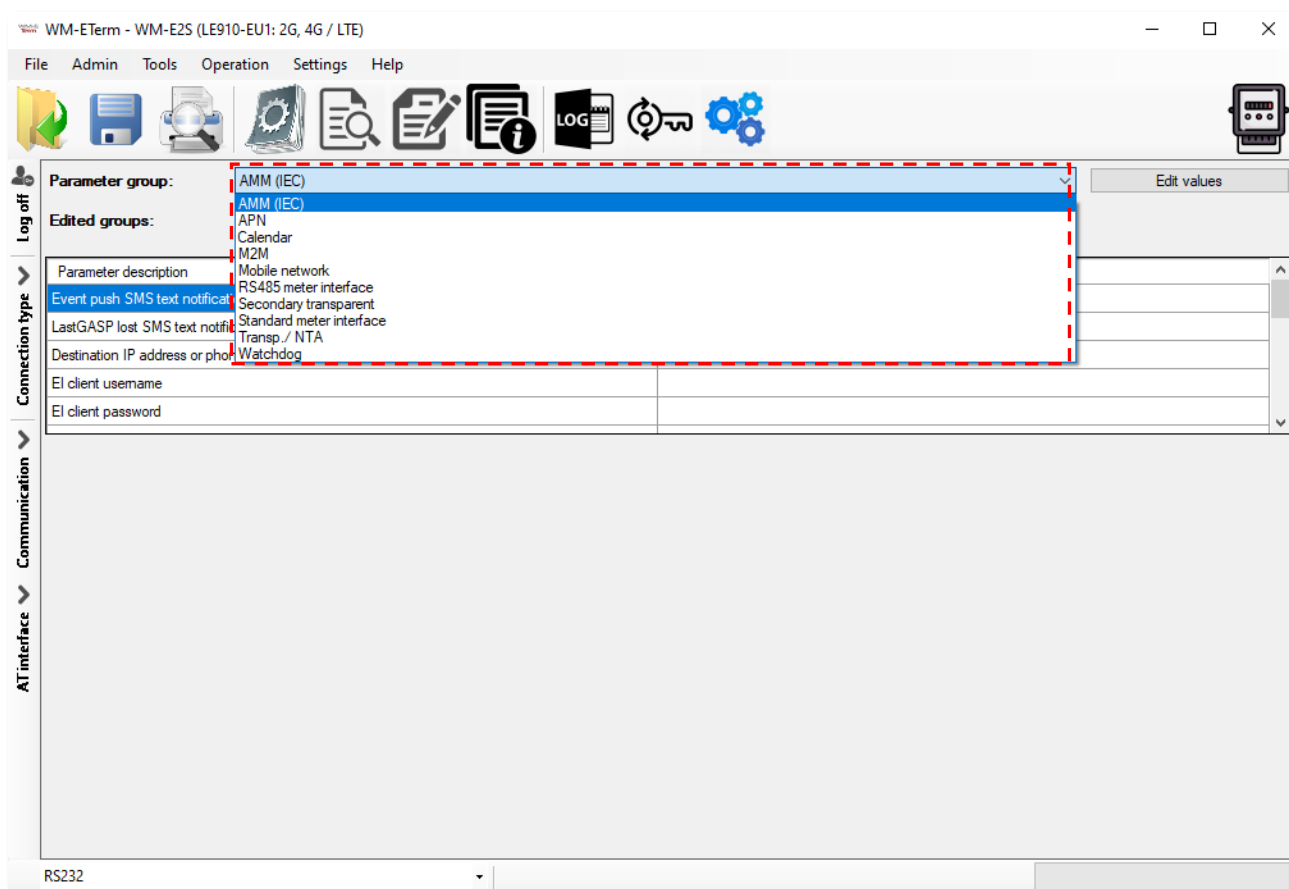
5. If you need **DCD mode** (data carrier detection) in case of RS485 version, then configure by choosing the DCD operation mode: **Fix 0** / **Fix 1** / **Standard** / **Inverted**
6. **LastGasp Event push address** – here you can add the notification address (SMS phone number / FTP or TCP/UDP (IP) address) for alarm notification (e.g. in case of power lost, input status change, etc.). In case of SMS (phone number), use the international format.
7. Here you can define the **Port for the transparent (IEC) meter readout**.
8. To define a different **Port for downloading the config and firmware** refresh.

Right column parameters:

1. **Meaning of LED 1...LED6** fields*, where you can change the LED operation for each available LED. The LED operations are pre-programmed, but can be changed if you want here.

**In case of WM-E2S / WM-E2SL the modem has only 3 LEDs (LED1..LED3).*

2. Then the configured settings can be saved by the **OK** button.
3. In **Advanced settings** mode, you can change any available parameter by choosing the required parameter group from the roll-down list and by pushing the **Edit values** button the reconfiguration will be available for the listed parameter fields and values.
4. Change the settings and push to the **Save** button to confirm settings. Note that you still have to **Write the settings** to the modem to apply.



5. Later, if you want to go to the **Standard settings** mode, you can do it by pushing the **Parameters view**  icon at the menu.

Important! In case of WM-E2S modem, before connecting to RS232 check that the modem jumpers are configured for RS232 mode. If it is necessary, jumpering the device and retry the connection.

1.8 Device Information

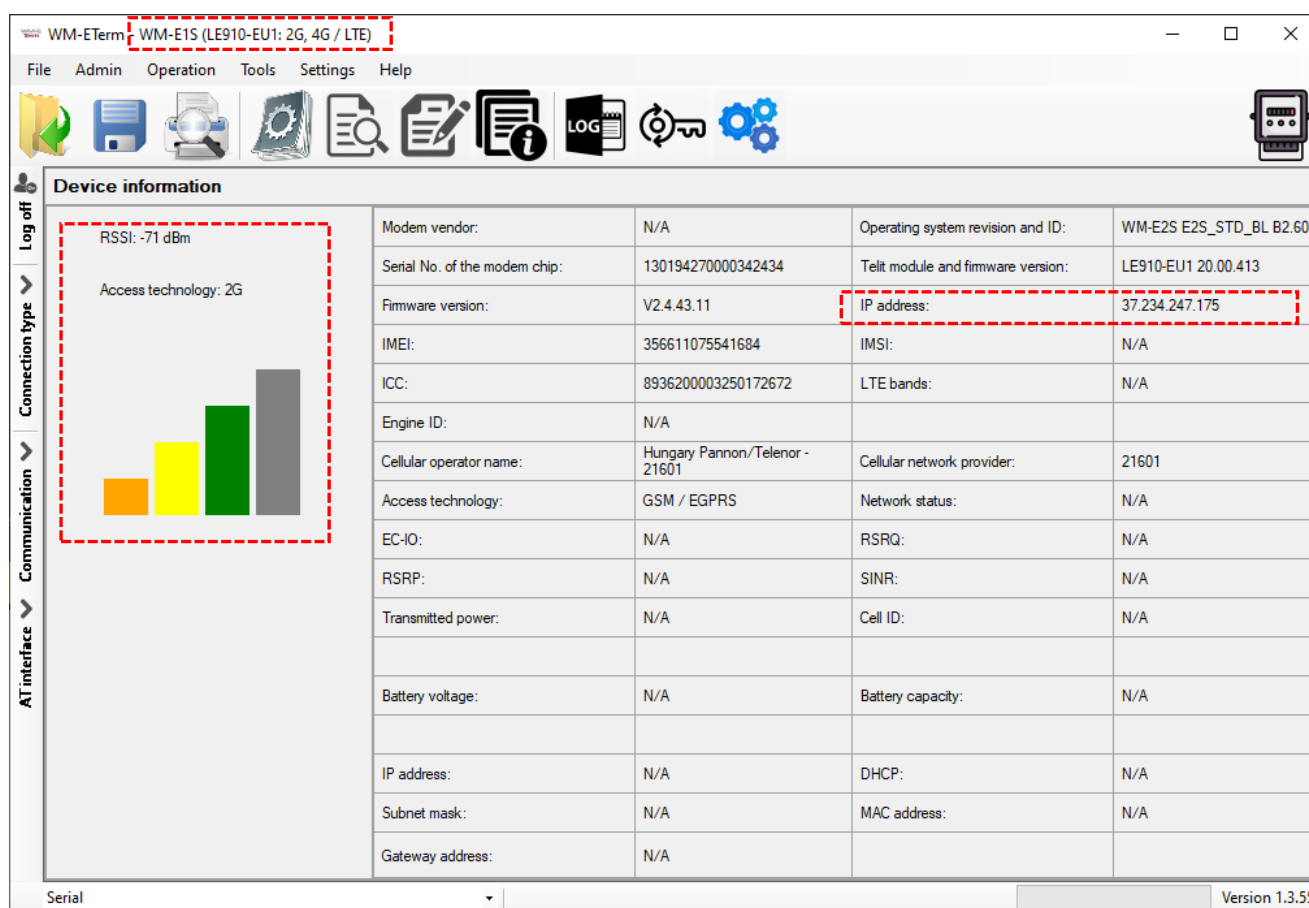
After connecting to the modem, you can check the device current status by the



icon (or choose **Operation / Device Information view** menu item).

Here, the modem type and identifiers, modem firmware and device firmware version as identifiers are listed.

The current connection settings are listed here, as modem and firmware identifiers, cellular network provider code and operator name, available network and access technology.



Device information

RSSI: -71 dBm
Access technology: 2G

Modem vendor:	N/A	Operating system revision and ID:	WM-E2S E2S_STD_BL B2.60
Serial No. of the modem chip:	130194270000342434	Telet module and firmware version:	LE910-EU1 20.00.413
Firmware version:	V2.4.43.11	IP address:	37.234.247.175
IMEI:	356611075541684	IMSI:	N/A
ICC:	8936200003250172672	LTE bands:	N/A
Engine ID:	N/A		
Cellular operator name:	Hungary Pannon/Telenor - 21601	Cellular network provider:	21601
Access technology:	GSM / EGPRS	Network status:	N/A
EC-IO:	N/A	RSRQ:	N/A
RSRP:	N/A	SINR:	N/A
Transmitted power:	N/A	Cell ID:	N/A
Battery voltage:	N/A	Battery capacity:	N/A
IP address:	N/A	DHCP:	N/A
Subnet mask:	N/A	MAC address:	N/A
Gateway address:	N/A		

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The cellular signal strength can be seen on left at the **RSSI** value and the **Access technology** – as it is displayed by colours.

If the **IP address** is filled, that means that the device is currently communicating properly on the cellular network. There you can check the IP address is given by the MO service provider for the SIM card.

Note that at **top part of the screen** the **modem type** will be also listed with the **available cellular network technologies** by the modem.

1.9 Transparent mode (for Optical type connection)

In case of using Optical connection, there is an **End Transparent mode** button at the bottom of the screen. You can switch this mode on/off and control the meter to allow or disable the transparent mode for the connecting metering modem.



Important!

*The **WM-E Term** will switch off the Transparent mode after 15 minutes, then the button will disappear. If you cannot connect to the meter, try to reconnect again and switch again the button.*

1.10 Using fixed and dynamical IP addresses

The modem can receive dynamic IP addresses - which are given by the GPRS / 3G / 4G LTE / LTE Cat.M or Cat.NB network provider's DHCP service - and use them thanks to the APN settings and is able to receive and transmit data through the network. It can also use fixed public IP and fixed private IP addresses of the cellular network services during data call, transmission and data exchange.


After performing the proper APN settings, you can check the given IP address of the network provider, when connecting to the modem via the serial link.

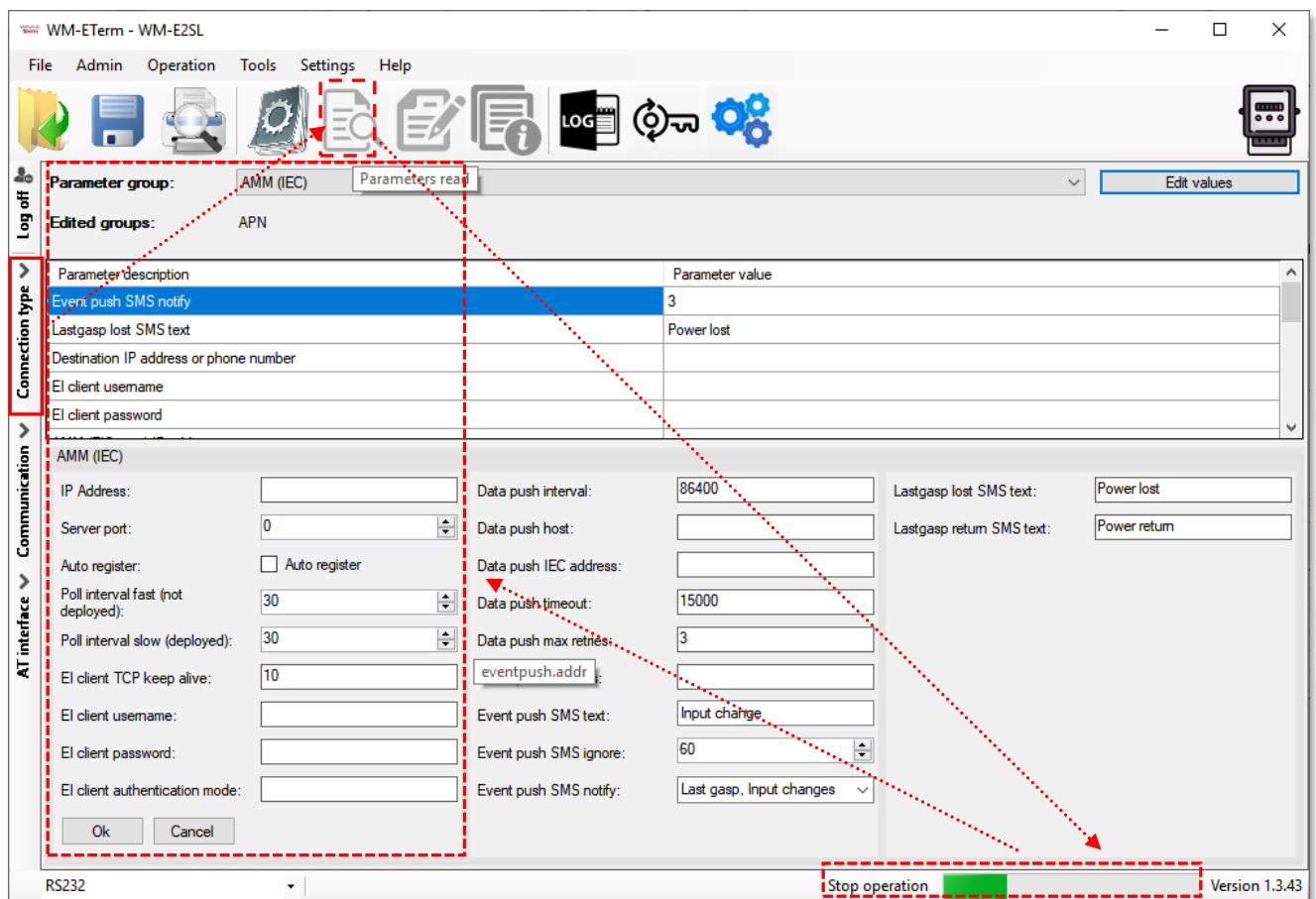
At the **Log communication** tab on the left edge of the screen you can see the log for checking the current IP address or use the **Operation menu** / **Device**

Information  icon.

Chapter 2. Configuration

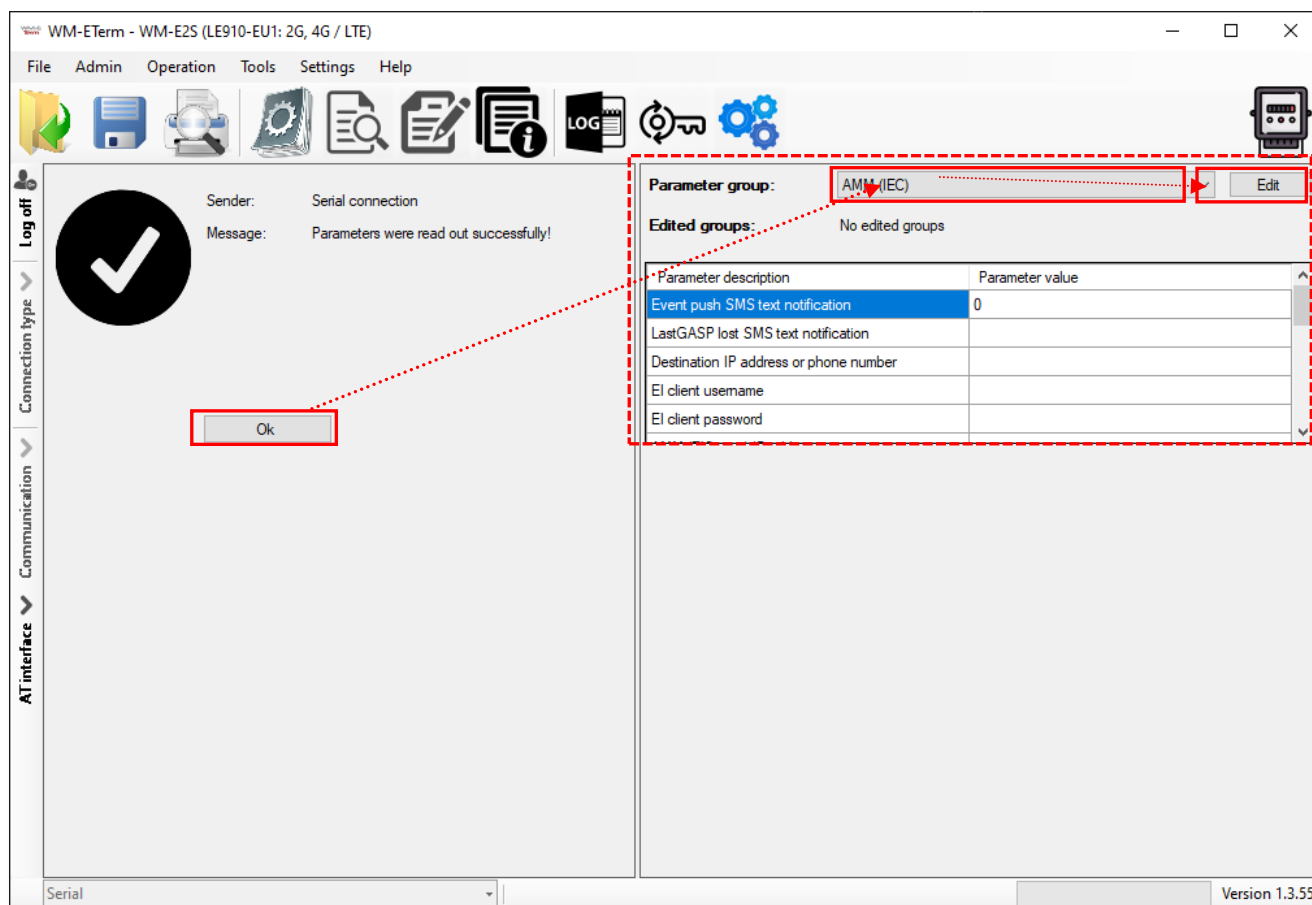
2.1 Parameter readout (from the meter)

1. Open the **Parameters read**  icon to read out the parameters from the modem.
2. This will initiate the modem connection in the background via the used connection profile. The program tries to readout the parameters, which can be checked by the progress indicator on the right-bottom side of the screen.
(If you want to cancel the readout and the connection you can **Stop operation**.)
3. You can check the connection any time by the **Connection** button on the left-side. Then the current modem communication messages, commands and answers will be listed on the left side of the screen.



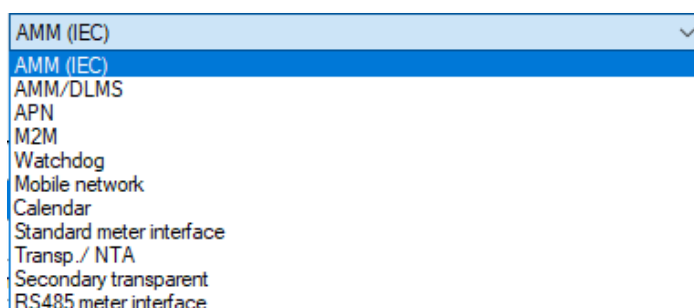
4. Then the **connection successful** message appears. (In case of a connection failure the error message will also appear here.)

5. The WM-E Term then loads the listed and read out parameter values.
6. Confirm the readout process by pushing the **OK** button – on the left.



7. At the top of the settings, the available parameter groups and its listed parameters can be seen. This is where you can choose another **Parameter group** by its button.


The available parameter groups depend on the currently used metering modem model and the used firmware.



8. After loading the parameters at the top of the screen, you will then see the readout parameters and its values - at the bottom.

Available parameter groups:

- **AMM (IEC)** – Data push, Event push (SMS messages*, LastGASP*) and EI client
- **APN** – APN zone settings (for the SIM card)
- **M2M** – GPRS connection settings
- **Watchdog** – GPRS watchdog- and modem restart settings
- **Mobile Network** – Cellular network settings of the internet module / SIM
- **Calendar** – Calendar settings and time zone (daylight) settings
- **Standard meter interface** – Date format, identifiers, LED operation settings
- **Transp./NTA** – serial data transmitting settings (transparent mode, etc.)
- **RS485 meter interface** –for RS485 meter connection settings – do not use this group in case of **E57C WM LTE®** modem type.
- **Device Manager** – for configuring the Device Manager® server connection for monitoring and maintaining the modems remotely
- **Network protocols** – in case of *TLS* firmware for *SNMP*, *NTP* settings

9. By pushing the **Parameters readout**  icon (menu item) you can repeat the whole readout, when it is necessary, or even if you want to test the settings.
10. To edit the parameters, push the **Edit values** button to the right from the **Parameter group**.
11. You will then see the parameter values listed, and you can modify them.
12. When you have modified the required parameters, push the **OK** button to record the settings.

Note, that settings will NOT be saved / sendd automatically to the modem!

To send/write parameters to the modem, push to Parameters write  icon!

WM-ETerm - WM-E2S (LE910-EU1: 2G, 4G / LTE)

File Admin Operation Tools Settings Help

Log off

Parameter group: AMM (IEC) Edit values

Edited groups: No edited groups

Parameter description	Parameter value
Event push SMS text notification	0
LastGASP lost SMS text notification	
Destination IP address or phone number	
EI client username	
EI client password	

Communication

AT interface

AMM (IEC)

IP Address:

Server port:

Auto register: ☐ Auto register

Poll interval fast (not deployed) [sec]:

Poll interval slow (deployed) [sec]:

EI client TCP keep alive [min]:

EI client username:

EI client password:

EI client authentication mode:

Data push interval [sec]:

Data push periodic:

Data push host:

Data push prefix:

Data push timeout [msec]:

Data push max retries:

Data push retry delay[s]:

Data push table mask:

Data push IEC meter address:

Data push IEC readout baudrate:

Event push address:

Event push SMS text:

Event push SMS ignore until [sec]:

Event push SMS notification:

LastGASP lost SMS text notification:

LastGASP return SMS text notification:

OK Cancel

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WM-ETerm - WM-E2S (LE910-EU1: 2G, 4G / LTE)

File Admin Operation Tools Settings Help

Log off

Parameter group: AMM (IEC) Parameters write Edit values

Edited groups: No edited groups

Parameter description	Parameter value
Event push SMS text notification	0
LastGASP lost SMS text notification	
Destination IP address or phone number	
EI client username	
EI client password	

Communication

AT interface

AMM (IEC)

IP Address:

Server port:

Auto register: ☐ Auto register

Poll interval fast (not deployed) [sec]:

Poll interval slow (deployed) [sec]:

EI client TCP keep alive [min]:

EI client username:

EI client password:

EI client authentication mode:

Data push interval [sec]:

Data push periodic:

Data push host:

Data push prefix:

Data push timeout [msec]:

Data push max retries:

Data push retry delay[s]:

Data push table mask:

Data push IEC meter address:

Data push IEC readout baudrate:

Event push address:

Event push SMS text:

Event push SMS ignore until [sec]:

Event push SMS notification:

LastGASP lost SMS text notification:

LastGASP return SMS text notification:

OK Cancel

Serial

Stop operation

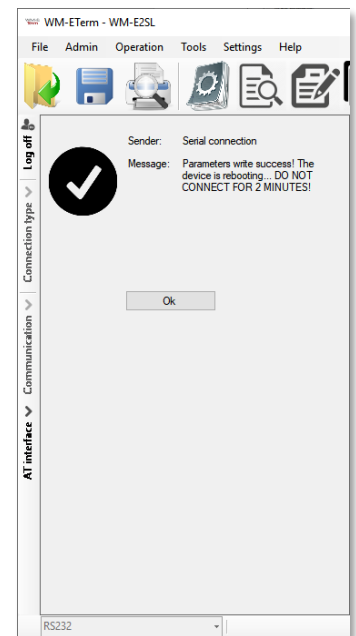
Version 1.3.55

13. Then the whole parameter list and the values will then be sent to the modem. The right bottom progress indicator will show the percentage of the writing.

14. A success message will then appear. Push the **OK** button to continue.

Important! After parameter writing/sending, the modem will be automatically disconnected and rebooting. Afterall it will be operating with the new settings.

The reboot process could take about 2-3 minutes until the modem's availability. During this you cannot access to the meter. Wait, while the modem will be available again!



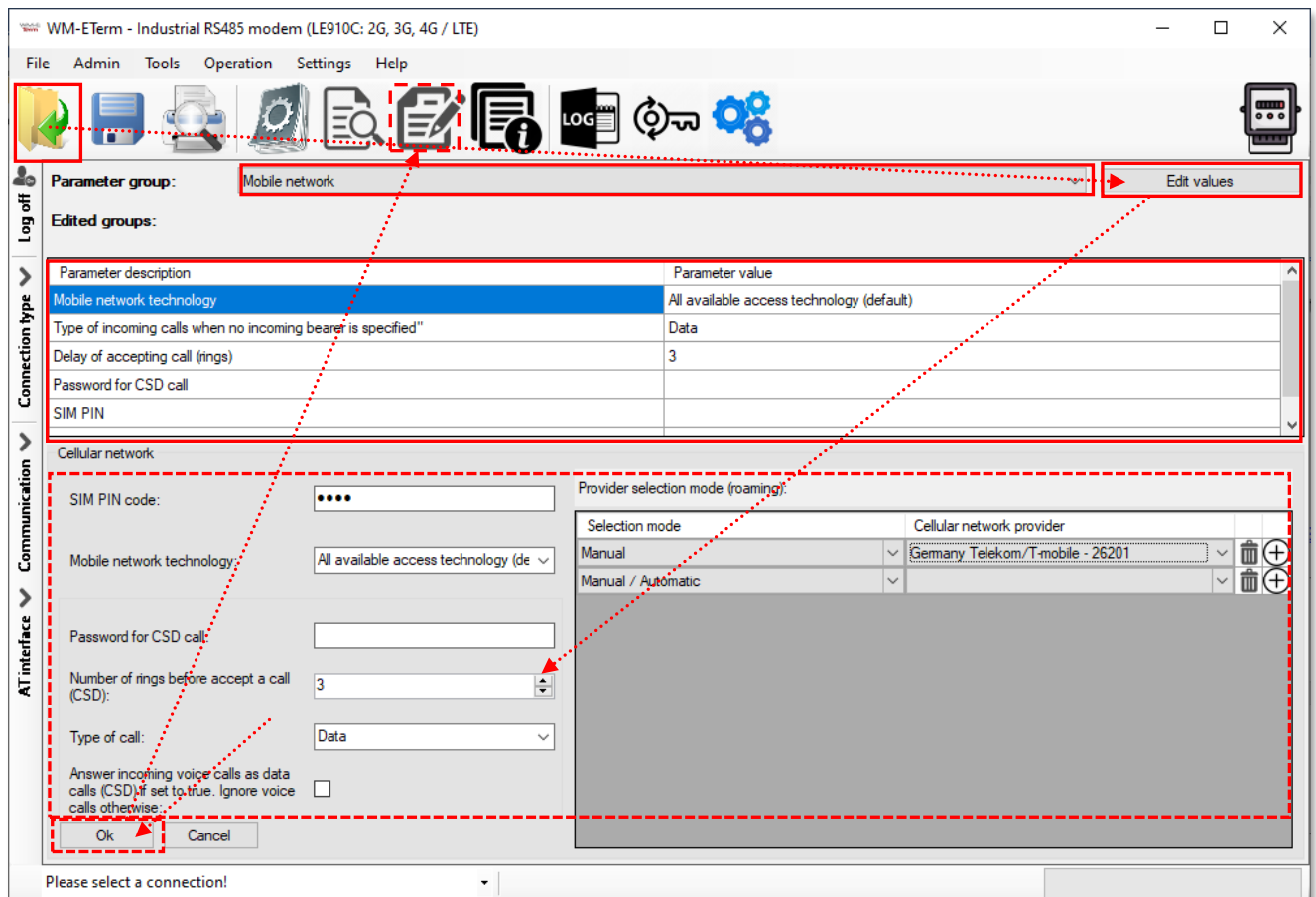
2.2 Saving the parameters

Open the **File** menu **Save** item to save the currently modified **configuration** (into a .CFG extension file).

2.3 Loading the saved parameters

1. When you already have a previously saved and prepared configuration, you can open it from the **File** menu by the **Open** item.
2. Browse the required configuration file (with .CFG extension) and push the **Open** button.
3. The program will then load the parameters, and you can write the parameters to the modem/meter as it was described before.

- For the editing, choose a **Parameter Group** from the drop-down menu, the stored parameters will be listed automatically.



- Click on the **Edit values** button and you can edit or change the stored modem parameters.
- Push the **OK** button after the modification.
- You can also save these settings to an another configuration file (.CFG).

Important!

Note that by saving or pushing OK, the modified parameters will not be automatically saved or sent/written to the modem.

*You have to send the parameters to the modem directly - choose the **Parameters***

write  *button for the sending of the parameters!*

2.4 Mass configuration (for multiple devices)

You can use this feature for quick parameter configuration of multiple modems.

1. Choose the **Tools / Mass Configuration** item from the menu.

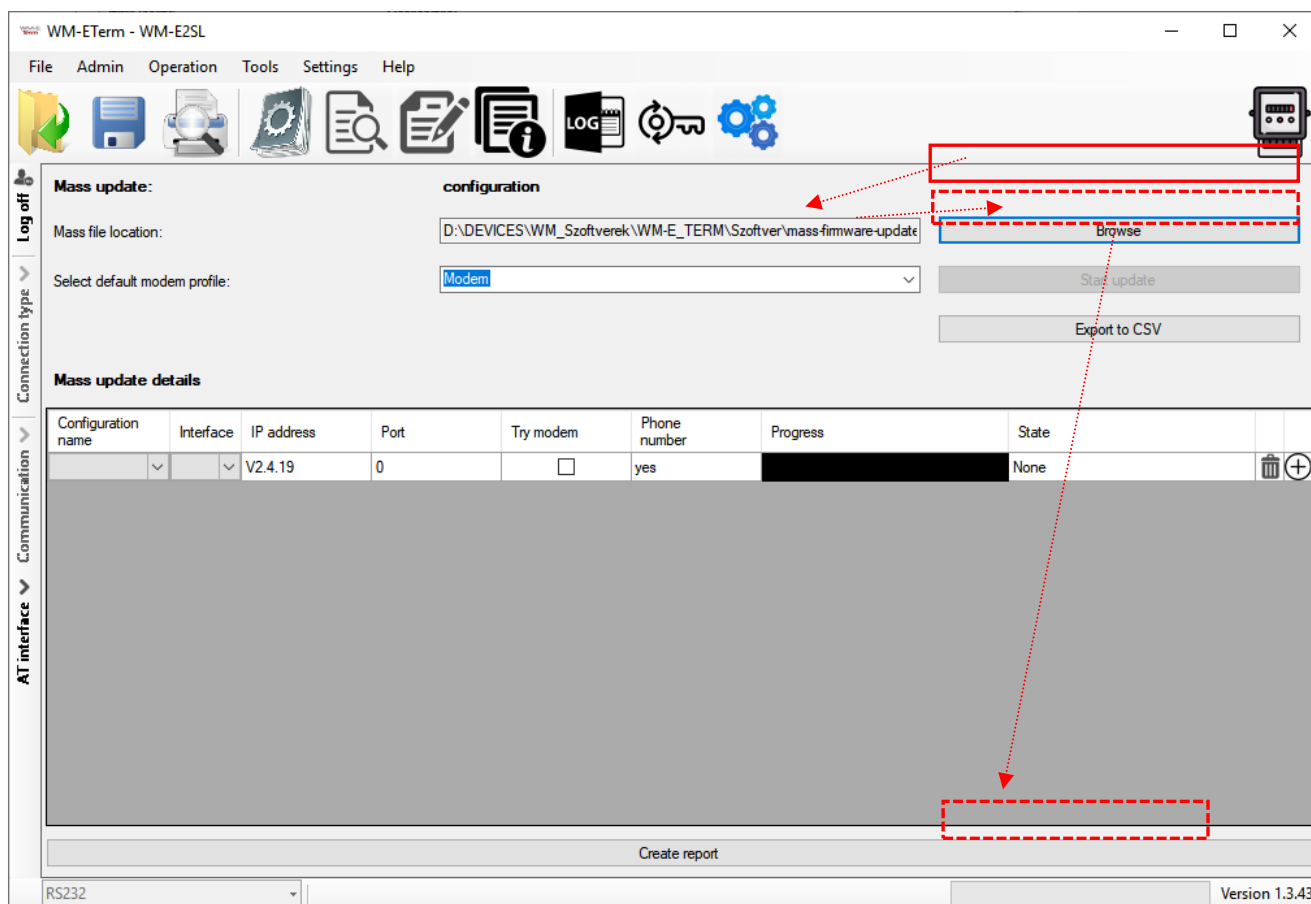
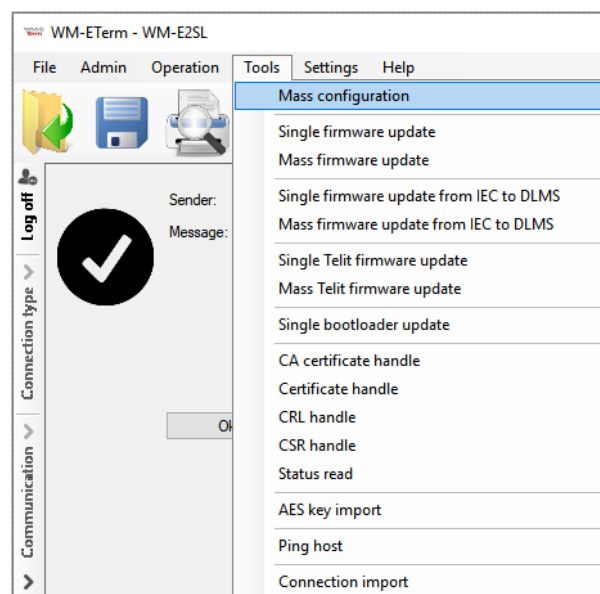
2. Push the **Browse** button to select a mass configuration file (*.CSV extension)

**The mass configuration CSV file must be created by the Customer.*

3. The requested list is loaded. You can **Select a default modem type**.

You can add items or modify the settings.

4. Then the configuration software will connect according to the modem profile settings.



Important! *Note that the new configuration will be available only after the mass configuration file upload process is finished.*

5. Push the **Start update** button to begin the multiple modem configuration. The update will be valid for the listed modems.

The configuration process will be performed one by one (entry to entry) in sequence order.

6. The current status of the configuration refresh method will be shown at the progress bar.

Attention! *The modem has several firmware types. Therefore, always ask our sales team about the proper firmware version. Please note, when updating the modem by a firmware, the current modem configuration settings will be overridden – if they existed before the mass configuration process.*

7. At the end of the parameter configuration upload process, the modems will be restarted and those by using the new firmware.

Chapter 3. Parameter settings

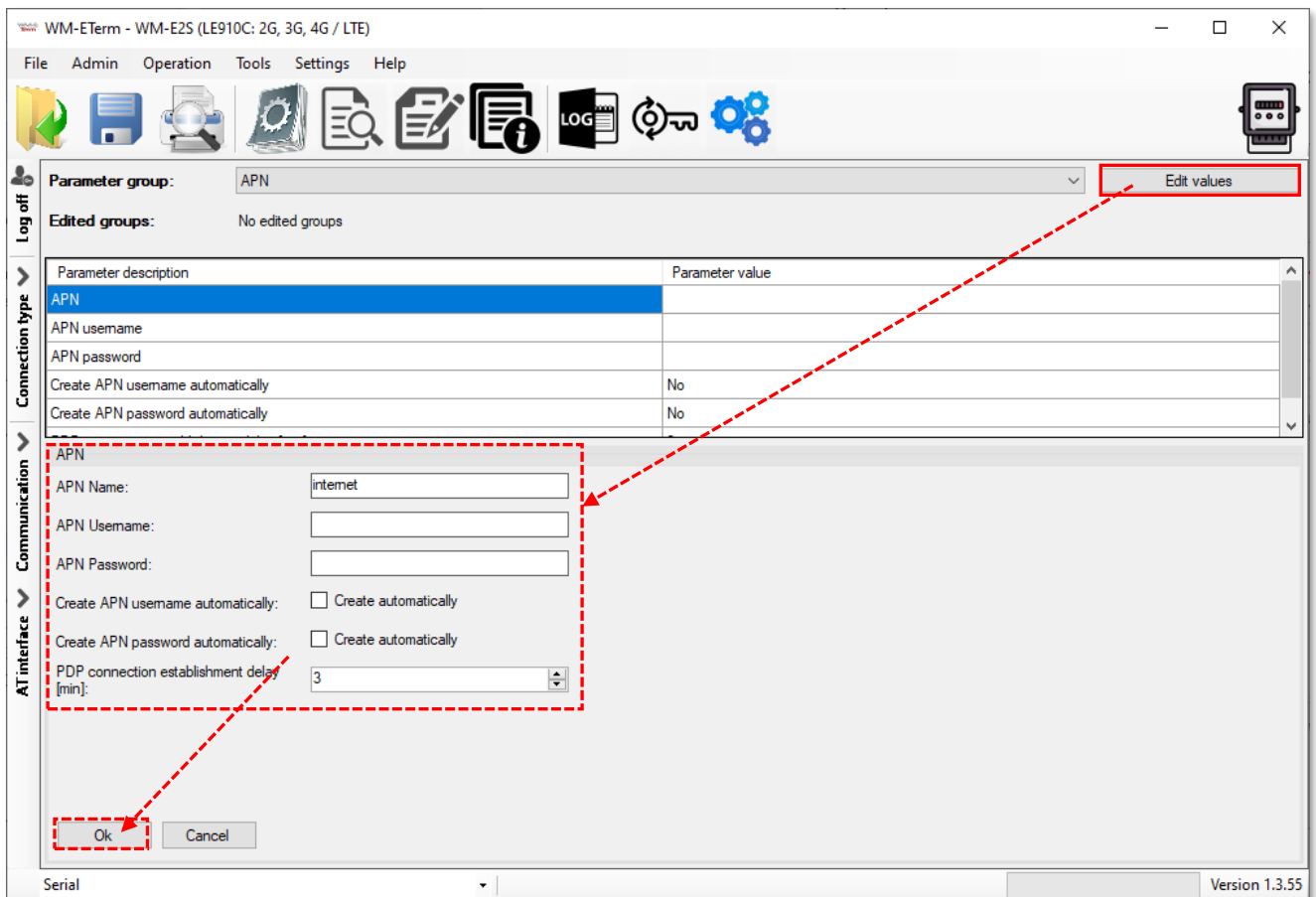
Here you will find the minimal and recommended settings of the meter device for the proper data connection, mobile network communication and operation.

Read out the parameters of the modem with the **Parameter Read**  icon.

When the readout process has been finished, choose a **Parameter group** by the next listed hints and following steps. After this stage, you have to send the parameters to the modem – see later.

3.1 APN settings

1. Choose the **APN** group.
2. Push the **Edit values** button, and the relevant parameters and their values will be listed.



WM-ETerm - WM-E2S (LE910C: 2G, 3G, 4G / LTE)

File Admin Operation Tools Settings Help

Parameter group: APN Edit values

Edited groups: No edited groups

Parameter description	Parameter value
APN	
APN username	
APN password	
Create APN username automatically	No
Create APN password automatically	No

APN

APN Name: internet

APN Username:

APN Password:

Create APN username automatically: ☐ Create automatically

Create APN password automatically: ☐ Create automatically

PDP connection establishment delay [min]: 3

Ok Cancel

Serial Version 1.3.55

3. At the bottom side of the screen fill in the following fields:
 - **APN Name** – here you have to add the APN zone name according to the modem SIM card (ask your Mobile Operator).
4. If the SIM requires a APN username, add the **APN Username** according the mobile operator hints of the SIM card.
5. Then fill the **APN Password** if the SIM card uses a password for the APN access.

Important!

*If the SIM is not using **APN Username** or **APN Password** values, then leave these fields blank.*

*Note that **APN Username** or **APN Password** fields' content – if they are used – these are replaced by substitute **xxxxxxx** characters by security reasons. If you change one of these fields, always rewrite /refresh the field content, never leave the characters on **xxxxxxx** when you are modify the **APN settings** parameter group!*

Important!

*The PIN settings of the SIM can be configured in the **Cellular network** parameter. Check the setting if your SIM uses a PIN code for authentication.*

6. If the modem restarts due to an incorrect configuration, it may be possible to access it due to a CSD call. This operation can be fine-tuned by setting the **PDP connection establishment delay** value, where you can add a delay time (in minutes) which will be used before the PDP activation. The PDP parameter can be set between 1 and 255 (minutes) and by value 0 the delay feature can be disabled).

You may need this function because it is possible that the modem did not receive an IP address the first time - in some cases not even several times,

and in this case it waits for the specified time - to have a chance to connect, so it can give the CSD connection more time than usual for modem.

Operation of PDP delay in case of v2.x firmware versions:

- The firmware tries to perform PDP activation three times - if it could not connect to the network and did not receive an IP address.
- Waits a short time between attempts, then continues with the next attempt.
- If the 3x PDP activation fails, it waits the specified number of minutes until the next attempt, based on the value specified in the PDP connection setup delay field.
- After the PDP connection establishment delay value expires, it returns to the first point.

Operation of PDP delay in case of v5.x firmware versions:

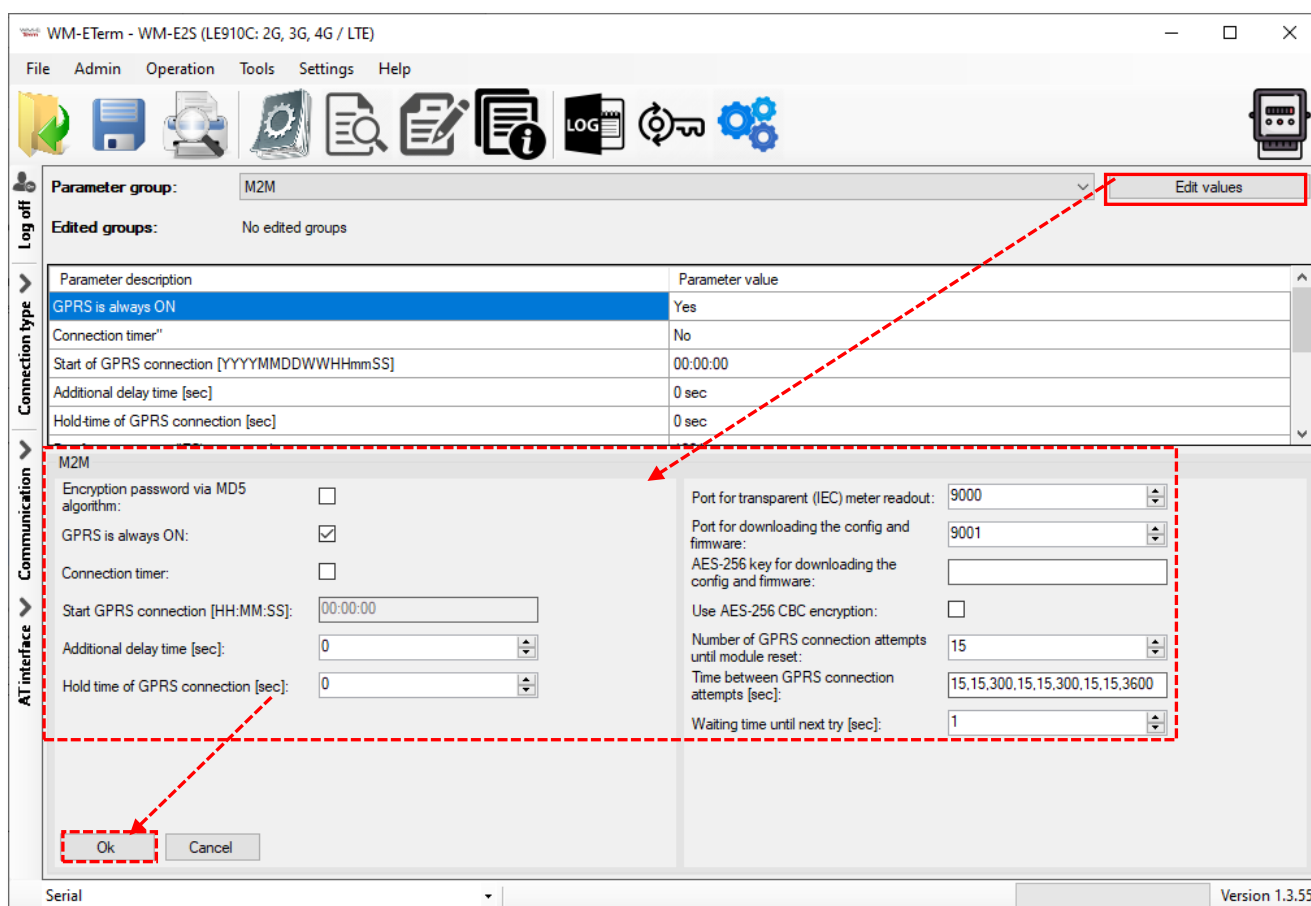
- The firmware tries to perform PDP activation three times - if it could not connect to the network and did not receive an IP address.
- Take a 1-minute break between each attempt, then continue with the next attempt.
- If the PDP activation fails, the PDP waits for the specified number of minutes until the next attempt, based on the value specified in the PDP connection setup delay field.
- After the PDP connection establishment delay value expires, it returns to the first point.

7. Push the **OK** button and continue with the next part.

3.2 Wireless settings

1. Choose the **M2M** group for the cellular communication settings (2G, 3G, 4G, etc).
2. Push **Edit values** button, and relevant parameters and values will be listed.

3. At the bottom side of the screen, fill in the following fields:
 - **GPRS is always ON** – check in the field if it was empty (it will always be online)
 - when enabling, it will connect to PDP only if it's in „push” mode, in any other case the GPRS part will be inactive (for FTP push or UDP/TCP push)
 - You can enable the **Connection timer** – only if you are not using the **GPRS always ON** option (when it is disabled)



WM-ETerm - WM-E2S (LE910C: 2G, 3G, 4G / LTE)

File Admin Operation Tools Settings Help

Parameter group: M2M Edit values

Edited groups: No edited groups

Parameter description	Parameter value
GPRS is always ON	Yes
Connection timer	No
Start of GPRS connection [YYYYMMDDWWHHmmSS]	00:00:00
Additional delay time [sec]	0 sec
Hold-time of GPRS connection [sec]	0 sec

M2M

Encryption password via MD5 algorithm: ☐

GPRS is always ON: ☒

Connection timer: ☐

Start GPRS connection [HH:MM:SS]: 00:00:00

Additional delay time [sec]: 0

Hold time of GPRS connection [sec]: 0

Port for transparent (IEC) meter readout: 9000

Port for downloading the config and firmware: 9001

AES-256 key for downloading the config and firmware:

Use AES-256 CBC encryption: ☐

Number of GPRS connection attempts until module reset: 15

Time between GPRS connection attempts [sec]: 15,15,300,15,15,300,15,15,3600

Waiting time until next try [sec]: 1

Ok Cancel

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4. In case of enable the **Connection timer**, the **Start GPRS connection** can be defined for the modem's GPRS connection / to push data (in HH:MM:SS format / syntax) via cellular network. Note that it is usable only if the **GPRS Always ON** parameter was disabled!

5. **Encryption password via MD5 algorithm** – You can ask for encryption of the password via MD5 algorithm. Values: 0 = false, 1 = true
6. **Additional delay time** interval (in seconds) - in case of using "push" to give some delay before build-up the connection.
7. **Hold time of GPRS connection** - When there is no available GPRS connection, after the defined time (in seconds) will try to reconnect the GPRS connection. After alarm push, the PDP context will be deactivated and disconnected after this defined interval. Will be valid only if the **GPRS Always ON** parameter was set to „disable”.

Note, that the modem uses the default nr. 9000 port for communication and the port nr. 9001 for configuration and firmware refresh.

8. Here you can define the **Port for the transparent (IEC) meter readout**.
9. To define a different **Port for downloading the config and firmware** refresh.
10. Select the **AES-256 CBC encryption** if you want and the **AES-256 key for download config and firmware** option.
11. You can also configure the **Number of GPRS connection attempts until module- reset** – means the number of maximum GPRS (PDP) connection attempts 'till module-restart.
12. There are preseted some refine settings to define as **Time between GPRS connection attempts** (in seconds) - if the PDP context activation was not successful, it will delay the reconnection according by the following:

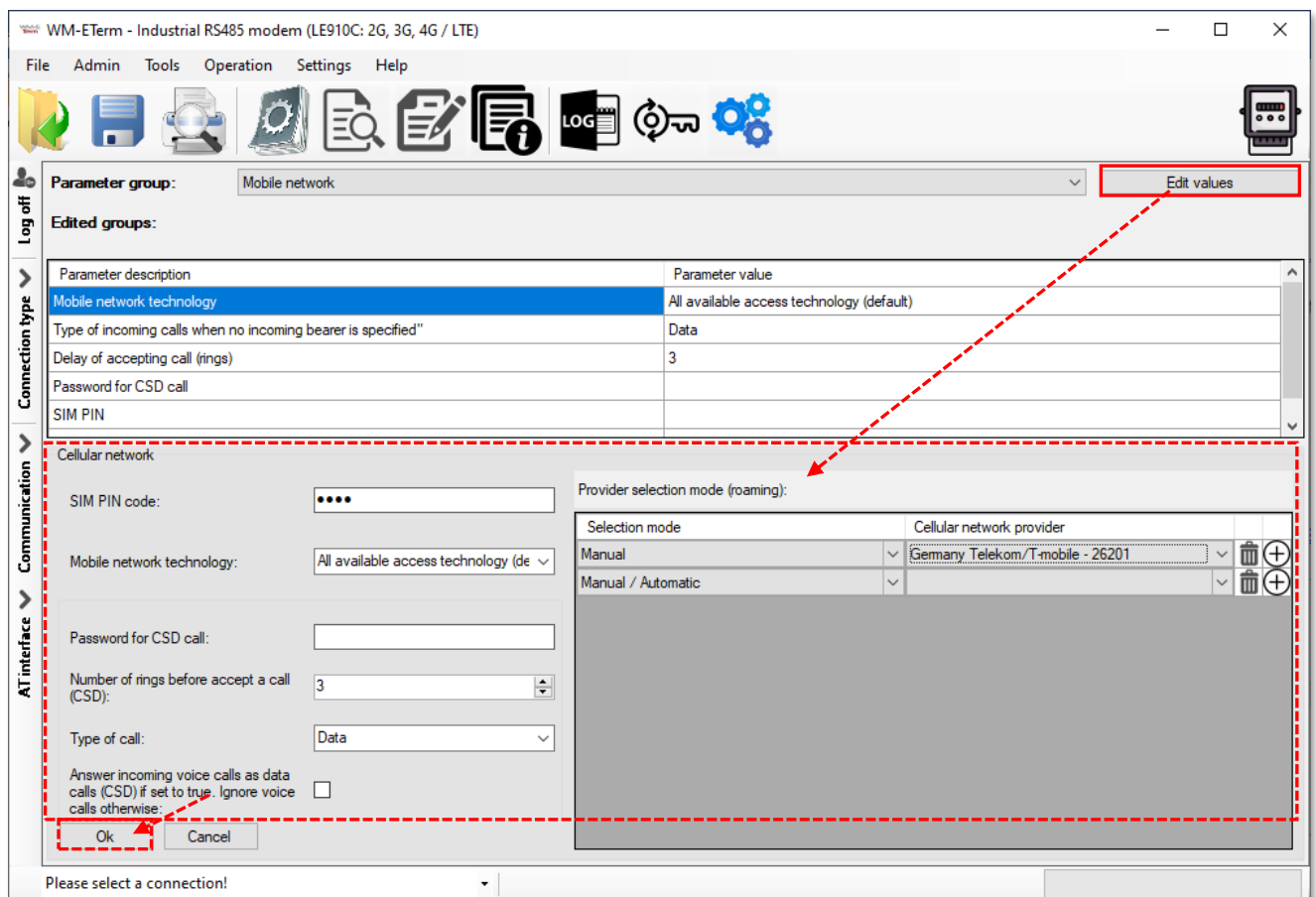
From the value list e.g. „15, 15, **300**, 15, 15, **300**, 15, 15, **3600**” the last position – the value „3600” (seconds)- will be the first valid delay value. When that time has elapsed, the three earlier position will be valid – the value in our example

is „300” (seconds) – after this time has elapsed, the the three earlier posititon will be active – the value „300”.

13. The **Waiting time until next try** field – waiting time between connection attempts. If the PDP context activation was not succesful, then it will wait until for the defined interval to the re-activation. If that reached the end of the time [secs] between **GPRS connection attempts** parameter value timeout, it goes back to the list, otherwise it is not used. (The parameter is not implemented yet.)
14. Push the **OK** button and continue with the next part.

3.3 Cellular network settings

1. Choose the **Mobile network** group for editing the cellular connection parameters.



WM-ETerm - Industrial RS485 modem (LE910C: 2G, 3G, 4G / LTE)

File Admin Tools Operation Settings Help

Parameter group: Mobile network Edit values

Edited groups:

Parameter description	Parameter value
Mobile network technology	All available access technology (default)
Type of incoming calls when no incoming bearer is specified"	Data
Delay of accepting call (rings)	3
Password for CSD call	
SIM PIN	

Cellular network

SIM PIN code:

Mobile network technology: All available access technology (de)

Password for CSD call:

Number of rings before accept a call (CSD): 3

Type of call: Data

Answer incoming voice calls as data calls (CSD) if set to true. Ignore voice calls otherwise: ☐

Ok Cancel

Provider selection mode (roaming):

Selection mode	Cellular network provider
Manual	Germany Telekom/T-mobile - 26201
Manual / Automatic	

Please select a connection!

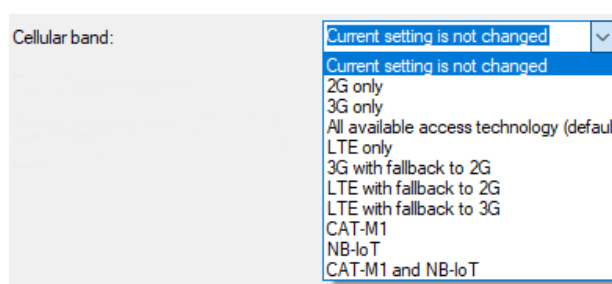
2. Push the **Edit values** button, and the relevant parameters and their values will be listed. Configure the parameters.
3. **SIM PIN code** – check in the field if the SIM card that you are using needs a PIN code and fill in the code here
4. **Mobile network technology** – here you can define the mobile access technology algorithm for network use (for 2G, 3G, LTE, Cat.M networks and for fallback* feature).

The useable network technology options of the current internet module are listed on the top of the screen as it is marked on the next figure.



Options:

Current settings is not changed – the modem will try to use the default factory settings for connection. By using this option, the modem will try to register to the last successfully used technology.



Note, that if you change the SIM card in the modem, we do not recommend to use this option.

Note, that here you can always find only the modem related network technology settings and cellular network combinations (e.g. only-modes, fallback-modes, etc.).

All available access technology – usable only for the modules, which are supporting the 4G and 3G and 2G networks!

- **LTE with fallback to 2G / LTE with fallback to 3G** – usable only for modules, which are supporting fallback channels (etc. LTE module with 3G/2G fallback). Fallback means, that in case of outage of the primary selected network (e.g. LTE), the module will switch to the fallback network (e.g. 2G or 3G) and will be operating further on that channel. When the primary band will be available again, the modem will switch back to the primary technology (to the LTE). It's a fail-safe setting.
- **2G only, 3G only, Cat.M1, NB-IoT** – the modem will be operating only on the selected network type, if the internet module supports the selected cellular network technology. If the technology cannot be accessed temporary, the module won't be operating. It's not a fail safe setting.
- **LTE only** – in case of LTE and Cat.M modems, we suggest to choose this option.
- **Cat-M1 and NB-IoT** – usable only for Cat.M/NB modules. The available network will be used automatically.
- **Cat.M / Cat.NB with 2G fallback** – we suggest do not change the value of the All available access technology field.

Further parameters here are for configuring the CSD:

- Add a **Password for CSD call** – login pass for call and SMS
- **Number of rings before accept a call (CSD)** – Waits for the defined number of rings before accepting the data call (CSD)
- **Type of call** – here you can define *Data*, *Fax* or *Voice* mode for the barrier type of incoming calls (CSD). We suggest you to use the *Data* option here.

- **Answer incoming voice calls as data calls (CSD) if set to true. Ignore voice calls otherwise.** Here you can enable the CSD transformation of voice calls.

5. On the right side of the screen you can define the **Provider selection mode (roaming)** – the cellular network provider change parameter. Fill, only if you attempt to define a dedicated mobile network to use. The selection list is provided by the international mobile operators.

The connection method can be *Manual* or *Automatic*.

Here you can also **add, modify** or **delete** the selection mode in the list.

6. Push the **OK** button and continue with the next part.

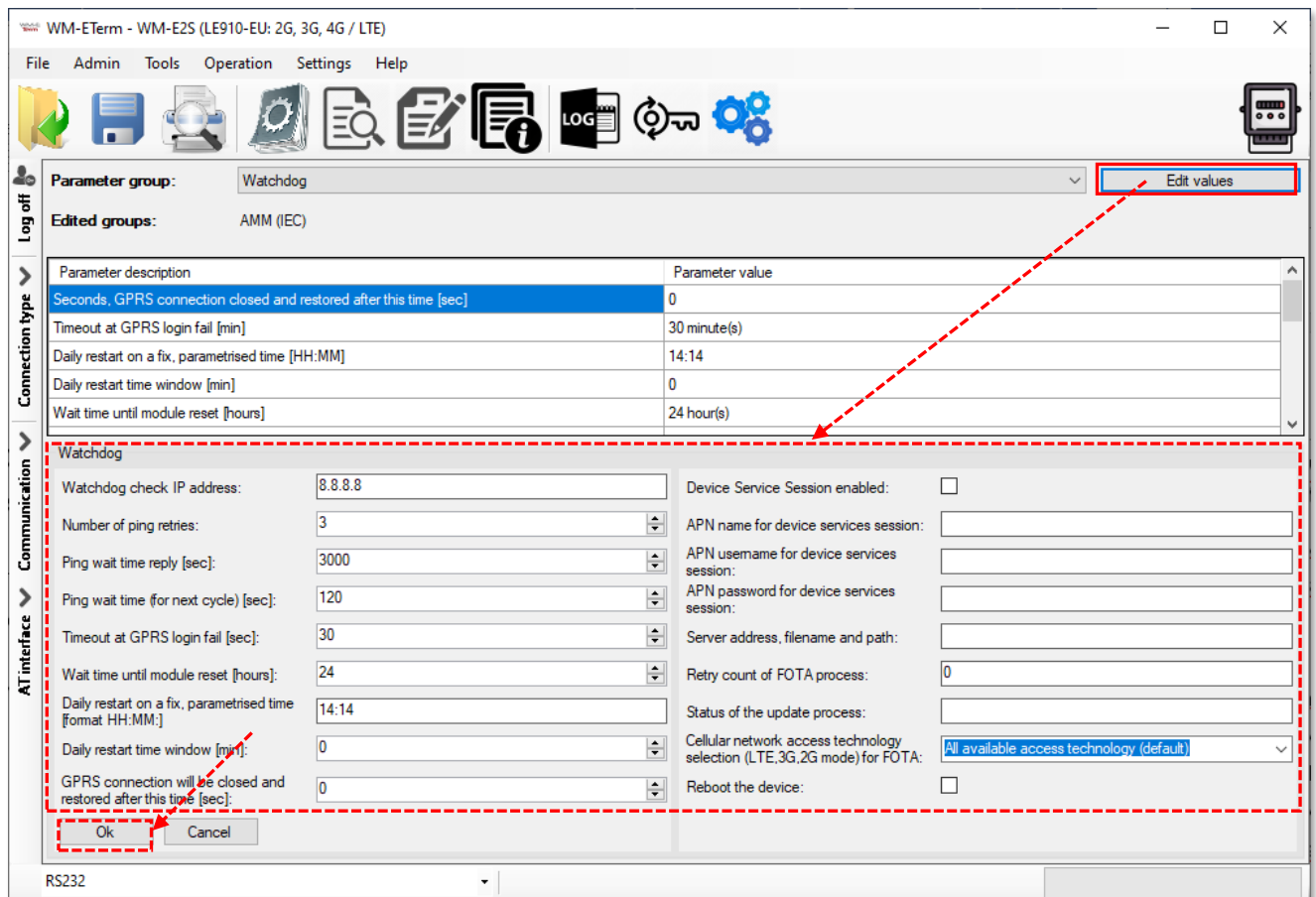
3.4 Watchdog settings (monitoring the modem operation and scheduled modem restart)

The device is able to perform manual/auto reboot with the following options configurable from both the configuration program (WM-E Term) and SNMP.

You can configure here the following reboot options:

- Auto reboot to be disabled (configurable)
- Manual reboot (caused by any configuration modification)
- Auto reboot will run periodically based on a configurable timer which can be set up to 24 hours (configurable and can be scheduled)

The automatic restart monitors the "keep alive" message from the processor through the watchdog timer at predetermined intervals. If the watchdog timer stops receiving the "keep alive" message, it initiates a restart. The watchdog function operates independently of the processor. The device is set with a hardware watchdog, which continuously monitors the modem's operation, thus during the GSM module startup, SIM card initialization, network registration, and active communication.



If the GSM module startup, SIM card initialization, or modem network registration fails, or access is not assured, then at specified intervals, the modem repeats these tasks and attempts to set up and start the module, until the mobile network connection and communication are established. In addition, communication monitoring of the modem is also solved.

The following events can be set in the program regarding the operation of the watchdog:

- module restart in case of RF module firmware shutdown
- network search restart in case of network outage
- RF module restart after several unsuccessful attempts
- RF module restart after multiple unsuccessful GPRS connection attempts
- fixed restart after a specified runtime

Management of the vital signs, GSM modem disconnection from the mobile network, and its reconnection can also be configured in the program as follows.

If the mobile network provider disconnects the modem from the mobile network due to network inactivity, there are certain parameters available, which if set, then the connection automatically and periodically rebuilds.

When the mobile service provider sends a message to the modem that the data connection has been interrupted, the connection is automatically restored. If no message is sent, set the pinging in the **Watchdog** parameter group, press the **Edit Values** button, and configure the following parameters:

You can configure the ping parameters as these are listed below:

1. **Watchdog check IP address** – add an IP address which can be accessed from the IP zone of the SIM card. This will be used for continuous checking of the network availability.
2. **Number of ping retries** – connection attempts.
3. **Ping wait time reply [sec]** – it is a timeout of ping interval (for checking the cellular network availability) – value in milliseconds.
4. **Ping wait time (for next cycle) [sec]** – it is an interval (wait time) between ping cycles, time interval until the next ping sequence occurring (for checking the cellular network availability). If there is no ping response, it reconnects to the network after the specified time interval (in seconds), where the GPRS connection will be closed and restored after spending the defined interval.

If there is no response to the ping request, the device is reconnected to the network after the time interval specified in the **GPRS login error timeout [sec]** and the device reconnecting to the cellular network.

Attention! *In case of frequent ping using, the data traffic will be higher, but the chances are higher that the device will remain on the cellular network.*

Further settings:

- 5. Timeout at GPRS login fail [sec]** – it is timeout when GPRS (PDP) login fail occurs - tolerance interval of PDP connection establishment error
- 6. Wait time until modem reset [hours]** – from the start of the modem, the watchdog restarts the module at these hourly intervals. (This is true if the following field is not filled. If the **Daily Restart on a fix, parametrized time** field is filled, then only the settings there will take effect, meaning the modem will be restarted at a fixed time).
- 7. Daily restart on a fix, parametrised time [format HH:MM:]** – to schedule a time for daily restart of the modem – set an exact time in **HH:MM** time format. Or leave the field empty if you do not wish to restart every day. (This applies if the previous field - **Wait Time until modem reset** - is not filled. If it is filled, then the settings there will take effect, meaning the timing starts from the last restart of the modem, and upon the completion of the number of hours set there, the device will be restarted).
- 8. Daily restart time window [minutes]:** The use of this field allows for random restarts. It works by specifying an interval here (in minutes) relative to the previously set **Daily Restart** value, and the restart will occur within „N” minutes of the time specified in the previous field. For example, if you set the **Daily Restart** to **10:00**, and then set the **Daily restart time window** field to **120** (120 minutes, which is 2 hours), the modem will be randomly restarted sometime between 10:00 and 12:00.

Important!

Note, that the scheduled restart will be executed in the exact time only if the NTP settings are done and the modem also getting proper time information from the NTP server. Otherwise you can use the Mobile Operator provided time information, but at first please verify that the received time value is correct.

9. GPRS connection closed and restored after this time - Waiting time (in seconds) between establishing the PDP connection. This value is also used for ping! (If ping is configured (**Ping Waiting Time (for response)** parameter), then after the specified delay, it will automatically reconnect at the specified interval/repetition time.)

Here you can specify how long the device should wait after the provider cuts off the modem from the network before trying to reconnect to the mobile network again. Ask your mobile service provider for recommended settings!

Attention! *If there is less data traffic and there is no ping configured, the device may not stay on the network for a long time. If you set this parameter to a low value that can cause frequent network reconnections. Therefore, according to the circumstances, should you set this value lower as your mobile service provider recommends. (because there are some mobile network providers that limit the number of the modem network connection and registering attempts during the time (e.g. limit to four times per hour – or similar used to configured by MOs).*

Device Service Session settings (right side of the screen):

- 1. Device Service Session enabled** checkbox – here you can enable the remote firmware refresh (FOTA) service.
- 2.** Here you can define **Device Session APN name** and **APN username, APN password**.
- 3. Server address, filename and path*** is used for Telit module FTP OTA support – an FTP server address and connection parameters (protocol, IP address as user and password) to refresh the module's firmware. Leave it empty if it is not used.

Syntax (ftp):

FTP OTA parameters (FTP host, user/pass, path, filename)

<protocol>://<user>:<password>@<ip_address>/<directory>

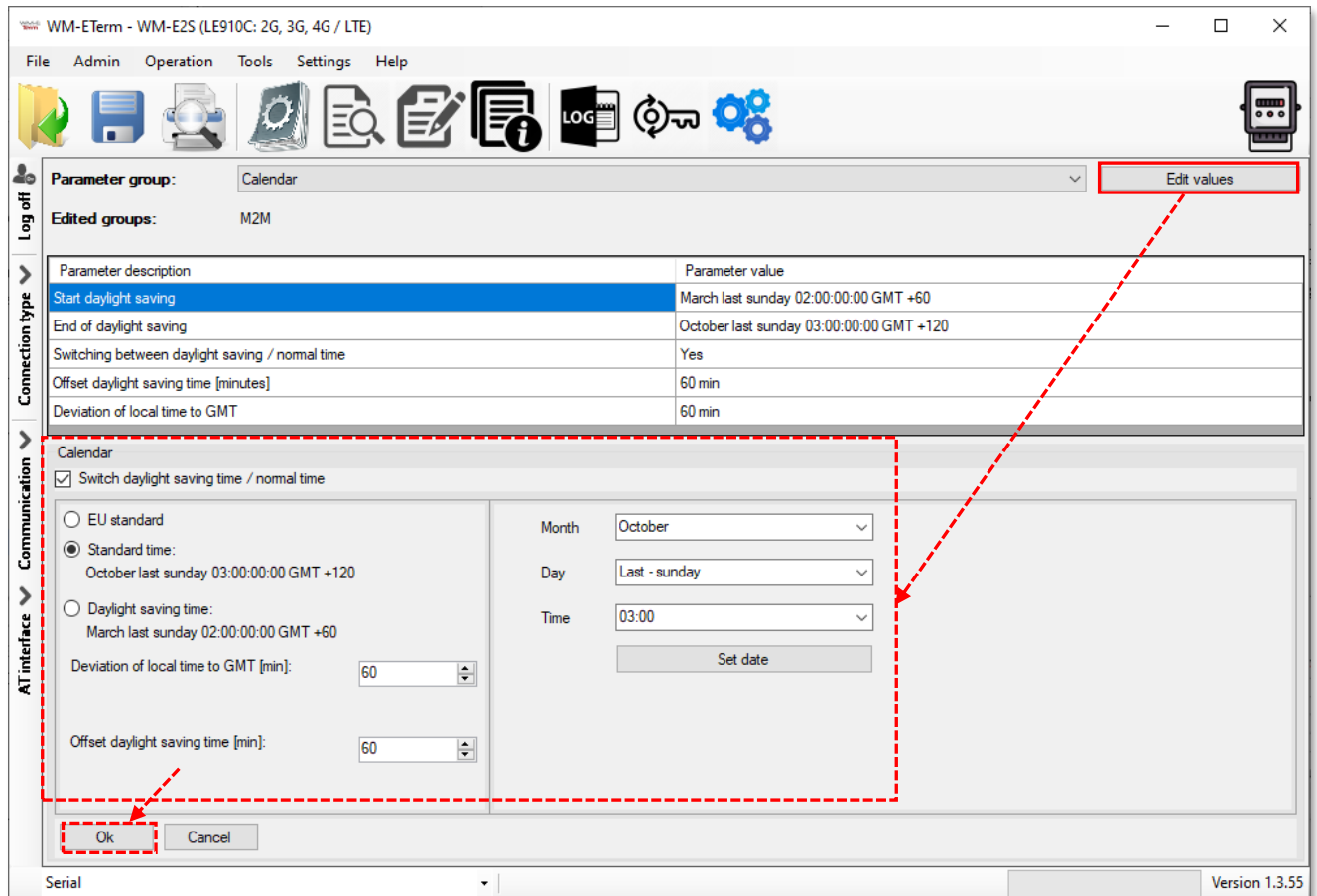
Example (ftp): <ftp://user:password@11.22.33.44/fw-upload/>

4. **Retry count of FOTA process** – this means the number of remote firmware upgrade retries – in case of FOTA progress.
5. **Status of the update process** – here you can get a message for the device's current FOTA status.
6. **Cellular Network Access Technology selection (LTE, 3G, 2G mode) for FOTA** - the device has the ability to manually force to refresh the firmware remotely (FOTA – FTP OTA) by selecting a network technology. E.g. LTE only, etc.
7. **Reboot the device** checkbox – the immediate restart option is implemented only in case of some special firmware versions – *ask our Sales!*
8. Push the **OK** button and continue with the next part.

3.5 Calendar settings

1. Choose the **Calendar** group and push the **Edit values** button, and the relevant parameters and their values will be listed.
2. Here you can enable the **Switching daylight saving time** – if you wish to use this feature (using the annual daylight saving time as standard – DST date/time), then check the box, in any other cases leave it empty.
3. You can also define the type of the time correction of the daylight saving by choosing one of the possible radio buttons: **EU standard**, **Standard time**, **Daylight saving time**.

If you select the *Standard time* or *Daylight saving time* option, further data should be defined as **Month**, **Day** and **Time**. Then you should have to push to the **Set date** button.

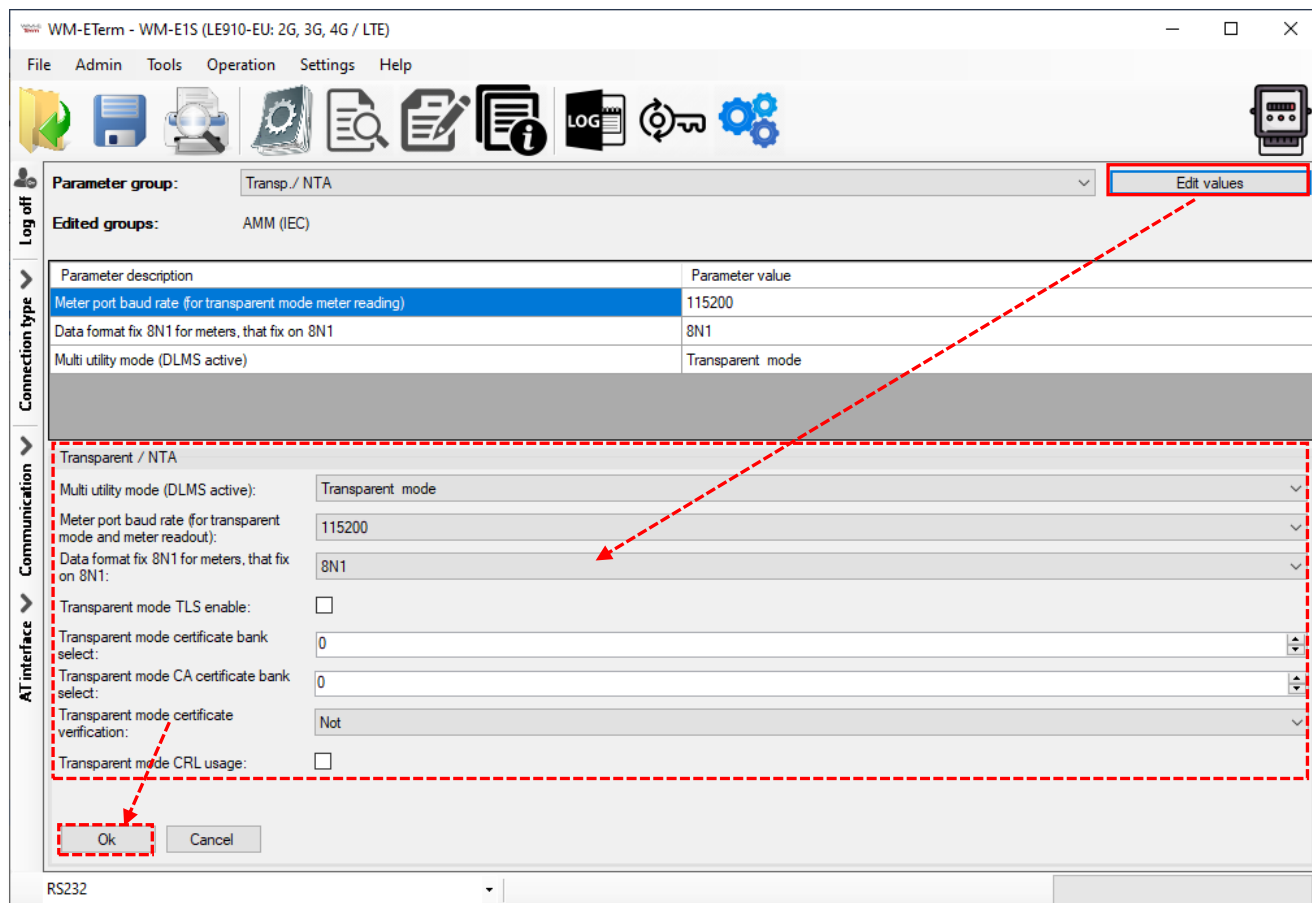


- You can also use **Deviation of local time to GMT** (in minutes) or **Offset daylight saving time** (in minutes) for time DST synchronisation regarding the needs and habits.
- Push the **OK** button and continue with the next part.

3.6 Serial data transmission meter ↔ modem settings (Transp. / NTA)

- Choose the **Transp./NTA** group and push the **Edit values** button, and the relevant parameters and their values will be listed.

- You can choose the **Multi utility mode (DLMS active)** – here you can define the *Transparent mode* (of data transmitting) or the *Multi-utility mode* (not implemented yet). It activates the E-Meter LED.



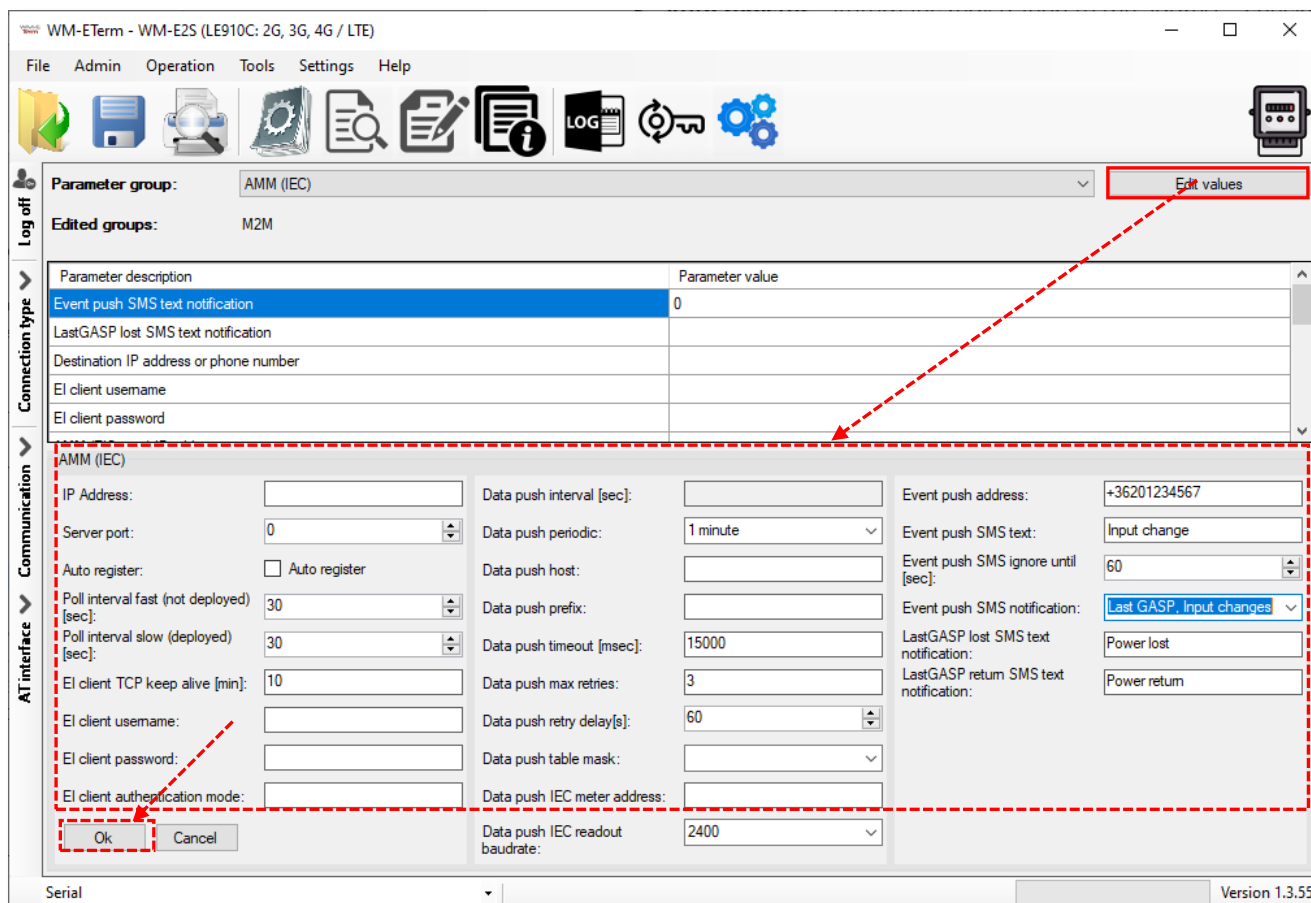
- Then the **Meter port baud rate (for transparent mode and meter reading)** E-meter serial port speed (during readout) can be also configured – define the serial data baud rate (baud) for the connection. The default and recommended value is 9600 baud.
- Data format fix 8N1 for meters, that fix on 8N1** – Data mode for emeter serial port. You can select **8N1** (if it is *enabled*) or **7E1** (if it is *disabled*).
- You can use TLS protocol encryption* (between the modem and the meter), by choosing the **Transparent mode at TLS enable** option.
- You can then insert the **Transparent mode certificate bank** number and **Transparent CA certificate bank** number here.

The **bank** value „0” means the default certificate used by the firmware, or you can choose the „1” which means that the uploaded certificate will be used. You can upload the certification file from the **Tools** menu, and choose the CA certificate or normal certificate related menu item for the upload.

7. You can also configure the **Transparent mode certificate** verify mode (Possible values: *Not / Optional / Mandatory*).
8. Push the **OK** button and continue with the next part.

3.7 IEC server settings (AMM IEC)

1. Choose the **AMM (IEC)** group for meter connection settings.
2. Push the **Edit values** button, and the relevant parameters and their values will be listed.
3. **IP Address** (AMM (IEC)) – here you can define the remote server’s IP address where the data will be transmitted through the wireless network
4. **Server port** (AMM (IEC)) – AMM (EIServer) port (ftp client port), define the port number of the server IP.
5. **Auto register** – Automatic registration to the address - checkbox. In case of data push send automatically or not.
6. **Poll interval fast (not deployed)** – Value of Poll interval fast (not deployed) in seconds.
7. **Poll-interval slow (deployed)** – Value of Poll-interval slow (deployed) in seconds.



8. Define the **EI client TCP keep alive** – Keeps the EI client connection alive for the defined time range – value in minutes.
9. **EI Client username** for the connection IP address, and **EI Client password** is also also required, fill the fields, please.
10. **EI client authentication mode** means that a remote device can be configured and allowed to be connected to the modem and readout the data – by selecting authentication mode. Values: **N** - no authentication, **E** - EI authentication: define the *username* and the *password*.

Data push settings:

At the next column at right, you can find the **Data push** parameters.

1. **Data push (ftp) parameters** if you wish to use the FTP / data push service on the modem.

2. **Data push interval** – Not available for all modem types. The interval of next data / FTP push connection trying - the data push will be inactive until the interval spent and then it will try again (if **Data push max retries** was not exceeded) – value in seconds.
3. **Data push periodic** – Not available on WM-E2S / WM-E2SL modems.
4. Fill the **Data Push Host** field – for defining the SMS phone number or / FTP server or TCP/UDP server's IP address.

Syntax (ftp):

FTP OTA parameters (FTP host, user/pass, path, filename)

<protocol>://<user>:<password>@<ip_address>/<directory>

Example (ftp): <ftp://user:password@11.22.33.44/fw-upload/>

Syntax (TCP/UDP):

<protokoll>://<ip_address>:<port_number>

Example (TCP): **tcp://11.22.33.44:8088**

Example (UDP): **udp://11.22.33.44:8088**

Syntax (SMS):

<protokoll>://+<country_code><network_operator_code><call_number>

Example (SMS): **sms://+43071234567** or similar

5. **Data push prefix** – Not available on WM-E2S / WM-E2SL modems.
6. Add the **Data push timeout** – Interval of data / FTP push connection wait - it waits until the declared interval whether it was successful or not – value in milliseconds.
7. **Data push max retries** means the number of retries of data push operation in case of connection failure.

8. **Data push retry delays** means an applicable delay value, after the data push until the next periodic data push will be initiated.
9. **Data push table mask** T1, T2, T3 (tariff) table readout selectable options. Optional to use.
10. **Data push IEC meter address** – source meter address.
11. **Data push IEC readout baudrate** – source meter communication / readout speed rate in baud.

Event push settings (LastGASP):

Important! *Note, that this feature is NOT working with the E57C WM LTE modem type.*

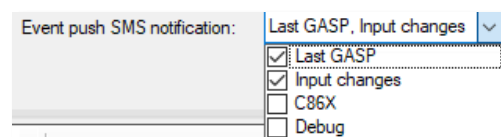
1. At right side of the screen, you will found the **Event push** settings.
2. The **Event push** feature is available only with the metering modem, which contains a supercapacitor!

Important! *The following settings will be valid and useful only if there is a supercapacitor on the relevant WM-E modem version, and if you requested the compatible firmware version to configure the „Last GASP” event push notification alert.*

3. **Event push address** – here you can add the notification address (SMS phone number / FTP or TCP/UDP (IP) address) for alarm notification (e.g. in case of power lost, input status change, etc.). In case of SMS (phone number), use the international format.
4. **Event push SMS text** – Not available on WM-E2S / WM-E2SL modems.

5. **Event push SMS text ignore until [sec]** – Not available on WM-E2S / WM-E2SL modems.

6. ***Event push SMS notification** – notification type options to select. Multiply selection:



- **Last GASP** notification - quite useful for reporting an occurring and unexpected power outage event. In case of *power outage* event, the modem's supercapacitor allows to further operate the modem for a limited time (only for a couple of minutes).

When detecting this power loss of the mains/input power source, the modem generates a “**POWER LOST**” event and the alert message will be transmitted immediately as an SMS text to the pre-configured phone number. In case the mains/power source is recovered, the modem generates a newer, “**POWER RETURN**” message and will send it by SMS text to the phone number which was configured.


Some firmware versions of the modem support the LastGASP feature – *ask our sales!*

This feature only works properly if you are using a compatible firmware version. Please ask our Sales!

- **C86X** - meter messages will be notified by SMS
- **Debug**

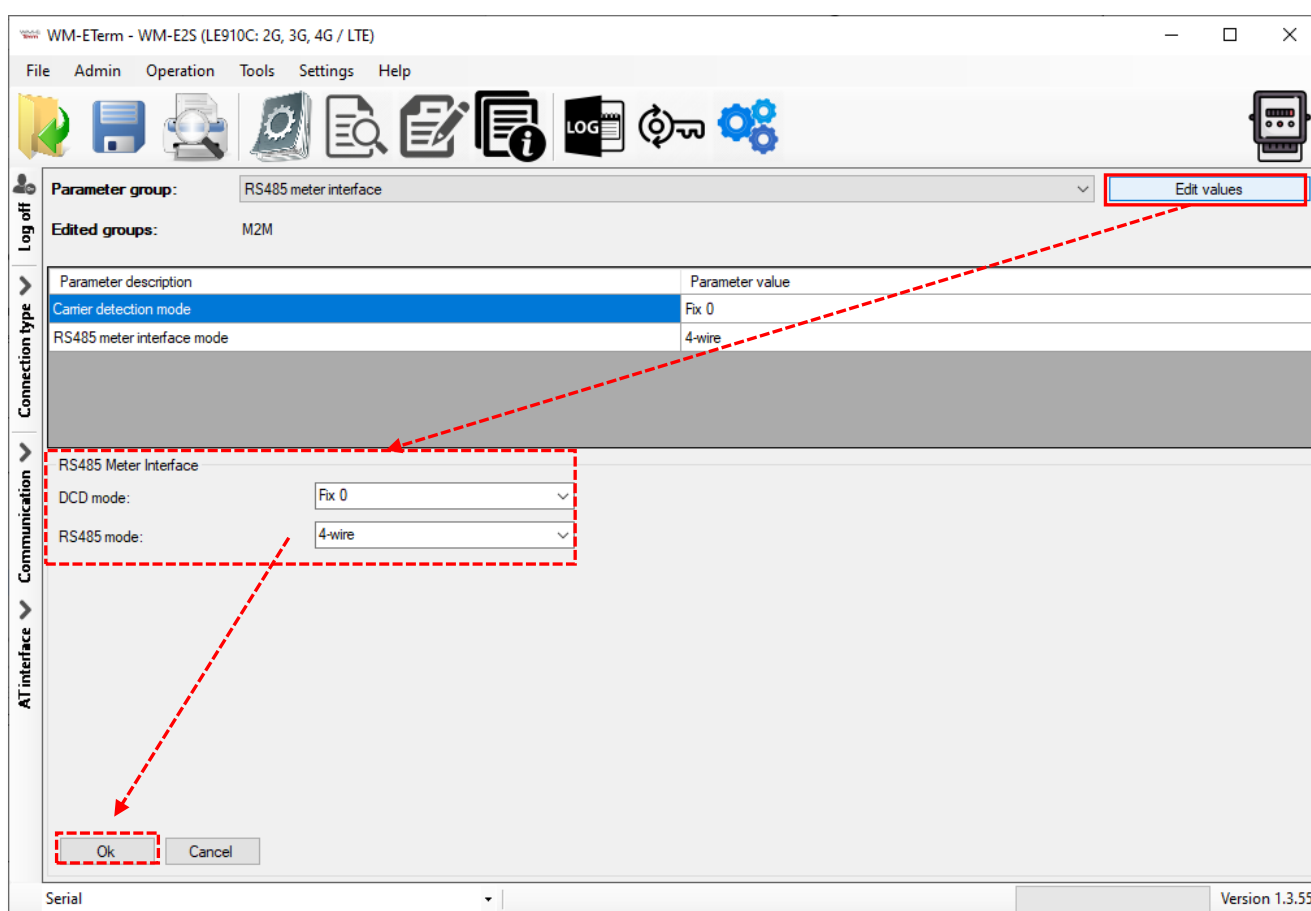
7. ***LastGASP lost SMS text notification** field you can define a power outage alarm/event message.
8. ***LastGASP return SMS text notification** field you can define a power outage release/return event message.

**Check LastGasp, Input changes at next chapters for the proper settings.*

The parameter modifications will not be overridden automatically on the modem side. Therefore, push the **OK** button and then you have to push the **Parameters write**  icon to send the parameters to the meter.

3.8 RS485 / DCD meter interface settings

The **RS485 meter interface** parameter group is useful for configuring the RS485 meter connection settings.



Important! The DCD (Data Carrier Detect) feature can be set up on the meter based on its' user manual. This parameter can be used for defining the connection type, i.e. which mode is used for the modem during communication: the modem attempts to communicate online (transparent) or offline (not transparent) mode with the connected meter.

Some meters are using the DCD value 1 as transparent, some others are using the value 0.

1. To configure it, choose the **RS485 meter interface** parameter group.
2. Push the **Edit values** button, and the relevant parameters and their values will be listed.
3. Define **DCD mode** (data carrier detection). Configure by choosing the DCD operation mode:
 - a. **Fix 0** (logical '0' value at meter's side, where it can be configured as online or offline)
 - b. **Fix 1** (logical '1' value at meter's side, where it can be configured as online or offline)
 - c. **Standard** (normal operation without changing the transparent communication)
 - 1: online
 - 0: offline
 - d. **Inverted** (opposite of the standard)
 - 1: offline
 - 0: online
4. ***RS485 mode** – select a wire mode to configure the RS485 operation.
 - **2-wire** – means half duplex 2-wire pinout
 - **4-wire** – means full duplex 4-wire pinout
 - **Disable** – *RS485 will be used automatically (for modem versions which are having only RS232 cable, it is recommended to configure this mode).*

***Important !** In case of E57C WM LTE modem, the RS485 mode is detected automatically (will be set to Disabled (which means automatic)). Note, that if you will override this setting (e.g. to 4-wire or 2-wire), then the modem will not operating properly and cannot be accessed locally – will be accessible only via TCP connection! Therefore, we suggest not to set or configure the RS485 mode in case of this modem type.

**In case of firmware v2 this parameter is used automatically - controlled by the current firmware. Only in case of firmware v5 can be used the configured parameter setting.*

5. Push the **Parameters write**  icon to send the settings to the modem.

Important! This feature will only be effective, if you use a compatible firmware.
Ask our sales!

3.9 SNMP parameter settings

The SNMP parameter readout and settings for the SNMP Manager compatibility are available for some **WM-E2SL® (Landis & Gyr®)** connected) type meters only.

Over the classic readout and write of parameters through local serial link or TCP connection, there is a possibility of readout the parameters via SNMP v3 protocol and write some of them to the modem.

Only a few, limited numbers of SNMP parameters are supported here – due to the Customer requirements. The following, listed values can be handled by the MIB file (a description file, which can be imported) at the SNMP manager.

Please note, that SNMP v1, v2 are not supported, only the SNMP v3 is supported!

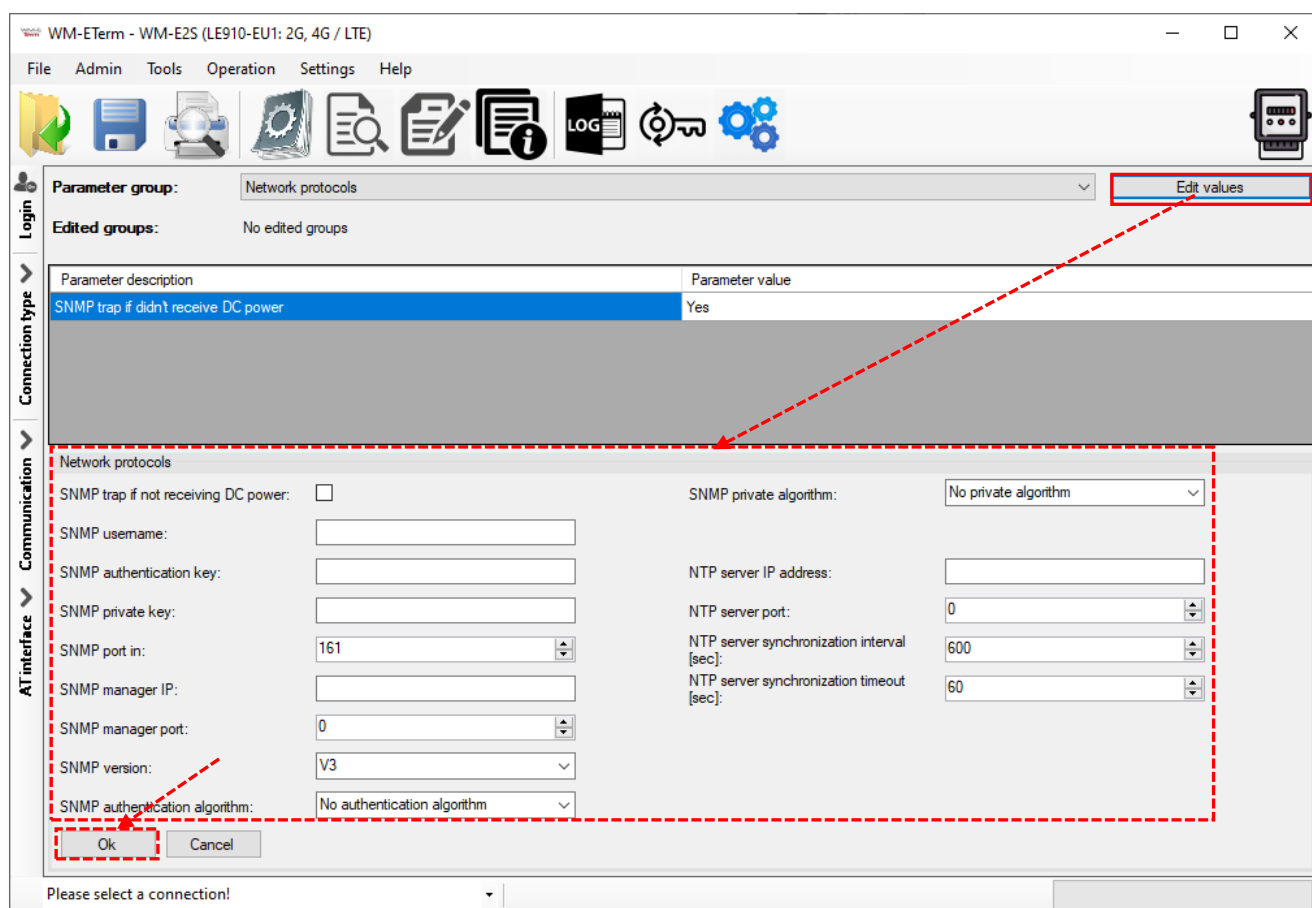
SNMP Param. Group	Name	Read Only/ Read Write	OID	Name in mib file	Remarks
Device info	vendor	RO	1.3.6.1.4.1.52174.1.1.1	wmeTEvendor	
	modelName	RO	1.3.6.1.4.1.52174.1.1.2	wmeTEmodelName	
	hwversion	RO	1.3.6.1.4.1.52174.1.1.3	wmeTEhwversion	
	softwareversion	RO	1.3.6.1.4.1.52174.1.1.4	wmeTEsoftwareversion	
	imei	RO	1.3.6.1.4.1.52174.1.1.5	wmeTEimei	
	imsi	RO	1.3.6.1.4.1.52174.1.1.6	wmeTEimsi	
					use the output form of the LTE Module, list of supported LTE bands, separated by commas: B<number>[(frequency)]]. The definition of the frequency is optional
	lteband	RO	1.3.6.1.4.1.52174.1.1.7	wmeTElteband	
	reboot	RW	1.3.6.1.4.1.52174.1.1.8	wmeTEreboot	cause instant reset

System Information	keepAliveDuration	RW	1.3.6.1.4.1.52174.1.2.1	wmeTEkeepAliveDuration	seconds, but minute steps, Reading values will be 0 or multiples of 60. written values will be rounded down. Except less than 60 will be 1, but 0 will be 0
	autoreboot	RW	1.3.6.1.4.1.52174.1.2.2	wmeTEautoreboot	seconds, but hour steps. Reading values will be 0 or multiples of 3600. written values will be rounded down. Except less than 3600 will be 1, but 0 will be 0.
	battVoltage	RO	1.3.6.1.4.1.52174.1.2.3	wmeTEbattVoltage	in mV
	battCapacity	RO	1.3.6.1.4.1.52174.1.2.4	wmeTEbattCapacity	0-100 (in percentage) e.g. 50 = 50%
Network Information	usimstatus	RO	1.3.6.1.4.1.52174.1.3.1	wmeTEusimstatus	READY
	lteNetworkStatus	RO	1.3.6.1.4.1.52174.1.3.2	wmeTElteNetworkStatus	0 not LTE network 1 LTE network registration
	operator	RO	1.3.6.1.4.1.52174.1.3.3	wmeTEoperator	
	ecio	RO	1.3.6.1.4.1.52174.1.3.4	wmeTEecio	value 255 means Not Available.
	rsrp0	RO	1.3.6.1.4.1.52174.1.3.5	wmeTErsrp0	value 255 means Not Available.
	rsrq	RO	1.3.6.1.4.1.52174.1.3.6	wmeTErsrq	value 255 means Not Available.
	rsssi	RO	1.3.6.1.4.1.52174.1.3.7	wmeTERssi	
	sinr	RO	1.3.6.1.4.1.52174.1.3.8	wmeTESinr	
	txPower	RO	1.3.6.1.4.1.52174.1.3.9	wmeTETxPower	
	pCID	RO	1.3.6.1.4.1.52174.1.3.10	wmeTEpCID	
	MCC	RO	1.3.6.1.4.1.52174.1.3.11	wmeTEMCC	
	MNC	RO	1.3.6.1.4.1.52174.1.3.12	wmeTEMNC	
APN	apn	RO	1.3.6.1.4.1.52174.1.4.1	wmeTEapnName	
Alarm	pwshute-en	RW	1.3.6.1.4.1.52174.1.5.1	wmeTEpwshute	
	TRAP_pwshut	RO	1.3.6.1.4.1.52174.3.0.1	wmeTETrapPowerOff	

Configure the SNMP parameter readout and settings for the SNMP Manager compatibility.

1. Readout the meter settings, then choose the **Network Protocols** group.
2. Choose the **Edit values** button to edit the settings.
3. Here you can configure the **SNMP** related settings and manager settings, according to the SNMP Manager connection needs.

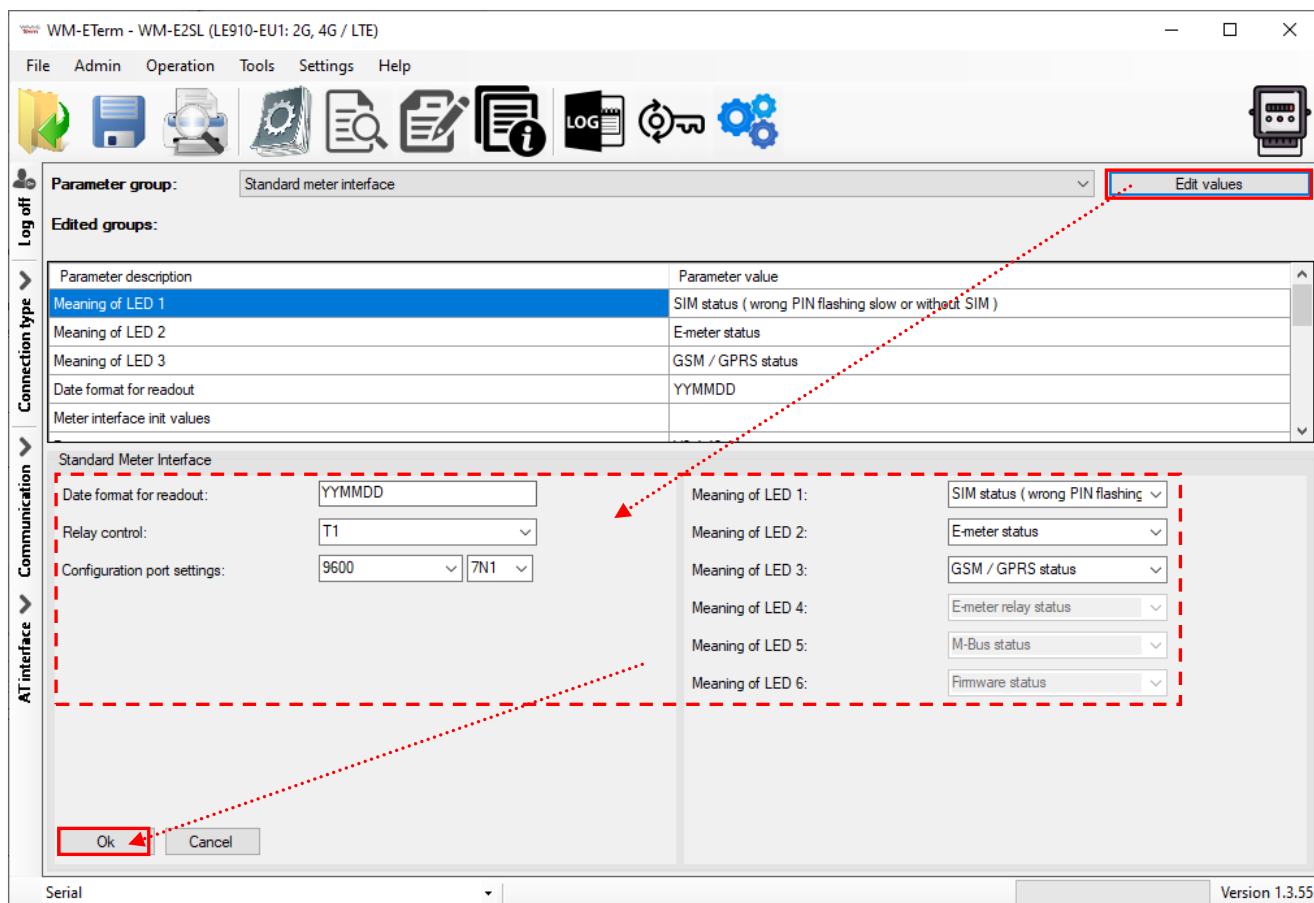
- At the right side you can also setup the **NTP server** (network time server) settings.



- Push the **OK** button to save the values and push to the **Parameters write** icon to send the settings to the modem.

3.10 Standard meter interface settings

- Choose the **Parameter readout** icon, and select the **Standard meter interface** parameter group, then push to the **Edit Values** button.
- Date format for readout** - IEC date format for readout (Syntax: YYMMDD).
- Relay control** – Not available for *WM-E2S* / *WM-E2SL* modems.



4. **Configuration port settings** - Configuration interface speed rate and operation mode - **Available only on WM-E2SL TNB® modem*

5. **Meaning of LED 1...LED6** fields*, where you can change the LED operation for each available LED. The LED operations are pre-programmed, but can be changed if you want here.

**In case of WM-E2S / WM-E2SL / E57C WM LTE modems 3 LEDs are available (LED1..LED3)*

The WM-E Term will always make editable only the available LEDs according to the chosen modem type.

6. Save your settings by pushing the **OK** button.

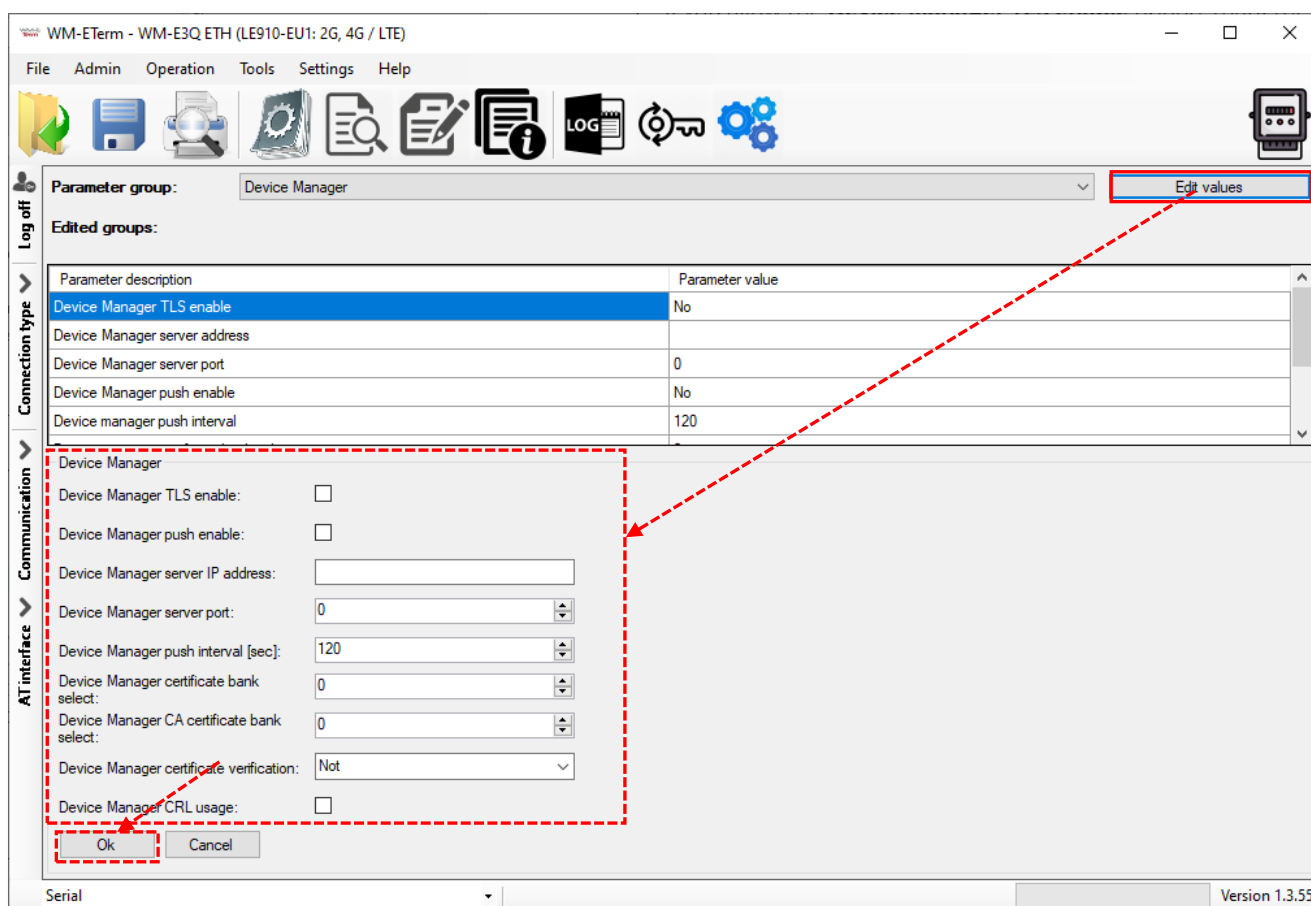
- You will need to push then the **Parameter write**  icon to send it to the modem.

3.11 Device Manager settings

The Device Manager® is an optional remote management software (order option) which can be used to maintain and to monitor the modems via cellular network (TCP/IP connection).

The settings can be achieved by selection of the **Device Manager** parameter group. The Device Manager® can be used with or without TLS encryption.


- If you allow the **Device Manager TLS enable** option, mark the checkbox.



Important! By using this feature, the modem will further on be visible only from the Device Manager software and cannot be used any more by the WM-E Term configuration software for security reasons, due to the different and encrypted communication protocol.

2. **Device Manager push enable** – it allows the option for the modem to send status messages (by configurable cycles/intervals) to the Device Manager® software.
3. **Device Manager server IP address** required to build the connection.
4. **Device manager server port** (nr. 443 by default) must be added for the connection.
5. **Device Manager push interval** is used to define the status message sending cycle (in seconds).

Important! When you have set all this, the DM connection will not automatically be useable, you still need to configure the Device Manager® side of the settings. You will find more information about the exact sequence of the settings in the Device Manager® manual – ask our sales department.

6. The **Device Manager certificate bank select** and **Device Manager CA certificate bank select** can be also configured here.
(The **bank** value „0” means the default certificate used by the firmware, or you can choose the „1” which means that the uploaded certificate will be used. You can upload the certification file from the **Tools** menu, and choose the CA certificate or normal certificate related menu item for the upload.)
7. You have the option to use the **Device Manager certificate verification** option as verification mode (Possible values: *Not / Optional / Mandatory*).
8. You can also use the **Device Manager CRL usage** option to apply the uploaded CRL file. Then save your settings by pushing the **OK** button.
9. You have to push to the **Parameter write**  icon to send it to the modem.

3.12 CSD connection

If the Client wants to access the modem only with a CSD call, but does not configure the modem's **APN** settings, and the value of the **Mobile Network Technology** parameter is "**LTE with fallback to 2G**" (technically 4G/2G) or "**LTE only**" (4G), then the CSD connection is not working properly.

Symptoms:

- If the **Mobile Network Technology** parameter is "**LTE only**" (4G), the modem will not be available with CSD calls at all, and the modem will restart from time to time.
- If the **Mobile Network Technology** parameter is "**LTE with fallback to 2G**", the modem sometimes restarts, while the modem cannot be reached with a CSD call or is only very difficult to reach.

Solution:

If the Client want to access the modem only with a CSD call:

1. If the modem has a firmware version lower than v5.1.30, update the firmware to the latest version!
2. The **Mobile Network Technology** parameter cannot be "**LTE only**", since the CSD service is only available on the 2G network, not on the LTE network.
3. The **Mobile Network Technology** parameter should be "**2G only**".
4. The "**GPRS always enabled**" option in the **M2M** parameter group must be disabled (unchecked).

If the Client want to use the modem on an LTE network, but I want to reach it with a CSD call:

1. The modem may only be used with active IP connection settings.
2. If the modem has a firmware version lower than v5.1.30, update it to the latest version!
3. The **Mobile Network Technology** parameter must be "**LTE with fallback to 2G**".

4. The "**GPRS always enabled**" option in the **M2M** parameter group must be enabled.
5. The **APN** settings must be made (**APN name**, **APN username**, **APN password**)

If the Client want to use the modem on 4G as well as with CSD:

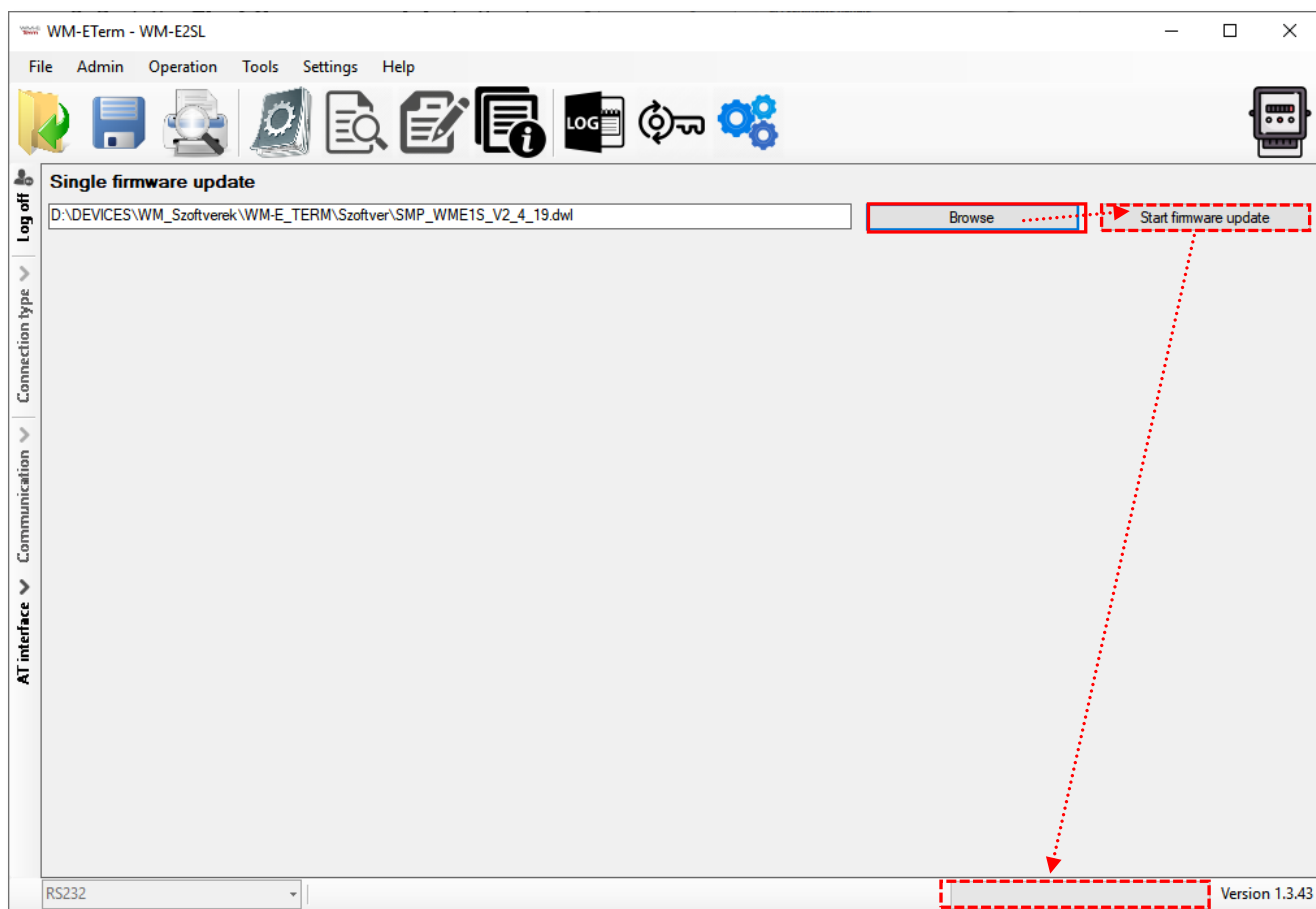
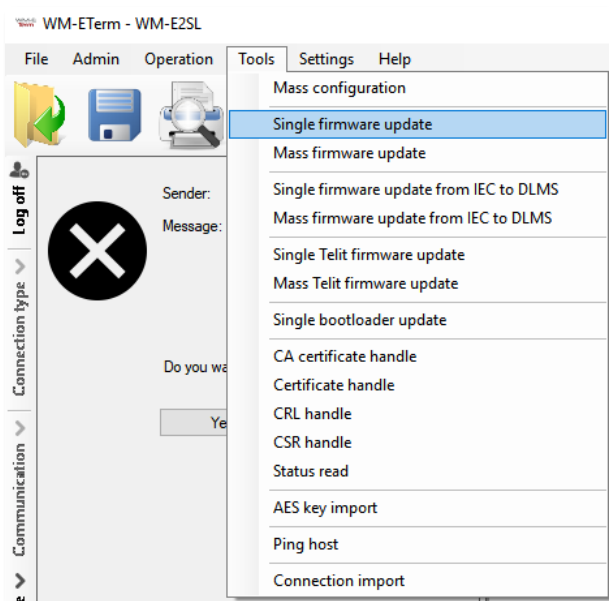
1. In addition to the above, it is also necessary to make the following settings.
2. The "**PDP connection establishment delay (CSD)**" parameter in the **APN** parameter group must also be set to **3** minutes. This is necessary because if the IP connection goes down, the modem restarts so quickly that it will not be available on CSD.

The above changes must be made using the **WM-E Term** software.

Chapter 4. Firmware updates

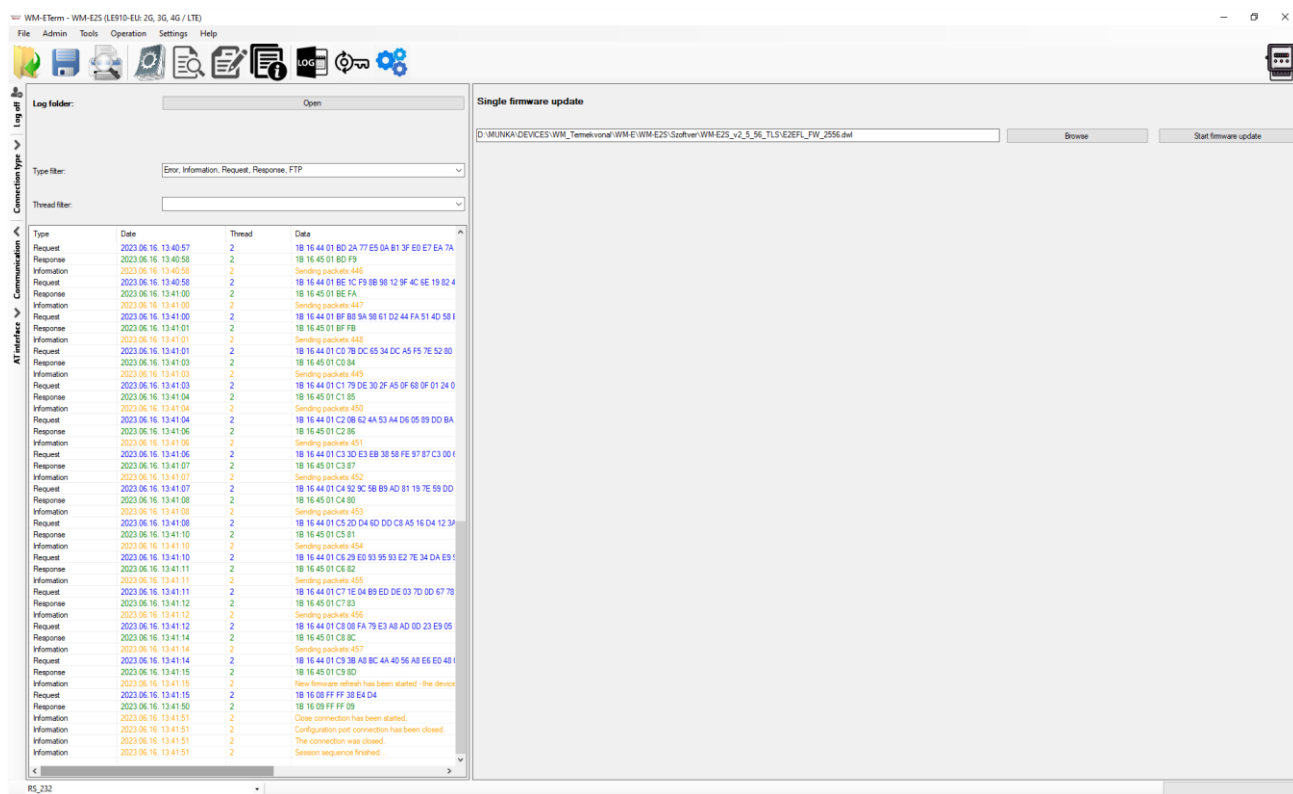
4.1 Single firmware update (IEC to IEC type)

1. Choose the **Tools / Single Firmware update** item from the menu.
2. Push then the **Browse** button to select the .DWL extension firmware file.
3. Push the **Start firmware update** button for performing the singular firmware upload.



4. The progress of upload will be shown at the right-bottom progress indicator bar. This can take in case of normal firmware version for 3-5 minutes, in case of TLS firmware for 5-15 minutes.

5. The firmware upload progress can be also checked in the left **Communication** tab. The firmware refresh will be started from „*Firmware sending*” message and continues further with „*Sending packets*” sequence.



6. At the end of the FW update, the a „*New firmware refresh has been started...*” message appears. Then soon the modem will be automatically restarted with the new firmware – this could take 2-3 minutes to apply. The LEDs will be also signing the reboot.

4.2 Mass firmware update (multiple uploads)

You can use this feature for the firmware refresh of multiple modems.

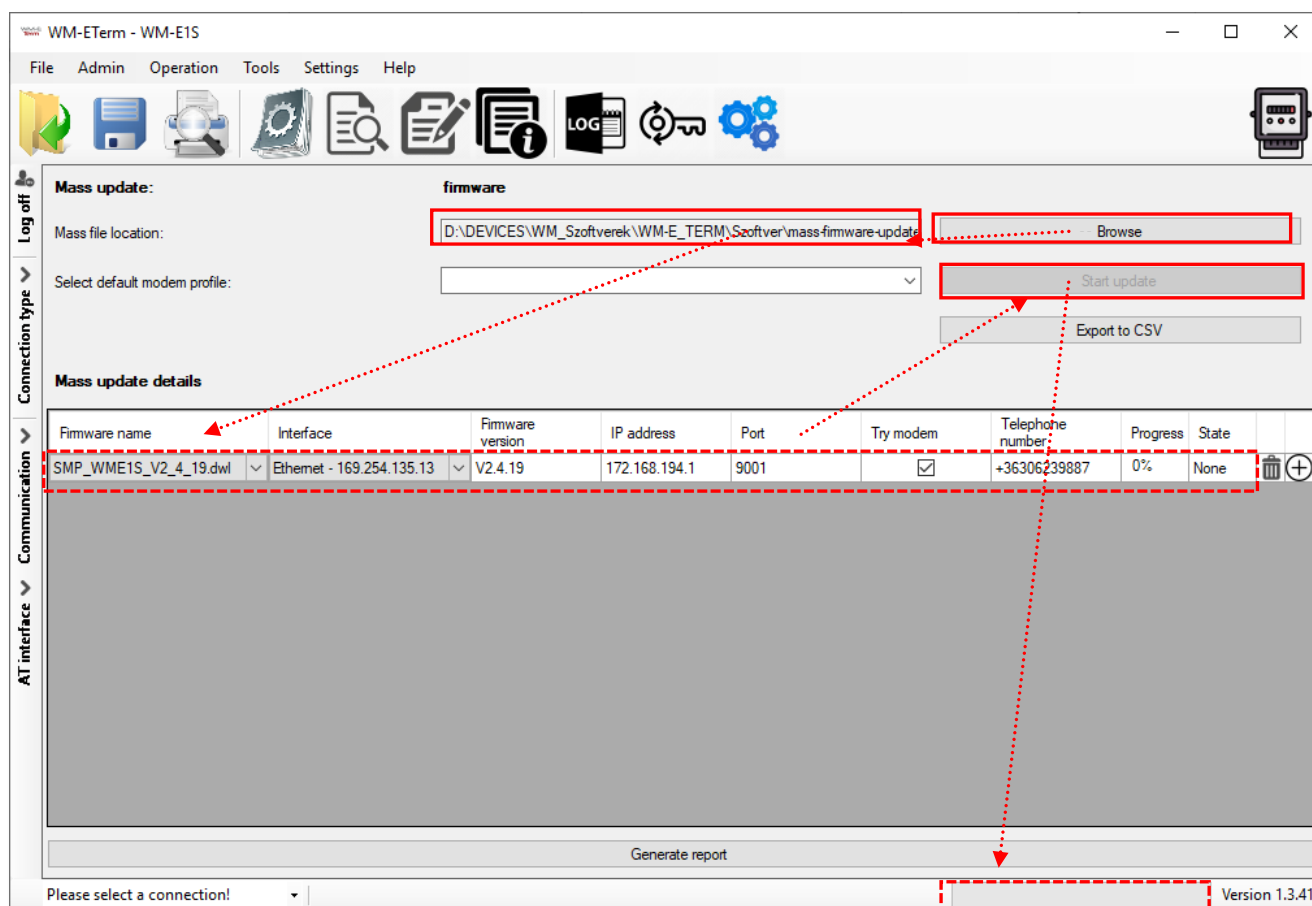
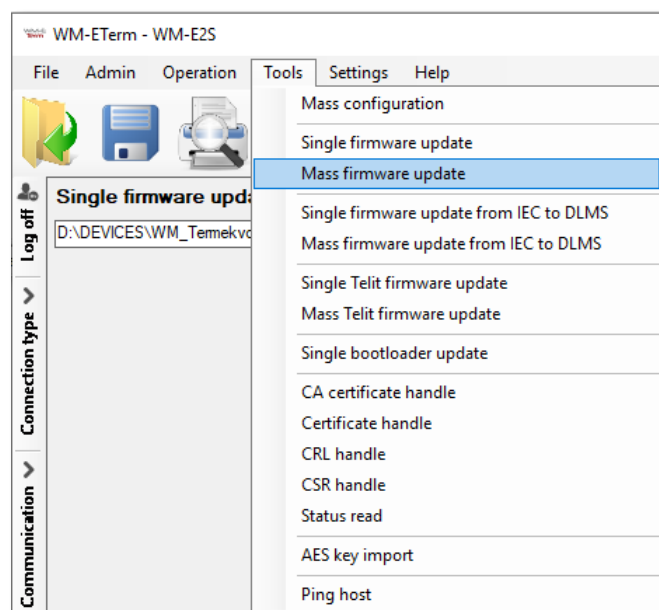
1. Choose the **Tools / Mass Firmware update** item from the menu.
2. You have to add the **Mass File location** for the path (directory) of the firmware file(s) by pushing the **Browse** button to select the location of the mass update file(s) – choose a .CSV file (with the list of the devices) to continue.

**CSV file must be created by the Customer!*

Note, that .DWL extension firmware file(s) must be in the configured firmware directory (check Edit / Edit settings / Firmware directory settings before)!

3. Then the requested mass fw update list is loaded and the WM-E Term will searching for the .dlw extension files in the current directory (based on the CSV file of the list of the devices).

If the **Firmware name** field at left is empty, it means that the .dlw file could not be found in the directory you were defined. If there can be found firmware file(s), then it will be automatically selected.



4. At the **Interface** field you should choose the interface where you can access the IP address range of the modem(s) you are attempting to refresh. The interface(s) must be the current interface(s) on your computer (check the CSV file).
5. In the **Firmware version** field you have to define the exact version number by „V” and the version (without space). E.g. V2.4.19
6. At the **IP address** field you have to add the IPv4 address of the module. For the **Port** field add the firmware download port number, which is already configured for the remote client (*port for download config and firmware*).
7. If you would like to define to use the secondary channel for CSD to the modem, then click the **Try modem** option and define **Phone number** of the module.

CSV content example:

SMP_WME2S_V2_4_43_11.dwl;V2.4.43.11;172.31.154.44;9001;no;;0x00;0;Ethernet - 192.168.6.108

8. Push the **Start Update** button to start the multiple firmware upload. The update will be valid for the listed modems in sequence.
9. The current status of the upload/refresh method can be seen at the progress bar.

Upload/refresh sequence order:

- The configuration readout of all devices and that of current firmware version will be detected.
- Checking of the necessary steps of the item to be updated based on the existing records (the same or lower version of the firmware cannot be upgraded to the modem).
- Firmware refresh will be performed one by one (entry to entry) in sequence.
- In case of failure, the process jumps to the next entry without modifying the current -failed to refresh - firmware version.

10. At the end of the refresh process, the modems will restart and will use the updated firmware version.

Attention!

The new firmware will be available only after the firmware upload process, when it will be finished!

4.3 Single bootloader update

There is an option for bootloader update (.DWL extension file). For this, choose the **Tools / Single bootloader update** menu.

Important! Ask your sales for the appropriate update file before updating.

4.6 About the certification files

The certification files can be generated by a PKI software. The CSR (Certificate Signing Request) file should be generated and the further CERT or PEM extension, CA Certification and normal Certification files and CRL files will be created automatically.

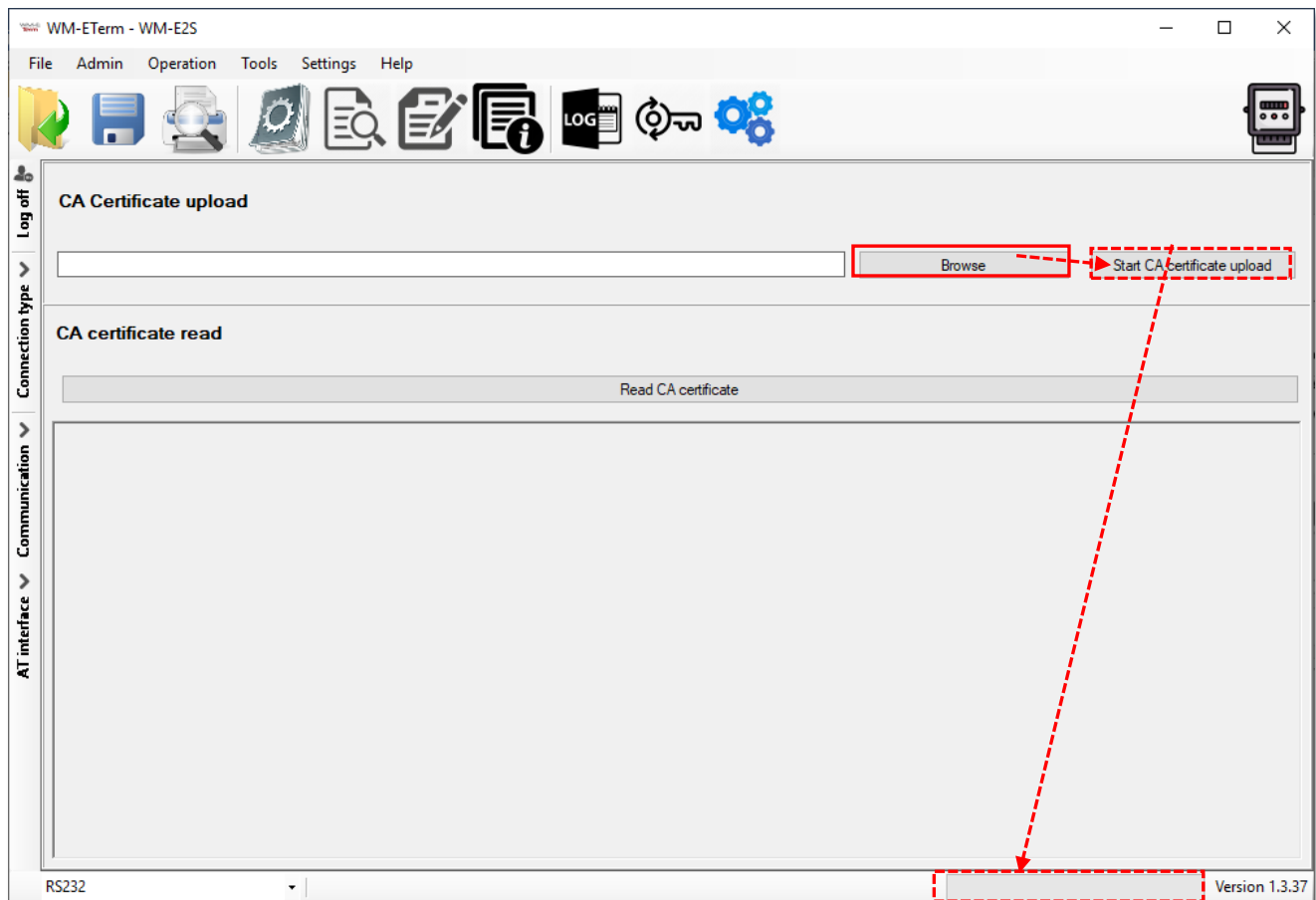
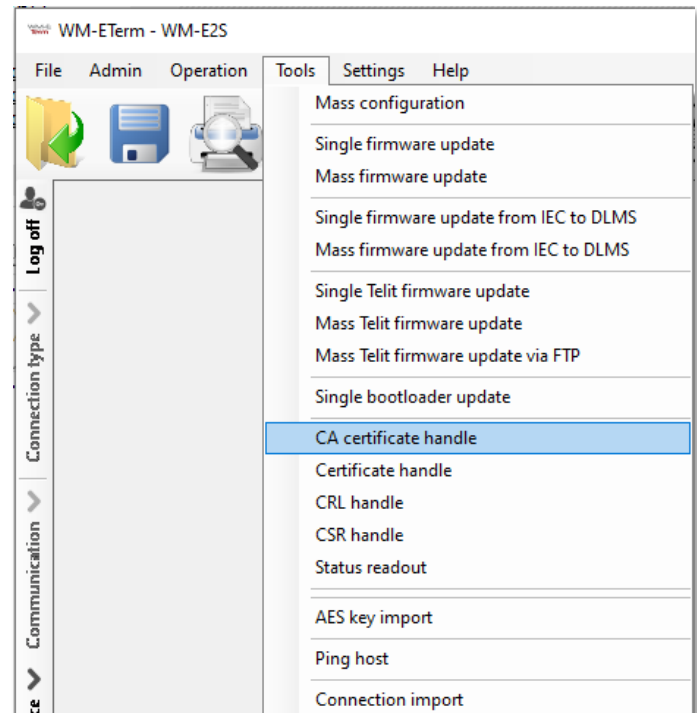
In the WM-E Term program, you will find a few menus, where you can upload each certification file and you can set up them for the operation of the modem.

4.5 CA certificate handle

Here you can upload the TLS encrypted CA certification file (with .PEM or .CERT extension) to the modem.

1. Choose the **Tools / CA certificate handle** item from the menu.

2. Push then the **Browse** button to select the CA certification file (.PEM or .CERT extension file).
3. Push then the **Start CA certificate upload** button to begin the certification file upload. The modem will then use the TLS encryption effectively during the communication.
4. You can **Read CA certificate** from the device by the relevant button and check the uploaded file.



Important! This feature will be only effective, if you use TLS- compatible firmware version on the modem! Please, ask your sales product manager about the useful

and appropriate firmware version before configuring this feature or updating the current firmware of the device.

4.6 TLS certificate handle

Here you can upload the TLS encrypted certification file (with .PEM or .CERT extension) to the modem.

1. Choose the **Tools / Certificate handle** item from the menu.

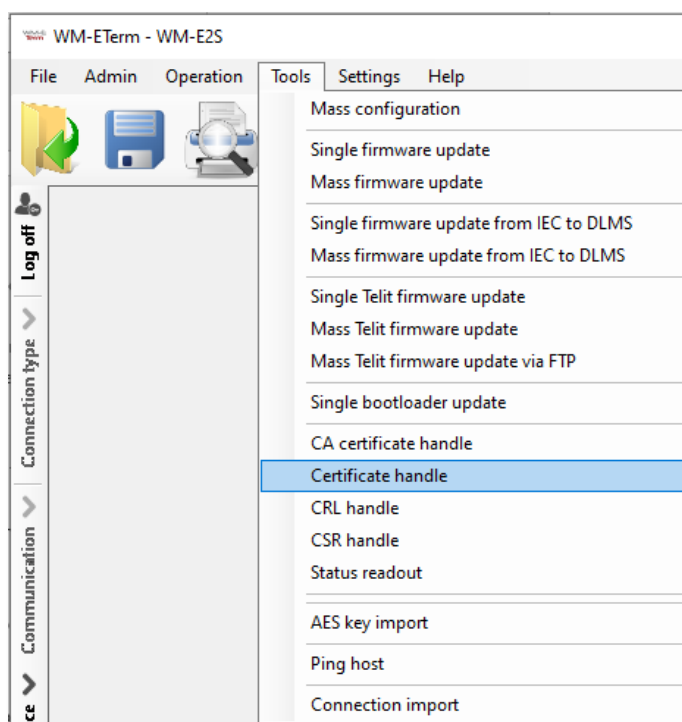
2. Push then the **Browse** button to select the certification file (.PEM or .CERT extension file).

3. Push the **Start certificate upload** button to begin the certification file upload.

The modem will then be using the TLS encryption effectively during its communication.

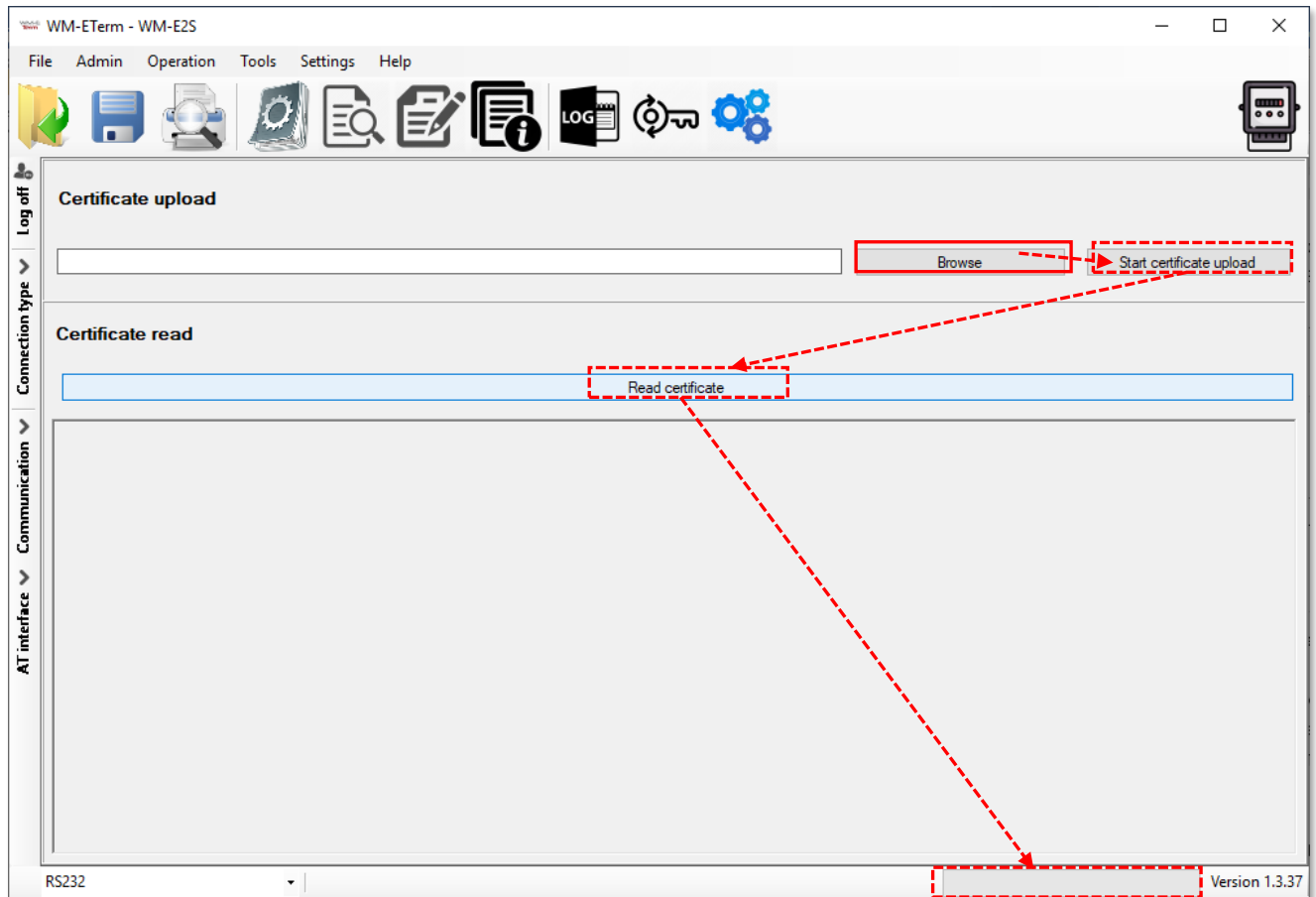
4. **Read certificate** of the device

by this button to readout and check certification.



Important!

This feature will be only effective, if you use TLS- compatible firmware version on the modem! Please, ask your sales product manager about the useful and appropriate firmware version before configuring this feature or updating the current firmware of the device.

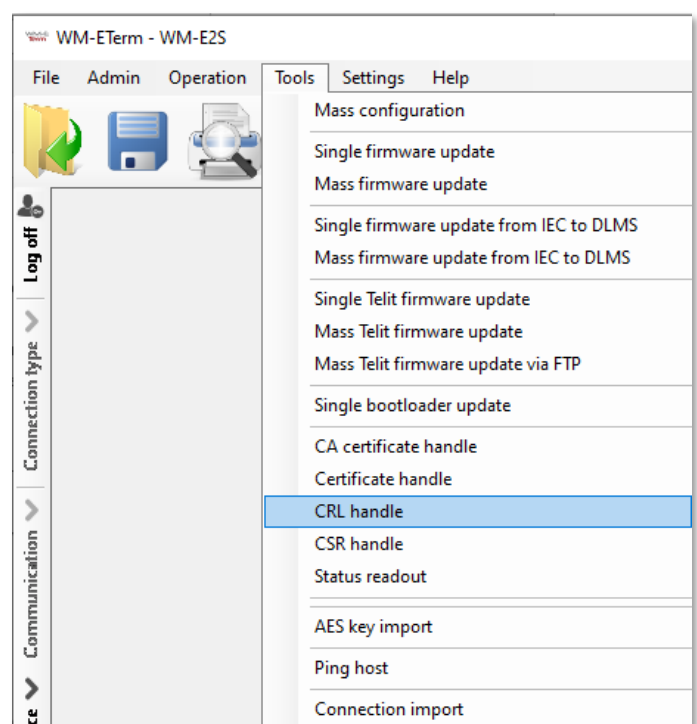


4.7 CRL handle

Here you can define a CRL file (Certificate Revocation List) for the revoked modems (which don't have right or their right was already revoked).

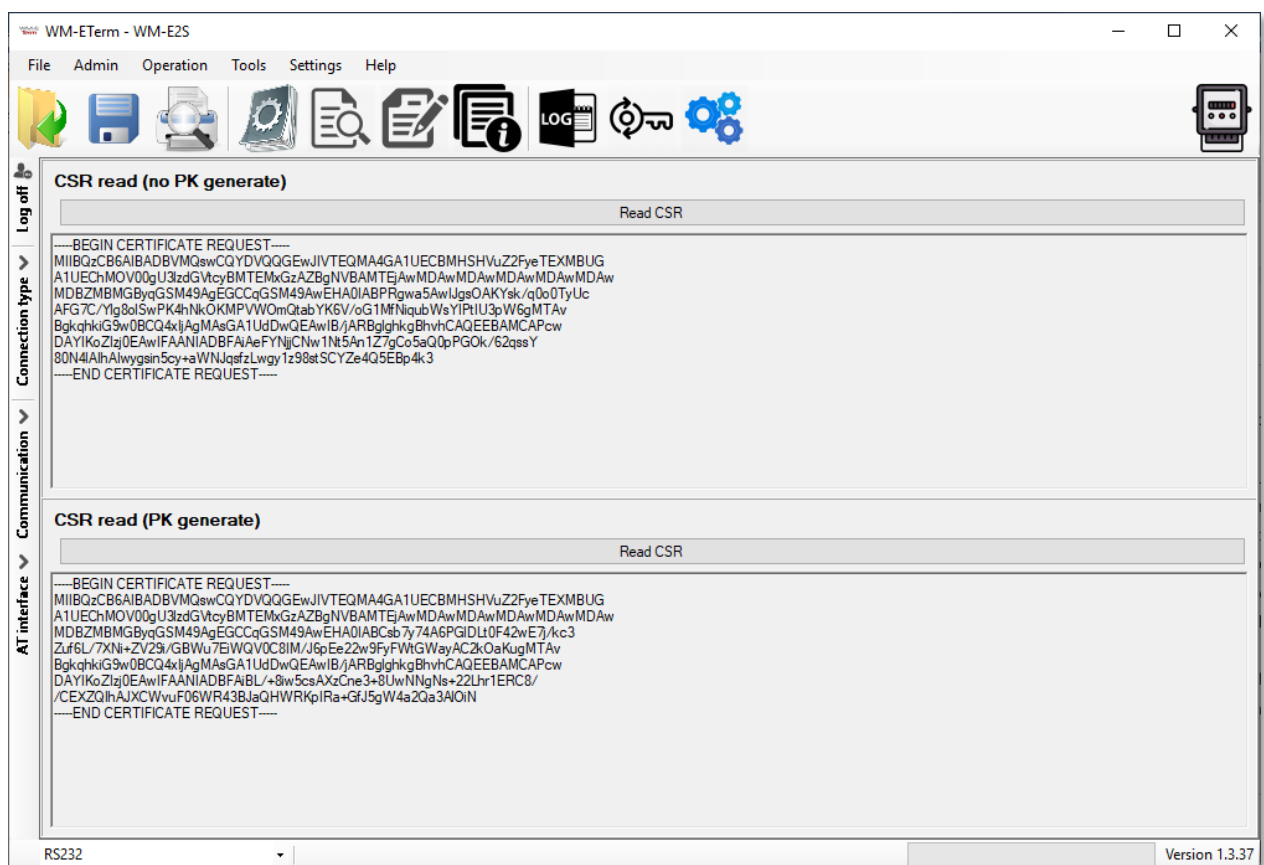
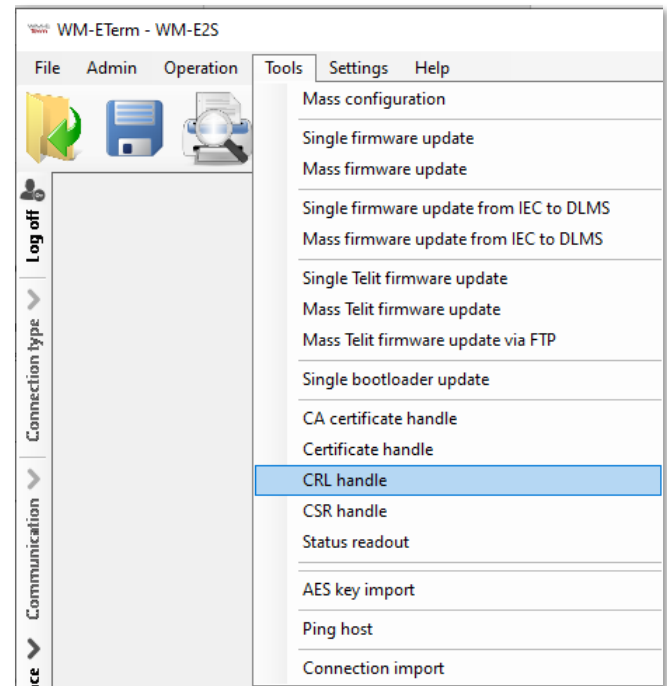
With this you can handle these devices as exceptions when using certifications.

1. Choose the **Tools / CRL handle** item from the menu.
2. Push then the **Browse** button to select the revocation file (.CRL).



Choose the **Tools / CSR handle** item from the menu.

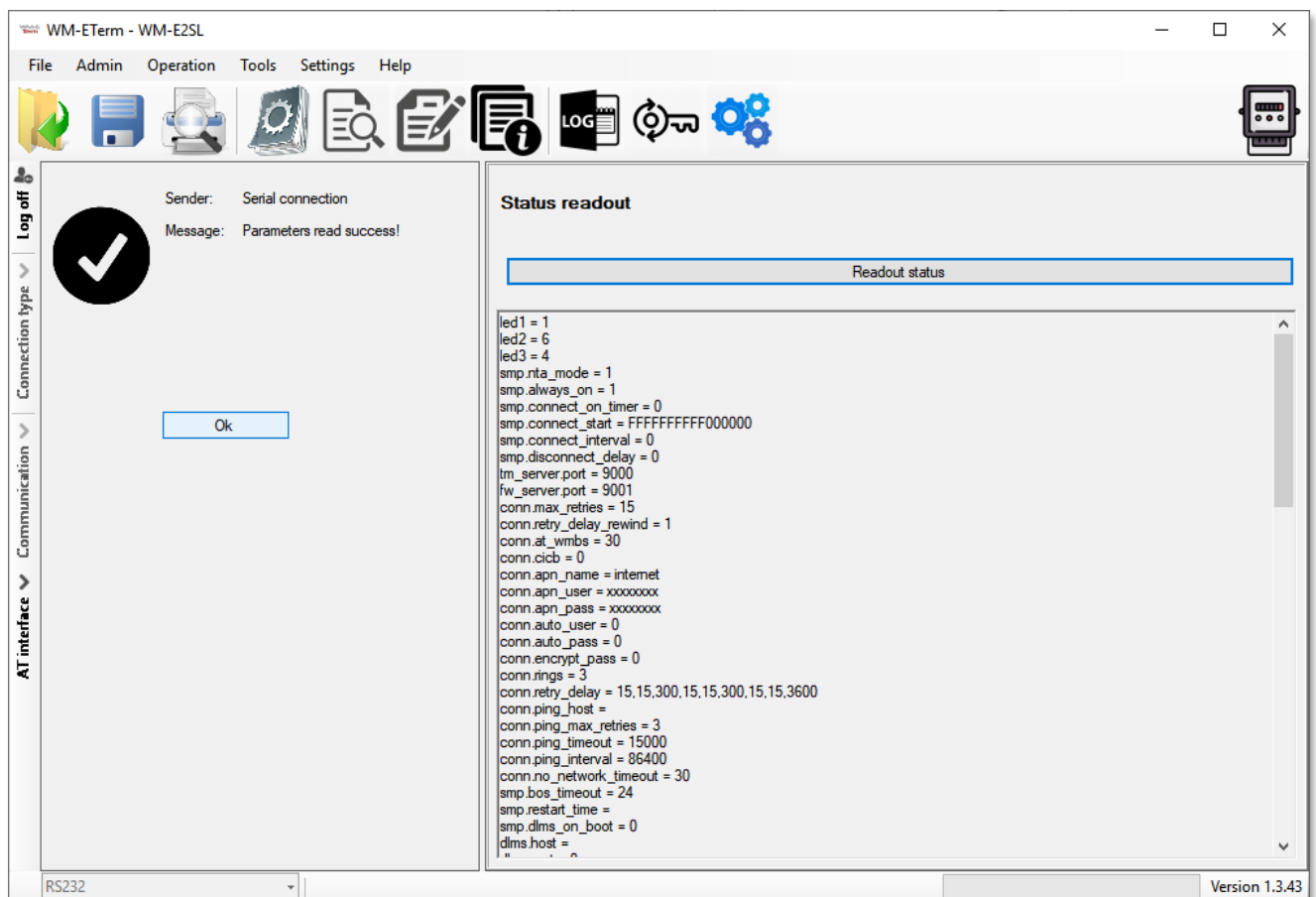
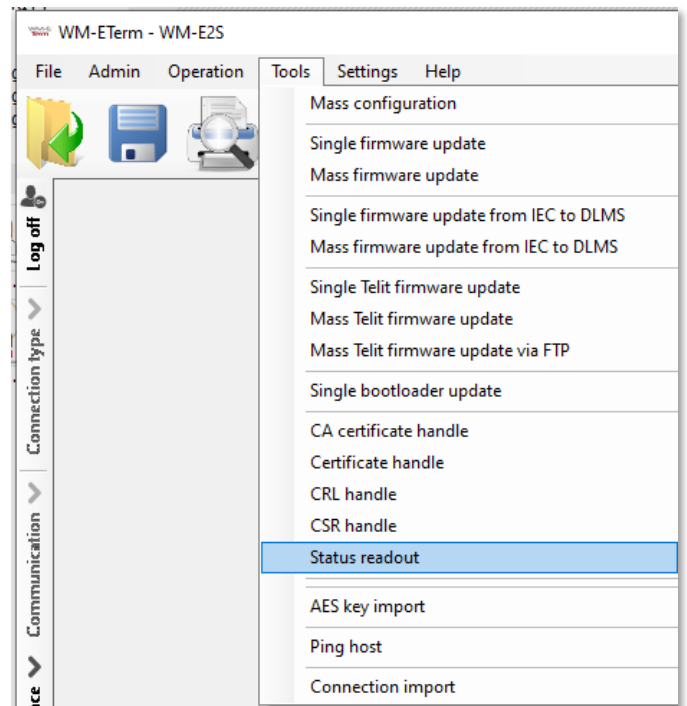
1. The **CSR read (no PK generate)** can be read and checked by the **Read CSR** button, which will show the request file content of the generated key.



2. The **CSR read (PK generate)** can be read and checked by the **Read CSR** button, which will show the request file contents of the Private Key generated.

4.9 Status read

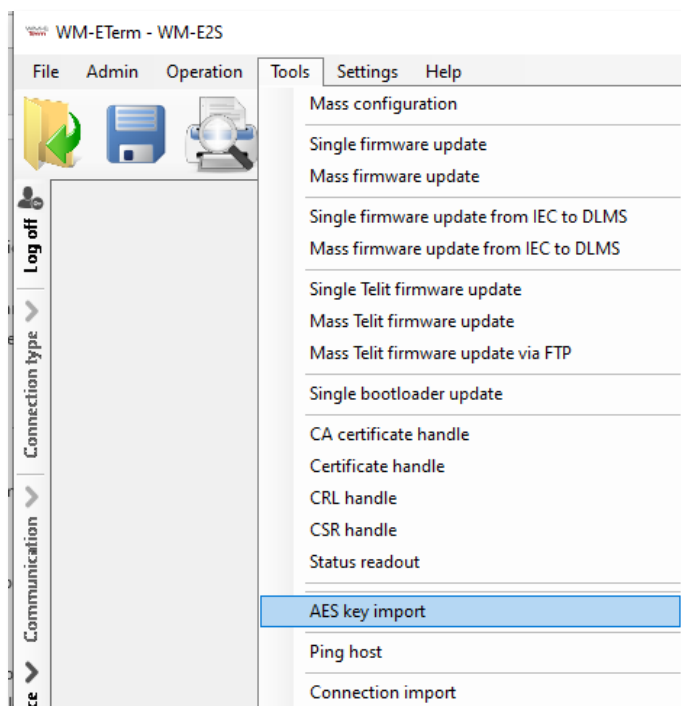
In the **Status readout** menu you can get current status of the modem - as current firmware version, OS version (modem model release), current signal strength of the cellular network (RSSI), used APN settings, IP address), the serial number / IMEI of the modem, ICC of the SIM card. This is useful for checking the modem status and the configuration settings (as IP address, SIM / APN, etc.).



4.10 AES key import

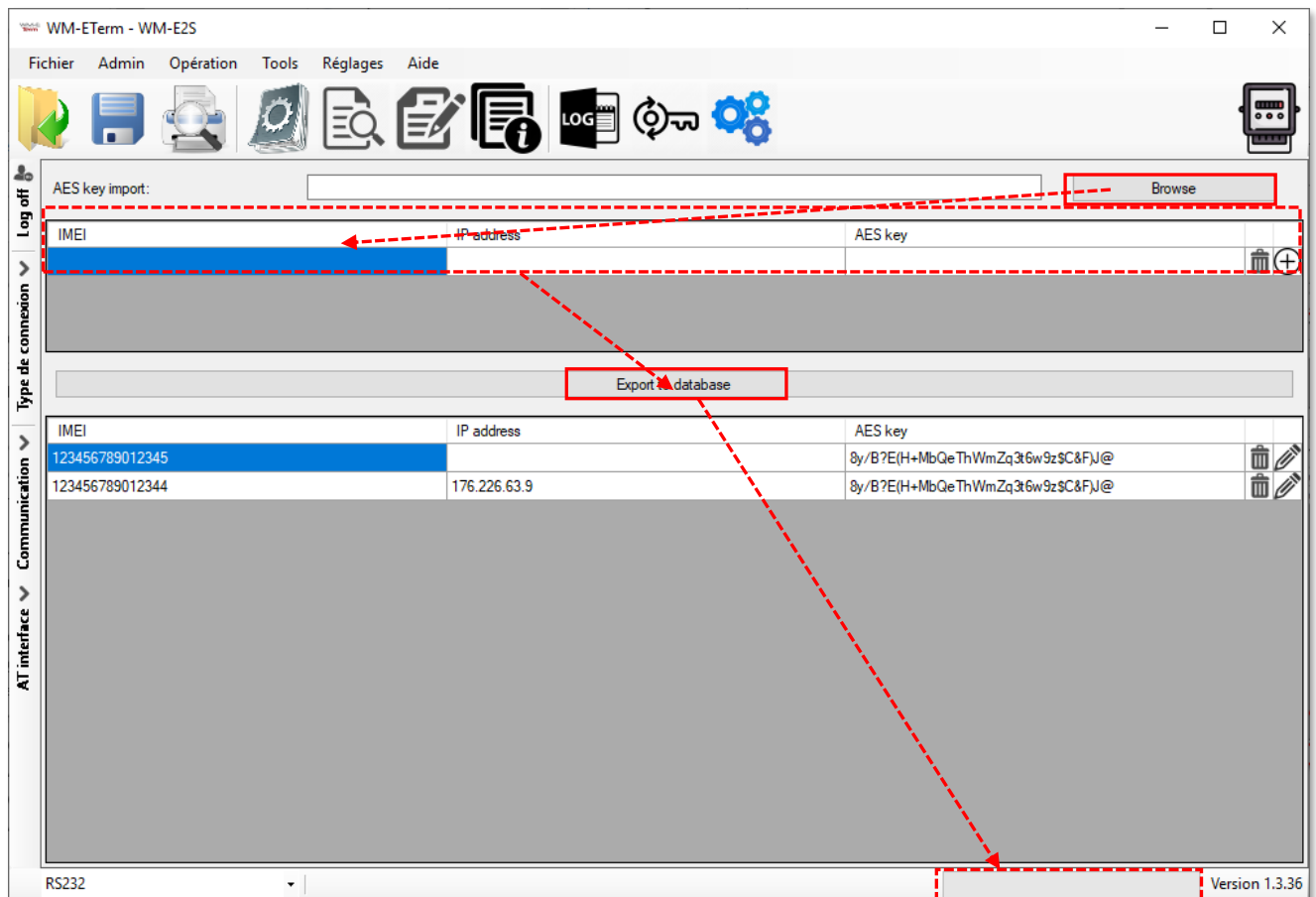
Here you can define a list of devices, which will be using AES-256 encrypted communication during their configuration and firmware update process. The defined AES keys will be used for the listed modems.

1. Choose the **Tools / AES key import** item from the menu.
2. Push then the **Browse** button to select the .CSV extension list file of the certification.
3. Modify the **IMEI** identifiers of the modems if necessary, the **IP address** of the modems' SIM card and the relevant **AES key** of the modems' encrypted communication.



4. Push then the **Export to database** button to begin the AES-256 encrypted configuration. The modem will then be able to use the AES key effectively during the further configuration and firmware upload processes.

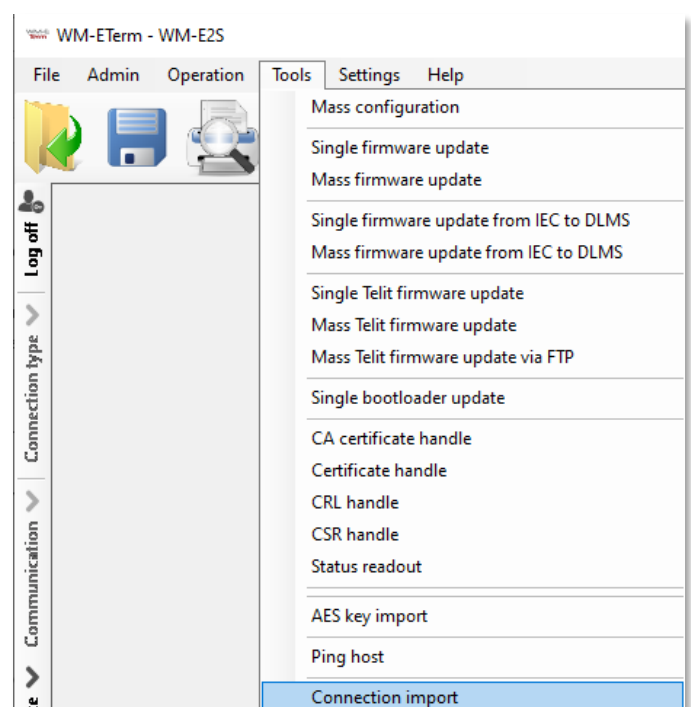
Important! This feature will only be effective, if you use AES-compatible firmware version on the modem. Ask our sales!



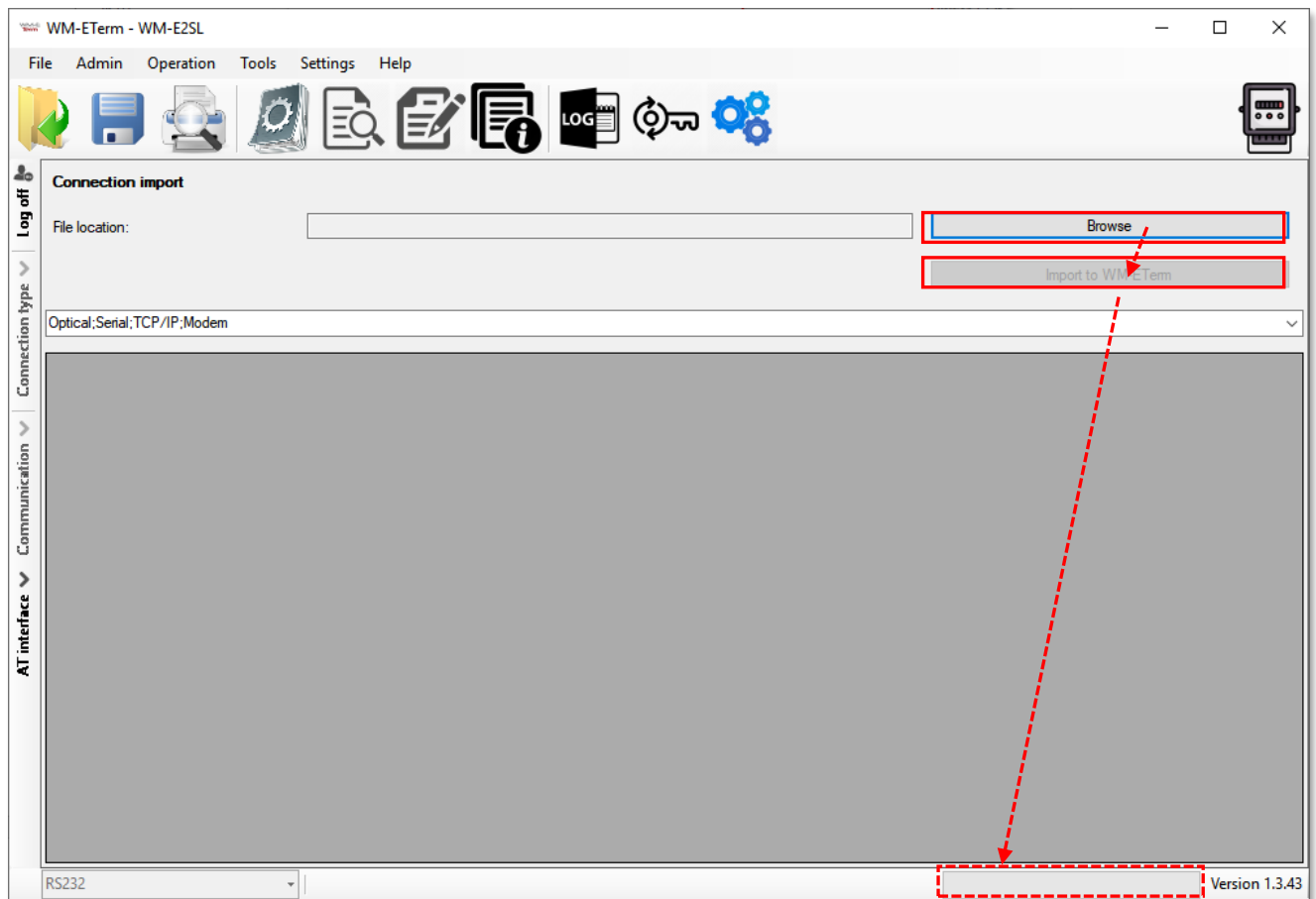
4.11 Connection import

Here you can load a CSV file with a list of connection profiles. These will be imported into the WM-E Term and later selectable by one-click at the left bottom of the screen as a direct connection profile.

1. Choose the **Tools / Connection import** item from the menu.
2. Push then the **Browse** button to select the .CSV extension list file of the connection profiles.
3. The list will be loaded and you can modify the data if you want.



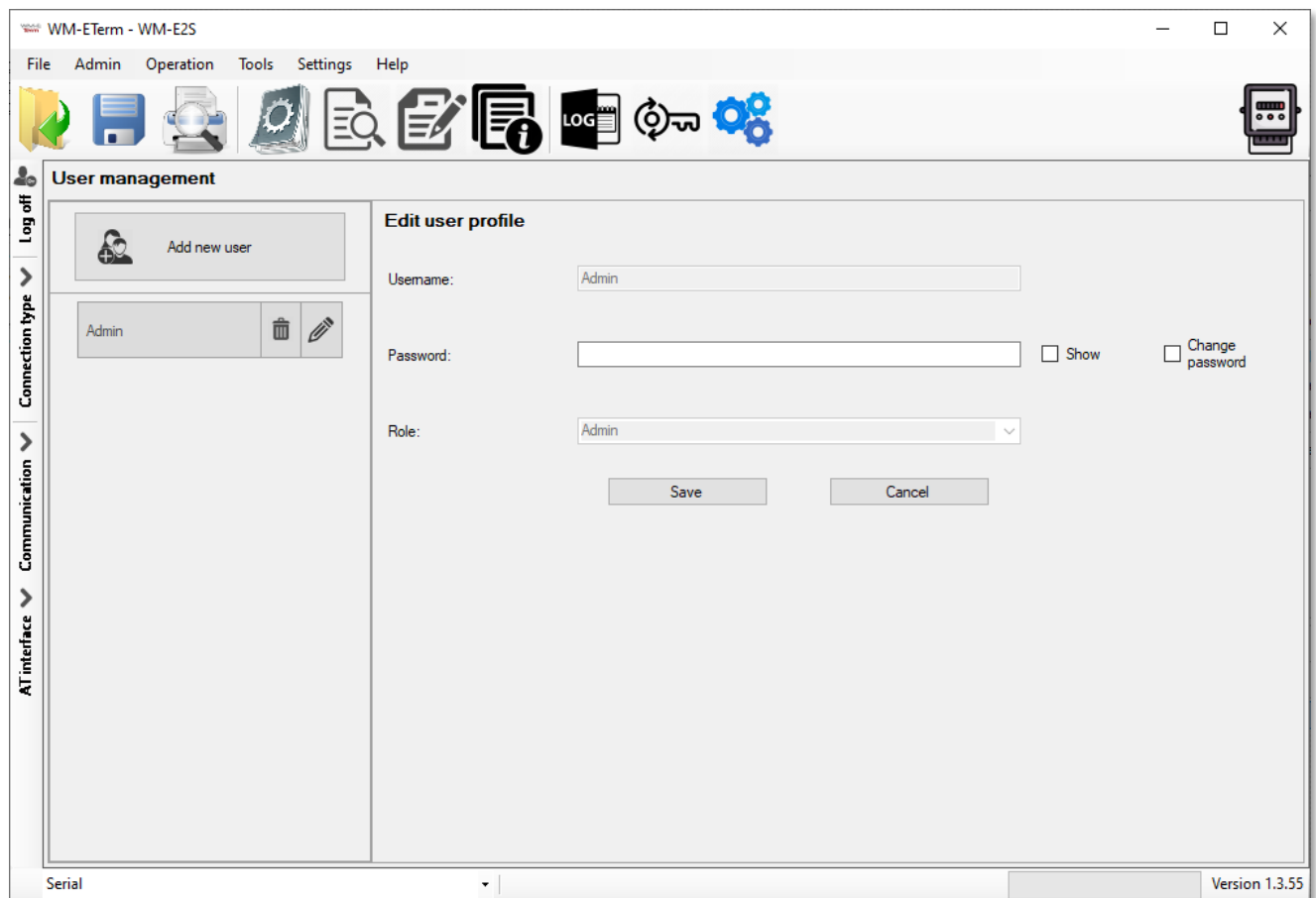
4. Push the **Import to WM-E TERM** button for importing the connection profiles.



Chapter 5. Other features

5.1 User Management


1. Choose the **Admin** menu, **Manage users** menu item.
2. There you can **Add** a new user or **Modify, Delete** an existing one.

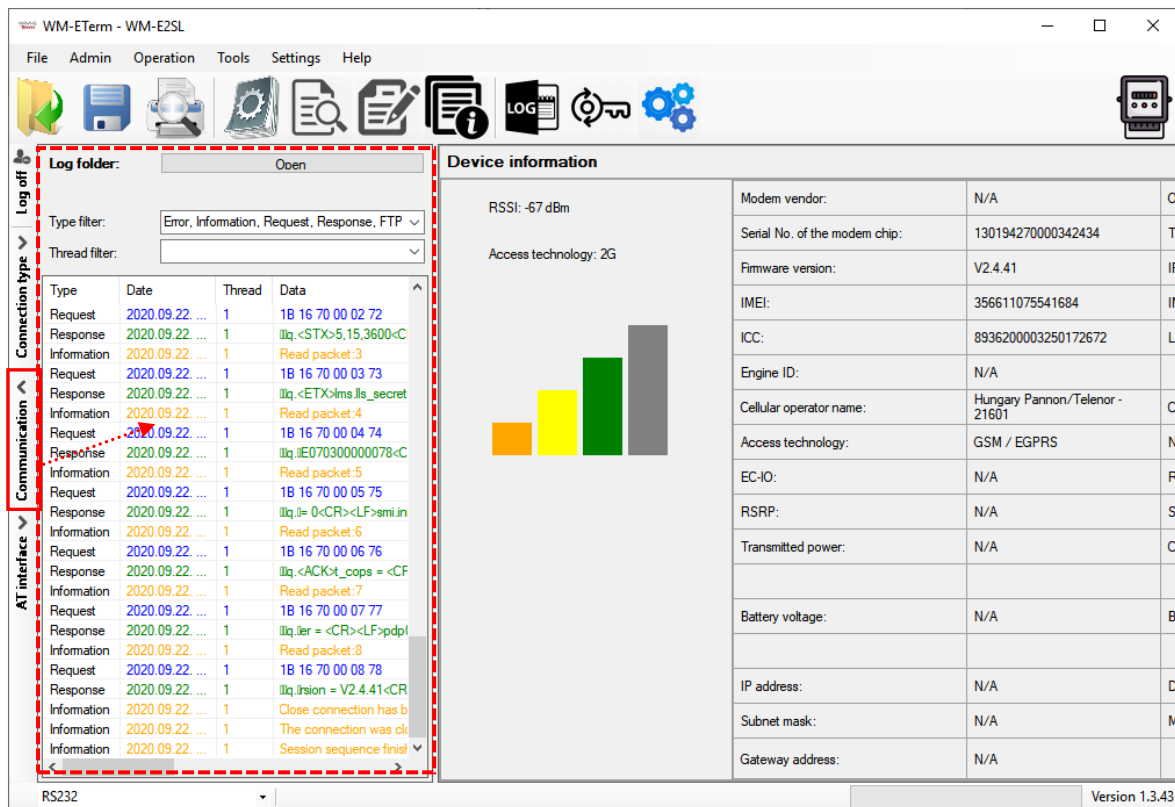


3. To change the currently used / existing password, push the **Edit** (pencil icon) and add the new **Password** and **Save** it. The new password will be valid from the next WM-E Term® start when you will attempt to login.

5.2 Event log

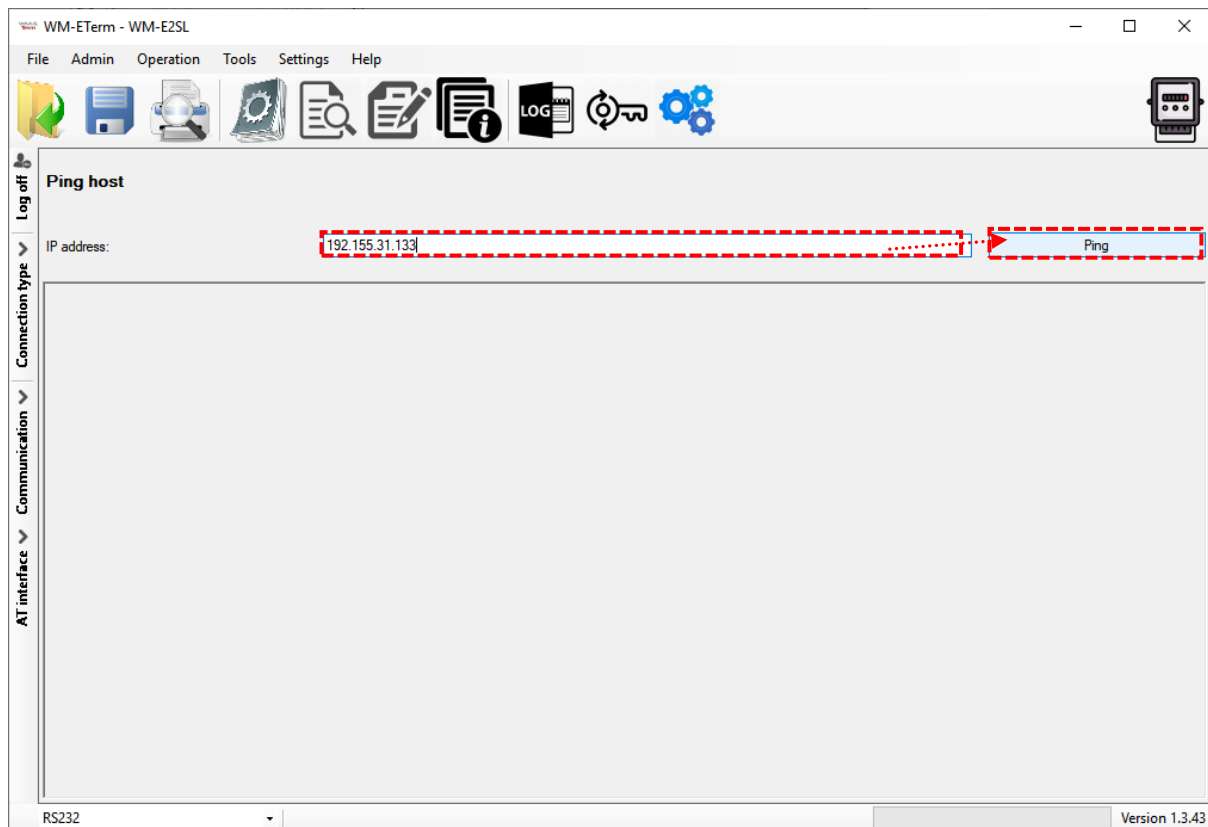
You can check the events of operation and modem interaction, communication by the Event log item.

1. Open the  icon for listing the previously recorded log entries (or choose the



5.4 Ping host

You can ping a remote host IP address by the **Tools** menu, **Ping host** item.



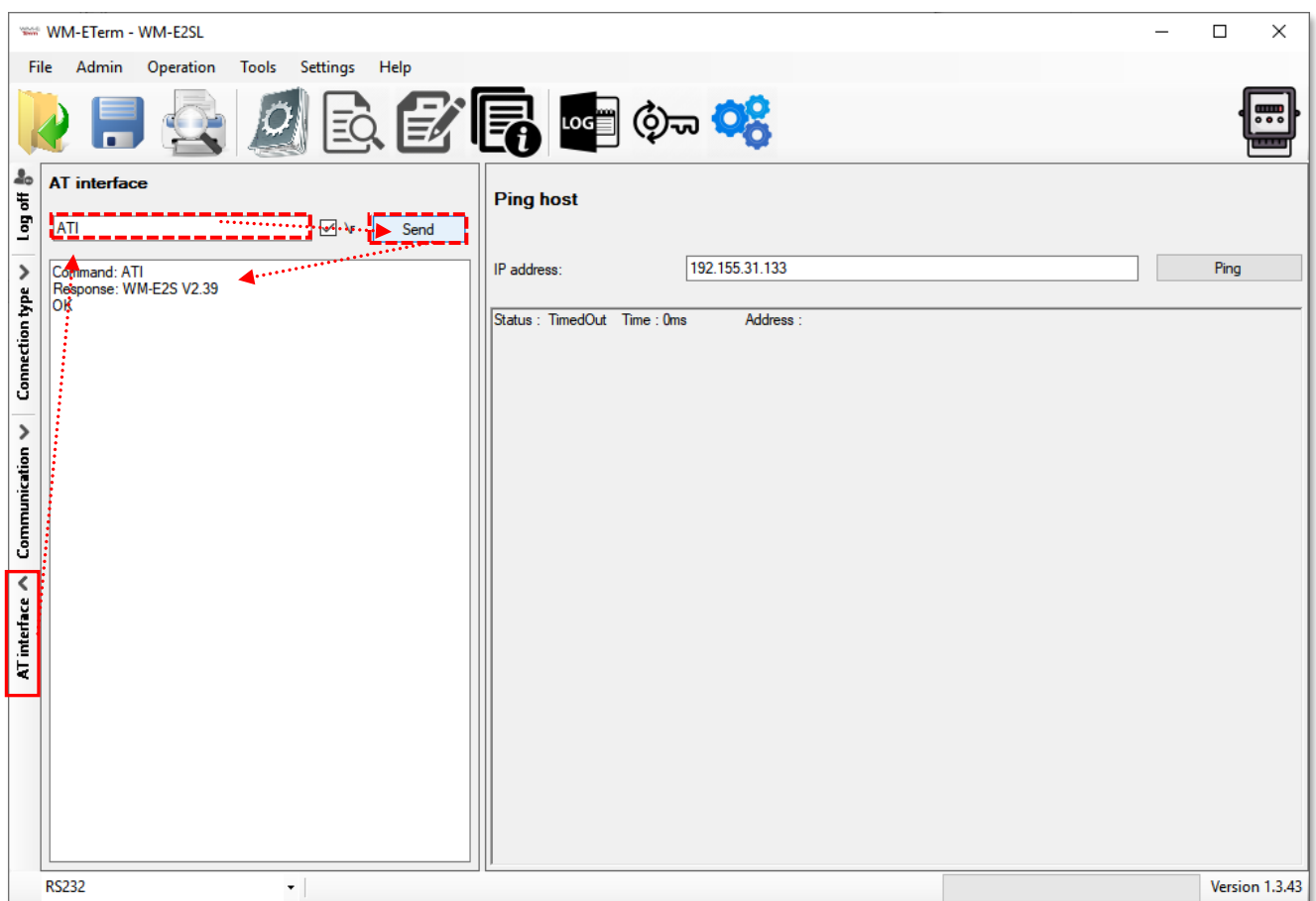
Enter the **IP address** you want to check to ping and push to the **Ping** button.

5.5 AT commands

Select the **AT interface** tab on the left side of the screen.

Here you can use the AT commands on the modem's wireless module, by filling the command at the **AT interface** and by pushing the **Send** button.


You can check the „/r” option for the carrier handling if you want.



5.6 Print

You can print the current parameter settings of the modem.


After choosing the log period (by selecting the Log icon and a logged interval),

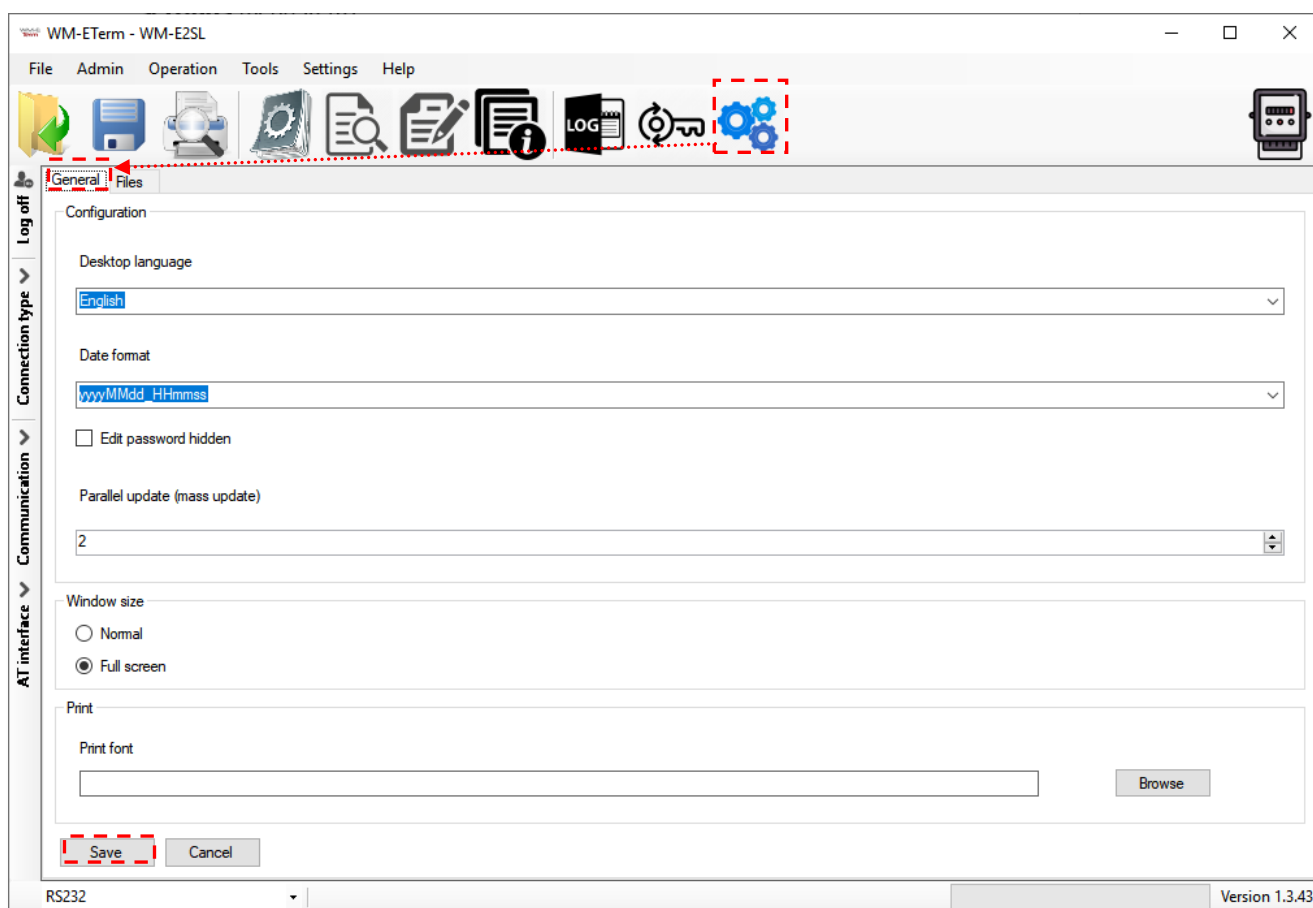
push the  icon from the menu (or choose **File / Print** item from the menu).

The print view of the parameter configuration will then appear. Now you can print the current configuration.

5.7 General settings

The general program settings can be done by this menu item.


1. Choose the  **Settings** icon from the menu (or choose the **Settings / Edit settings** menu item).
2. If needed, you can change the **General** tab settings (as language, Date format, Window size, Print font type or hide the password).

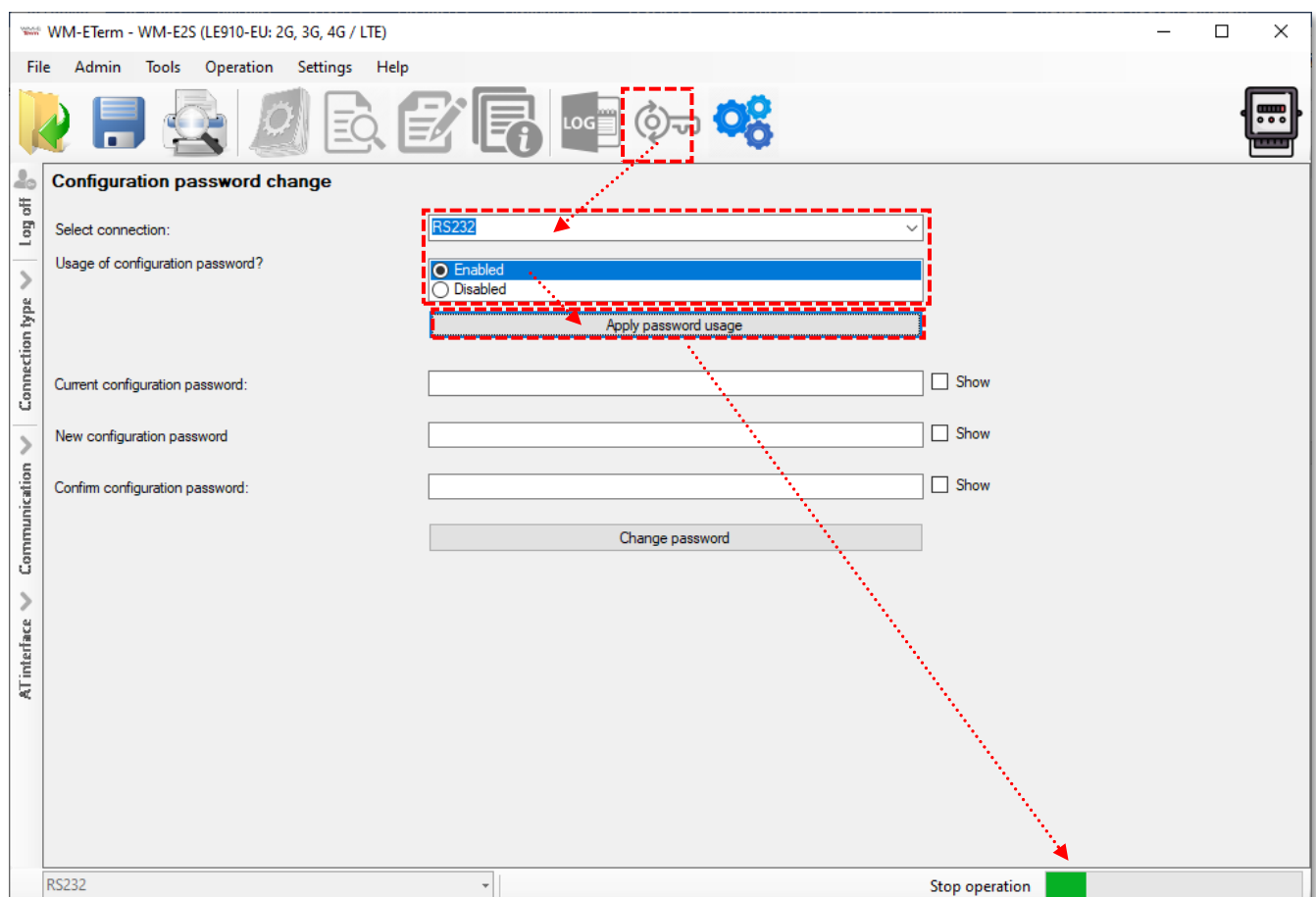


3. **Save** your settings when you have modified the configuration.
On the **Files** tab you can define the path/directory for the configuration files, firmware, log.
4. **Save** your settings when you have modified the configuration.

Important! The WM-E Term software will store the changed settings and when you start the WM-E Term® tool next time, they will automatically be loaded.

5.8 Apply Password usage

1. Choose the **Communication Password Settings**  icon from the menu.
Note, that the **Communication password** field should be empty!
2. At **Select connection** choose the configuration profile name, which you want to change its password.
3. Ensure that **Enabled** option was selected at **Usage of configuration password?** field.
4. Then push to the **Apply password usage** button. The modem will setup the password usage, which can be seen on the progress bar indicator at right bottom side of the screen.



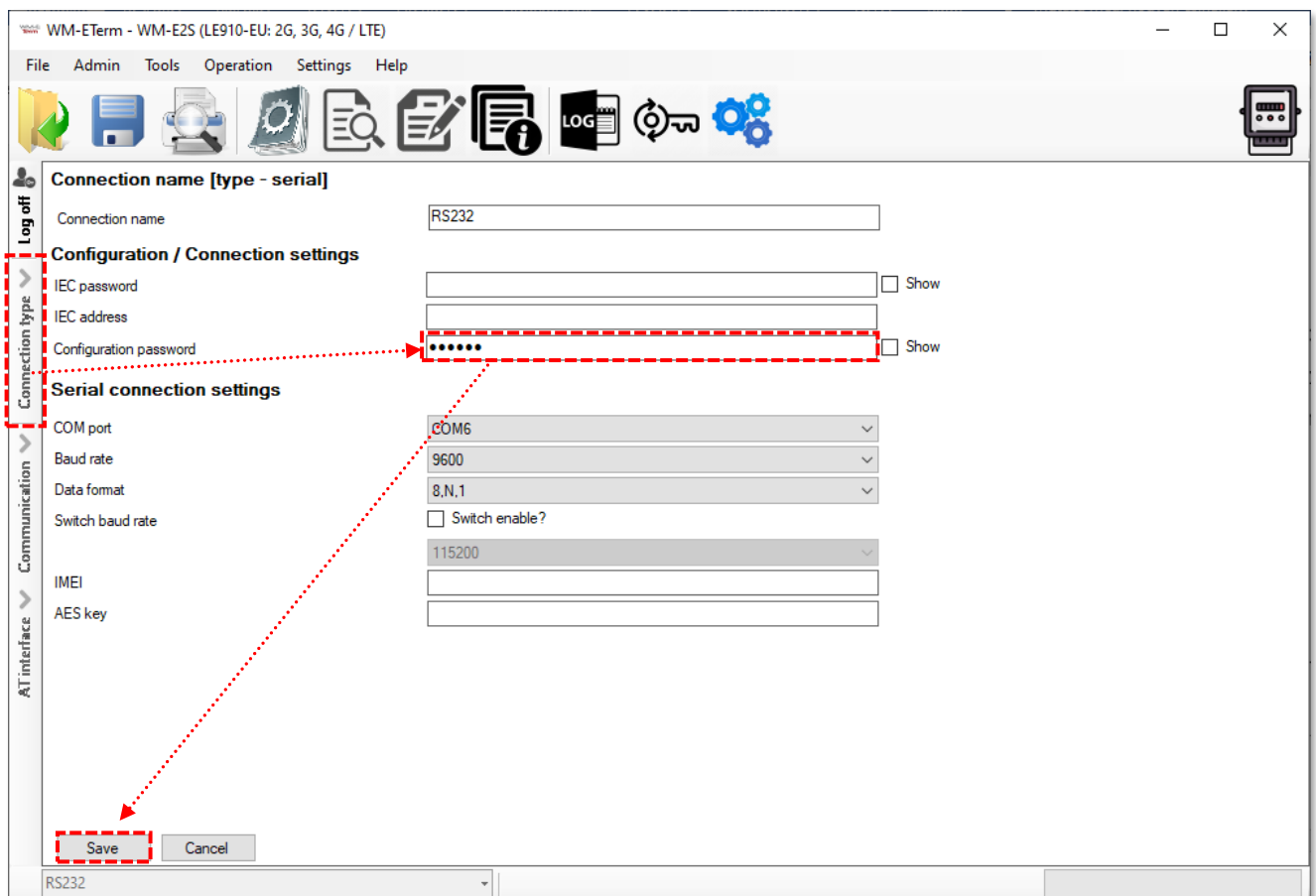
5.9 Password change


For modem firmware v5.x or newer versions it is possible to use the **Communication password** for the modem configuration – for each connection type (optical, serial, TCP, etc).

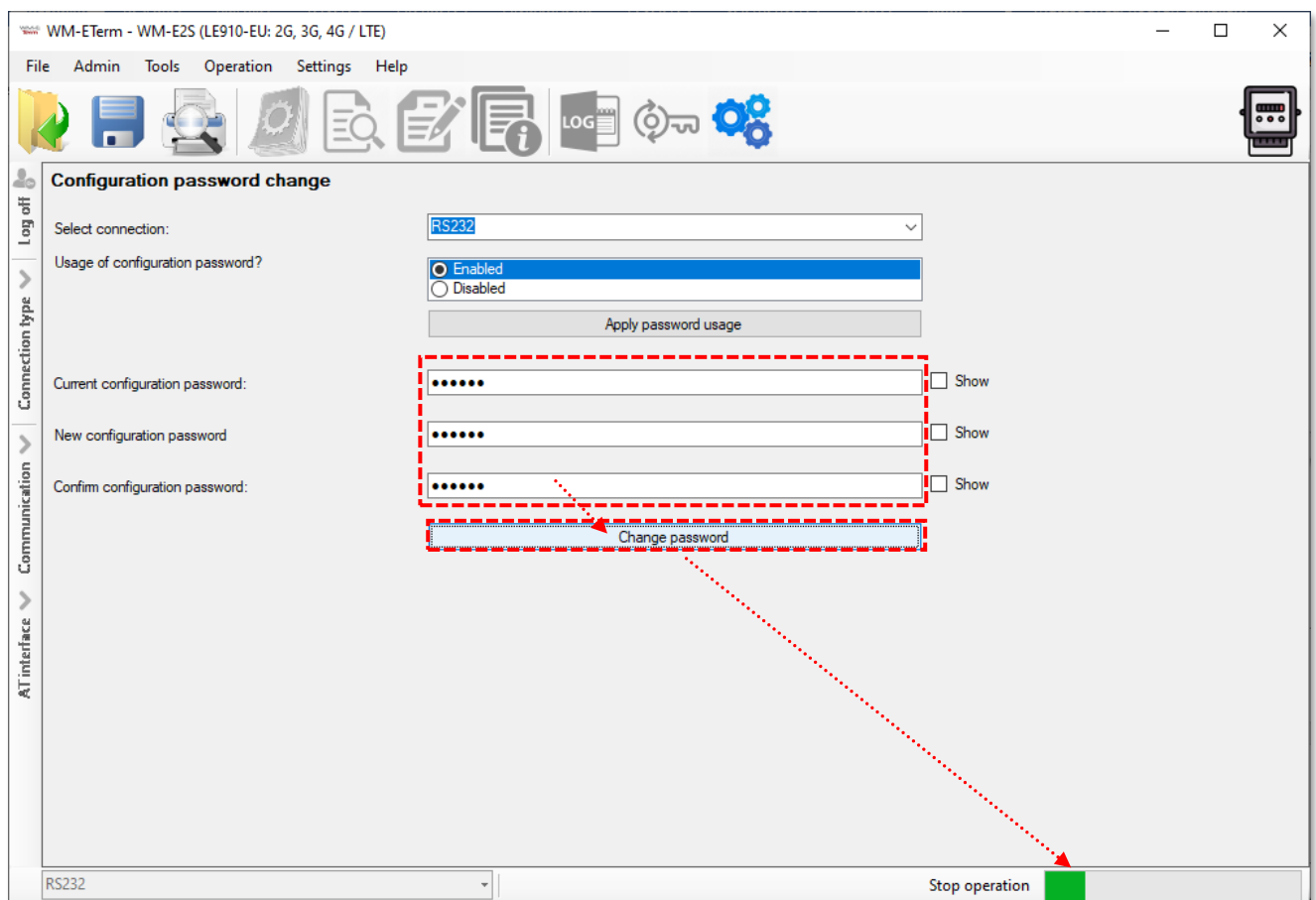
Important! Only modem firmware v5 and newer versions can use a password. Note, that v5 versions has a default password. The default password is: **WMEXS!**

This password can be changed, but before doing this, you have to connect with the default password to the configuration profile – by following the steps of Chapter 5.8 (Allow Password usage).

1. Open the left-side **Connection type** tab, choose the currently used configuration profile and **Edit** the settings.
2. Fill the default password (or the last known password to the **Configuration password** field.



3. Push to the **Save** button.
4. Choose the **Communication Password Settings**  icon from the menu.
5. At the **Select connection** field, choose the configuration profile, which you want to choose the password belonging to the profile.
6. Fill the current **Current configuration password** – where you can check it by enabling the **Show** option.
7. Then define a **New configuration password**, then **Confirm configuration password** also.



Important! The password length can be between 1 and 16 characters. Only alphanumerical characters (lower case and upper case letters and numbers) and the „!“ sign (exclamation mark) can be set here.

Note, that the password characters are substituted by asterix characters during the password fill in – by security reasons.

8. Then push to the **Change password** button to perform a password change.

Important! After configuring this, you have to disconnect the connection with the WM-E Term software and you have to login again. Then you have to reconfigure the Configuration password at the connection profile – to the newly configured password – do it at the same place as it was showed in step nr. 1. Afterall, you should connect with the profile again to the modem (with the new password).

5.10 Modem restart

There is no direct option for immediate modem restart in the WM-E Term software. But it is very easy to push the modem to be restarted by doing the following sequence:

1. Choose any parameter from the read out values.
2. Change a parameter value
3. Push to the **Save** button.
4. Send the settings by **Parameters Write** icon to the modem.
5. At the end of the writing process, the modem will be restarted.
6. The restart of the device is signed by its LED signals.

If you wish to restart the modem later, you can schedule the time by using the **Watchdog settings** (see Chapter 3.4 for more).

Chapter 6. Parameter description

The detailed description of the parameters can be found on the website of the required modem product at the **Downloads** part!

WM-E2S (Itron type): <https://m2mserver.com/en/product/wm-e2s/>

WM-E2SL (Landis+Gyr type): <https://m2mserver.com/en/product/wm-e2sl/>

IMPORTANT!

The „TLS” related parameters can be used only with a TLS-compatible firmware, and configured TLS encryption.

Chapter 7. Support

If you have a technical question regarding the usage You can find us on the following contact possibilities:

Email: support@m2mserver.com

Phone: +36 20 333-1111

Product page: <https://m2mserver.com/en/product/wm-e-term/>

Online support: <https://www.m2mserver.com/en/support/>

Chapter 8. Legal notice

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Warning

Any fault or upcoming error during the software upload/refresh can lead to the device breakdown. When this situation happens call our specialists.