

WM-E Term[®]

User Manual

Universal configuration tool for WM-E1S®, WM-E2S®, WM-E2SL®, WM-E3S®, WM-E8S®, WM-i® and E57C WM LTE® electricity metering modems

Sec.	WM-ETerm - WM-E3S (HE910:	3G)				- 0	×	
Fil	e Admin Tools Operati	ion Settings Help						
	è 📑 🛃		(₩ 0 8				
20	Parameter group: A	MM (IEC)			~	Edit values		
Login	Edited groups: No	o edited groups						
>	Parameter description			Parameter value			^	
Connection type	Destination IP address or phone r	number						
tion	El client usemame							
nnec	El client password							
ů	AMM (ElServer) IP address							
>	El client authentication mode					~		
	AMM (IEC)							
iciti	IP Address:		Data push interval [sec]:		Event push address:			
Communication	Server port:	0	Data push cycle period:	1 minute v	Event push SMS text:	Input change		
	Auto register:	Auto register	Data push host:		Event push SMS ignore until [sec]:	60	-	
> a	Poll interval fast (not deployed) [sec]:	30 🜲	Data push Filename prefix:		Event push SMS notification:	Last GASP	~	
AT interface	Poll interval slow (deployed) [sec]:	30	Data push timeout [msec]:	15000	LastGASP lost SMS text notification:	Power lost		
ATir	El client TCP keep alive [min]:	10	Data push max retries:	3	LastGASP return SMS text notification:	Power return		
	El client usemame:		Data push retry delay [sec]:	60 🚖				
	El client password:		Data push T1-T3 table mask:	T1 ~				
	El client authentication mode:		Data push IEC meter address:					
	Ok Cancel		Data push IEC readout speed [baud]:	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-EIS[®], WM-EISI[®], WM-EISL[®], WM-E2SL[®], WME3S[®], WM-E3S CI[®], WM-E3S M-BUS[®], WM-E3Q ETH[®], WM-E8S[®], WM-i[®], E57C WM LTE[®] modems and the Universal Industrial Modem[®] 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 $Microsoft^{\circ}$ $Windows^{\circ}$ 7/8/10/11 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 reqiured interface.

2. Download **WM-E Term Appendix** document by the link, which can help the configuration.

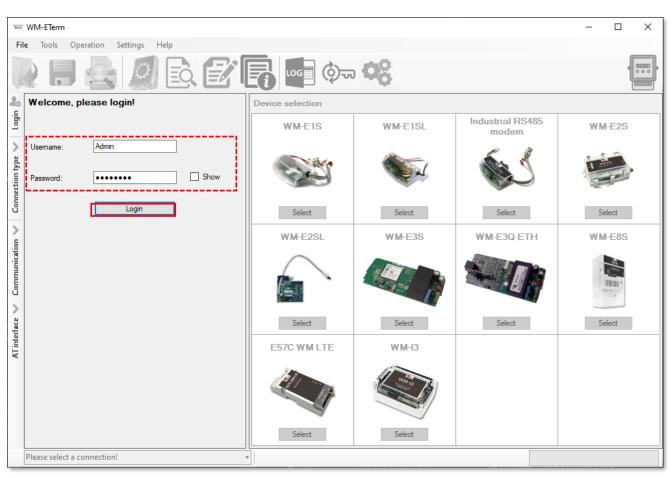
https://www.m2mserver.com/m2m-downloads/WM-E-TERM_Appendix_V1_10.pdf



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

https://www.m2mserver.com/m2m-downloads/WM-ETerm_v1_4.zip

4. Unpack the .zip file into a directory and **execute** the **WM-ETerm.exe** file. The following application screen appears, where fill the login data and press the **[Login]** button to enter.



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 indicate that the password was already filled in. You can use the **Show** checkbox option to check the filled password.

5. By double-clicking with the mouse on the window, the size of the screen can be reduced to a smaller size.

6. You can also change the language settings in the **Settings** menu.



7. **Select** the metering modem type, according to the currently used model.

Server 1	WM-ETerm			– 🗆 X
File	Admin Tools Operation Settings	Help		
	d 💽 🕞 🕼	i 🖉 🗢 🖪 [0	
	Device selection			
Login	WM-E1S	WM-E1SL	Industrial RS485 modem	WM-E2S
Connection type 🗸			No contraction of the second s	
> uo	WM-E2SL	WM-E3S	WM-E3Q ETH	WM-E8S
Communication				
	E57C WM LTE	WM-i		
	ALL TO			
	Please select a connection!	*		

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



connect and check the communication.

At the bottom of the screen, on the lef hand side, you can connect with a pre-

configured profile to the modem (by selection).

Please select a connection! -



1.4 Setup the configuration connection

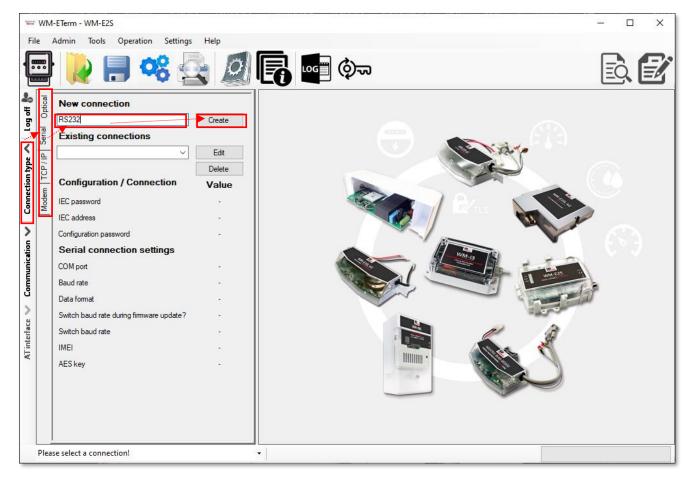
1. Configure the modem to the relevant interface. First you have to define at least one connection profile.

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:

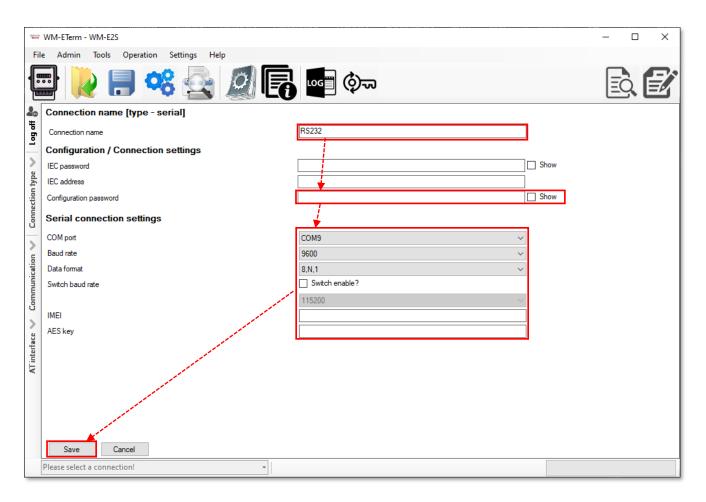
Make serial RS232 connection by the USB Dongle between the modem and your computer, in case of WM-E2SL an RS485 USB Dongle between the modem and your computer (RJ45-connection) and an RJ12-connection interface in case of E57C WM LTE

 On the left-side of the screen click on the Connection type and choose the Serial interface.





- 2. Add a name for the profile at the **New connection** field.
- 3. Push **[Create]** button and the next window connection settings will appear.
- 4. In the connection window you can define the connection profile parameters as Connection Name. At Configuration / Connection 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).



5. 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 Om icon from the menu.)



 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.

***Warning!** For modem type **E57C WM LTE**, the speed (baud rate) must be set the same on both the modem side and on both interfaces of the measuring device; it is currently max. 38 400 baud.

- 7. 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.
- 8. Click on **[Save]** button to save the connection profile.
- 9. Connect with a connection profile and choose the **Parameters Readout** icon.

New Color	WM-ETerm - WM-E2S					- 🗆 X	
Fil	e Admin Tools Ope						
		08 🔄 🧕	E 105			<mark>-</mark>	
l og off 📩	Standard settings			Edit values			
>	GPRS is always ON:		Watchdog check IP address:		Meaning of LED 1:	~	
Connection type	Mobile network technology:	\sim	Meter port baud rate (for transparent mode and meter readout):	~	Meaning of LED 2:	×	
Connect	SIM PIN code:		Data format for meters:		Meaning of LED 3:	~	
>	APN Name:		RS485 mode:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Meaning of LED 4:	~	
Communication	APN Usemame:		DCD mode:	****** ~ ~	Meaning of LED 5:	~	
Comm	APN Password:		LastGasp Event push address:		Meaning of LED 6:	~	
>	PDP connection establishment delay [min]:	0	Port for transparent (IEC) mater readout:	×			
AT interface	Wait time until modem reset [hours]:	0	Part for downloading the config and firmware:	×			
V	Modem daily restart at [HH:MM]						
	Ok Cancel						
						•	
	RS232		*		Stop operation		



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.

New Server	WM-ETerm - WM-E2S			_		×
Fi	le Admin Tools Operation Settings Help					
	2 🗏 🗟 🖉 🖪	🕑 🛃 🔤 🗇 🤫			(
20	Connection name [type - optical]					
Log off	Connection name	Optical				
	Configuration / Connection settings					
>	IEC password		Show			
type	IEC address]			
ction	Configuration password	••••	Show			
Connection type	Optical connection settings					
>	COM port	COM6 ~				
uo	Baud rate	300 ~				
Communication	Data format	7.E.1 ~				
Inm	Always set transparent mode on	and the second				
Con	Delay between packet send [ms]					
>						
AT interface						
Å						
	and the second					
	Save Cancel					
	Please select a connection!	·				

- 3. Add a name for the profile at the **New connection** field.
- 4. Push **[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, in the Configuration / Connection Settings section 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.)

 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.

WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE)			- 🗆 X
File Admin Tools Operation Settings Help			
🚍 💫 📄 🧠 🚉 🧟	E 1 1		
Parameterizing password:	Standard settings	Edit value	s
Ok Cancel	GPRS is always ON:	Watchdog check IP 0.0.0	Meaning of LED 1: G 🗸
Connection type	Mobile network technology:	Meter port baud rate (for transparent mode and meter readout):	Meaning of LED 2:
Connec	SIM PIN code:	Data format for meters: 8 ~	Meaning of LED 3:
>	APN Name: net	RS485 mode: C V	
nication	APN Usemame:	DCD mode:	
Communication	APN Password:	LastGasp Event push address:	
>	PDP connection establishment delay [min]:		
AT interface	Wait time until modem reset [hours]:	Pott for downloading the config and firmware:	
AT	Modem daily restart at [HH:MM]		
	Ok Cancel		
		Advanced settings	•
Optical_temp	•		



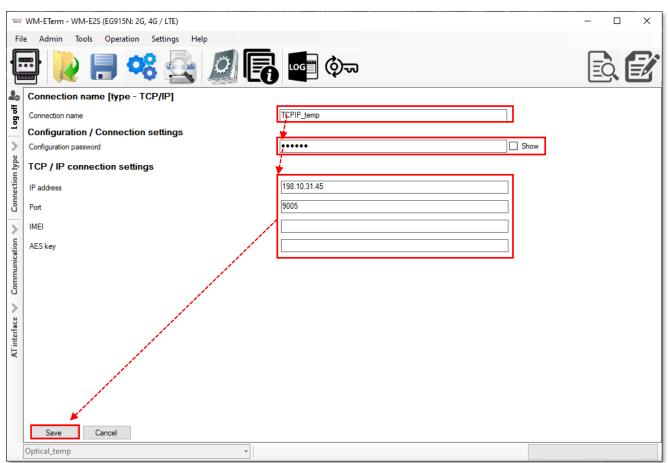
- 9. You can setup the **Delay between packet send [ms]** where you can define the time interval (pause) between packages value in milliseconds.
- 10. Then press the **[Save]** button to save the profile settings.
- 11. Fill the **Parameterizing Password** according to the meter information, then press 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:

You need to know the IP address of the SIM card for connection and the preconfigured port number to setup the TCP/IP settings.

- On the left-side of the screen click on the Connection type and choose the TCP/IP interface.
- 2. Add a name for the profile at the **New connection** field.
- 3. Press the **[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 the **IP address** to the connected SIM card and the **Port** for the connection.
- 6. Press then the **Save** button to save the profile settings.
- 7. Then push to the **Parameters Read** icon, then the screen change to a different view with the *Standard settings*, and $\boxed{100}$ the modem will be reading out parameter values from the modem after connecting. Continue from the **Chapter 1.5.**

Modem configuration profile:

- 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)

WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) × Admin Tools Operation Settings Help File **I** 2. Connection name [type - modem] 녻 Connection name Modem temp 5 Configuration / Connection settings Show IEC password IEC address Connection Show Configuration password Modem connection settings COM port COM3 \sim > Baud rate 9600 \sim inication Data format 8.N.1 \sim 36301234567 Phone number Also not numeric Com Modem type н Edit Delete New **AT interface** Modem type definition Modem 1 Connection name ATI Inicialization command Default Select bearer service type ATD Dial command Save modem type Cance Save Optical_temp Ŧ

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:

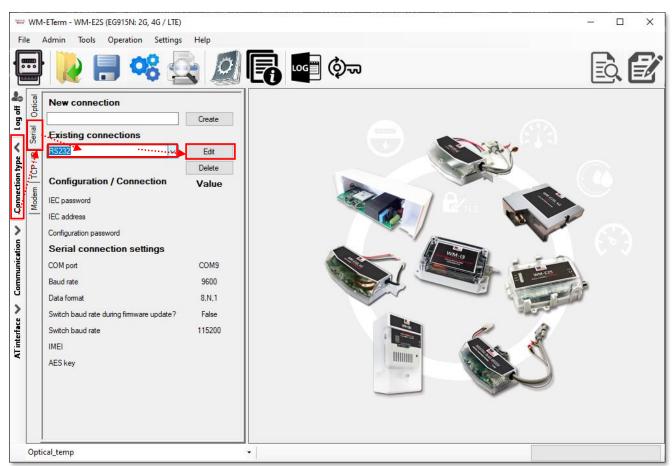
- Add the **Connection name** and the modem **Initialization command**.
- Select bearer service type, and add the Dial command.
- Define the **Initialization command** for the connecting modem.
- Configure further modem types also, use a Bearer service and define the Dial command.
- For storing the *Modem type* parameters and the connection type, press the [Save modem type] button.
- 9. When you have finished the settings, press 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 Modify 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 connections** at the connection selection part and the relevant settings will be loaded to the right part of the screen.
- 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!

Please select a connection	n! v		Version 1.3.43

- 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 righ-bottom side of the screen.

1800 V	WM-ETerm - WM-E2S					— [×
File		eration Settings Help					
		08 🛃 🧕		() , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 🖻	
l og off 🕈	Standard settings			Edit values			
>	GPRS is always ON:		Watchdog check IP address:		Meaning of LED 1:		~
Connection type	Mobile network technology:	~	Meter port baud rate (for transparent mode and meter readout):	~	Meaning of LED 2:		\sim
Connec	SIM PIN code:		Data format for meters:		Meaning of LED 3:		~
>	APN Name:		RS485 mode:	~ ~	Meaning of LED 4:		~
Communication	APN Usemame:		DCD mode:	~	Meaning of LED 5:		~
Comm	APN Password:		LastGasp Event push address:		Meaning of LED 6:		~
> 3	PDP connection establishment delay [min]:	0	Port for transparent (IEC) meter readout : Port for downloading	0			
AT interface	Wait time until modem reset [hours]:	0	the config and firmware:	0			
×	Modem daily restart at [HH:MM]						
	Ok Cance						
		and the second				¥	
F	RS232		-		Stop operation		

- 3. Then confirm the parameter readout success by the **[OK]** button at the left side of the screen.
- 4. Afterall, the most important modem parameter values will be listed on the screen in this **Standard settings** view.
- If you want to configure additional settings beyond the basic [Edit] settings (above) or press the [Advanced Settings] button (below) on the bottom 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 (EC	• • •					-	_ ×
	peration Settings Help	E 6	س (d e
Sender: Message	Serial connection	Standard settings			Edit values	S	
Connection type <	successfully!	GPRS is always ON: Mobile network technology: SIM PIN code: APN Name: APN Username: APN Password: PDP connection establishment delay [min]; Wait time until modem reset [hours]: Modem daily restart at [HH::MM]	C ~	Watchdog check IP address: Meter port baud rate (for transparent mode and meter readout): Data format for meters: RS485 mode: DCD mode: LastGasp Event push address: Port for transparent (IEC) meter readout: Pott for downloading the config and firmware:	0.0.0 9 \ 8 \ E \ Ir \ It \ 9(\$	Meaning of LED 1: Meaning of LED 2: Meaning of LED 3:	G > S > E >
R5232				Advanced settin	ngs		

Left column parameters:

- 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 algorhythm for network use (for 2G, 3G, LTE, Cat.M networks and for fallback* feature). See Chapter 3.3 for further details.

Cellular band:	Current setting is not changed
	Current setting is not changed 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-loT
	CAT-M1 and NB-IoT

 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.

e Ad	dmin Tools Op	eration Settings Help		৾ঢ়৵		
Stand	dard settings			Edit values		
GF	PRS is always ON:		Watchdog check IP address:	8.8.8	Meaning of LED 1:	GSM / GPRS status 🗸
	obile network chnology:	Current setting is not char $$	Meter port baud rate (for transparent mode and meter readout):	9600 ~	Meaning of LED 2:	SIM status (wrong PIN flz $ \smallsetminus $
SI	M PIN code:		Data format for meters:	8N1 ~	Meaning of LED 3:	E-meter status
AP	PN Name:	net	RS485 mode:	Disable \lor		
AP	PN Usemame:	xxxxxxxx	DCD mode:	Inverted \checkmark		
AP	PN Password:	xxxxxxxxx	LastGasp Event push address:			
est	DP connection tablishment delay iin]:	3	Port for transparent (IEC) meter readout:	1001		
I Wa	/ait time until modem set [hours]:	24	Port for downloading the config and firmware:	9001		
Mo [HI	odem daily restart at IH:MM]	1414				
	Ok Cance	1		<u></u>		
1			Adv	vanced settings		

- 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. 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 estabilishment 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).
- Modem daily restart at [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:

- 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.
- Meter port baud rate (for transparent mode and meter readout) 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.

* **Warning!** For the modem type **E57C WM LTE**, the speed (baud rate) must be set the same on both the modem side and on both interfaces of the measuring device; it is currently max. 38,400 baud.

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 be 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.

- 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
- 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:

 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-E1S / WM-E2S / WM-E2SL / E57C WM LTE / WM-i modems, these have only 3 LEDs (LED1..LED3), however WM-E3S / AM322 modems have 6 reprogrammable LEDs (LED1..LED6).

- 2. 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.

No.	WM-ETerm - WM-E2S (EG9	315N: 2G, 4G / LTE)	- 🗆 X
Fi	le Admin Tools Ope	eration Settings Help	
ſ	🖹 🚺 📑	। 🤫 🚉 🧖 🕞 🔤 🗇	ē. E
-	Parameter group:	AMM (IEC)	✓ Edit values
Log off	Edited groups:	AMM (IEC) I APN Calendar Device Manager	
>	Parameter description	M2M	^
Connection type	LastGASP lost SMS text notifi LastGASP return SMS text no	Network protocolo	
tion	Destination IP address or pho		
nnec	Event push SMS text notificat	Watchdog	
ů	Event push SMS text	-	*
>			*
Communication 🗸			
AT interface 🗸			
	R5232	-	



- 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 with the

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

WM-ETerm WM-E2S (EG915N: 2G, 4G / LTE)			– 🗆 X
File Admin Tools Operation Settings Help			
🖃 🍡 📄 🧠 🚉 🧕	(ē. 🕑
L Sender: Serial connection	Device information		
Message: Parameters were read out	RSSI: -75 dBm	Modem vendor:	N/A C
successfully!		Serial No. of the modem chip:	N/A N
add	Access technology: 2G	Firmware version:	5.3.24
tr tr		IMEI:	866760050908658 II
Connection type		ICC:	8936200003250172672F L
— Ok		Engine ID:	N/A
<u>د</u>		Cellular operator name:	Hungary Pannon/Telenor/Yettel C
Communication		Access technology:	GSM / EGPRS
		EC-IO:	N/A F
		RSRP:	N/A S
a		Transmitted power:	N/A C
AT interface			
ATir			
RS232	•	.	



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 indentifiers, cellular network provider code and operator name, available network and access technology.

After pushing the **[OK]** button, the celluar signal strength (**RSSI**) can be seen on left and the **Access technology** – as it is displayed by coloums.

Note, that if you are not satisfied with the results, then move the antenna to an another position which has better cellular network fidelty and after 30-60 seconds, repeat the **Device Information** request.

wheel	WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE)				– 🗆 X					
Fi										
	🔤 💫 📄 🤫 🧟 🧟 🕞 🔤 🗫									
20 4	Device information			1						
Log off	RSSI: -75 dBm	Modem vendor:	N/A	Operating system revision and ID:	WM-E2S WM-E2S 3.2.2					
>		Serial No. of the modem chip:	N/A	Module and firmware version:	EG915N EG915NEUAGR03A13M16					
	Access technology: 2G	Firmware version:	5.3.24	IP address:	37.234.6.56					
tion ty		IMEI:	866760050908658	IMSI:	N/A					
Connection type		ICC:	8936200003250172672F	LTE bands:	N/A					
		Engine ID:	N/A							
2		Cellular operator name:	Hungary Pannon/Telenor/Yettel - 21601	Cellular network provider:	21601					
Communication		Access technology:	GSM / EGPRS	Network status:	N/A					
Inmu		EC-IO:	N/A	RSRQ:	N/A					
		RSRP:	N/A	SINR:	N/A					
>		Transmitted power:	N/A	Cell ID:	N/A					
AT interface										
ATin										
	R\$232	•								

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 <u>top part of the screen</u> 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 choose **Operation** / **Device Information**

view menu or press the to icon.

UM
SYSTEMS

Admin	Tools Oper		Settings Help		
Log folder	:		Open	Device information	
				RSSI: -75 dBm Modem vendor:	N/A
Type filter:	Error, Info	ormation, F	Request, Response, FTF 🗸	Serial No. of the modern chip	: N/A
Thread filter:			~	Access technology: 2G	
				Firmware version:	5.3.24
Туре	Date	Thread	Data ^	IMEI:	866760050908658
Response	2024.08.01		Illq. <ack>ss = <cr><l< td=""><td></td><td></td></l<></cr></ack>		
Information	2024.08.01		Read packet:7	ICC:	8936200003250172672F
Request Response	2024.08.01 2024.08.01	-	1B 16 70 00 07 77 Ua.limeout = 0 <cr><li< td=""><td>Engine ID:</td><td>N/A</td></li<></cr>	Engine ID:	N/A
Information	2024.08.01		Read packet:8		
Request	2024.08.01		1B 16 70 00 08 78	Cellular operator name:	Hungary Pannon/Telenor/Ye - 21601
Response	2024.08.01	0	IIq.I-E2S 3.2.2 <cr><l< td=""><td>Access technology:</td><td>GSM / EGPRS</td></l<></cr>	Access technology:	GSM / EGPRS
Information	2024.08.01		Close connection has t	Access technology.	GSM7 EGFN3
Information	2024.08.01		Configuration port conn	EC-IO:	N/A
Information	2024.08.01		The connection was cl		
Information			Session sequence finis	RSRP:	N/A
Information Information	2024.08.01		Serial connection open Serial connection open	Transmitted power:	N/A
Information	2024.08.01		Session sequence start		
Information	2024.08.01		Serial port connection (
Information	2024.08.01		Serial port connection (
Request	2024.08.01	0	/?999999999! <cr><lf< td=""><td></td><td></td></lf<></cr>		
Response	2024.08.01	0	2F 45 4C 53 35 5C 37		
Response	2024.08.01	0	/ELS5\7 V5.3.24 2S20		
Request	2024.08.01	0	<ack>059<cr><lf></lf></cr></ack>		
Response	2024.08.01	0	06 30 35 39 0D 0A 00		
Response	2024.08.01		<ack>059<cr><lf></lf></cr></ack>		
Information	2024.08.01	0	Readout the configurat *		



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 righ-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 "**Communication**" tab on the left-side. Then the current modem communication messages, commands and answers will be listed on the left side of the screen.

		WM-E2S (EG91								-	
File	e Admin	Tools Oper	ation	Settings Help							
			00)				à E
l og off 🕈	Log folder:			Open	s	itandard settings			Edit values		
2	Type filter:	Error, Info	ormation, F	Request, Response, FTF 🗸							
>	Thread filter:			×		GPRS is always ON:		Watchdog check IP address:	0.0.0	Meaning of LED 1:	G ~
Connection type	Туре	Date	Thread	Data ^		Mobile network technology:	$\rm C \sim$	Meter port baud rate (for transparent mode and meter readout):	9 ~	Meaning of LED 2:	S \sim
ECTIC	Information Information	2024.08.01		Serial port connection (Serial port connection (
ξ	Request	2024.08.01		/?9999999999! <cr><lf< th=""><th></th><th>SIM PIN code:</th><th></th><th>Data format for meters:</th><th>8 ~</th><th>Meaning of LED 3:</th><th>$E \sim$</th></lf<></cr>		SIM PIN code:		Data format for meters:	8 ~	Meaning of LED 3:	$E \sim$
Ŭ	Response	2024.08.01		2F 45 4C 53 35 5C 37							
<	Response	2024.08.01	0	/ELS5\7 V5.3.24 2S20		APN Name:	net	RS485 mode:	$\rm e \sim$		
Ē	Request	2024.08.01		<ack>059<cr><lf></lf></cr></ack>							
Communication	Response	2024.08.01		06 30 35 39 0D 0A 00		APN Usemame:	XXXXXXX	DCD mode:	Ir \sim		
š	Response Information	2024.08.01		<ack>059<cr><lf> Readout the configurat</lf></cr></ack>							
Ē	Request	2024.08.01		1B 16 67 FF FF 67		APN Password:	XXXXXXX	LastGasp Event push address:			
2	Response	2024.08.01		1B 16 68 FF FF 08 5B				auuress.			
5	Information	2024.08.01	0	Read packet:0		PDP connection establishment delay	3 🌲	Port for transparent	1(🌲		
a 0	ommunicati	ion \$4.08.01	0	1B 16 70 00 00 70		[min]:		(IEC) meter readout:			
ĔΙ	Response	2024.08.01	0	llqconn.apn_name = i		Wait time until modem	24 🜲	Port for downloading the config and	9(‡		
AT interface	Information*• Request	2024.08.01 2024.08.01		Read packet 1 1B 16 70 00 01 71		reset [hours]:	- •	firmware:			
₹	Response	2024.08.01	0	Iliq. <soh>mp.bos_time</soh>	1	Modem daily restart at	14:14				
	Information	2024.08.01		Read packet:2		[HH:MM]					
	Request	2024.08.01		1B 16 70 00 02 72			•••••				
	Response	2024.08.01		Iliq. <stx>8n1 = 1<cr:< th=""><th></th><th>Ok Cance</th><th>· · · · · · · · ·</th><th>····</th><th></th><th></th><th></th></cr:<></stx>		Ok Cance	· · · · · · · · ·	····			
	Information	2024.08.01		Read packet:3				Contraction of the second second			
	Request	2024.08.01	0	1B 16 70 00 03 73				Advanced and			
	<			>				Advanced settir	iya		
۰ L					<u>"</u>						
	RS232				Ŧ				Stop operation	1	

4. In the Communication Log, the following messages will be apperaing "connection open... Readout the configuration... Read Packet 1... Read Packet 2... etc". (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. If you want to configure more settings beyond the basic **[Edit]** settings (above), press the **[Advanced Settings]** button (below) on the bottom side of the screen.

	WM-ETerm - WM-E2S (EG						-	_ ×
F		eration Settings Help		س (Ξ	d 🗹
Log off 💏	Sender:	Serial connection	Standard settings			Edit value		
>	Message:	Parameters were read out successfully!	GPRS is always ON:		Watchdog check IP address:	0.0.0	Meaning of LED 1:	G 🗸
Connection type			Mobile network	C ~	Meter port baud rate (for transparent mode and meter readout):	9 ~	Meaning of LED 2:	S ~
Connec			SIM PIN code:		Data format for meters:	8 ~	Meaning of LED 3:	E ~
ion <	0	<u>к</u>	APN Name:	net	RS485 mode:	E ~		
Communication		· · · · · · · · · · · · · · · · · · ·	APN Usemame:	x0000x	DCD mode: LastGasp Event push address:	lr ~		
>			establishment delav	3 🜲	Port for transparent (IEC) meter readout:	1(*		
AT interface			Imin]: Wait time until modem reset [hours]:	24	Port for downloading the config and firmware:	9(🜲		
AT			Modem daily restart at [HH:MM]	14:14				
			Ok Cano	e				
					Advanced settir	ngs		
	RS232		•					

 After pushing the bottom [Advanced Settings] button, the available parameter groups and their listed parameters are displayed – according to the current modem type.

Here you can select another group using the corresponding button.

9. After pressing **[Edit values]** button, the available groups depend on the currently used modem model and firmware.



New Series	WM-ETerm - WM-E2S (EG915N	l: 2G, 4G / LTE)				– 🗆 X
File	e Admin Tools Operati	on Settings Help				
•	e 💫 📄 🕯	% 🛃 🧕) .		
20	Parameter group: Al	MM (IEC)	•••••		~	Edit values
Log off	Edited groups: AN	MM (IEC)				
>	Parameter description			Parameter value		^
y pe	LastGASP lost SMS text notification					
out	LastGASP return SMS text notific					
hecti	Destination IP address or phone r					
Connection type	Event push SMS text notification			0		
	Event push SMS text					
2	AMM (IEC)					
Communication	IP Address:		Data push interval [sec]:		Event push address:	
Ĭ	Server port:	0	Data push cycle period:	Disable ~	Event push notification text:	
Ē				U Subic	Event push notification ignore	60
	Auto register:	Auto register	Data push host:		until [sec]:	60
>	Poll interval fast (not deployed) [sec]:	0	Data push Filename prefix:		Event push event notification type:	~
face	Poll interval slow (deployed) [sec]:	0	Data push timeout [msec]:		Event push power lost notification:	
AT interface	El client TCP keep alive [min]:	10	Data push max retries:	3	Event push power return	
	El client usemame:		Data push retry delay [sec]:	60	Hoursalon.	
	El client password:		Data push T1-T3 table mask:	~		
	El client authentication mode:		Data push IEC meter address:			
	Ok Cancel		Data push IEC readout speed [baud]:	2400 ~		
	RS232		•			

10. At the top of the settings, the available parameter groups and its listed

parameters can be seen. There you can choose any **Parameter** group.

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

AMM (IEC)	~
AMM (IEC)	
AMM/DLMS	
APN	
M2M	
Watchdog	
Mobile network	
Calendar	
Standard meter interface	
Transp./ NTA	
Secondary transparent	
RS485 meter interface	

11. 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 El client



- **AMM/DLMS** DLMS server settings
- **APN** APN zone settings (for the SIM card)
- **Calendar** Calendar settings and time zone (daylight) settings
- **Device Manager** for configuring the Device Manager[®] server connection for monitoring and maintaining the modems remotely
- M2M GPRS connection settings
- Mobile Network Cellular network settings of the internet module / SIM
- **Network protocols** in case of *TLS* firmware for *SNMP*, *NTP* settings
- RS485 meter interface –for RS485 meter connection settings do not use this group in case of E57C WM LTE modem type.
- Standard meter interface Date format, identifiers, LED operation settings
- **Transp./NTA** serial data transmitting settings (transparent mode, etc.)
- Watchdog GPRS watchdog- and modem restart settings
- Secondary transparent settings configure a second communication channel
- M-Bus M-Bus and channel, readout register settings only available for the WM-E3S MBUS modem
- P1 Customer Interface Customer interface settings (Load profile, meter data, service list, register values) available only for WM-E3S CI (Customer Interface) and WM-E3S CI R (CI + Relay) version modems.
- Ethernet Ethernet interface, available only for the WM-E3Q ETH (Ethernet version) and AM322 modem versions.
- 12. By pushing the **Parameters readout** icon you can repeat the whole readout, when it is necessary, or even if you want to test the settings.

13. To <u>edit the parameters</u>, press the **[Edit values]** button to the right from the **Parameter group**.

14. You will then see the parameter values listed, and you can modify them.



15. When you have modified the required parameters, press the **[OK]** button to the

settings.

NAL CONTRACTOR	WM-ETerm - WM-E2S (EG915N	√: 2G, 4G / LTE)				– 🗆 X
File	Admin Tools Operati	ion Settings Help				
	🗗 🚺 🛃	% 🛃 🧕) .		
20	Parameter group: A	MM (IEC)			~	Edit values
ltog off	Edited groups: Al	MM (IEC)				
>	Parameter description			Parameter value		^
ype	El client password					/
out	AMM (ElServer) IP address				/	·
Connection type	El client authentication mode					
5	AMM (ElServer) port			0		
-	El client TCP keep alive [min]			10		×
Ē	AMM (IEC)				× i	
icatio	IP Address:		Data push interval [sec]:		Event push address:	
Communication	Server port:	0	Data push cycle period:	Disable ~	Event push notification text:	
Ū	Auto register:	Auto register	Data push host:		Event push notification ignore until [sec]:	60 ≑
>	Poll interval fast (not deployed) [sec]:	0	Data push Filename prefix:		Event push event notification type:	~
AT interface	Poll interval slow (deployed) [sec]:	0	Data push timeout [msec]:		Event push power lost notification:	
Tint	El client TCP keep alive [min]:	10	Data push max retries:	3	Event push power return notification:	
	El client usemame:		Data push retry delay [sec]:	60		
	El client password		Data push T1-T3 table mask:	×		
	El client authentication mode:		Data push IEC meter address:			
	Ok Cancel		Data push IEC readout speed [baud]:	2400 ~		
	RS232		•			

Important! The settings will NOT be saved / sended automatically to the modem! To send/write parameters to the modem, push to "**Parameters write**"



- 16. 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.
- 17. A success message will then appear.

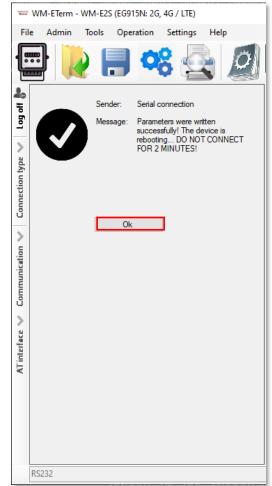
Press the **[OK]** button to continue.

Marcell .	*** WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) - C ×								
File	File Admin Tools Operation Settings Help								
	🔤 💽 🖪 🧐 🤤 🖉 🔄 🔤 💿					EQ. EZ			
Log off 🔭	Standard settings	Edit values							
>	GPRS is always ON:		Watchdog check IP address:	0.0.0.0	Meaning of LED 1:	GSM / GPRS status			
Connection type	Mobile network technology:	Current setting is not char \vee	Meter port baud rate (for transparent mode and meter readout):	9600 ~	Meaning of LED 2:	SIM status (wrong PIN fla $ \smallsetminus $			
Connec	SIM PIN code:		Data format for meters:	8N1 ~	Meaning of LED 3:	E-meter status			
>	APN Name:	net	RS485 mode:	Disable \vee					
Communication	APN Usemame:	00000000	DCD mode:	Inverted \vee					
Comm	APN Password:	00000000	LastGasp Event push address:						
>	PDP connection establishment delay [min]:	3	Port for transparent (IEC) meter readout:	1001					
AT interface	Wait time until modem reset [hours]:	24	Port for downloading the config and firmware:	9001					
I	Modem daily restart at [HH:MM]	14:14							
	Ok Cancel								
Advanced settings						¥			
F	R5232 •								

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** / **Save** menu 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 / Open** menu.
- 2. Browse the required configuration file (with .CFG extension) and press 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.

Sec. S	🐃 WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) — 🗆 🗙								
Fil	e Admin Tools Operation	Settings Help							
			LOG) .					
20	Parameter group: Vobile ne	etwork			4		Edit v	/alues	
Log off	Edited groups: AMM (IEC	2)							
>	Parameter description			Parameter value					^
ype	Provider selection-mode (roaming)			Automatic					
ion	Mobile network technology			255					
Connection type	SIM PIN	-							
C	Type of incoming calls when no incoming bearer is specified"			Data 3					
>	Delay of accepting call (rings) 3						- v		
AT interface 🗸 Communication 🗸	Cellular network SIM PIN code: Mobile network technology:	Current setting is not changed V Selection m		ection mode (roaming): mode Cellular network provider					
	Password for CSD call: Number of rings before accept a call (CSD): Type of call: CSD call accept from[HH:mm]	3 ↔	Automatic		×			- đ	i (†
	CSD call accept to[HH:mm] Answer incoming voice calls as data calls (CSD) if set to true. Ignore voice Ok Cancel	· · ·				_			



- 4. For the editing, choose a **Parameter Group** from the drop-down menu, the stored parameters will be listed automatically.
- 5. Click on the **[Edit values]** button and you can edit or change the stored modem parameters.
- 6. Press the **[OK]** button after the modification.
- 7. 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!

🖙 WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) — 🗆 🗙								
Fil	File Admin Tools Operation Settings Help							
🔁 🔰 🥵 🚉 🤵 🔂 💼 🗇 🕞 🔂								
20	Parameter group: 🔶 Mobile network	✓ Edit values						
Log off	Edited groups: AMM (IEC)							
>	Parameter description	Parameter value						
ype	Provider selection-mode (roaming)	Automatic						
ont	Mobile network technology	255						
hecti	SIM PIN							
Connection type	Type of incoming calls when no incoming bearer is specified"	Data						
	Delay of accepting call (rings)							
2	Cellular network							
Communication	SIM PIN code: Provider	Provider selection mode (roaming):						
Ĭ	Mobile network technology: Current setting is not changed V	on mode Cellular network provider						
Ē	Automat							
ŭ	Password for CSD call:							
≥ ace	Number of rings before accept a call (CSD):							
AT interface	Type of sall: Data 🗸							
×	CSD call accept from[HHmm]							
	CSD call accept to[HH:mm]							
	Answer incoming voice calls as data calls (CSD) if set to true Japone, voice							
	Ok Cancel							
	R\$232 -							



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. Press the **[Edit values]** button, and the relevant parameters and their values will be listed.

Service of the servic	🐃 WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) — 🗆 🗙						
Fil	File Admin Tools Operation Settings Help						
	🖶 💫 📄 🦇 💁 🔊 🕞 🔄 💿						
20	Parameter group:	APN		 Edit values 			
Log off	Edited groups:	AMM (IEC)					
>	Parameter description		Parameter value				
ype	APN		net				
ont	APN usemame		X000000X				
Connection type	APN password		X000000X				
C	Bands						
-	PDP connection establishme	ent delay [min]	3				
2	APN						
Communication	APN Name:	net					
nui	APN Usemame:	xxxxxxxxx					
L.	APN Password:						
>	Create APN usemame autor	matically: Create automatically					
erfac	Create APN password autor	matically: Create automatically					
AT interface	PDP connection estabilishm delay [min]:	nent (C\$8) 3					
	Ok Cance						
	RS232	•					

3. At the bottom side of the screen fill in the following fields, as **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.

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 estabilishment 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.

<u>Operation of PDP delay in case of v2.x firmware versions:</u>

- 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 3-times the 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. Press the **[OK]** button and continue with the next part.

3.2 Wireless settings

- 1. Choose the **M2M** group for cellular communication settings (2G, 3G, 4G etc).
- 2. Push **[Edit values]** button, and relevant parameters and values will be listed.
- 3. Encryption password via MD5 algorithm You can ask for encryption of the password via MD5 algorithm. Values: 0 = false, 1 = true
- 4. Fill in the following fields on the screen:

- **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)

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Fil	e Admin Tools Ope	eration S	ettings Help						
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20	Parameter group:	M2M						Edit values	
Log off	Edited groups:	AMM (IEC)							
>	Parameter description					Parameter value	p p p p p		^
ype	Port for transparent (IEC) met	ter readout				1001			
onti	Port for download config and					9001			
Connection type	Number of GPRS connection	n attempts un	til module reset			15			
Con	GPRS is always ON					Yes			
	Start of GPRS connection [YYYYMMDDWWHHmmSS]					- Contraction -			~
2	M2M				×				
Communication	Encryption password via MI algorithm:	D5				Port for transparent (IEC) meter readout:	1001		÷
unme	GPRS is always ON:					Port for downloading the config and firmware:	9001		÷
Соп	Connection timer:					AES-256 key for downloading the config and firmware:			
>	Start GPRS connection [HH	H:MM:SS]:				Use AES-256 CBC encryption:			
erface	Additional delay time [sec]:		0		*	Number of GPRS connection attempts until module reset:	15		÷
AT interface	Hold time of GPRS connect	tion [sec]:	0		-	Time between GPRS connection attempts [sec]:	300		
		and the second				Waiting time until next try [sec]:	0		÷
	Ok Cancel	1		•					•••••

- 5. In case of enabling 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!
- Additional delay time [sec] in case of using "push" to give some delay (in seconds) before build-up the connection.
- 7. Hold time of GPRS connection [sec] 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*".



Important! 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.

***Warning!** The two ports should be set to different port numbers.

- 10. Enable the **AES-256 CBC encryption** if you want to use and **AES-256 key for download config and firmware**.
- 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 presetend some refine settings to define as **Time between GPRS connection attempts [sec]** 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 three earlier position will be active the value *"300"*.
- 13. Waiting time until next try [sec] 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. Press 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.

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	🖻 📙 🧠)~~		
20	Parameter group: Mobile net	work			~	Edit values
tog off	Edited groups: AMM (IEC)					
>	Parameter description			Parameter value		^
y pe	Provider selection-mode (roaming)			Automatic		
ont	Mobile network technology			255		
hecti	SIM PIN				- A A A A A A A A A A A A A A A A A A A	
Connection type	Type of incoming calls when no incoming	bearer is specified"		Data	- And and a second s	
	Delay of accepting call (rings)			3	and the second se	×
2	Cellular network			N. C.		
catio	SIM PIN code:	••••	Provider selec	ction mode (roaming):		
Communication	Mobile network technology:	Current setting is not changed \sim	Selection m	ode	Cellular network provider	
E			Manual		V United Kingdom O2 (Telefonica)	- 23410 ~ 💼 🕀
0	Password for CSD call:		Manual / Aut	omatic	~	- 23410 ~ 💼 🕂 ~ 💼 🕂
jace 🗸	Number of rings before accept a call (CSD):	3				
AT interface	Type of call:	Data 🗸				
AT	CSD call accept from[HH:mm]					
	CSD call accept to[HH:mm]					
	Answer incoming voice calls as data calls (CSD) if set to true. Ignore voice					
	Ok Cancel					
	R\$232	•				

- 2. Press 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 algorhythm 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.

🐝 WM-ETerm -	WM-E2S (EG915N: 2G, 4G / LTE)
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<u>Options – according to the current cellular module type:</u>

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

Cellular band:	Current setting is not changed
	Current setting is not changed
	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
	CAT-M1 and NB-IoT

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

Warning! Here you can always found 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 / 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) it 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.
- CSD call accept from [HH:mm] here you can configure a scheduled time for the initialization of the CSD call. Format is "hours and minutes", e.g. 14 hours and 20 minutes lasts 14:20 value.
- CSD call answering until [HH:mm] here you can configure a scheduled time during which the CSD call will be active and when it will be disconnected. Format: hours:minutes, e.g. 14:20
- 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** or **delete** the selection mode in the list.
- 6. Press the **[OK]** button and continue with the next part.

3.4 Watchdog settings (monitoring the modem operation, 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.

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File	Admin Tools Ope	eration Se	ttings Help							
		00			¢)- 		Ē		
20	Parameter group:	Watchdog					~	Edit va	lues	
Log off	Edited groups:	AMM (IEC)								
>	Parameter description					Parameter value	and a second			^
ype	Seconds, GPRS connection of		stored after this time [sec])	- Andrew -			
ion	Timeout at GPRS login fail [mi	-				30 minute(s)	and the second se			
Connection type	Daily restart on a fix, parametri		I:MM]			14:14				
5	Daily restart time window [min] Wait time until modem reset [h					0 24 houris				_
5		ioursj				24 hour(s)				~
5	Watchdog					A more than a m				
iceti	Watchdog check IP address	s:	8.8.8.8]	Device Service Session (FOTA)				
Communication	Number of ping retries:		3		-	APN name for device services session:				
Con	Ping Wait Time Reply [msec	2]	15000		-	APN usemame for device services				
>	Ping wait time (for next cycle	e) [sec]:	60000		÷	APN password for device services session:				
g	Timeout at GPRS login fail [s	secl:	30		L.	Server address, filename and path:				- 1
AT interface			24		÷		0			—1
Ł	Wait time until modem reset				•	Retry count of FOTA process:				_
	Modem daily restart at [HH:N	MM]	1414			Status of the update process:				
	Daily restart time window [mi	in]:	þ		-	Cellular network access technology selection (LTE,3G,2G mode) for FOTA:	All available access technology	(default)		~
	GPRS connection will be clo restored after this time [sec]:	osed and	0		-	Reboot the device:				
	Ok Cancel									
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The following events can be set in the program regarding the operation of the watchdog:

- module restart in case of cellular module firmware shutdown
- network search restart in case of network outage
- cellular module restart after several unsuccessful attempts
- cellular 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:

- 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 [msec]** 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 in seconds) between ping cycles, time interval until the next ping sequence occuring (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 T**imeout at GPRS login fail [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:

- **1. Timeout at GPRS login fail [sec]** it is timeout when GPRS (PDP) login fail accours tolerance interval of PDP connection establishment error
- 2. 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).
- 3. Modem daily restart at [HHMM] to schedule a time for daily restart of the modem set an exact time it in HHMM time format. Or leave the field empty if you do not wish to restart every day. E.g. 14 hours and 20 minutes value 1420. (This will applied 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).
- 4. Daily restart time window [min]: 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! 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.



5. GPRS connection will be closed and restored after this time [sec]- 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).

FOTA (Firmware-Over -The-Air Update) settings (right side of the screen):

- 1. Device Service Session (FOTA) checkbox here you can enable the remote Firmware refresh (FOTA) service.
- Here you can fill APN name for device services session and APN username for device services session and the APN password for device services session fields.
- 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.

<u>*Syntax (ftp):</u>

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



<protocol>://<user>:<password>@<ip_address>/<directory> Example (ftp): <u>ftp://user:password@11.22.33.44/fw-upload/</u>

- **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 –immediate restart option is implemented only in case of some special firmware versions *ask our Sales!*
- **8.** Press the **[OK]** button and continue with the next part.

3.5 Calendar settings

- 1. Choose the **Calendar** group and press the **[Edit values]** button, and the relevant parameters and their values will be listed.
- 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.
- 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 shoudld have to push to the **[Set date]** button.

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20	Parameter group: Calendar		✓ Edit values	
Log off	Edited groups: AMM (IEC)			
>	Parameter description		Parameter value	
ype	Start daylight saving		March last sunday 02:00:00 GMT +60	
ont	End of daylight saving		October last sunday 03:00:00:00 GMT +120	
Connection type	Switching between daylight saving / normal time		Yes	
Con	Offset daylight saving time [min]		60 minute(s)	
>	Deviation of local time to GMT		60 minute(s)	
AT interface 🗙 Communication	Calendar Switch daylight saving time / normal time EU standard Standard time: October last sunday 03:00:00:00 GMT +120 Daylight saving time: March last sunday 02:00:00:00 GMT +60 Deviation of local time to GMT [min]: 60 Offset daylight saving time [min]: 60 Ok Cancel		tober	
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- 4. You can also use Deviation of local time to GMT [min] and the Offset daylight saving time [min] for time DST synchronisation regarding (in minutes) the needs and habits.
- 5. Press the **[OK]** button and continue with the next part.

3.6 Serial data transmission meter $\leftarrow \rightarrow$ modem settings (Transp. / NTA)

 Choose the Transp./NTA group and press the [Edit values] button, and the relevant parameters and their values will be listed.



2. 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.

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File	Admin Tools Operation	Settings Help						
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20	Parameter group: Transp./	NTA	~	Edit values				
ltog off	Edited groups: AMM (IEC)		and the second se				
>	Parameter description		Parameter value					
ype	Meter port baud rate (for transparent mod		9600					
- Lo	Data format fix 8N1 for meters, that fix on	8N1	8N1					
Connection type	Multi utility mode (DLMS active)		Transparent mode					
			and the second se					
2	Transparent / NTA							
Catio	Multi utility mode (DLMS active):	Transparent mode	and the second se	~				
Communication	Meter port baud rate (for transparent mode and meter readout):	38400	·	~				
ů	Data format for meters:	8N1		~				
	Transparent mode TLS enable:							
- Tac	Transparent mode certificate bank select:	0		▲				
AT interface	Transparent mode CA certificate bank select:	0		×				
	Transparent mode certificate verification:	Not		~				
	Transparent mode CRL usage:							
	Ok Cancel							
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Then the Meter port baud rate (for transparent mode and meter readout)*
 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 9 600 baud in case of **WM-E2S** / **WM-E2SL** Modems and 38 400 Baud for the **E57C WM LTE** Modem.

- Data format for meters 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 TLS enable option.



6. You can then insert the **Transparent mode certificate bank select** and the **Transparent CA certificate bank select** 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 in the **Tools / CA-certificate handle** or the **Tools / Certificate handle** menu.

- You can also configure the Transparent mode certificate verification mode (Possible values are: Not / Optional / Mandatory).
- 8. Press 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. Press 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 (ElServer) 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.
- Poll interval fast (not deployed) Value of Poll interval fast (not deployed) in seconds.
- Poll-interval slow (deployed) Value of Poll-interval slow (deployed) in seconds.

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File	e Admin Tools Operat	tion Settings Help						
ŀ		% 🛃 🧕)~~				
20	Parameter group:	AMM (IEC)			~	Edit values		
Log off	Edited groups: A	MM (IEC)				A MARKAN MARKA		
>	Parameter description			Parameter value		^		
ype	LastGASP lost SMS text notificat							
out	LastGASP return SMS text notifie							
Connection type	Destination IP address or phone			-	- And a start -			
5	Event push SMS text notification	1						
	Event push SMS text			· · · · · · · · · · · · · · · · · · ·				
2	AMM (IEC)							
Catio	IP Address:		Data push interval [sec]:		Event push address:	+36201234567		
U	Server port:	0	Data push cycle period:	1 minute 🗸	Event push notification text:	Input value change		
Communication	Auto register:	Auto register	Data push host:		Event push notification ignore until [sec]:	60		
>	Poll interval fast (not deployed) [sec]:	30	Data push Filename prefix:		Event push event notification type:	Last GASP, Input changes 🗸		
AT interface	Poll interval slow (deployed) [sec]:	30	Data push timeout [msec]:	15000	Event push power lost notification:	Power lost		
ATin	El client TCP keep alive [min]:	10	Data push max retries:	3	Event push power return notification:	Power return		
	El client usemame:		Data push retry delay [sec]:	60				
	El client password		Data push T1-T3 table mask:	~				
	El client authentication mode:		Data push IEC meter address:					
	Ok Cancel		Data push IEC readout speed [baud]:	2400 ~				
	RS232		•					

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

<u>Data push settings (ftp):</u>

In the next column on the right you will find the **Data Push** Parameters setting – Configure these settings if you want to use the FTP/Data Push service on the modem.



- Data push interval [sec] 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.
- 2. Data push cycle period Not available on WM-E2S / WM-E2SL modems.
- 3. Fill the **Data Push Host** field for defining the SMS phone number or / FTP server or TCP/UDP server's IP address.

<u>Syntax (ftp):</u>

FTP OTA parameters (FTP host, user/pass, path, filename) <protocol>://<user>:<password>@<ip_address>/<directory> Example (ftp): <u>ftp://user:password@11.22.33.44/fw-upload/</u>

Syntax (TCP/UDP):

<protokoll>://<ip_address>:<port_number> Example (TCP): tcp://11.22.33.44:8088 Example (UDP): udp://11.22.33.44:8088

<u>Syntax (SMS):</u>

<protokoll>://+<country_code><network_operator_code><call_number> Example (SMS): sms://+43071234567 or similar

- Data push Filename prefix Not available on WM-E2S / WM-E2SL / E57C WM LTE modems.
- Add the Data push timeout [msec] Interval of data / FTP push connection wait - it waits until the declared interval whether it was successful or not – value in milliseconds.
- 6. **Data push max retries** means the number of retries of data push operation in case of connection failure.



- 7. **Data push retry delay [sec]** means an applicable delay value, after the data push until the next periodic data push will be initiated.
- Data push TI-T3 table mask tariff table readout selectable options.
 Optional to use.
- 9. Data push IEC meter address source meter address.
- 10. Data push IEC readout speed [baud] source meter communication / readout speed rate in baud.

Event push settings (LastGASP):

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

- 1. At right side of the screen, you will found the **Event push** settings.
- The Event push feature is available only with the metering modem, which contains a supercapacitor! e.g for the Modem type WM-EIS / WM-EISI / WM-EISL / WM-E2S / WM-E2SL / WM-E3S / WM-E8S.

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

- 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.
- Event push notification text SMS alarm message text not available on WM-E2S / WM-E2SL modems.



- **3. Event push notification ignore until [sec]** SMS alarm message text Not available on WM-E2S / WM-E2SL modems.
- **4. Event push notification type** SMS notification type options to select. Multiply selection:

Last GASP, Input changes

Last GASP

Input changes
C86X
Debug

*Last GASP notification - quite useful for reporting an ^{Debug} occurring and unexpected power outage event. In case of *power outage* event, the modem's supercapacitor allows to futher operate the lodem 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!*

Input changes – Input signal/value changes are notified via SMS messages - Not available on WM-E2S / WM-E2SL / E57C WM LTE modems.

On the modem version where 2-inputs are available, it is possible to signaling the input status changes of the inputs as follows:

- NO Normal Open to detect relay switching
- NC Normal Closed to detect relay switching
- Tamper detection (detects the opening of the modem cover)

	APPLICATION	
		10k SWITCH/RELAY NO (Normal Open)
IN1- IN1+ IN2-	2 WIRE CABLE (BLACK)	
CONNECTOR to PCB	2 WIRE CABLE (WHITE)	IN2 SWITCH/RELAY NO (Normal Open)



The modem allows you to monitor and report certain security events (tamper event, relay switching / tariff switching). Therefore, the device is able to generate and send SMS notifications for input changes according to the given settings.

Important! Note, that 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

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

- *Event push power lost notification you can define a power outage alarm/event message.
- **6. *Event push power return notification** you can define a power outage release/return event message.

*Important! Check LastGasp, Input changes in next chapters for proper settings.

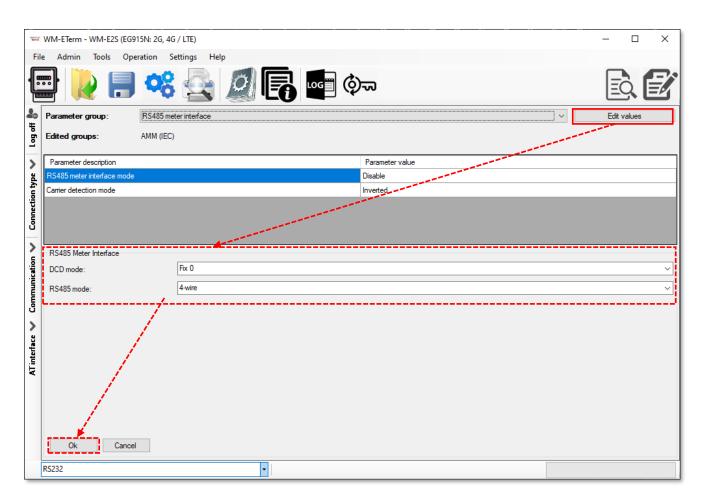
The parameter modifications will not be overriden automatically on the modem side. Therefore, press the **[OK]** button and then you have to press the

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. Press 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:



- *Fix 0* (logical '0' value at meter's side, where it can be configured as online or offline)
- *Fix 1* (logical '1' value at meter's side, where it can be configured as online or offline)
- **Standard** (normal operation without changing the transparent communication)
 - 1: online
 - 0: offline
- *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 be 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. The parameter modifications will not be overriden automatically on the modem side. Therefore, press the **[OK]** button and then you have to press

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 AMM/DLMS settings*

*Usable in case of **WM-E3S** type modem or **AM322** type modem only.

The **AMM/DLMS** parameter group is available here by compatibility reasons with the Elster[®] AM100 modems.

At left, you can see the DLMS connection settings, at right you will find the DLMS connection status. The listed DLMS parameters can be used only with a DLMS / COSEM compatible firmware of the modem.

No.co	WM-ETerm - WM-E3S (EG9	15N: 2G, 4G / LTE)					- 0	×
File	e Admin Tools Ope	eration Settings Help						
ŀ	d 🔰 🛃	° % 🚉 🖉	2 6 🔤 🕸	ন্স				
20	Parameter group:	AMM/DLMS				~	Edit values	
lt og off	Edited groups:	AMM (IEC)						
>	Parameter description			Parameter value	and the second sec			
	DLMS password							
 Connection type 								
	AMM /DLMS			-1				
Communication	DLMS host address:		184.10.30.112	DLMS Server settings Server logical	0	Server	NONE	
'III	DLMS server port:		4343	Server physical	0	Server Password:	NONE	— <u> </u>
Ē	DLMS password:		•••••	Server Client	0			
				DLMS Client settings		Ch		
>	Max. time without DLMS co	mmunication [sec]:	180	Client physical	1 + 1D +	Client Authentication: Client Password:	NONE 33333333	~
-fac	Start DLMS session during t	he boot process:	DLMS start	Client address:		Client W-object list:	1.1.97.97.1.255	5:2,1,1
AT interface	List of possible DLMS/COS	EM authentication methods:	1,5	DLMS Push settings	1 1.5.11		1	
×	Disconnect relay control:		4	Push logical address:	0	Push Authentication:	NONE	~
	1 · · · · ·	1-0:1.8.0*255 and 1-0:2.8.0*255		Push physical	0	Push Password:		
	in the profiles "Daily E billing	values" (1-0:99.2.0*255) and	Registers are not visible	Push Client address:	0	Push base logical	0.7.25.9.0.255	
	"Monthly billing values" (0-0 parameter:	:98.1.0*255) is controlled by this		Push IP address:		Push Port:	0	-
	Ok Cance	4						
	RS232		•					

<u>At left side of the screen:</u>

• **DLMS host address** - You can define the DLMS AMM server's IP Address. This is mainly used for compatibility with the Elster[®] AM100 modems.



- **DLMS server port** You can define the port of DLMS AMM server.
- DLMS password define password / DLMS encryption key (AES) for the connection.
- Max. time in without DLMS communication (timeout) You can define the max. time interval without DLMS communication (timeout in seconds).
- Start DLMS session during the boot process You can enable the start DLMS session during the boot process.
- List of possible DLMS/COSEM authentication mechanisms not used.
- **Disconnect relay control** not implemented yet.
- The visibility of the registers ... of the profile You can define the DLMS Load Profile registers to be visible or not.
 - (1-0:1.8.0*255 and 1-0:2.8.0*255) in the profiles Daily E-billing values
 - (1-0:99.2.0*255) and Monthly billing values
 - (0-0:98.1.0*255) is controlled by this parameter
- At right side of the screen you can see the parameters and status of the DLMS server ←→ client connection for the DLMS server / DLMS Client / DLMS
 push settings as:
 - Logical address
 - Physical address
 - Client address
 - Authentication mode
 - Password
 - W. object list / Best logical name available for DLMS push only
 - IP address available for DLMS push only
 - **Port** available for DLMS push only



Important! Ask your sales about the appropriate firmware version.

Nevel Serve	WM-ETerm - WM-E3S (EG9	15N: 2G, 4G / LTE)					- 0	×
File	e Admin Tools Ope	eration Settings Help						
		° % 🔄 🖉	2 6 🔤 🕸	5			Ē	Ľ
20	Parameter group:	AMM/DLMS				~	Edit values	
ltog off	Edited groups:	AMM (IEC)						
>	Parameter description			Parameter value				
	DLMS password							
 Connection type 								
	AMM /DLMS							
đi	DLMS host address:		184.10.30.112	DLMS Server settings Server logical	0	Server	NONE	~
Communication	DLMS server port:		4343		0 🗘	Server Password:		
Ē	DLMS password:		•••••	Server Client	0			
				DLMS Client settings Client logical	1	Client Authentication:	highling	
>	Max. time without DLMS co	mmunication [sec]:	180	Client physical	1 ÷ 1D ÷	Client Password:	NONE 333333333	
erfac	Start DLMS session during t	the boot process:	DLMS start	Client address:	1	Client W-object list:	1.1.97.97.1.2	255:2,1.1.
AT interface	List of possible DLMS/COS	EM authentication methods:	1,5	DLMS Push settings				
<	Disconnect relay control:		4	Push logical address:		Push Authentication:	NONE	
		1-0:1.8.0*255 and 1-0:2.8.0*255		Push physical	0	Push Password:		
	in the profiles "Daily E billing	values" (1-0:99.2.0*255) and):98.1.0*255) is controlled by this	Registers are not visible	Push Client address:	0	Push base logical	0.7.25.9.0.25	55
	parameter:	the control co	-	Push IP address:		Push Port:	0	ŧ
	Ok Cance	el						
	RS232		•					

The parameter modifications will not be overriden automatically on the modem side. Therefore, press the **[OK]** button and then you have to press the

Parameters write 🖾 icon to send the parameters to the meter.

3.10 M-Bus settings*

*Note, that the **M-Bus** parameter group is only available for the **WM-E3S MBUS**[®] modem for compatibility reasons with the M-Bus protocol.

- 1. To configure it, choose the **M-Bus** parameter group.
- 2. Push the **[Edit values]** button, while the related parameters and their values will be listed.



- 3. Edit the required M-Bus settings and fields.
- Configure the Readout time [sec] field (meter readout) and the Upload time [min * monthly] regarding the data uploading requirements.
- 5. You can also define the **Inactivity timeout** (value in seconds).

New Service	WM-ETerm - WM-E3S (LE910-EUG: 2G	6, 3G, 4G / LTE)						- 🗆 X	
File	e Admin Tools Operation S	Settings Help							
ŀ	🖻 [🦓 📄 👒			g	بە(
20	Parameter group: M-Bus						~	Edit values	
lt og off	Edited groups: AMM (IEC,)						and the second se	
>	Parameter description				Parameter value		and the second se	^	
be	Maximum of M-Bus devices				4				
t u	M-Bus wired install mode duration				10 minute(s)				
lecti	DIF/VIF identifier M-Bus device 1				0x4C13				
Connection type	DLMS scaling factors for M-Bus channel	1		-3, 13					
	Readout period of M-Bus meter 1 18 second(s)							~	
>	M-Bus								
Communication	Firmware version of the M-Bus device:				Readout time [sec]:	600 🗡 🚖	Activate address:	99999993	
nic	Protocol version of M-Bus device:		Upload time [min, + monthly*]:	300 🜲	Inactivity timeout	600			
Ē	Maximum number of M-Bus	Installation tim	neout [min]: 25	÷	mbus.filename	MD4	[sec]:		
ů	Mumber of monthly objects: 1	↓ Inactivity time							
>				•	1				
AT interface	Act Media Manufacturer		OBIS reg Rd-interva	I LP object	M-Bus address	Required field number(s)	RFID(mRID)	Meter name	
inte			0	~					
A			0	~					
			0	~					
			0	~					
					·			k	
	Ok Cancel								
	RS232		•						

- 6. Set the **File encryption type** to MD4.
- 7. Add the **Activate address** Mbus address.
- 8. Then define the *M-Bus address* of each meter, one by one.
- 9. Here add the number of the **Required field number(s)** for every listed device.
- 10. Add the *RFID* (*mRID*) identifier according to the right syntax.



- 11. Add the *Meter name* info for each entry.
- 12. Then press to the **[OK]** button and the **Parameters write** icon to send the settings to the modem.

Important! Ask your sales about the appropriate firmware version.

3.11 P1 Customer Interface settings

All parameters of the **P1 Customer Interface** group are only available for the **WM-E3S CI**[®] type of modem of electricity meters which are supporting the P1 Customer Interface readout feature.

- 1. To configure it, choose the **P1 Customer Interface** settings parameter group.
- 2. Push the **[Edit values]** button, while the related parameters and their values will be listed.

Serve Serve	WM-ETerm - WM-E3S (LE910-EUG: 2G, 3G, 4G / LTE)								
Fil	e Admin Tools Operation	n Settings Help							
	🖹 🚺 🚺	* 🗟 🖉		OG	৾৾৾৾৾৵৵			Ξ	
20	Parameter group: P10	Customer Interface					~	Edit	values
tog off	Edited groups: AMM	M (IEC)							
>	Parameter description				Parameter value		and the second sec		^
/pe	P1 active				Yes				
d, no	Output mode of customer interface				Default		· · · · · · · · · · · · · · · · · · ·		
Connection type	Interval time data output				10 second(s)				
onr	Sum of not priorised register per rea	ding	10	10					
_	Logout delay [sec] 1000 ms								~
Communication 🗸	General settings ☑ P1 active	P1 mapping	Readi	ing electricity delivered to client (Tariff 1) in 0.0	01 kWb 🗸	Add	Del	ete last	
I	Interval time data output	10 🚖 sec					7.00	00	
Ē	Logout time	1000 🚖 msec	Source	_	Description	OBIS E-meter	OBIS P1-out	Unit	Priority
	Sum of added registers	10 🜲	display list		Equipment identifier	0.0.0	0-0:96.1.1		
>	P1 output:	Default 🗸	display list		Meter Reading electricity delivered to client (1.8.1	1-0:1.8.1	kWh	
AT interface	IEC address for P1 interface:		display list		Meter Reading electricity delivered to client (1-0:1.8.2	kWh	
Linte	Readout from display list (regis	sters)	display list		Meter Reading electricity delivered by client	2.8.1	1-0:2.8.1	kWh	
×	Readout from service list (regi		display list		Meter Reading electricity delivered by client	2.8.2	1-0:2.8.2	kWh	
	Output of load profile data on	customer interface	display list		Actual electricity power delivered (+P) in 1	1.7.0	1-0:1.7.0	kW	
	Delay before send of load profile	data 80 🚔 msec	display list		Actual electricity power received (-P) in 1 W	2.7.0	1-0:2.7.0	kW	
	Sum of measuring period entries p	per Load		~					
	Ok Cancel								



- 3. Checkbox **P1 active** here you can enable the P1 Customer interface to the modem.
- 4. Interval time data output (in seconds).
- 5. **Logout time** Optimization of customer interface logout time (hold or keep alive the connection, in milliseconds) for register reading customer interface.
- 6. Sum of added registers number of registers.
- 7. Ploutput values: 0=Default, 1=Output to DSMR 3.0, 2=Output to DSMR 5.0
- 8. IEC address for P1 interface in IP address format.
- Checkbox Readout from display list (registers) allow display list registers to be read out.
- Checkbox Readout from service list (registers) allow service registers to be read out.
- Checkbox Output of load profile data on customer interface to enable the output on Cl.
- 12. **P1 mapping** table to *add*, *modify* or *delete* P1 Customer Interface device/service entries.
- Then opress to the [OK] button and the Parameters write icon to send the settings to the modem.

3.12 Secondary transparent settings

This feature you have to use the WM-E3S firmware.

1. Choose the **Secondary Transparent** parameter group. Here you can configure a secondary channel for communication.



2. Push **[Edit values]** button, and the relevant parameters and their values will be listed.

No.co	₩ WM-ETerm - WM-E1S (EG915N: 2G, 4G / LTE) - □ ×							
File	File Admin Tools Operation Settings Help							
	e 🚺 🔒	00	🧟 🧕 💽 🔤 🗇					
20	Parameter group:	Secondary	y transparent	✓ Edit values				
Log off	Edited groups:	AMM (IEC)						
>	Parameter description		Parameter value					
jype	Secondary transparent port		9002					
tion1	Secondary transparent baud	rate	2418					
Connection type								
>	Secondary Transparent		A					
atio	Secondary transparent baud	d rate:	2400	- <mark>8E1</mark>				
Communication	Secondary transparent port:		9002					
Com	Start transmission (TX) delay	r:	300					
AT interface 🗸	Ok Cance	4	•					

- 3. The **Secondary Transparent baud rate** is 2400 bps by default we recommend to use this standard speed rate but, if you want, you can use different settings.
- 4. The data flow can be also set to at **7E1**, **8E1** or **8N1**.
- 5. The default value of the **Secondary Transparent port** number is 9002. You can use a different port, but please note that the port nr. 9000 is used by the modem's transparent channel, and the port nr. 9001 is used for the configuration.
- 6. The **Start transmission (TX) delay** is a read only field, whereas its current factory default value can be seen.



7. Then push to the **[OK]** button and the **Parameters write** icon to send the settings to the modem.

3.13 SNMP parameter settings

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

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.

SNMP Parameter Group	Name	Read Only (RO)/ Read Write (RW)	OID	Name in mib file	Remarks
	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	
Device	imsi	RO	1.3.6.1.4.1.52174.1.1. 6	wmeTEimsi	
info					use the output form of the LTE Module, list of supported LTE bands, separated by commas: B <number>[(frequency)]. The definition of the</number>
	Iteband	RO	1.3.6.1.4.1.52174.1.1.7	wmeTElteband	frequency is optional
	reboot	RW	1.3.6.1.4.1.52174.1.1. 8	wmeTEreboot	cause instant reset
System Informatio n	keepAliveDuratio n	RW	1.3.6.1.4.1.52174.1.2.1	wmeTEkeepAliveDurati on	seconds, but minute steps, Reading values will be 0 or mulipies of 60. written values will be rounded down. Except less than 60 will be 1, but 0 will be 0

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



	autoreboot battVoltage	RW RO	1.3.6.1.4.1.52174.1.2. 2 1.3.6.1.4.1.52174.1.2. 3 1.3.6.1.4.1.52174.1.2.	wmeTEautoreboot wmeTEbattVoltage	seconds, but hour steps. Reading values will be 0 or multiplies of 3600. written values will be rounded down. Except less than 3600 will be 1, but 0 will be 0. in mV 0-100 (in percentage)
	battCapacity	RO	4	wmeTEbattCapacity	e.g. 50 = 50%
	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	wmeTEltenetworkstatu s	0 not LTE network 1 LTE network registartion
	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.
Network	rsrp0	RO	1.3.6.1.4.1.52174.1.3. 5	wmeTErsrp0	value 255 means Not Available.
Informatio	rsrq	RO	1.3.6.1.4.1.52174.1.3. 6	wmeTErsrq	value 255 means Not Available.
	rssi	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	1.3.6.1.4.1.52174.1.3.1 0	wmeTEpCID	
	мсс	RO	1.3.6.1.4.1.52174.1.3.1 1	wmeTEMCC	
	MNC	RO	1.3.6.1.4.1.52174.1.3.1 2	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.
- 4. At the right side you can setup the **NTP server** (network time server) settings.

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Sec.	WM-ETerm - WM-E2S (EG915N: 2G,	4G / LTE)		- 🗆 X					
File	File Admin Tools Operation Settings Help								
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20	Parameter group: Network	protocols		✓ Edjt values					
Log off	Edited groups: AMM (IE	C)		and the second se					
>	Parameter description		Parameter value						
ype	NTP server IP address			and the second s					
Connection type	NTP server port		0	F					
necti	NTP server synchronization interval [se	-	0 second(s)						
Ū	NTP server synchronization timeout [se	•	0 second(s)						
	NTP Synchronization Time Zone [UTC +12/-12h]								
2	Network protocols								
Catio	SNMP trap if not receiving DC power:		SNMP private algorithm:	No private algorithm 🗸 🗸					
Communication	SNMP usemame:								
E	SNMP authentication key:		NTP server IP address:						
> -	SNMP private key:		NTP server port:	0					
stac	SNMP port in:	161	NTP server synchronization interval [sec]:	10					
AT interface	SNMP manager IP:		NTP server synchronization timeout [sec]:	10					
	SNMP manager port:	0	1	0					
	SNMP version:	<u>V3</u> ~							
	SNMP authentication algorithm:	No authentication algorithm							
	Ok Cancel								
	RS232	•							

5. Press the **[OK]** button to save the values and push to the **Parameters write**

😰 icon to send the settings to the modem.

3.14 Standard meter interface settings

- 1. 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*).
 *YY= Years, MM=Months, DD=Days.
- Tarrif Mode Selection Not available for WM-E2S / WM-E2SL / E57C WM LTE modems.
- 4. **Configuration port settings (Baudrate)** Configuration interface speed rate and operation mode **Available only on* **WM-E2SL TNB** modem type.

No. of Control of Cont	WM-ETerm - WM-E2S (EG915N	N: 2G, 4G / LTE)		- 🗆 X		
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20	Parameter group: St	tandard meter interface		✓ Edit values		
Log off	Edited groups: AN	MM (IEC)				
>	Parameter description		Parameter value	^		
ype	Meaning of LED 1		GSM / GPRS status			
on th	Meaning of LED 2		SIM status (wrong PIN flashing slow or without SIM)			
Connection type	Meaning of LED 3		E-meter status			
- OI	Date format for readout		YYMMDD			
	Firmware version		5.3.24	~		
>	Standard Meter Interface					
Communication	Date format for readout:	YYMMDD	Meaning of LED 1: GSM / GPRS	status 🗸 🗸		
	Tartif Mode Selection	None	Meaning of LED 2: SIM status (w	rong PIN flashing slow or without SIM) \checkmark		
Com	Configuration Port Setting (Baud	drate) 9600 ~	Meaning of LED 3: E-meter status	~		
>	L					
AT interface	Ok 🔺 Cancel					
	RS232	•				

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** / **WM-I** modems only 3 LEDs are available (LED1..LED3).

- In case of **WM-EIS / WM-E3S / AM322** modems there are 6 LEDs available (LED1..LED6).

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



The Device Manager[®] is an optional remote management software (order option) which can be used to maintain and to monitore 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.

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

Sec.	🐃 WM-ETerm - WM-E2S (EG915N: 2G, 4G / LTE) — 🗆 🗙							
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20	Parameter group: De	Device Manager V	Edit values					
Log off	Edited groups: AM	MM (IEC)						
>	Parameter description	Parameter value						
type	Device Manager server address							
Connection type	Device Manager server port Device Manager push enable	0 No defendence						
Dann	Device manager push interval	0						
ů								
AT interface 🗸 Communication 🗸	Device Manager Device Manager TLS enable: Device Manager push enable: Device Manager server IP addres Device Manager server port: Device Manager certificate bank select: Device Manager CA certificate bank select: Device Manager certificate verific Device Manager CA certificate verific Device Manager CA certificate verific Device Manager CRL usage: Ok Cancel	ress: 0 (sec): 60 hk 0 bank 0 						

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.



- 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 [sec]** is used to define the status message sending cycle (in seconds).

Important! When you have set all this, the Device Manager 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 / CA certificate handle** menu or **Tools / Certificate** handle menu.)

- 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.
- 9. Save your settings by pushing the **[OK]** button. You have to push to the **Parameter write** icon to send it to the modem.



3.16 Ethernet interface settings

Note that this option can be used only for the *WM-E3Q ETH*[®] modem.

1. Choose the **Parameter readout** icon, and select the **Ethernet** parameter group, Push then the **Edit Values** button.

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20	Parameter group: Etheme	et		✓ Edit values
Log off	Edited groups:			and the second sec
>	Parameter description		Parameter value	and a second
ype	DHCP enable		Yes	
on t	Fix IP address		0.0.0.0	
lecti	Subnet mask		0.0.0.0	
Connection type	Gateway address		0.0.0	
>	Ethemet			
Communication	DHCP enable:			
unic	Fix IP address:	10.80.140.13	a second	
E				
ŭ	Subnet mask:	255.255.255		
>	Gateway address:	10.80.140.251		
face			1	
AT interface	Ok Cancel	•		Version 1.3.55

- 2. Checkbox **DHCP enable** You can enable the DHCP feature here (then the device will getting the Ethernet interface IP address from the network).
- 3. Fix IP address IP address in case if the DHCP option is disabled.

4. Subnet mask

5. Gateway address

6. Save your settings by pushing the **[OK]** button. You have to push then the



Parameter write icon to send it to the modem.

3.17 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 lower firmware version than v5.1.30, update it to the latest!



- 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.



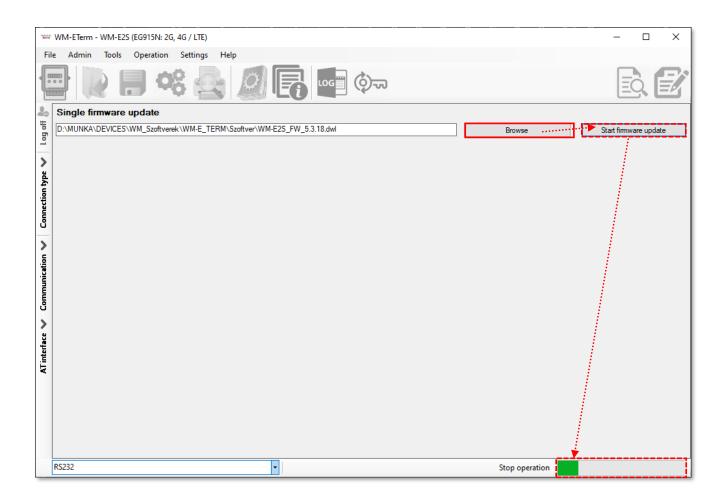
Chapter 4. Firmware updates

4.1 Single firmware update (IEC to IEC type)

1. Choose the **Tools / Single Firmware update** menu.

2. Press then the **[Browse]** button to select the .DWL extension firmware file.

3. Press 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 Firmware 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 Single firmware update (from IEC to DLMS)

1. Choose Tools / Single Firmware update from IEC to DLMS menu.

2. Press the **[Browse]** button to select the .DWL extension firmware file at the **IEC intermediate firmware** field.

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ection		Start firmware update					
Conni	Install steps						
>	Read firmware version:	N/A					
tion	Send intermediate IEC firmware:	N/A					
nnica	Waiting for restart:	N/A					
Communication	Read intermediate firmware version:	N/A					
>	Sending DLMS firmware:	N/A					
	Waiting for restart:	N/A					
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3. Select the **DLMS firmware file** by the **[Browse]** button.



4. Press the **[Start firmware update]** buttom to perform the singular firmware upload to change the IEC firmware to a DLMS compatible one.

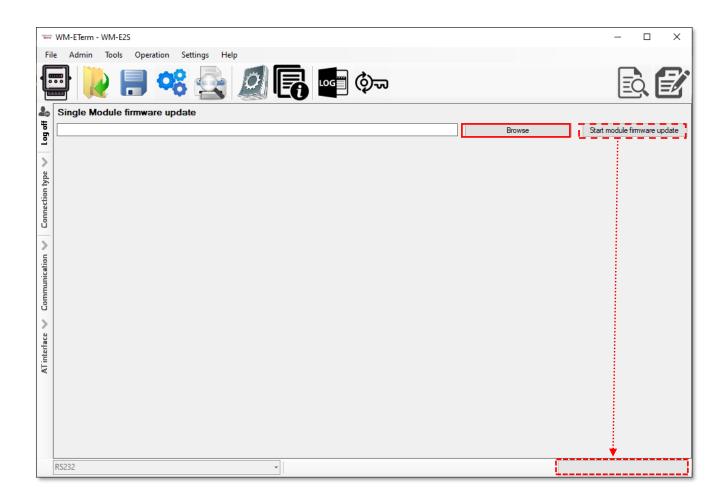
5. The progress of upload will be shown at the right-bottom progress indicator bar.

6. At the end of the refresh process, the modem will be restarted and it will be using the updated DLMS firmware.

4.3 Single Module firmware update

The cellular modem firmware update can be initiated here.

1. Choose the Tools / Single Cellular Module firmware Update menu.





2. Press the **[Browse]** button to select the .BIN extension of the cellular modem manufacturer firmware*. **It is provided by the related module manufacturer.*

3. Press to the **[Start module firmware update]** button to begin the singular modem firmware upload process. The update will be valid for the current modem.

Attention! Please note, that the Telit[®] firmware update will only be available once the fw upload process has been finished! It takes about 4-5 minutes.

4. The progress bar (at bottom) will show the current status of the upload/refresh process.

5. At the end of the refresh process, the modem will restart and will use the updated Telit[®] firmware version.

4.4 Single bootloader update

- 1. There is an option for bootloader update (.DWL extension file).
- 2. Choose the **Tools / Single bootloader update** menu.
- 3. Press then the **[Browse]** button to select the .DWL extension bootloaderfile. *Important!* Ask your sales for the appropriate update file before updating.
- 4. Press the **[Start firmware update]** button for performing the singular bootloaderupload.
- 5. The progress of upload will be shown at the right-bottom progress indicator bar. This can take 1-2 minutes.
- 6. The bootloader upload progress can be also checked in the left **Communication** tab.



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ATin			
	RS232 •	Stop operation	

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

4.5 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 found a few menus, where you can upload each certification file and you can set up them for the operation of the modem.



4.6 CA certificate upload

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 menu.
- 2. Press then the **[Browse]** button to select the CA certification file (.PEM or .CERT extension file).
- 3. Press then the **[CA certificate upload]** button to begin the certification file upload. The modem will then use the TLS encryption effectively during the communication.

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📲 ilo Eo 1	CA certificate upload	
>	D:\MUNKA\DEVICES\WM_Szoftverek\WM-E_TERM\Szoftver\WM_ETerm_v1_3_80\Zert.pem Browse Start CA certificate	Erase CA certificate
Connection type	CA certificate readout	
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4. You can **[Readout CA certificate]** from the device with its button and check the uploaded file.

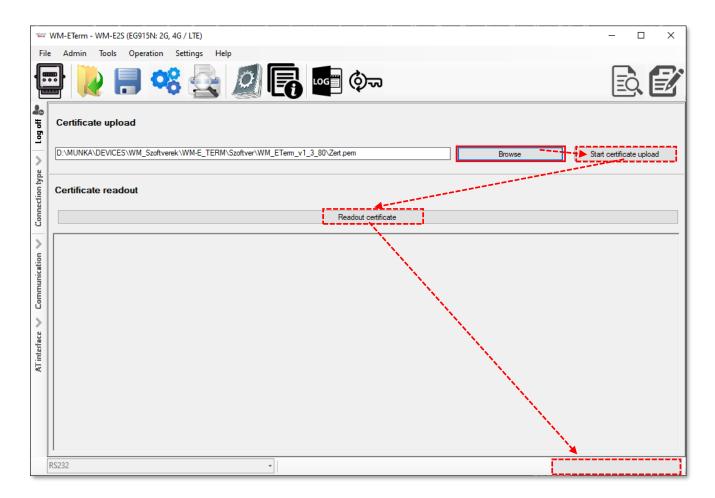


Important! This feature will be only effective, if you use TLS- compatible firmware version on the modem! Please, ask your sales product manager about the useful and appropriate firmware version before configuring this feature or updating the current firmware of the device.

4.7 TLS certificate upload

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

- 1. Choose the Tools / Certificate handle menu.
- 2. Press then the **Browse** button to select the certification file (.PEM or .CERT extension file).



3. Press 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. Readout certificate from the device is possible with the **[Readout certificate]** button to check the uploaded 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.

4.8 CRL upload

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** menu.
- 2. Press then the **[Browse]** button to select the revocation file (.CRL).
- 3. Press the **[Start CRL upload]** button to begin the certification file upload.
- 4. The modem will then use the TLS encryption effectively during its communication.
- 5. You can also **[Readout CRL]** (certification revoke list) from the device with this button and check the uploaded revoke file.



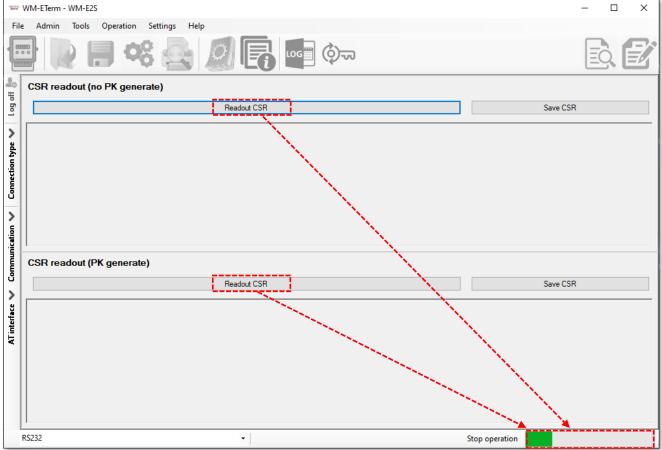
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l og off 🐉	CRL upload
>	D:\MUNKA\DEVICES\WM_Szoftverek\WM-E_TERM\Szoftver\WM_ETerm_v1_3_80\CRL.orl Browse Start CRL upload
Connection type	CRL readout
Con	Readout CRL
AT interface 🗙 Communication 🗸	
	S232 Stop operation

4.9 CSR upload

Here you can check the CSR file (Certificate Signing Request) of the PKI certification. Therefore here you can handle the CSR contents of the used certifications.

- 1. Choose the **Tools / CSR handle** menu.
- The CSR read (no PK generate) can be read and checked with the [Read
 CSR] button, which will show the request file content of the generated key.
- 3. The **CSR read (PK generate)** can be read and checked with the **[Read CSR]** button, which will show the request file contents of the Private Key generated.





4.10 Status readout

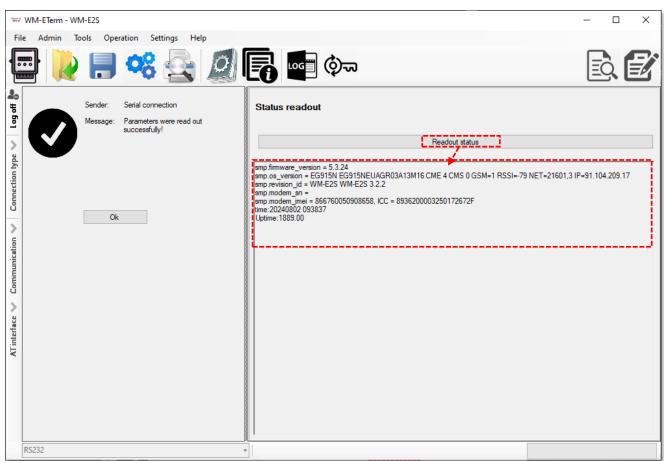
In the Tools / Status readout menu you can get current status of the modem.

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 information will be listed.

This is useful for checking the modem status and the configuration settings (as IP address, SIM / APN, etc.).

1. Press the **[Read status]** button to read the current status of the modem.





4.11 AES key import

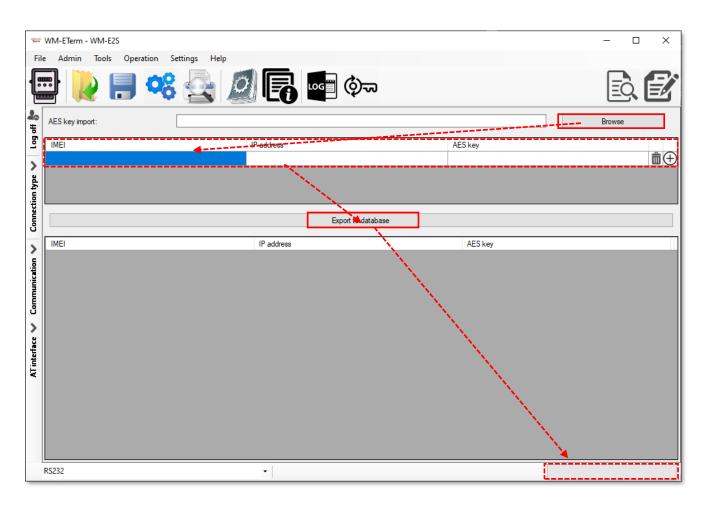
Here you can define a list of devices, which will be using AES-256 encrypted communication during their configuration and firmware update process. The defined AES keys will be used for the listed modems.

- 1. Choose the **Tools / AES key import** menu.
- 2. Press 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. Press 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!



4.12 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 menu.
- 2. Press 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. Press the **[Import to WM-E Term]** button for importing the connection profiles.

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Chapter 5. Other features

5.1 User Management

1. Choose the Admin / Manage users menu.

Here you can **Add** a new user or **Modify**, **Delete** an existing one.

2. Press the **[Add new user profile]** button for creating a new user account.



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Add new user profile Usemame:		
Admin Password: Verify password: Verify password:	Show	
Verify password:	Show	
Value Role: Admin Register Cancel		
RS232		

Add a Username for the new profile and define a Password* for the account.
 Then fill the password again to the Verify password* field.

*Note, that you can use the **Show** checkbox option to check the filled password.

- 4. Choose a Role for the user profile: **Admin / Installer / User**.
- 5. **[Save]** it. The new account will be available from the nex log in attempt.
- 6. To change the currently used / existing password of a profile, press the Edit (pencil) icon and fill the new Password, then [Save] it. Note, that the new password will be valid from the next WM-E Term starting 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 **Operation / Log view** menu item).

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Туре	Date	Thread	Data Serial connection open: COMB, 9600.8, N, 1 Session sequence started Session as 1 (Brackformation) started
			Data
Information	2022.01.10. 10:36:16	0	Serial connection open: COM6, 9600,8,N,1
Information	2022.01.10.10:36:16	0	Session sequence started
Information	2022.01.10. 10:36:16	0	Session step 1 [NeadConliguration] staned
Information Information	2022.01.10. 10:36:16 2022.01.10. 10:36:16	0	Interface session sequence has been started Interface session step 1 [OpenConnection] started
Information	2022.01.10.10:36:16	0	The connection was successfully established.
Information	2022.01.10.10:36:16	0	Interface session step 1 [OpenConnection] success
Information	2022.01.10. 10:36:16	0	Interface session step 2 [IECPasswordSend] started
Request	2022.01.10. 10:36:16	0	/?999999999! <cr><lf></lf></cr>
Response	2022.01.10.10.36.16	0	2F 45 4C 53 35 5C 33 20 56 32 2E 34 2E 34 33 2E 31 31 0D 0A 00 00 00 00 00 00 00 00 00
Information	2022.01.10.10:36:17	0	IEC password command response is processing
Response	2022.01.10.10:36:17	0	/ELS5\3 V2.4.43.11 <cr><lf></lf></cr>
Information	2022.01.10.10:36:17	0	IEC password command response has been processed, the session continues.
Information	2022.01.10. 10:36:17	0	Interface session step 2 [IECPasswordSend] success
Information	2022.01.10. 10:36:17	0	Interface session step 3 [ACKSend] started
Request	2022.01.10. 10:36:17	0	<ack>059<cr><lf></lf></cr></ack>
Response	2022.01.10. 10:36:17	0	06 30 35 39 0D 0A 00 00 00 00 00 00 00 00 00 00 00 00
Information	2022.01.10. 10:36:17	0	ACK command response is processing
Response	2022.01.10. 10:36:17	0	<ack>059<cr><lf></lf></cr></ack>
Information	2022.01.10. 10:36:17	0	ACK command response has been processed, the session continues.
Information	2022.01.10. 10:36:17	0	Interface session step 3 [ACKSend] success
Information	2022.01.10. 10:36:17	0	Interface session step 4 [SetPassword] started
Information	2022.01.10. 10:36:17	0	Communication password authentication is not required!
Information	2022.01.10. 10:36:17	0	Interface session step 4 [SetPassword] success
Information	2022.01.10. 10:36:17	0	Interface session step 5 [ReadConfigCommand] started
Information	2022.01.10. 10:36:17	0	Readout the configuration
<			

- 2. Choose a saved log file from the list and press the **Load** button.
- 3. The program will list all recorded entries of the log file (as communication messages, failures and system messages).

5.3 Check modem communication

You can check the current activity of the modem by choosing the **Communication** tab (on the left side of the screen), where the incoming messages will be listed.



There you can filter the message types by the **Type filter** and **Thread filter** field options by selecting the required items.

At the **Log Folder** title with the **[Open]** buttons you can read a stored, previous log file for analyzing.

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File Admin	Operation	Tools		E 🔤 💿 🥸	
Log folder:			Open	Device information	
				RSSI: -67 dBm Modem vendor: N/A	C
Type filter:	Error, Info	mation, F	Request, Response, FTP 🗸	Serial No. of the modem chip: 130194270000342434	1
Thread filter: Type Request Response Information			~	Access technology: 2G	-
-	D .		D	Firmware version: V2.4.41	-
Туре	Date	Thread	Data ^	IMEI: 356611075541684	1
Request Response	2020.09.22		IB 16 /0 00 02 /2 Ilig. <stx>5,15,3600<c< td=""><td>ICC: 8936200003250172672</td><td>1</td></c<></stx>	ICC: 8936200003250172672	1
	2020.09.22		Read packet:3	ICC: 8936200003250172672	
Request	2020.09.22	1	1B 16 70 00 03 73	Engine ID: N/A	
	2020.09.22		Iliq. <etx>Ims.lls_secret</etx>	Hungary Pannon/Telenor -	+
	2020.09.22		Read packet:4	Cellular operator name: 21601	
	26.0.09.22		1B 16 70 00 04 74	Access technology: GSM / EGPRS	
	2020.09.22		Illq.IE07030000078 <c Read packet:5</c 		+
	2020.09.22		1B 16 70 00 05 75	EC-IO: N/A	1
	2020.09.22		lla.l= 0 <cr><lf>smi.in</lf></cr>	RSRP: N/A	
	2020.09.22		Read packet:6		
	2020.09.22		1B 16 70 00 06 76	Transmitted power: N/A	- 1
Response	2020.09.22	1	IIIq. <ack>t_cops = <cf< td=""><td></td><td>+</td></cf<></ack>		+
Information	2020.09.22	1	Read packet:7		
	2020.09.22		1B 16 70 00 07 77	Battery voltage: N/A	
	2020.09.22		Iliq.ler = <cr><lf>pdp(</lf></cr>		
	2020.09.22		Read packet:8		
	2020.09.22		1B 16 70 00 08 78	IP address: N/A	
	2020.09.22		Iliq.Irsion = V2.4.41 <cr< td=""><td>IP address: N/A</td><td>1</td></cr<>	IP address: N/A	1
	2020.09.22		Close connection has b	Subnet mask: N/A	
	2020.09.22	1	The connection was ck Session sequence finish V		+
	2020.09.22		Session sequence finisr	Gateway address: N/A	
RS232				Version 1	3.4

5.4 Ping host

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

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



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Log off 🐉	Ping host	
>	IP address: 92.155.31.133	Ping
type	Status : TimedOut Time : Oms Address :	
Connection type		
> 10		
Communication 🗸		
Comn		
>		
AT interface 🗸		
ATin		
	R5232 •	

5.5 AT commands

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

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Log off 💏	AT interface	Ping host	
>	Command: ATI Response:	IP address: 192.155.31.133	Ping
type	Goectel EG915N	Status : TimedOut Time : 0ms Address :	
Connection type			
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ion			
unicat			
Communication 🗸			
	i l		
ace			
AT interface 🔨			
A	J		
		<u> </u>	
	RS232		



Here you can use AT commands on the modem's current cellular 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),

press 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.

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File Admin Tools Operation Settings Help	
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Ceneral Files	
Configuration	
Desktop language	
English	~
Date format	
VyyyMMdd HHinmss	~
Edit password hidden	
Parallel update (mass update) 2	•
K Window size	
Normal Set Print	
Print	
Print font	
	Browse
Save Cancel	
R5232 •	



- 1. Choose the **Settings** icon from the menu (or choose the **Settings / Edit settings** menu).
- 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.
- 4. On the "**Files**" tab you can define the path/directory for the configuration files, firmware, log.
- 5. **[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 software next time, they will automatically be loaded.

5.8 Apply Password usage

- Choose the Communication Password Settings I 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.



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2 0	Configuration password change		
log off	Select connection:	R5232	
>	Use the communication password		
		Apply password usage	
Connection type			
Con	Current configuration password:	Show	
>	New configuration password	Show	
Communication 🗸	Confirm configuration password:	Show	
นทนน		Change password	
< a			
AT interface 🔨			
AT			
	RS232	•	

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).

 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.

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20	Connection name [type - serial]		
Log off	Connection name	RS232	
Ē	Configuration / Connection settings		
>	IEC password		Show
n typ	IEC address		
ection	Configuration password	l····	Show
Connection type	Serial connection settings		
>	COM port	ю́мэ ~	
	Baud rate	9600 ~	
licati	Data format	8,N,1 ~	
Communication	Switch baud rate	Switch enable?	
Con		115200 ~	
>	IMEI		
face	AES key		
AT interface			
AT			
	Save Cancel		
	RS232		

- 3. Push to the **[Save]** button.
- 4. Choose the **Communication Password Settings O** 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.
- 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.

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20	Configuration password change							
Log off	Select connection:	R5232 ~]					
>	Use the communication password	© Enabled						
		O Disabled Apply password usage	1					
ction 1		Apply password usage						
Connection type	Current configuration password:		Show					
-	New configuration password	•••••	Show					
ion	Confirm configuration password:		Show					
Communication	Commi Comiguration password.	L						
mmo		Change password	1					
2		and the second						
ace 1								
AT interface		and the second						
R.								
	RS232	•						
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8. Then push to the **[Change password]** button to perform the 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 i no direct option for immediate modem restart in the WM-E Term software. But it is very easy to press 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-EIS (Honeywell/Elster): <u>https://m2mserver.com/en/product/wm-els/</u>

WM-EISI (Itron type): https://m2mserver.com/en/product/wm-elsi/

WM-EISL (Landis+Gyr type): <u>https://m2mserver.com/en/product/wm-elsl/</u>

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

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

WM-E3S* (Honeywell type): https://m2mserver.com/en/product/wm-e3s/

WM-E3S MBUS (Honeywell): <u>https://m2mserver.com/en/product/wm-e3s-mbus/</u>

WM-E8S (universal): https://m2mserver.com/en/product/wm-e8s/

Universal Industrial Modem: https://m2mserver.com/en/product/industrial-rs485-modem/

Important!

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

*The "DLMS" related parameters can be used in case of WM-E3S based modems, only when using DLMS-compatible firmware. Ask our sales!



Chapter 7. Support

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

Email: <u>iotsupport@m2mserver.com</u>

Phone: +36 20 333-1111

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

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



Chapter 8. Legal notice

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