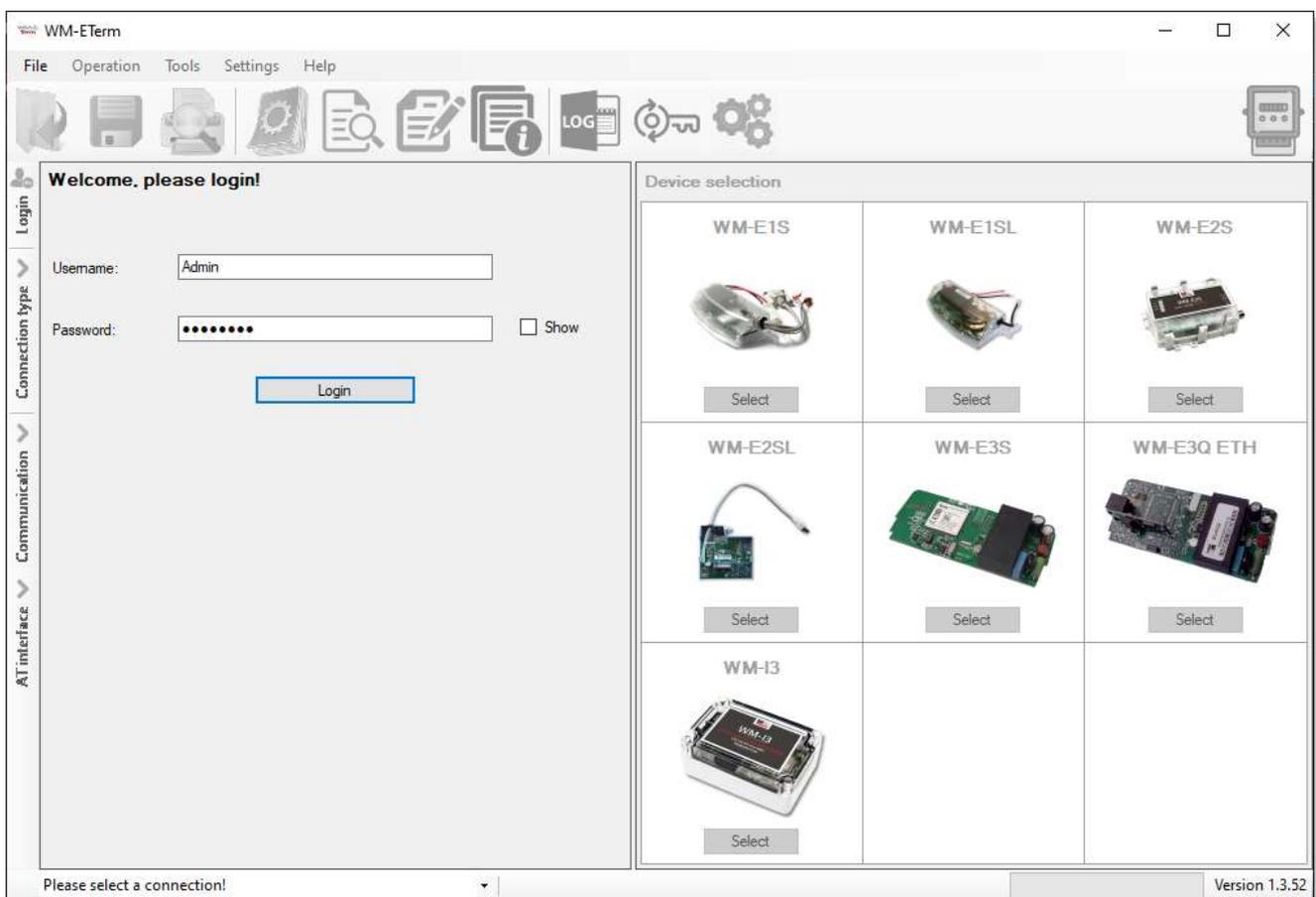


WM-E Term[®]

Appendix

Parameter description



Document specifications

This documentation was made for the usage of the WM-E TERM[®] software (Universal configuration tool for WM-E1S[®], WM-E1SL[®], WM-E2S[®], WM-E2SL[®], WM-E3S[®], WM-E8S[®] electricity metering modems) and the better understanding the configuration parameters of the configuration software and the structure and usage of the configuration files for the related modems.

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1. Parameter description

The following parameters can be set by the configuration file of the modem and the WM-E Term configuration software. Further details can be found in the software's User Manual.

Please, note that not all of the parameters are available for any WM-Ex modem. The exceptions are marked in the last column.

Configuration file Parameter Name	WM-E Term Parameter Group	WM-E Term Parameter Name	Default value (recommended factory default values)	Measur. unit / Entry type	Comment	Description for the Customer
eventpush.addr	AMM (IEC) / TRANSP. MODE	Event push address	-	Phone nr. Or IP address	Destination IP address of alarm push (SMS/FTP/TCP/UDP)	Add the notification phone number or IP address to the Event push address field in international format.
eventpush.sms_text		Event push SMS text	Input changed	text	In case of Input change event, the SMS notification text	Add the notification text for input signal change detection event.
eventpush.sms_ignore		Event push SMS ignore until [sec]	-	seconds	Event push notification sending will be ignored/postponed until the declared interval	Event push notification sending will be ignored/postponed until the declared interval
eventpush.sms_lost_text		LastGASP lost SMS text notification	Power lost	text	In case of power outage (power loss) event, the SMS alarm notification text	Add the alarm notification text for occurred power loss detection event.
eventpush.sms_return_text		LastGASP return SMS text notification	Power return	text	In case of release of power outage (end of power loss) event, the SMS alarm notification text	Add the alarm notification text for occurred power return detection event.
eventpush.sms_notify		Event push notification	-	SELECTION	LAST_GASP, INPUT, C86X, DEBUG	Choose the event(s) to be notified. You can select more option at once. Values (notification from): - LAST_GASP: Power loss / return - INPUT: Input changes - C86X: C86 type meter events - DEBUG: for debug only
ei_client.user		EI client username	-	username (text, numbers)	EI address username	Define the EI client's username for the connection IP address
ei_client.pass		EI client password	-	password	EI address password	Define the EI client's password for the username of the connection IP address
ei_client.addr		IP address	-	IP address	AMM (EIServer) IP address (ftp client IP)	Here you can define the remote server's IP address where the data will be transmitted through the wireless network
ei_client.auth_mode		EI client authentication mode	-	SELECTION	EI client authentication mode	A remote device can be connected to the modem and readout data - here you can select authentication mode Values: N - no authentication E - EI authentication - you have to define the username / password
ei_client.port		Server port	0	Port number	AMM (EIServer) port (ftp client port)	Define the port number of the server IP address
ei_client.deployed		Auto register	0	Checkbox to enable/disable	Automatic registration to the address*	In case of data push send automatically or not Values: 0 = false, 1 = true * Not used
ei_client.interval_fast		Poll interval fast (not deployed)	30	seconds	Poll interval fast (not deployed)*	Value of Poll interval fast (not deployed) * Not used
ei_client.interval_slow		Poll-interval slow (deployed)	30	seconds	Poll-interval slow (deployed)*	Value of Poll-interval slow (deployed) * Not used
ei_client.tcp_keepalive	EI client TCP keep alive	10	minutes	EI client TCP keep alive	Keeps the EI client connection alive for the defined time range	
datapush.host	Data push host	-	ftp path/URL with credentials	Data push address (for SMS/FTP/TCP/UDP)	FTP server address and connection parameters - as protocol, IP address as user and password. FTP server IP address - usage: datapush.host = <protocol>://<user>:<password>@<ip_address>/<directory>	
datapush.iec_address	Data push IEC address	-	IP address	Data push IEC address (source meter address)	The Data push (ftp) parameters are here if you wish to use the data push service for the modem (as Data push IEC address as the source meter address and the ftp server IP address (Data Push Host)).	
datapush.max_retries	Data push max retries	3	number	Data push max retries (in case of failure)*	Number of retries of data push operation in case of failure *Not in use	

datapush.timeout	AMM (IEC)	Data push timeout	15000	milliseconds	Data push timeout*	Interval of data / FTP push connection wait - it waits until the declared interval whether it was successful or not *Not in use
datapush.interval		Data push interval	600	seconds	Data push interval	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)
dlms.timeout		Max. time in sec. without DLMS communication (timeout)	60	seconds	Max. time in sec. without DLMS communication (Timeout)*	You can define the max. time interval without DLMS communication (timeout) * Only used for WM-E3S
dlms.lls_secret		DLMS password	-	password	DLMS encryption key for data push (AES)	Define the DLMS password / encryption key (AES)
smp.dlms_on_boot	AMM / DLMS	Start DLMS session during the boot process	0	Checkbox to enable/disable	Start DLMS session during the boot process*	You can enable the start DLMS session during the boot process - used for compatibility with the Elster AM100 modems. Values: 0 = false, 1 = true * Only used for WM-E3S
dlms.host		DLMS host address	-	IP address	DLMS AMM IP address*	You can define the DLMS AMM server's IP Address. This is mainly used for compatibility with the Elster AM100 modems * Only used for WM-E3S
dlms.port		DLMS server port	0	Port number	DLMS server port*	You can define the port of DLMS AMM server. It is used for compatibility with the Elster AM100 modems * Only used for WM-E3S
loadprofile.strict_dsmr		The visibility of the registers	0	Checkbox to enable/disable	DSMR Load Profile registers* (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	You can define the registers to be visible or not Values: 0 = false, 1 = true * Only used for WM-E3S
dlms.auth_mechanism		List of possible DLMS/COSEM authentication mechanisms	1,5	special syntax	List of possible DLMS/COSEM authentication mechanisms*	You can achieve a list of possible DLMS/COSEM authentication mechanisms * Not used * Only used for WM-E3S
emeter.control_mode		Disconnect relay control	4	number	Disconnect relay control mode (Emeter)*	* Not used * Only used for WM-E3S
conn.apn_name	APN	APN Server name	nbiotshared.prtp	name (text, APN allowed chars.)	APN Server name	APN Server name - ask you mobile operator (of the SIM)
conn.apn_user		APN Username	-	username (text, numbers)	APN Username	APN Username - if you mobile operator / APN requires
conn.apn_pass		APN Password	-	password	APN Password	APN Password - if you mobile operator / APN requires
conn.auto_user		Create APN username automatically	0	Checkbox to enable/disable	Create APN username automatically*	Values: 0 = off implemented, 1 = not implemented in standard FW * Not used
conn.auto_pass		Create APN password automatically	0	Checkbox to enable/disable	Create APN password automatically*	Values: 0 = off implemented, 1 = not implemented in standard FW * Not used
pdp.delay		PDP connection establishment delay [min]	0	minutes	Wait time before PDP activation*	Delay * Not used for WM-E2S
smp.always_on	M2M	GPRS always ON	1	Checkbox to enable/disable	Connects to PDP only if it is „push“, in any other case the GPRS part is inactive (for FTP push or UDP/TCP push)	Check in the field, if it was empty (If it's empty it will be always online) Values: 1 = on, 0=off value for triggering only
smp.connect_on_timer		Connection timer	0	Checkbox to enable/disable	Connection timer*	Choose the Connection timer – only if you are not using the GPRS always ON option (when it is disabled) Values: 1 = on, 0=off value *Not used
smp.connect_start		Start GPRS connection	FFFFFFFFF00000	HH:MM:SS	Start GPRS connection - if the „GPRS Always ON“ parameter was set to 0, then here can be defined a date/time when it will push the data	Schedule of starting the GPRS connection / data push First part "FFFFFFFFF" = the date Second part "000000" is the HHMMSS time format
smp.connect_interval		Additional delay-time	0	seconds	Additional delay interval before alarm push	Delay-time interval definition in case of using "push" to give some delay for build-up the connection. Will be valid only if the „GPRS Always ON“ parameter was set to 0
smp.disconnect_delay		Hold-time of GPRS connection	0	seconds	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 0

tm_server.port	M2M	Port for transparent (IEC) meter-readout	9000	Port number	Port for transparent (IEC) meter-readout	Define the Port for transparent (IEC) meter-readout. Note that must be different from the Download config and firmware port number
fw_server.port		Port for download config and firmware	9001	Port number	Port for download config and firmware	Define Port for download config and firmware. Note that must be different from Transparent IEC meter-readout port number
conn.max_retries		Number of GPRS connection attempts till module-reset	15	number	Number of GPRS connection attempts till module-reset	Number of maximum GPRS (PDP) connection attempts 'till module-reset
conn.retry_delay_rewind		Waiting time until next try	1	seconds	Waiting time until next network connection attempt*	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(s) [secs] between „GPRS connection attempts” parameter value timeout, it goes back to the list, otherwise it is not used. * not implemented
conn.encrypt_pass		Encrypt password via MD5 algorithm	0	Checkbox to enable/disable	Encrypt password via MD5 algorithm*	Encrypt password via MD5 algorithm Values: 0 = false, 1 = true * not used
conn.retry_delay		Time(s) [secs] between GPRS connection attempts	15,15,300,15,15,300,15,15,3600	seconds	Time(s) [secs] between GPRS connection attempts	If the PDP context activation was not successfull, it will delay the reconnection according to the listing
conn.ping_host	WATCHDOG	Ping IP-address	8.8.8.8	IP address	Ping IP-address	IPv4 address to ping (for checking the cellular connection health)
conn.ping_max_retries		Number of ping-retries	3	number	Number of retries of checking the cellular network availability	Number of retries of checking the cellular network availability
conn.ping_timeout		Ping wait-time (for reply)	15000	milliseconds	Ping wait-time (for reply)	Timeout of ping interval (for checking the cellular network availability)
conn.ping_interval		Wait-time (for next)	300	seconds	Wait-time (for next ping)	Interval (wait time) between ping cycles, time interval until the next ping sequence occurring (for checking the cellular network availability)
conn.no_network_timeout		Timeout at GPRS login fail	30	minutes	Timeout at GPRS login fail	Timeout when GPRS (PDP) login fail occurs - tolerance interval of PDP connection establishment error
smp.bos_timeout		Wait-time till module-reset	24	hours	Module restart after this interval	Module restart after this interval
smp.restart_time		Daily restart on a fix, parametrised time, HHMM	-	HH:MM	Daily restart on a fix, parametrised time, HHMM	Daily restart on a fix, parametrised time, value in HH:MM format. If you attempt to define a daily restart interval for the device - add the HH:MM value of the time of the device restart. Leave it empty if you do not allow the device to restart every day.
conn.reconnect_interval		GPRS connection will be closed and restored after this time	0	seconds	GPRS connection closed and restored after this time	Waiting interval between PDP connection establishment, the value is also used for ping. If the ping is configured (Ping wait-time (for reply) parameter), then the defined interval / repeat time will be used for automatic reconnection after the given delay has elapsed. Here you can define that after the network drops our the modem, how long does the modem wait before trying to reconnect to the mobile network again. Ask your mobile provider about the offered settings. <i>Note that if you set this parameter to a low value that can cause frequent network reconnections. Therefore under no circumstances should you set this value lower than what your mobile service provider recommends. (e.g. there are mobile network providers that limit the number of times a modem can log on to the network in a given time).</i> Default value: 0
conn.dss_apn_name		APN server name for device services session	-	name (text, APN allowed chars.)	APN server name for device services session (FTP OTA)	Telit module FOTA support APN Server name - ask you mobile operator (of the SIM)
conn.dss_apn_user		APN user name for device services session	-	username (text, numbers)	APN user name for device services session (FTP OTA)	Telit module FOTA support APN Username - if you mobile operator / APN requires
conn.dss_apn_pass	APN password for device services session	-	password	APN password for device services session (FTP OTA)	Telit module FOTA support APN Password - if you mobile operator / APN requires	

conn.dss_ws46	WATCHDOG	Cellular network access technology selection (LTE, 3G, 2G mode) for FOTA	28	SELECTION	Cellular network access technology selection (LTE, 3G, 2G mode) for FTP OTA	<p>Here you can select a dedicated network for FOTA firmware updates or in case of availability of fallback channel you can choose that, or there is the opportunity to choose "All available access technology"</p> <p>Values: "2G only" - Value: 12 "3G only" - Value: 22 "All available access technology (Default)" - Value: 25 "LTE only (default on LTE Cat 1. modems)" - Value: 28 "3G to 2G (Fallback)" - Value: 29 "LTE to 2G (Fallback)" - Value: 30 "LTE to 3G (Fallback)" - Value: 31</p> <p>Note that the listed modes are not available for all modem type. The marked modes are only available if the cellular network access technology mode is supported by the current module.</p> <p>We do recommend to use the following settings for the Cat.NB / Cat.M modem: "LTE only (default on LTE Cat 1. modems)" option, Value: 28</p> <p>You can also refine the settings and to use the following values to select IoT technology: - 28,0 (use the CAT-M1 network) - 28,1 (use the NB-IoT / Narrow Band network) - 28,2 (use Cat.M1 and NB-IoT technology)</p> <p>For LTE 4G modems we offer to chose the „LTE to 2G (Fallback)" Value 30 - if the fallback channel is supported on the modem or the LTE to 3G fallback (Value: 31) if it is supported</p> <p>If the "all available network" option is supported by the modem and it was chosen, the modem will try to register to the last succesful technology.</p>
conn.dss_ftpota_retry		FTP OTA retry	0	number	FTP Firmware refresh (OTA) retry	Telit module FOTA support FTP firmware refresh retry numbers
conn.dss_ftpota_par		FTP OTA parameter (Server address, filename, path)	-	ftp path/URL with credentials	FTP OTA parameters (FTP host, user/pass, path, filename) Like: FTP server IP address - usage: datapush.host = <protocol>://<user>:<password>@<ip_address>/<directory>	Telit module FOTA support FTP server address and connection parameters - as protocol, IP address as user and password. Leave it empty if it is not used
conn.dss_ftpota_status		FTP OTA status	-	READ ONLY	FTP OTA status	Telit module FOTA support Status information of the current FTP OTA status
conn.at_wmbs	CELLULAR NETWORK	Band frequency configuration	28	list code	Band frequency configuration according to the selected cellular network access technology	<p>Here you can select a dedicated network for FOTA firmware updates or in case of availability of fallback channel you can choose that, or there is the opportunity to choose "All available access technology"</p> <p>Values: * "leave the cellular technology on the last used technology without changing" - Value: -1 * "2G only" - Value: 12 * "3G only" - Value: 22 * "All available access technology (Default)" - Value: 25 * "LTE only (default on LTE Cat 1. modems)" - Value: 28 * "3G to 2G (Fallback)" - Value: 29 * "LTE to 2G (Fallback)" - Value: 30 * "LTE to 3G (Fallback)" - Value: 31</p> <p>Note that the listed modes are not available for all modem type. The marked modes are only available if the cellular network access technology mode is supported by the current module.</p> <p>We do recommend to use the following settings for the Cat.NB / Cat.M modem: "LTE only (default on LTE Cat 1. modems)" option, Value: 28</p> <p>You can also refine the settings and to use the following values to select IoT technology: - 28,0 (use the CAT-M1 network) - 28,1 (use the NB-IoT / Narrow Band network) - 28,2 (use Cat.M1 and NB-IoT technology)</p> <p>For LTE 4G modems we offer to chose the „LTE to 2G (Fallback)" Value 30 - if the fallback channel is supported on the modem or the LTE to 3G fallback (Value: 31) if it is supported</p> <p>If the "all available network" option is supported by the modem and it was chosen, the modem will try to register to the last succesful technology.</p>

conn.cicb	CELLULAR NETWORK	Type of call not defined	0	SELECTION	Barrier type for incoming calls - when no incoming bearer is specified	It is necessary for CBST and CSNS commands CICB tab. Values: 0 = voice, 2 = fax, 4 = data
conn.rings		Number of ring before accept call	3	number	Number of ring attempts	Waits for the defined number of rings before accepting the data call (CSD)
csd.password		Password for CSD call		password	Password for CSD call	Password for CSD call
sim.pin_code		PIN number (SIM card)		PIN code	PIN number (SIM card)	PIN code of the SIM card - ask your mobile provider
conn.at_cops		Provider selection-mode (roaming)	4,2,26803	special syntax	Provider selection-mode (roaming)	Cellular network provider change parameter. Syntax in file: mode, format, operator
csd.password		Password for CSD call	-	password	Password for CSD call (login pass for call and SMS)	Login pass for call and SMS
calendar.dst_begin	CALENDAR	Start daylight saving	FFFF03FE0702000003C	DateTime	Start daylight saving (summer) – DST start date/time	Start date of daylight saving (summer) in hexadecimal format
calendar.dst_end		End daylight saving (winter)	FFFF0AFE070300000078	DateTime	End daylight saving (winter) – DST end date/time	End date of daylight saving (summer) in hexadecimal format
calendar.dst_enabled		Switching daylight saving time / normal time	1	Checkbox to enable/disable	Switching daylight saving time / normal time – DST enablement	You can switch on or off the daylight saving time / normal time handle Values: 0 = false, 1 = true
calendar.dst_deviation		Offset daylight-saving-time in minutes	60	minutes	Offset daylight-saving-time in minutes (Compared to DST)	GMT offset of daylight saving time handle (in minutes)
calendar.timezone		Deviation of local time to GMT	60	minutes	Deviation of local time to GMT	GMT deviation of daylight saving time handle (in minutes)
led1	STANDARD METER INTERFACE	Meaning of LED 1	1	SELECTION	Meaning of LED 1	LED tab - selecting the nr. Of LED meaning in the LED selection list
led2		Meaning of LED 2	6	SELECTION	Meaning of LED 2	LED tab - selecting the nr. Of LED meaning in the LED selection list
led3		Meaning of LED 3	4	SELECTION	Meaning of LED 3	LED tab - selecting the nr. Of LED meaning in the LED selection list
led4		Meaning of LED 4	0	SELECTION	Meaning of LED 4	LED tab - selecting the nr. Of LED meaning in the LED selection list * Only for WM-E1S, WM-E3S
led5		Meaning of LED 5	30	SELECTION	Meaning of LED 5	LED tab - selecting the nr. Of LED meaning in the LED selection list * Only for WM-E1S, WM-E3S
led6		Meaning of LED 6	2	SELECTION	Meaning of LED 6	LED tab - selecting the nr. Of LED meaning in the LED selection list * Only for WM-E1S, WM-E3S
emeter.date_format		Date format for read out	YYMMDD	Date	IEC date format for readout (YYMMDD)	Date format / syntax for read out (YYMMDD)
ini.version		Version number of config file	-	Text	Version number of config file	*Not used
dmset.am100.typekey		Type key of AM100 corresponding to the name plate	-	Text	Type key of AM100 corresponding to the name plate	*Not used
smi.init		Meter interface init values	-	-	WM-E2S meter interface settings*	* Not used * Only for WM-E2S
fw_server.baud		Configuration port settings	-	String	Configuration interface speed rate and operation mode	* Available only or WM-E2SL TNB modem
smi.relay		Relay control	-	SELECTION	Relay control for e-meter	Values: T1, T2, T3, T4 * Only for WM-E3S CI R relay version
smp.firmware_version		Firmware version	V2.3.9	READ ONLY	Firmware version	version, ID and status information
smp.os_version	DEVICE INFORMATION	Operating system version		READ ONLY	Operating system version	Operating system revision information
smp.revision_id		Operating system revision and ID	WM-E3S B1.05	READ ONLY	Operating system revision and ID	Operating system revision and ID
smp.modem_sn		Serial No. Of the modem chip	9044270119000010	READ ONLY	Serial No. Of the modem chip	Serial No. Of the modem chip
smp.modem_imei		IMEI of the modem	356345080030694, ICC = 8935103196400006897	READ ONLY	IMEI of the modem	SIM ICC and PDP IP address information
pdp01.apn_user	STATUS	PDP APN Name	-	READ ONLY	PDP APN Name	Status value
pdp01.apn_pass		PDP APN Password	-	READ ONLY	PDP APN Password	Status value
last.imei		IMEI Address	-	READ ONLY	IMEI Address	Status value
last.icc		ICC identifier	-	READ ONLY	ICC identifier	Status value
last.model		Telit module type	-	READ ONLY	Telit module type	Status value
last.revision		Telit module firmware version	-	READ ONLY	Telit module firmware version	Status value
smp.nta_mode		Multi utility mode (DLMS active)	1	SELECTION	Multi utility mode (DLMS active) – Activates the E-meter LED	Activates the E-meter LED Values: 1= transparent mode*, 2 = multi-utility mode * Transparent mode implemented only

tm.tls_enable	TRANSP. / NTA	Transparent mode TLS enable	0	Checkbox to enable/disable	Enable TLS encrypted communication	0= TLS disabled 1=TLS enabled
tm.mode8n1		Data format fix 8N1 for meters, that fix on 8N1	0	Checkbox to enable/disable	Data mode for emeter serial port (select 8N1 or 7E1)	1=on (8N1), 0=off (7E1)
tm.cert		Transparent mode certificate bank select	7200	Number	Transparent certificate bank selection	1=yes, 0=no
tm.use_crl		Transparent mode CRL usage	0	Checkbox to enable/disable	Transparent mode CRL (Certificate Revoke List) usage	1=yes, 0=no
tm.ca_cert		Transparent CA certificate bank select	0	Number	Transparent CA certificate bank selection	1=yes, 0=no
tm.baud		Meter port baud rate (for transparent mode and meter readout)	9600	Meter port baud rate	E-meter serial port speed (during readout)	Values (in bps) can be: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 56100, 115200 Recommended: 9600 (bps)
tm.verify		Transparent mode certificate verification	0	SELECTION	Transparent mode certificate verification	0=Not, 1=Optional, 2=Mandatory
tm2.port	SECONDARY TRANSPARENT	Secondary transparent port	9002	Port number	Secondary transparent socket port	Secondary transparent port number
tm2.baud		Secondary transparent baudrate	2418	Baudrate (bps)	Secondary transparent baudrate	Secondary transparent baudrate (speed rate in bps)
dcd.mode	RS485	DCD mode	3	SELECTION	Configure the DCD control mode	Available DCD modes: 0=Fix 0, 1=Fix 1, 2=Standard, 3=Inverted
rs485.mode		RS485 mode	2	SELECTION	RS485 wiring type	0=RS232 only, 1=2-wire RS485, 2=4-wire RS485
p1.mappings	P1 CUSTOMER INTERFACE	P1 mapping	-	Matrix	P1 mapping*	A table to add, modify or delete P1 Customer Interface device/service entries Syntax: Source;Description;OBIS E-meter;OBIS P1 out;Unit;Priority Values: - Source: selection - Description: string/text - OBIS E-meter: address (digit.digit.digit) - example: 0.0.0 - OBIS P1 out: ID-address - example 1-0:0.0.0 - Unit: string (e.g. kWh) - Priority: checkbox (values:yes=1;no=0) * Available only for WM-E3S CI
p1.interval		Interval time data output	10	seconds	Interval time data output*	value in seconds * Available only for WM-E3S CI
p1.low_prio_count		Sum of added registers	10	number	Sum of added registers*	number of registers * Available only for WM-E3S CI
p1.active		P1 Active	1	Checkbox to enable/disable	P1 Active*	1=yes, 0=no * Available only for WM-E3S CI
p1.output_version		P1 output	0	SELECTION	P1 output type*	values: 0=Default, 1=Output to DSMR 3.0, 2=Output to DSMR 5.0 * Available only for WM-E3S CI
emeter.logoff_delay		Logout time	1000	milliseconds	Logout time - Optimization of customer interface logout time (hold connection) for register reading customer interface*	* Available only for WM-E3S CI
emeter.readout_display		Readout from display list (registers)	1	Checkbox to enable/disable	Readout from display list (registers)*	Allow display list registers to be read out (checkbox) 1=yes, 0=no * Available only for WM-E3S CI
emeter.readout_service		Readout from service list (registers)	0	Checkbox to enable/disable	Readout from service list (registers)*	Allow service registers to be read out (checkbox). 1=yes, 0=no * Available only for WM-E3S CI
p1.lp_output		Output of load profile data on customer interface	1	Checkbox to enable/disable	Output of load profile data on customer interface*	Checkbox to enable the output on CI 1=yes, 0=no * Available only for WM-E3S CI
p1.delay		Delay before send of load profile data	80	milliseconds	Delay before send of load profile data*	Delay time definition to postpone the sending * Available only for WM-E3S CI
p1.lp_entry_count		Sum of measuring period entries per Load	1	number	Sum of measuring period entries per Load*	How many measure entries to be handled once * Available only for WM-E3S CI
p1.logging		Logging	0	Checkbox to enable/disable	Enable logging*	1=yes, 0=no * Currently not used * Available only for WM-E3S CI
log_server.port		Log Server port	-	number	Log Server port*	* Currently not used * Available only for WM-E3S CI
emeter.iec_address	IEC address for P1 interface	-	IP address	IEC address for P1 interface*	IP address format * Available only for WM-E3S CI	

dmset.mbus.c0X_metertype		M-Bus mapping	-	Matrix	M-Bus mapping*	Syntax: Act; Media; Manufacturer; DIF/VIF;Scale unit; OBIS reg.; Rd-interval; LP object; MBus-address; required field number(s); RFID (mRID); Meter name * Available only for WM-E3S CI
mbus.max_meters		Maximum number of M-Bus device	4	Number	Maximum number of M-Bus device	* Available only for WM-E3S MBUS
mbus.install_timeout		Installation timeout	25	minutes	Installation timeout	* Available only for WM-E3S MBUS
mbus.monthly_capture_objects		Number of monthly objects	1	Number	Number of monthly objects	* Available only for WM-E3S MBUS
mbus.inactivity_timeout		Inactivation timeout	10	hours	Mbus device inactivation timeout	* Available only for WM-E3S MBUS
mbus.readingtime		Readout time	1	seconds	Readout time interval	* Available only for WM-E3S MBUS
mbus.activate_address		Activation address	99999993	Number	Activation address	* Available only for WM-E3S MBUS
mbus.sendingtime		Upload time	0	Number	Upload time	Syntax: value: minutes + monthly * Available only for WM-E3S MBUS
mbus.transp_inactivity_timeout		Inactivity timeout	600	seconds	Inactivity timeout	* Available only for WM-E3S MBUS
mbus.filename		File encryption type	-	String	File encryption type	* Available only for WM-E3S MBUS
mbus.c_X_address		M-Bus address	-	String	M-Bus address	* Available only for WM-E3S MBUS
mbus.c_X_fields		Required field number(s)	-	String	Required field number(s)	* Available only for WM-E3S MBUS
mbus.c_X_rfid		RFID(mRID)	-	String	RFID(mRID)	* Available only for WM-E3S MBUS
mbus.c_X_metername		Meter name	-	String	Meter name	* Available only for WM-E3S MBUS
mbus.c01_capture_definition		DIF/VIF identifier Mbus device #1	4C13	Identifier	DIF/VIF identifier Mbus device #1	* Available only for WM-E3S MBUS
mbus.c01_scaler_unit		Scale Unit	-3,13	unit numbers	M-Bus Scaler Unit #1	Syntax: comma separated * Available only for WM-E3S MBUS
mbus.c01_capture_period		Read Interval	18	number	M-Bus read interval for device #1	* Available only for WM-E3S MBUS
mbus.c01_capture_objects		LP Object	1	number	Load Profile object for device #1	* Available only for WM-E3S MBUS
mbus.c02_capture_definition		DIF/VIF identifier Mbus device #2	4C13	Identifier	DIF/VIF identifier Mbus device #2	* Available only for WM-E3S MBUS
mbus.c02_scaler_unit		Scale Unit	-3,13	unit numbers	M-Bus Scaler Unit #2	Syntax: comma separated * Available only for WM-E3S MBUS
mbus.c02_capture_period		Read Interval	18	number	M-Bus read interval for device #2	* Available only for WM-E3S MBUS
mbus.c02_capture_objects		LP Object	1	number	Load Profile object for device #2	* Available only for WM-E3S MBUS
mbus.c03_capture_definition		DIF/VIF identifier Mbus device #3	4C13	Identifier	DIF/VIF identifier Mbus device #2	* Available only for WM-E3S MBUS
mbus.c03_scaler_unit		Scale Unit	-3,13	unit numbers	M-Bus Scaler Unit #3	Syntax: comma separated * Available only for WM-E3S MBUS
mbus.c03_capture_period		Read Interval	18	number	M-Bus read interval for device #3	* Available only for WM-E3S MBUS
mbus.c03_capture_objects		LP Object	1	number	Load Profile object for device #3	* Available only for WM-E3S MBUS
mbus.c04_capture_definition		DIF/VIF identifier Mbus device #4	4C13	Identifier	DIF/VIF identifier Mbus device #4	* Available only for WM-E3S MBUS
mbus.c04_scaler_unit		Scale Unit	-3,13	unit numbers	M-Bus Scaler Unit #4	Syntax: comma separated * Available only for WM-E3S MBUS
mbus.c04_capture_period		Read Interval	18	number	M-Bus read interval for device v	* Available only for WM-E3S MBUS
mbus.c04_capture_objects		LP Object	1	number	Load Profile object for device #4	* Available only for WM-E3S MBUS
dm.tls_enable		Device Manager TLS enable	0	Checkbox to enable/disable	Device Manager TLS enable	1=yes, 0=no
dm.server		Device Manager server IP address	-	IP address	Device Manager server IP address	Remote Device Manager server IP
dm.port		Device Manager server port	0	Port number	Device Manager server port	Device Manager server port number
dm.push_enable		Device Manager push enable	0	Checkbox to enable/disable	Device Manager CRL (Certification Revoke List) usage	1=yes, 0=no
dm.push_interval		Device Manager push interval [sec]	120	number	Device Manager push interval	DM data "push" cycle / interval value in seconds
dm.cert		Device Manager certificate bank	0	Number	Device Manager certificate bank selection	1=yes, 0=no
dm.use_crl		Device Manager CRL usage	0	Checkbox to enable/disable	Device Manager CRL (Certification Revoke List) usage	1=yes, 0=no
dm.verify		Device Manager certification verification	0	SELECTION	Transparent mode certificate verification	0=Not, 1=Optional, 2=Mandatory
dm.ca_cert		Device Manager CA certificate bank	0	Number	Device Manager CA certificate bank selection	1=yes, 0=no
ntp.address		NTP Server IP Address	-	IP address	IP Address of NTP Time synch server	Server address of NTP time synchronisation
ntp.port		NTP Server port	0	Port number	Port of NTP Time synch server	Server port nr. of NTP time synchronisation
ntp.interval		NTP server synchronisation interval (sec)	10	seconds	Time synchronisation refresh interval	Cycle of NTP time synchronisation

ntp.timeout		NTP server synchronisation timeout (sec)	10	seconds	Timeout for NTP synch attempt - after this period the NTP sync attempt will be stopped	Timeout of NTP time synchronisation
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2. Push mode

2.1 The definition of "Push" method

The modem isn't always registered to GPRS network, the connection initiated by external events as:

- SMS from data center
- change of meter status register
- preprogrammed intervals

2.2 Passive FTP upload

Configuration in DMSet:

- GPRS always ON : unchecked
- ping IP-address host : host, user, password: <ftp://username:password@host/path>
- use IRA character set

Configuration File:

- smp.always_on = 0
- conn.ping_host = <ftp://username:password@host/path>
- smp.connect_interval = 28800
- smp.connect_start = YYYYMMDDWWHHmmSS wildcard=FF
- csd.password = <max. 16 characters>
- apn name: 50 char
- apn user, pass : 30 char
- if the ftp port is different from nr. 21, eg. 1021, please use the following syntax:
<ftp://username:password@host:1021/path>
- maximum size of data block for IEC /?! readout is 16kbytes.
- Filename is generated from meter serial number, date, time, and a incremented counter

File name convention example:

filename: SN<meter_serial_number>_YYYYMMDD_hhmmss_<4-digit_counter>.TXT

SN12345678_YYYYMMDD_hhmmss_0001.TXT

Trigger 1: status register change, new event

Trigger 2: timed

- smp.connect_interval in seconds, def 28800 max 0xFFFFFFFF
- counted in NV-ram, cleared if NV invalid or setting changed

OR

- synchronised smp.connect_start
- Connect start time format: YYYYMMDDWWHHmmSS

Where: Y = Years, M = Months, D = Days

W = Day of week, where 01 is Monday and 07 Sunday.

H = Hours, m = Minutes, S = Seconds

- Wildcards FF are allowed, Numbers are hex formatted

Trigger 3: SMS using csd.password, IRA character set (ITU T.50)

or a subset of this defined by DMSet.

pw=<csd.password>.cmd=/?!

SMS message is checked for valid password.

if no password: pw=.cmd=/?!

The cmd will be executed, and the result will be uploaded to the ftp server.

There is no positive or negative acknowledgement for the execution of the SMS.

Note that the DMSet SW is not intended to send the SMS.

2.3 Data encryption

If AES128 encryption is selected and encryption key is set, the data written to the file are encoded by AES algorithm in data blocks eg. 64 bytes.

The data is padded with zeroes at the end before encoding.

Chapter 3. Support

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

Email: support@m2mserver.com

Phone: +36 20 333-1111

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

Chapter 4. Legal notice

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Warning

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