



WM Systems LLC

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WM-E8S (Standard version) - Parameter Description v2.60
v5.x firmware

Configuration File Parameter Name	WM-E Term Parameter Group	WM-E Term Parameter Name	Default value (Recommended factory default values)	Measurement unit/entry type	Comment	Description for the Customer
ei_client_type	AMM (EC)	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 (E/Server) IP address (ftp client ip)	Here you can define the remote server's IP address where the data will be transmitted through the wireless networks.
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 - E authentication - you have to define the username / password
ei_client_port		Server port	0	Port number	AMM (E/Server) 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 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_top_keepalive		EI client TCP keep alive	10	minutes	EI client TCP keep alive (in minutes)	Keep the E client connection alive for the defined time range
eventpush_addr		Event push address	-	Phone nr. Or IP address	Destination IP address of alarm push (SMS/FTP/UDP)	Add the notification phone number or IP address to the Event push address field in international format.
eventpush_sms_text	Event push notification 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 notification 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_notify	Event push event notification type	Last GsmP	SELECTION	Event push notification type will be chosen / operated by the selected value	1=Last GsmP, 2=Input change, 4=CDMA, 8=Debug	
eventpush_sms_lost_text	Event push Power Loss notification	Power loss	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	Event push Power Return 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.	
datapush_host	Data push host	-	ftp path/URL with credentials	Data push address (for SMS/FTP/UDP)	FTP server address and connection parameters - as protocol, IP address as user and password.	
datapush_iec_address	Data push IEC meter address	-	IP address	Data push IEC meter address (source meter address)	FTP server IP address - usage: datapush_host + protocol://user:password@ftp.address:port 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_iec_readout_baudrate	Data push IEC readout speed	-	SELECTION	Data push IEC readout speed	Data push IEC readout baudrate Values: 2400, 4800, 9600, 19200	
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	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	86400	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)	
datapush_retry_delay	Data push retry delay	60	seconds	Data push retry delay(s)	Data push delay between retries. Value in seconds.	
datapush_table_mask	Data push T1-T3 table mask	T1	SELECTION	Data push T1-T3 table mask	Data push - Mask for signing tariff tables to be pushed Values: 1-T1, 16-T2, 33-T3	
datapush_periodic	Data push cycle period	5	minutes	Data push cycle period	Data push period (cycle) - interval alternative in fixed format. Values: (table, 1 min, 5 min, 10 min, 15 min, 30 min, 1 hour, 1 day)	
datapush_prefix	Data push filename prefix	-	string	Data push filename prefix	Data push file name prefix (etc. WM115)	
ntp_address	NTP server IP address	-	IP address	NTP server address	NTP server IP address	
ntp_port	NTP server port	-	Port number	NTP server port	NTP server port number	
ntp_interval	NTP synchronization interval	600	seconds	NTP synchronization interval	NTP time sync interval. Value in seconds	
ntp_timeout	NTP synchronization timeout	60	seconds	NTP synchronization timeout	NTP time sync timeout. Value in seconds	
ntp_timezone	NTP synchronization Time Zone (UTC +1:30; -1:30)	-	SELECTION	NTP synchronization Time Zone (UTC +1:30; -1:30)	NTP synchronization Time Zone (UTC +1:30; -1:30)	
snmp_trap	SNMP trap if not receiving DC power	-	Checkbox to enable/disable	SNMP trap if not receiving DC power	*Only in case of using SNMP Manager	
snmp_user	SNMP username	-	text	SNMP username	*Only in case of using SNMP Manager	
snmp_auth_key	SNMP authentication key	-	text	SNMP authentication key	*Only in case of using SNMP Manager	
snmp_priv_key	SNMP private key	-	text	SNMP private key	*Only in case of using SNMP Manager	
snmp_manager_ip	SNMP manager IP	0	IP address	SNMP manager IP	*Only in case of using SNMP Manager	
snmp_manager_port	SNMP manager port	0	number	SNMP manager port	*Only in case of using SNMP Manager	
snmp_version	SNMP version	3	SELECTION	SNMP version	*Only in case of using SNMP Manager (2+V3)	
snmp_auth_algo	SNMP authentication algorithm	0	SELECTION	SNMP authentication algorithm	*Only in case of using SNMP Manager (No authentication algorithm, 2+MD5, 2+SHA)	
snmp_priv_algo	SNMP private algorithm	0	SELECTION	SNMP private algorithm	*Only in case of using SNMP Manager (No private algorithm, 2+DES, 2+3DES)	
com_apn_name	APN Name	wm2m	name (text, APN allowed chars)	APN Name	APN Name - ask your mobile operator for the GSM	
com_apn_username	APN Username	-	name (text, APN allowed chars)	APN Username	APN Username - if you mobile operator / APN requires	
com_apn_pass	APN Password	-	password	APN Password	APN Password - if you mobile operator / APN requires	
com_auto_user	Create APN username automatically	0	Checkbox to enable/disable	Create APN username automatically	0 = off implemented, 1 = not implemented in standard FW * Not used	
com_auto_pass	Create APN password automatically	0	Checkbox to enable/disable	Create APN password automatically	0 = off implemented, 1 = not implemented in standard FW * Not used	
com_apn_auth	APN preferred Authentication Protocol	0	SELECTION	APN preferred Authentication Protocol	0=NONE, 3=APN, 2=CHAP, 3=PPP / CHAP	
pdp_delay	PDP connection establishment delay (min)	0	minutes	Wait time before PDP activation*	Delay	
pdfoff_auth_user	PDP APN Name	-	READ ONLY	PDP APN Name	Status value	
pdfoff_auth_pass	PDP APN Password	-	READ ONLY	PDP APN Password	Status value	
lastimei	IMEI Address	-	READ ONLY	IMEI Address	Status value	
lasticc	ICC Identifies	-	READ ONLY	ICC Identifies	Status value	
lastmodel	TELT module type	-	READ ONLY	TELT module type	Status value	
lastrevision	TELT module firmware version	-	READ ONLY	TELT module firmware version	Status value	
snrp_always_on	GPRS is always ON	1	Checkbox to enable/disable	Connects to GPRS 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 ON) Values: 1 = on, 0=off value for triggering only	
snrp_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	
snrp_connect_start	Start GPRS connection [HH:MM:SS]	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 "FFFFFFFF" - is the date Second part "000000" - is the HH:MM:SS time format	
snrp_connect_interval	Additional delay interval before alarm push	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	
snrp_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	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 downloading the 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	
fw_server_key	AES-256 key for downloading the config and firmware	-	Key	AES-256 key for downloading the config and firmware	Insert key if required	
fw_server_encrypt	Use AES-256 CBC encryption	0	Checkbox to enable/disable	Use AES-256 CBC encryption	Enable the AES-256 encryption methodology if you want	
com_max_retries	Number of GPRS connection attempts until module reset	15	number	Number of GPRS connection attempts till module-reset	Number of maximum GPRS (PDP) connection attempts till module-reset	
com_retry_delay_rewind	Waiting time until next try	1	seconds	Waiting time until next network connection attempt*	If the PDP context activation was not successful, then it will wait until for the defined interval to the re-activation If that reached the end of the Times(s) [secs] between „GPRS connection attempts“ parameter value timeout, it goes back to the list, otherwise it is not used. * not implemented	
com_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	
com_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 successful, it will delay the reconnection according to the listing	
com_ping_host	Watchdog Check IP address	-	IP address	Watchdog Check IP address to ping	IPV4 address to ping (for checking the cellular connection health)	
com_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	
com_ping_timeout	Ping wait-time (for next cycle)	15000	milliseconds	Ping wait-time (for next cycle)	Timeout of ping interval (for checking the cellular network availability)	
com_ping_interval	Ping wait-time (for next cycle)	86400	seconds	Ping wait-time (for next cycle)	Interval (wait time) between ping cycles, time interval until the next ping sequence occurring (for checking the cellular network availability)	
com_no_network_timeout	Timeout at GPRS login fail	30	minutes	Timeout at GPRS login fail	Timeout when GPRS (PDP) login fails - tolerance interval of PDP connection establishment error	
snrp_bis_timeout	Wait-time until module-reset (hours)	24	hours	Module restart after this interval	Module restart after this interval	
snrp_restart_time	Modem daily restart at [HH:MM]	-	HH:MM	Daily restart on a fix, parametrised time, HH:MM	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.	
com_reconnect_interval	GPRS connection will be closed and restored after this time	0	seconds	GPRS connection will be 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 out 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. Note that if you set this parameter to a low value that can cause frequent network reconections. 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 time the number of times a modem can log on to the network in a given time).	
snrp_restart_time_shift	Daily restart time frame window	-	minutes	Daily restart time frame window	Default value: 0	
com_dis_connect	Disable Service Session (DTTA)	0	Checkbox to enable/disable	Disable Service Session (DTTA)	Enable/disable DTTA services	
com_dis_apn_name	APN name for device services session	-	name (text, APN allowed chars)	APN name for device services session (FTP OTA)	Tells module FOTA support	
com_dis_apn_user	APN user name for device services session	-	username (text, numbers)	APN user name for device services session (FTP OTA)	APN user name - ask your mobile operator for the GSM	
com_dis_apn_pass	APN password for device services session	-	password	APN password for device services session (FTP OTA)	APN Username - if you mobile operator / APN requires Tells module FOTA support APN Password - if you mobile operator / APN requires	

com.dns_w46	WATCHDOG (FOTA)	Cellular network access technology selection (LTE, 3G, 2G mode) for FOTA	25	special syntax	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" values.</p> <ul style="list-style-type: none"> * Current setting is not changed" - Value: 1 * "CAT M2" - Value: 0 * "NB-IoT" - Value: 1 * "Cat-M1 and NB-IoT" - Value: 2 * "3G only" - Value: 12 * "3G only" - Value: 22 * "All available access technology (Default)" - Value: 25 * "LTE only" - Value: 28 "Fallback on LTE Cat.1 modems * "3G with Fallback to 2G" - Value: 29 * "LTE with Fallback to 2G" - Value: 30 * "LTE with Fallback to 3G" - Value: 31 <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>For LTE 4G modems we offer to choose the "LTE with Fallback to 2G" 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 successful technology.</p>
com.dns_fpoata_retry		Retry count of FOTA process	0	number	FTP Firmware refresh (FOTA) retry	Module FOTA support FTP firmware refresh retry numbers
com.dns_fpoata_par		Server address, filename and path	-	ftp path/URL with credentials	FTP OTA parameters (FTP host, user/pass, path, filename)	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
com.dns_fpoata_status		Status of the update process	-	READ ONLY	Status of the update process	Module FOTA support Status information of the current FTP OTA status
emp_reboot		Reboot the device	0	Checkbox to enable/disable	Reboot the device	Enable or disable device reboot
com.at_wmbms	MOBILE NETWORK	Band frequency configuration	-1	list code	Band frequency configuration according to the selected cellular network access technology	<p>WMBS tab: 2G, 3G, LTE... access cellular network technology selection.</p> <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" values.</p> <ul style="list-style-type: none"> * Current setting is not changed" - Value: 1 * "CAT M2" - Value: 0 * "NB-IoT" - Value: 1 * "Cat-M1 and NB-IoT" - Value: 2 * "3G only" - Value: 12 * "3G only" - Value: 22 * "All available access technology (Default)" - Value: 25 * "LTE only" - Value: 28 "Fallback on LTE Cat.1 modems * "3G with Fallback to 2G" - Value: 29 * "LTE with Fallback to 2G" - Value: 30 * "LTE with Fallback to 3G" - Value: 31 <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>For LTE 4G modems we offer to choose the "LTE with Fallback to 2G" 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 successful technology.</p>
com.in_cid		Type of call	0	SELECTION	Type of incoming calls when no incoming bearer is specified. Bearer type of incoming calls when no incoming bearer is specified	It is necessary for CBST and CSNS commands CIDB tab.
com.in_rings		Number of rings before accept a call (CSID)	3	number	Number of ring attempts	Values: 0-255 Wait for the defined number of rings before accepting the data call (CSID)
com.password		Password for CHD call	-	password	Password for CHD call (login pass for call and SMS)	Login pass for call and SMS
com.sim_pin_code		SIM PIN code	-	PIN code	PIN number (DIM eSIM)	PIN code of the SIM card - ask your mobile provider
com.sim_at_cops		Provider selection mode (roaming)	-	SELECTION	Provider selection mode (roaming)	Cellular network provider change parameter. Syntax in file: module, format, operator
com.emp		Incoming voice calls receiving as data calls (CSID)	0	Checkbox to enable/disable	Incoming voice calls will be received as data calls (CSID)	Incoming voice calls will be received as data calls (CSID)
calendar_dst_begin	CALENDAR	Daylight saving time	FFFFF07D3000003C	Date/Time	Start daylight saving (summer) - DST start date/time	Start date of daylight saving (summer) in hexadecimal format
calendar_dst_end		Standard time	FFFFF07D30000078	Date/Time	End daylight saving (winter) - DST end date/time	End date of daylight saving (winter) 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 - No, 1 - On
calendar_dst_deviation		Offset daylight saving time	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		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
led5		Meaning of LED 5	30	SELECTION	Meaning of LED 5	LED tab - selecting the nr. of LED meaning in the LED selection list
led6		Meaning of LED 6	2	SELECTION	Meaning of LED 6	LED tab - selecting the nr. of LED meaning in the LED selection list
emeter_date_format		Date format for read out	YYMMDD (Read Ohv)	Date	IE date format for readout (YYMMDD)	Date format / syntax for readout (YYMMDD)
emeter_version	STANDARD METER INTERFACE	Version number of config file	-	Text	Version number of config file	*Not used
emset.am100.typekey		Type key of AM100 corresponding to the name plate	-	Text	Type key of AM100 corresponding to the name plate	*Not used
emunit		Meter interface unit values	-	-	WM-E2S meter interface settings*	* Not used
fw_3server_baud		Configuration Port Setting (Baudrate)	-	SELECTION	Configuration interface speed rate and operation mode	Values (Baud): 9600, 14400, 19200, 28800, 38400, 57600, 115200 * Available only for WM-E2S 7MB modem
em_relay		Tariff Mode Selection	-	SELECTION	Tariff Mode Selection / Relay control for e-meter	Values: 0-None, 10-1R, 20-1T, 30-1T2, 40-1T * Only for WM-E2S 8 Relay version
emp.mz_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		Transparent mode TLS enable	1	Checkbox to enable/disable	Enable TLS encrypted communication	En. TLS disabled & TLS enabled
tm.modselect		Data format for meters	0	SELECTION	Data format for meters	DMES: 1-Optional, 2-Mandatory
tm.cert	TRANSP / NTA	Transparent mode certificate bank select	0	Number	Transparent certificate bank selection	Values: 0-None, 10-1R, 20-1T, 30-1T2, 40-1T, 50-1T1 * Only for WM-E2S 8 Relay version
tm.use_crl		Transparent mode CRL usage	0	Checkbox to enable/disable	Transparent mode CRL (Certificate Revolve List) usage	1-Yves, 0-No
tm.ca_cert		Transparent CA certificate bank select	0	Number	Transparent CA certificate bank selection	1-Yves, 0-No
tm.baud		Meter port baud rate (for transparent mode and meter readout)	9600	SELECTION	E-meter serial port speed (during readout)	Values (in bps) can be: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 56100, 115200
tm.verify		Transparent mode certificate verification	0	SELECTION	Transparent mode certificate verification	Recommended: 9600 (bps)
tm2.port	SECONDARY TRANSPARENT	Secondary transparent port	9002	Port number	Secondary transparent socket port	Values: 1-Optional, 2-Mandatory
tm2.baud		Secondary transparent baudrate	2418	SELECTION	Secondary transparent baudrate	Values (in bps) can be SELECTED: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 56100, 115200 on WM-E 8 Form. The value MUST NOT modified directly in the configuration file! *Only used by WM-E2S MBUS Modems
dcd.mode	RS485	DCD mode	3	SELECTION	to configure DCD control mode	Available DCD modes: 0-DirX 0, 1-DirX 1, 2-Standard, 3-Inverted
rs485.mode		RS485 mode	0	SELECTION	RS485 wiring type	0-RS232 only, 1-2-wire RS485, 2-4-wire RS485
dm.tls_enable		Device Manager TLS enable	0	Checkbox to enable/disable	Device Manager TLS enable	1-Yves, 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 CH (Certification Revolve List) usage	1-Yves, 0-No
dm.push_interval		Device Manager push interval [sec]	120	number	Device Manager push interval	DIM data "push" cycle / interval value in seconds
dm.cert		Device Manager certificate bank	0	Number	Device Manager certificate bank selection	1-Yves, 0-No
dm.use_crl		Device Manager CRL usage	0	Checkbox to enable/disable	Device Manager CH (Certification Revolve List) usage	1-Yves, 0-No
dm.verify		Device Manager certification verification	0	SELECTION	Transparent mode certificate verification	0-None, 1-Optional, 2-Mandatory
dm.ca_cert		Device Manager CA certificate bank	0	Number	Device Manager CA certificate bank selection	1-Yves, 0-No
ntp.address	NETWORK PROTOCOLS	NTP Server IP Address	-	IP address	IP address of NTP time sync server	Server address of NTP time synchronization
ntp.port		NTP server port	0	Port number	Port of NTP time sync server	Server port nr. of NTP time synchronization
ntp.interval		NTP server synchronization interval [sec]	30	seconds	Time synchronization refresh interval	Cycle of NTP time synchronization
ntp.timeout		NTP server synchronization timeout [sec]	10	seconds	Timeout for NTP sync attempt - after this period the NTP sync attempt will be stopped	Cycle of NTP time synchronization