

## STE2 r2 / WLD2 / SD devices XML description

<Root>	
<b>Information Section</b>	
<Agent>	– Read only device parameters group
<XmlVer>2.00</XmlVer>	– XML file version (Read only)
<Version>1.4.4</Version>	– Device firmware version (Read only)
<Build>3376</Build>	– Build of Device firmware version (Read only)
<BuildTime>Oct 13 2017, 13:45:02</BuildTime>	– Compile firmware time (Read only)
<ConfigSaveTime>1632988167</ConfigSaveTime>	– Timestamp of the last configuration change (Read only)
<UpTime>669699</UpTime>	– Total running time since last restart (Read only),
<Model>78</Model>	– Technical device type – available also over UDP Setup (5 chars) – internal information for HW group (Read only),
<ProductName>STE2</ProductName>	– Product name – internal information for HW group (Read only),
<SerialNumber>6006512771</SerialNumber>	– Serial number (Read only),
<EthMAC>00:0A:59:04:7D:AE</EthMAC>	– Unique device MAC address for ethernet interface (Read only),
<WifiApMac>00:0A:59:04:7D:AF</WifiApMac>	– Unique device MAC address for WiFi interface (Read only),
<WifiStaMac>00:0A:59:04:7D:B1</WifiStaMac>	– Unique device MAC address for WiFi AP interface (Read only for future use),
</Agent>	
<Cmd/>	
<b>HTTPS Certificate</b>	
<SSLCert>	– Read / write device parameters group
<Entry>	
<ID>1</ID>	– ID for SSL certificate (Read only)
<Name>SSLCertificateFile</Name>	– Type of SSL Certificate file (Read only)
<Filename>file.crt</Filename>	– name of certificate file (Read / write)

</Entry>	
<Entry>	
<ID>2</ID>	– ID for SSL private key (Read only)
<Name>SSLCertificateKeyFile</Name>	– Type of SSL private key file (Read only)
<Filename>file.key</Filename>	– name of private key file (Read / write)
</Entry>	
<Entry>	
<ID>3</ID>	– ID for CA certificate (Read only)
<Name>SSLCACertificateFile</Name>	– Type of SSL CA certificate file (Read only)
<Filename>*.pem</Filename>	– name of CA certificate file (Read / write)
</Entry>	
</SSLCert>	
<b>Configuration and Services Section</b>	
<System>	
<upgrade_server>http://www.hw-group.com/download/fw/version/ste2rev2_sd_dev.js</upgrade_server>	– Fully URL for information about latest firmware version - for remote upgrade (Read only),
<www_update_period>1</www_update_period>	– Automatic update period in seconds. 0=> disabled (Read / Write),
<dbglog_enable>0</dbglog_enable>	– Enable debug log – for internal use only (Read only)
</System>	
<dhcp>1</dhcp>	– 0/1 – Enable DHCP, when enabled show assigned IP values,
<sys_unit>1</sys_unit>	– 1/2/3 – Switching between different temperature units (1 – Celsius, 2 – Fahrenheit, 3 – Kelvin) (Read / Write),
<devicename>HWg Online demo</devicename>	– Device name – User configurable, Identical with <SysName> value, here read only (64 chars) (Here read only, change in <Network> part of XML),
<hostname>HWgOnlinedemo</hostname>	– Hostname – User configurable, for using in corporate networks
<ip_address>10.0.0.15</ip_address>	– IP address of the device (Read only when DHCP enabled),

<ip_mask>255.255.255.0</ip_mask>	– Value of the IP subnet mask (Read only when DHCP enabled),
<ip_gateway>10.0.0.1</ip_gateway>	– IP address of the Gatteway (Read only when DHCP enabled),
<dns1>10.0.0.1</dns1>	– Primary DNS server (you have to set DNS server as IP address) (Read only when DHCP enabled),
<dns2>10.38.0.4</dns2>	– Secondary DNS server (Read only when DHCP enabled),
<porthttp>80</porthttp>	– Internal device WEB server HTTP port (Read / Write),
<porthttps>443</porthttps>	– Internal device WEB server HTTPS port (Read / Write),
<username>xxx</username>	– username for accessing to the webinterface of devices (Read / Write),
<password>xx</password>	– password for accessing to the webinterface of devices (Read / Write),
<www_info_text>STE2: For more information try <a href="http://www.HW-group.com" target="_blank">www.HW-group.com</a></www_info_text>	– User definable contact message, HTML code support (max 254 chars) (Read / Write),
<rest_period>0</rest_period>	– Periodic restart time (0 - Off, 1 - 1 Hour, 24 - 1 Days, 48 - 2 Days, 168 - 7 Days, 336 - 14 Days, 672 - 28 Days) (Read / Write),
<statusPeriod>0</statusPeriod>	– Period Status Message - Only for WLD2 devices
<demomode>1</demomode>	– 0/1 – Enable Demo mode, when are disabled all forms elements,
<DemoPass/>	– password for enable/disable Demo mode
<DemoRePass/>	– repassword for enable/disable Demo mode
<Snmp>	– MIB II settings
<sys_name>STE2</sys_name>	– MIB's database name (64 chars) Identical with item <DeviceName>, here (Read / Write),
<sys_contact>STE2: For more information try http://www.HW-group.com</sys_contact>	– MIB's administrator e-mail (64 chars) (Read / Write),
<sys_location/>	– MIB's system database placement (64 chars) (Read / Write),
<snmp_port>161</snmp_port>	– SNMP pooling port settings (Read / Write),
<snmp_access id="1">	– SNMP access settigs
<comm>public</comm>	– Community name (32 chars) (Read / Write),
<enable>1</enable>	– Enable / Disable comunity (0/1) (Read / Write),

<read>1</read>	– Read access (0/1) (Read / Write),
<write>1</write>	– Write access (0/1) (Read / Write),
</snmp_access>	
<snmp_access id="2">	
<comm>private</comm>	
<enable>1</enable>	
<read>1</read>	
<write>1</write>	
</snmp_access>	
</Snmp>	
<Smtp>	– E-mail settings
<smtp_server>some.smtp.server</smtp_server>	– DNS address or IP address of remote SMTP server (40 chars) (Read / Write),
<smtp_source_addr>proyectos@arc.com.co</smtp_source_addr>	– Email address of sender (40 chars) (Read / Write),
<smtp_port>25</smtp_port>	– Port for communication with remote SMTP server (Read / Write),
<smtp_subject>subject</smtp_subject>	– Subject of Email message (50 chars) (Read / Write),
<smtp_username/>	– SMTP authentication Login name (40 chars) (Read / Write),
<smtp_password/>	– SMTP authentication Password (20 chars) (Read / Write),
<smtp_ssl>0</smtp_ssl>	– SMTP TLS server Autentisation (0 = Basic, 1 = TLS) (Read / Write),
<smtp_auth>0</smtp_auth>	– SMTP server Autentisation (0 = not required, 1 = required) (Read / Write),
<smtp_format_email>0</smtp_format_email>	– Uses html to format email message body. (0 = plain text, 1 = HTML) (Read / Write),
<smtp_importance>0</smtp_importance>	– E-mail Important (0 = not required, 1 = required) (Read / Write),
<smtp_test_email>email@domain.com</smtp_test_email>	– Email for testing (Read / Write),
</Smtp>	
<sms>	– SMS settings
<enable>0</enable>	– Enable/disable SMS-GW support (1/0) (Read / Write),
<address/>	– DNS address or IP address of remote HWg-SMS-GW (40 chars) (Read / Write),

<port>80</port>	– TCP port of remote HWg-SMS-GW (40 chars) (Read / Write),
<sms_username/>	– Username for authorization of remote HWg-SMS-GW (40 chars) (Read / Write),
<sms_password/>	– Password for authorization of remote HWg-SMS-GW (40 chars) (Read / Write),
</sms>	
<Sntp>	– Time settings
<sntp_period>1</sntp_period>	– Time period for automatic time synchronizations (0- Disabled, 1 - 1hour, 24 - 24hour) (Read / Write),
<sntp_timezone>1</sntp_timezone>	– Hours of timezone shift (Read / Write),
<sntp_timezone_min>0</sntp_timezone_min>	– Minuts of timezone shift (0-0minuts, 15-15minuts, 30- 30 minuts, 45 -45 minuts) (Read / Write),
<sntp_summertime>1</sntp_summertime>	– Enable/disable summertime support (1/0) (Read / Write),
<sntp_server>europe.pool.ntp.org</sntp_server>	– DNS addres or IP address of SNTP server (time server) (40 chars) (Read / Write),
<sntp_dst_zone>0</sntp_dst_zone>	– Sumertime zone (0 - Central European, 1 - United state, 2 - Australia Eastern) (Read / Write),
<Time>10:11:06</Time>	– Current time (Read only),
<Date>06.02.2018</Date>	– Current date (Read only),
</Sntp>	
<b>Input and Sensor Section</b>	
<sensor id="2594">	– Entry identification, ID address of the sensor (Read only)
<SenId>26220a570520086c</SenId>	– Full 1-Wire ID address of the sensor (Read only), 1-Wire Sensor ID is unique
<SenName>Sensor 2594</SenName>	– Defined name of the sensor (text string, 15 chars) (Read / Write),
<SafeRangeLow>30.0</SafeRangeLow>	– SafeRange minimal limit (Read / Write),
<SafeRangeHi>80.0</SafeRangeHi>	– SafeRange maximal limit (Read / Write),
<Hyst>10.0</Hyst>	– Hysteresis (non sensitivity range) value (Read / Write),
<Unit>4</Unit>	– Unit of send value (1 - temperature, 4 - Humidity) (Read / Write),
<Exp>0</Exp>	– Exponent of send value (Read / Write),

<ap_delta>5.0</ap_delta>	– AutoPush is a function allowing sending of measured data in case of value increase/decrease larger than AutoPush delta parameter. (Read / Write),
<AlarmMsgRecipID>1</AlarmMsgRecipID>	– ID of alarm target group (Read / Write),
<outputID>0</outputID>	– ID connected output - Only for WLD2 devices (Read / Write),
<alarmDelay>0</alarmDelay>	– Alarm Trigger Delay [s] (Read / Write),
<enabled>1</enabled>	– Enabled/disabled channel in WLD2 devices (Read / Write),
</sensor>	
<sensor id="3594">	
<SenId>26220a570520086d</SenId>	
<SenName>Sensor 2595</SenName>	
<SafeRangeLow>30.0</SafeRangeLow>	
<SafeRangeHi>80.0</SafeRangeHi>	
<Hyst>10.0</Hyst>	
<Unit>4</Unit>	
<Exp>0</Exp>	
<ap_delta>5.0</ap_delta>	
<AlarmMsgRecipID>1</AlarmMsgRecipID>	
<outputID>0</outputID>	
<alarmDelay>0</alarmDelay>	
<enabled>1</enabled>	
</sensor>	
<input id="1">	– Binary dry contact inputs (next only "Binary input") (Read only),
<name>Input 1</name>	– Defined name of the input (text string, 20 chars) (Read / Write),
<cfg_alarm>1</cfg_alarm>	– Defined Alarm state for inputs (0 - disabled, state Alarm will never happen, 1 - Alarm when inputs is closed, 2 - Alarm when inputs is opened) (Read / Write),

<state0_name>Open</state0_name>	– User defined name for state logical 0 (opened) (Read / Write),
<state1_name>Closed</state1_name>	– User defined name for state logical 1 (closed) (Read / Write),
<AlarmMsgRecipID>1</AlarmMsgRecipID>	– ID of alarm target group (Read / Write),
<alarmDelay>0</alarmDelay>	– Alarm Trigger Delay [s] (Read / Write),
</input>	
<input id="2">	
<name>Input 2</name>	
<cfg_alarm>1</cfg_alarm>	
<state0_name>Open</state0_name>	
<state1_name>Closed</state1_name>	
<AlarmMsgRecipID>1</AlarmMsgRecipID>	
<alarmDelay>0</alarmDelay>	
</input>	
<outputs></outputs>	
<Alarms>	
<Alarm id="1">	– Alarm ID groups
<Dest id="1">	– Destination sets ID
<Type>1</Type>	– Type of destination target (1 – E-mail, 2 – SMS, 3 – SNMP Trap (only for WLD2 devices)) (Read / Write),
<addr>email1@some.cz</addr>	– Destination of target (e-mail address, SMS number etc) (Read / Write),
<snmp_comm></snmp_comm>	– SNMP trap Community (40char only for WLD2 devices) (Read / Write),
<port>0</port>	– SNMP trap port (only for WLD2 devices) (Read / Write),
<call>0</call>	– Ringing enable (0/1) (Read / Write),
</Dest>	
<Dest id="2">	
<Type>1</Type>	

<addr>email2@some.cz</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Dest id="3">	
<Type>2</Type>	
<addr>+420987654321</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Dest id="4">	
<Type>2</Type>	
<addr>+420123456789</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Alarm>	
<Alarm id="1">	
<Dest id="1">	
<Type>1</Type>	
<addr>email1@some.cz</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	



</Dest>	
<Dest id="2">	
<Type>1</Type>	
<addr>email2@some.cz</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Dest id="3">	
<Type>2</Type>	
<addr>+420987654321</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Dest id="4">	
<Type>2</Type>	
<addr>+420123456789</addr>	
<snmp_comm></snmp_comm>	
<port>0</port>	
<call>0</call>	
</Dest>	
<Alarm>	
<Alarms>	
<b>WiFi and Portal Section</b>	
<Wifi>	– WiFi settings
<wifi_enable>1</wifi_enable>	– Enable/Dislable WiFi (Read / Write),

<wifi_ssid>Poseidon</wifi_ssid>	– SSID WiFi networks (Read / Write),
<wifi_password>*****</wifi_password>	– Password for authentication to the WiFi networks (Read / Write),
<wifi_bssid></wifi_bssid>	– BSSID Connected WiFi networks (MAC address connected WiFi AP) (Read / Write),
<wifi_ip_address>192.168.1.91</wifi_ip_address>	– WiFi IP address of the device (Read only when WiFi DHCP enabled)
<wifi_ip_mask>255.255.255.0</wifi_ip_mask>	– Value of the WiFi IP subnet mask (Read only when WiFi DHCP enabled)
<wifi_ip_gateway>192.168.1.1</wifi_ip_gateway>	– WiFi IP address of the Gateway (Read only when WiFi DHCP enabled)
<wifi_dns1>192.168.1.1</wifi_dns1>	– WiFi Primary DNS server (you have to set DNS server as IP address) (Read only when WiFi DHCP enabled)
<wifi_dns2>0.0.0.0</wifi_dns2>	– WiFi Secondary DNS server (Read only when WiFi DHCP enabled)
</Wifi>	
<Portal>	– Portal (Sensdesk) settings
<PushEnable>1</PushEnable>	– Enabled or disabled the portal function (Read / Write),
<ServerAddress>http://sensdesk.com/portal.php</ServerAddress>	– Full URL of the remote server (Read / Write),
<PortalPort>80</PortalPort>	– Portal listening port (Read / Write),
<portal_user>1 2tfwjg==</portal_user>	– Team name assigns the device to a Team account. Provided by a portal administrator (Read / Write),
<portal_pass>1 2tfwjg==</portal_pass>	– Provided by a portal administrator together with a username (Read / Write),
<PushPeriod>900</PushPeriod>	– Period of sending the data to a remote server. This value is being set by a portal. (Read / Write),
<LogPeriod>300</LogPeriod>	– Period of logging the data for Push. This value is being set by a portal. (Read / Write),
<AutoPush>0</AutoPush>	– Enabled or disabled the AutoPush function (Read / Write),
</Portal>	
<b>Calibration section</b>	
<Calibration>	– Calibration (shift of value) settings
<Enable>0</Enable>	– Enabled or disabled the calibration function (Read / Write),

<CalibEntry id="1">	
<SenId/>	– Full 1-Wire ID address of the sensor
<Offset>0.0000</Offset>	– Sensors calibration shift value (Value = Raw sensor value + Calib) (Read / Write),
<unit>mA</unit>	– Target unit after conversion (SD-4-20mA only) (Read / Write),
<exponent>0</exponent>	– Target Exponent after conversion (SD-4-20mA only) (Read / Write),
<point id="1">	– 8-point calibration table (SD-4-20mA only),
<from>0.0</from>	– Default measured value (SD-4-20mA only) (Read / Write),
<to>0.0</to>	– Target displayed value (SD-4-20mA only) (Read / Write),
<active>0</active>	– Activation / deactivation of the calibration point (SD-4-20mA only) (Read / Write),
<INA233calibration>3355</INA233calibration>	
</point>	
</point>	
</Entry>	
</CalibEntry>	
</Calibration>	
<power4_20mA>0</power4_20mA>	– Enable power for current loop 4-20mA (Only for SD-4-20mA) (Read/Write),
<wifi-modem>	– Diagnostic information of WiFi (Read only),
<wifi_cur_ssid>Poseidon</wifi_cur_ssid>	– Current WiFi SSID (Read only),
<wifi_cur_bssid>FC:EC:DA:3E:39:E6</wifi_cur_bssid>	– Current WiFi BSSID (Read only),
<wifi_cur_rssi>-79</wifi_cur_rssi>	– Current WiFi RSSID (Read only),
<wifi_cur_channel>6</wifi_cur_channel>	– Current WiFi Channel (Read only),
<wifi_cur_state>Connected</wifi_cur_state>	– Current WiFi State (Read only),
<wifi_cur_protocol>Up</wifi_cur_protocol>	– Current WiFi protocol (Read only),
<wifi-modem>	
</Root>	

