

SMS **GW**

Safety information

The device complies with regulations and industrial standards in force in the Czech Republic and the European Union. The device has been tested and is supplied in working order. To keep the device in this condition, it is necessary to adhere to the following safety and maintenance instructions.

Never remove the device cover if the relay terminals are connected to the electrical network!

Using the device in a manner other than prescribed by the manufacturer may cause its safeguards to fail!

The power supply outlet or disconnection point must be freely accessible.

The device must not be used in particular under any of the following conditions:

- The device is noticeably damaged
- The device does not function properly
- Unfastened parts can move inside the device
- The device has been exposed to moisture or rain
- The device has been serviced by unauthorized personnel
- The power adapter or power supply cable are noticeably damaged
- If the device is used in a manner other than designed for, the protection provided by the device may fail.
- The local electrical system must include a power switch or a circuit breaker and overcurrent protection.

The manufacturer warrants the device only if it is powered by the supplied power adapter or an approved power supply.

If you have any problems with installing or operating the device, please contact technical support:

HW group s. r. o.

<http://www.hw-group.com>

E-mail: support@HWg.cz

Phone: +420 222 511 918

Formanská 296

Prague, 149 00

Czech Republic

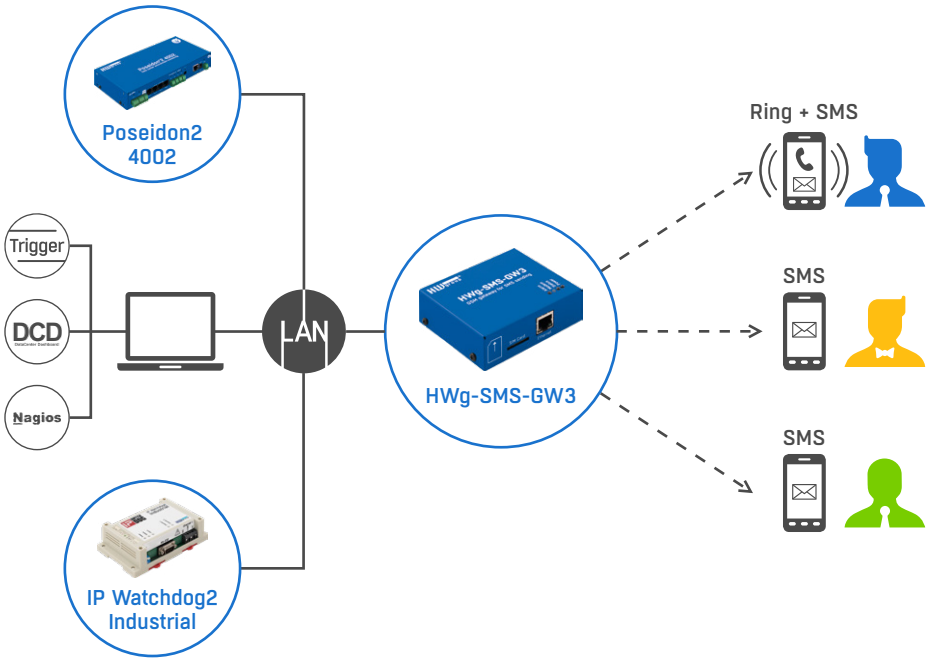
When contacting technical support, please keep at hand the exact type of your device (at the type plate) and, if possible, the firmware version (see later in this manual).

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Recommended connection

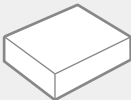
HWg-SMS-GW allows sending of alarm SMS messages from any number of connected HW group devices via a single GSM modem with netGSM.



Setting up HWg-SMS-GW3 with devices that support it:



- 1) Insert a SIM card.
- 2) Launch HWg Config and get the assigned IP address (DHCP).
- 3) Try to send a SMS from the web interface.



- 4) Enter IP address of the unit HWg-SMS-GW3 + port (80 in default).
- 5) Enter 2x phone number of an SMS messages recipient and try sending a test SMS.

Note: HWg-SMS-GW3 is compatible with the following devices: Damocles2, HWg-PWR, HWg-WLD, IP Watchdog2, Poseidon2, STE2, WLD2.

Technical parameters

Ethernet	
Interface	RJ45 (10BASE-T) – 10 Mbps or 10/100 Mbps network compatible
Supported protocols	IP: ARP, TCP/IP (http, NTP), UDP/IP (SNMP), netGSM
SNMP compatibility	Ver. 1.00 compatible, some parts of the ver. 2.0 implemented

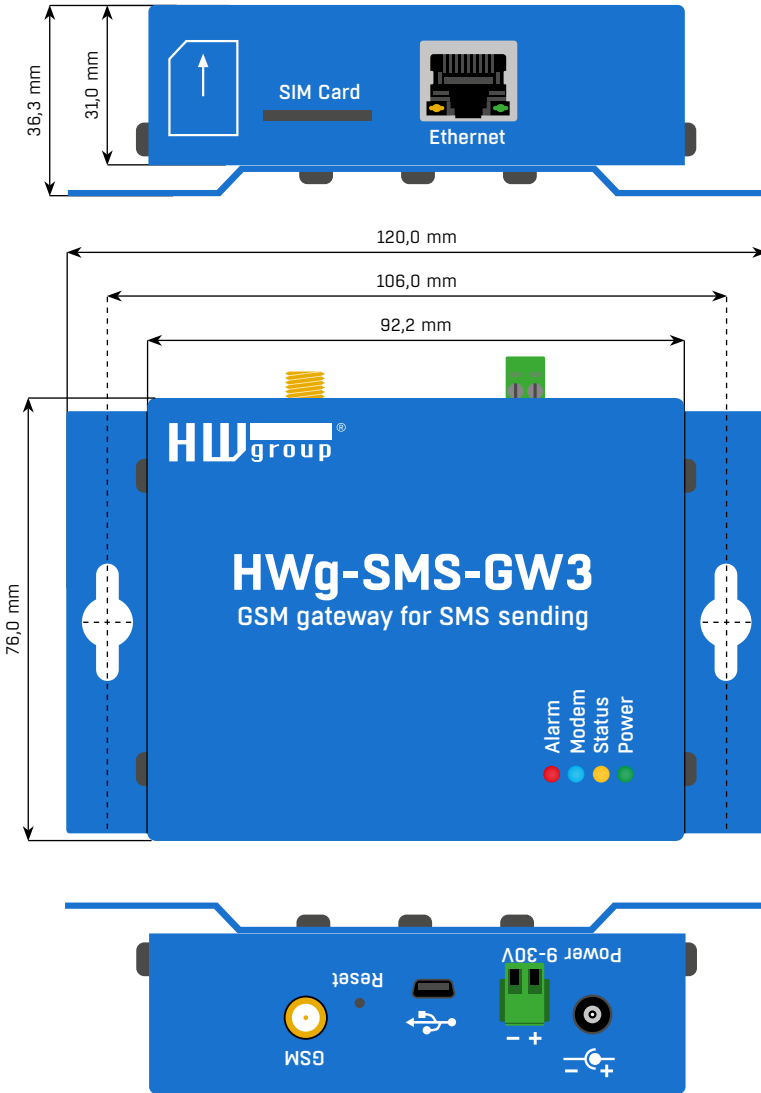
GSM	
Interface	Quad-Band 850 / 900 / 1800 / 1900 MHz, Compliant to GSM phase 2/2+ Class 4 (2W @ 850 / 900 MHz) Class 1 (1W @ 1800 / 1900 MHz)
Antenna connector	SMA male

Power input	
Port	Power 9-30V DC
Type	Main device power input (typically 400 mA + external devices)
Connector	1× barrel jack (2.1mm, outer diameter 5.5 mm) 1× terminal block

LED status indicators	
Power	Green – power OK
Modem	Blue – activity on GPRS
Status	Yellow – blinking if device is OK
Alarm	Red – error on device
LINK & Activity	Yellow – ethernet connectivity

Physical parameters	
Temperature range	Operating: -10 to 65 °C / Storage: -25 to 85 °C
MTBF	> 90 000 hours
Dimensions / Weight	92×76×31 [mm] / 300g
EMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000

Mechanical parameters



Restarting into the default settings (Load to defaults)

- *Restarting into the default settings via HWg Config* – right-click the MAC address of the device in HWg Config. Within the first 60 seconds after powering up the device the factory settings can be restored through HWg Config.

First start

Connecting the cables

- Note down the MAC address of the device, printed on the side of the unit.
- Connect HWg-SMS-GW to the Ethernet network.
- Plug the power adapter and connect it to a connector on the device.
- Green POWER LED will light up.
- If the connection to Ethernet network is working, LINK LED will light up (orange light on RJ45 connector) and it then flashes during the data transmission (Activity signalisation).

Connectors

- **Power** – connect the power adapter (9-30 V).
- **USB** – a connector for service purposes.
- **Ethernet** – network/data connector.
- **GSM SIM** – a SIM card socket.
- **GSM** – an SMA connector for connecting an external antenna.
- **Reset** – reset button for restoring the factory default settings.

LED indication

- **Power (green)** – power supply connected.
- **Status (yellow)** – flashes slowly if the device is working correctly.
- **Alarm (red)** – device / modem error. Lights up if out of signal, flashes in case of SIM card errors (incorrect PIN entered, etc.).
- **Modem (blue)** – flashes during SMS sending.
- **Link Activity (yellow LED on the Ethernet connector)** – flashes during network activity.
- **Link OK (green LED on the Ethernet connector)** – light on when connected to Ethernet.

IP address settings – HWg Config

The software *HWg-Config* can be downloaded from <http://www.HW-group.com Software -> HWg-Config>.

- Start HWg-Config by clicking on its icon – software will automatically search for connected devices.
 - Search for the devices by clicking the Find Devices icon (Start search).
- HWg Config searches for devices in your LAN. Clicking on a MAC address of the device opens a window with basic network parameters settings.

Network parameters of the device

- DHCP is enabled by default.
- Set IP address / HTTP port (80).
- Set the mask of your network.
- Gateway IP address for the local network.

Save the settings with *Apply Changes* button.

Open the WEB setup of the device

Enter IP address of the device directly into an internet browser.

Or open the web setup via *HWg-Config*. Click the underlined IP address, or through the context menu (as shown on the picture).

HWg-Config 1.1.1 for HW group products (www.hw-group.com)

HW group
www.HW-group.com

Version: 1.1.1
HW group, s.r.o.
www.hw-group.com
Config utility for the HW group devices

Your PC network settings

IP address: 192.168.100.154
Netmask: 255.255.252.0
Gateway: 192.168.100.1

About...

Find Devices

Device list:

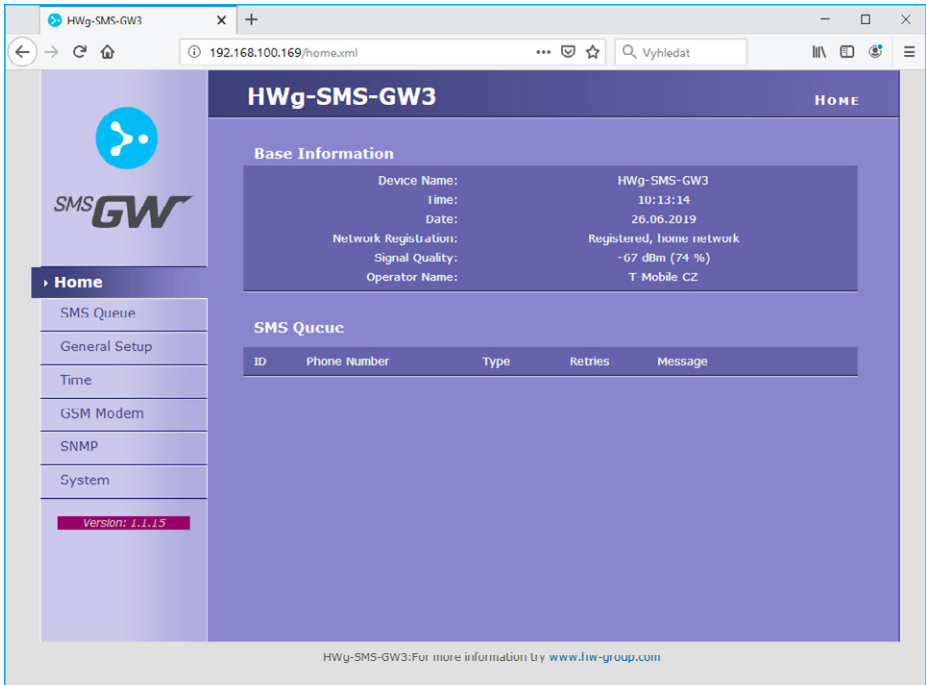
MAC	Name	*IP	Device type	Port	Parameters
00-0A-59-04-5F-26	HWg-SMS-GW3	<u>192.168.100.169</u>	HWg-SMS-GW3	80	TCP setup=N, DHCP=Y

Click

Searching modules... 37 device(s) found on network, 1 device(s) filtered and displayed Filter: HWg-SMS-GW3

WEB interface

Home



Base Information

- **Device name** – User-defined name. This can be set on the *General Setup* tab.
- **Time** – Unit time – settings can be changed on the *Time* tab. Correct time is usually obtained from an online server.
- **Date** – Unit date – settings can be changed on the *Time* tab. Correct date is usually obtained from an online server.
- **Network registration** – information on registration of the unit to an operator's GSM network.
- **Signal Quality** – GSM signal level. This information can be used for resolving network problems.
- **Operator Name** – name of the operator to which the GSM modem is connected.

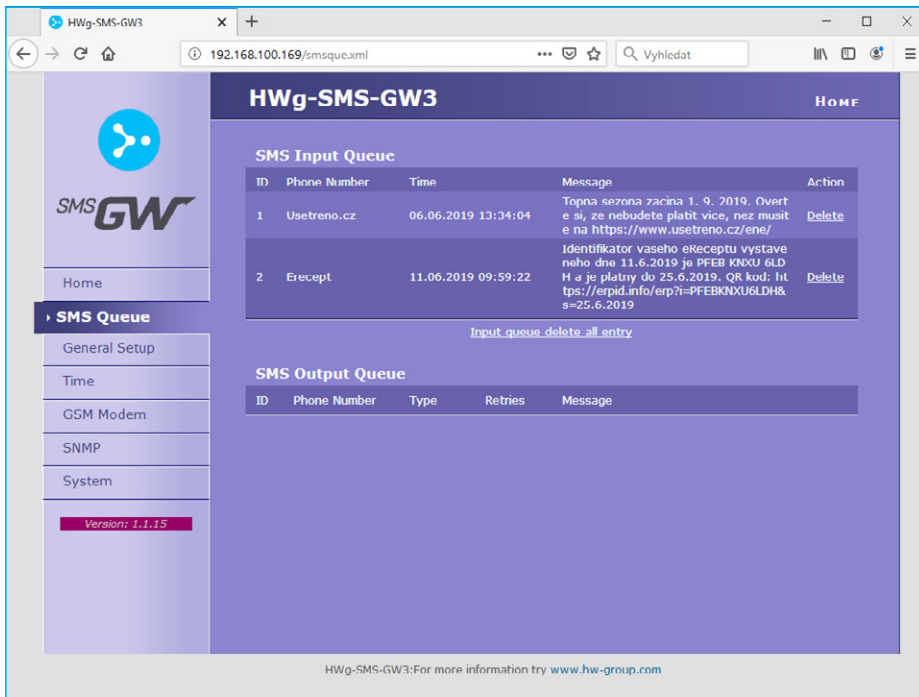
SMS Queue

An overview of messages queued for sending. Sent messages are not shown here anymore.

- **ID** – ID of the outgoing message.
- **Phone Number** – recipient's phone number.
- **Type** – message type (SMS or dialing the number).
- **Retries** – number of unsuccessful retries.
- **Message** – message text.

SMS Queue

Displays the queues of incoming and outgoing messages. Messages already sent are not shown here.



The screenshot shows the HWg-SMS-GW3 web interface. The browser address bar displays '192.168.100.169/smsqueue.xml'. The page title is 'HWg-SMS-GW3' and the user is logged in as 'HOME'. The left sidebar contains a navigation menu with 'Home' and 'SMS Queue' (selected), and sub-items: 'General Setup', 'Time', 'GSM Modem', 'SNMP', and 'System'. A version indicator at the bottom of the sidebar reads 'Version: 1.1.15'. The main content area is divided into two sections: 'SMS Input Queue' and 'SMS Output Queue'. The 'SMS Input Queue' section contains a table with two rows of incoming messages. The first row has ID 1, phone number Usetreno.cz, time 06.06.2019 13:34:04, and a message about a season starting on 1.9.2019. The second row has ID 2, phone number Erecept, time 11.06.2019 09:59:22, and a message about a receipt. Each row has a 'Delete' link. Below the table is a link 'Input queue delete all entry'. The 'SMS Output Queue' section contains an empty table with columns: ID, Phone Number, Type, Retries, and Message. At the bottom of the page, there is a footer: 'HWg-SMS-GW3: For more information try www.hw-group.com'.

SMS Input Queue

Displays the incoming message queue.

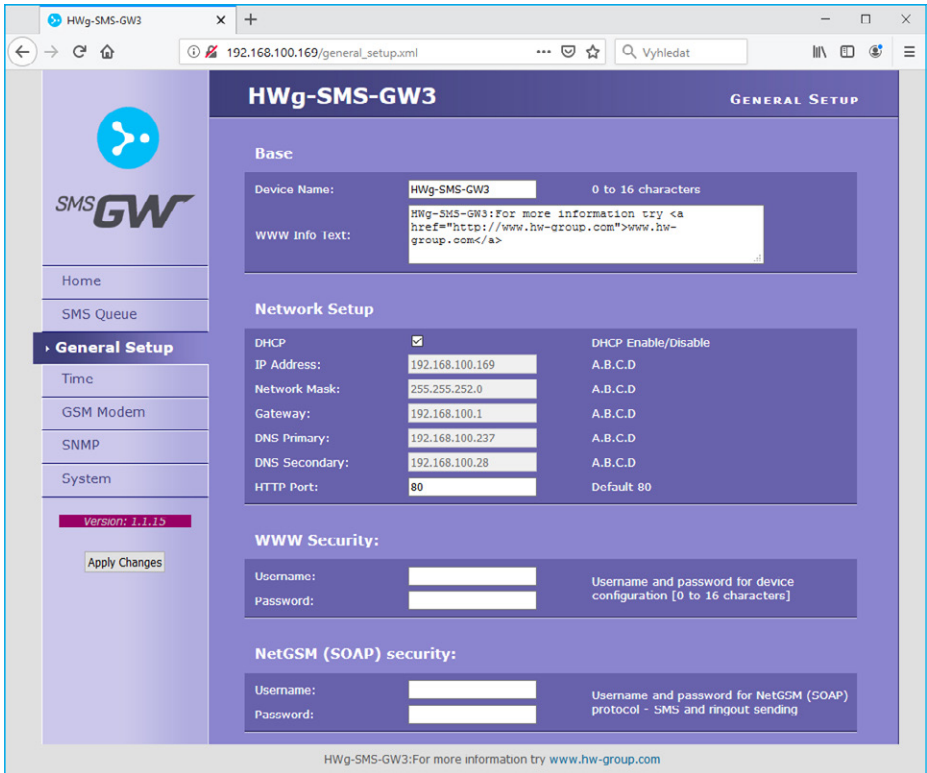
- **ID** – ID of the incoming message.
- **Phone Number** – sender's phone number.
- **Time** – delivery time of the incoming message.
- **Message** – incoming message text.
- **Action** – the message can be deleted by pressing Delete.
- **Input queue delete all entry** – link to delete all queued incoming messages.

SMS Output Queue

Displays the outgoing message queue.

- **ID** – ID of the outgoing message.
- **Phone Number** – recipient's phone number.
- **Type** – message type (SMS or dialing the number).
- **Retries** – number of unsuccessful retries.
- **Message** – message text.

General Setup



Base

- **Device Name** – Custom-selected name (HWg-SMS-GW3) – helps to distinguish between different HWg-SMS-GW3s in one network.
- **WWW Info Text** – text of a footer in WWW interface – useful for example for entering data centre administrator’s contact details.

Network Setup

- **DHCP** – enables automatic setting of an IP address by a DHCP server, if available – enabling and disabling this function depends on actual requirements of the network users and administrators.
- **IP Address** – IP address of the HWg-SMS-GW3 – assigned by the network administrator.
- **Network Mask** – assigned by the network administrator.
- **Gateway** – IP address of a default gateway – assigned by the network administrator.
- **DNS Primary / DNS Secondary** – IP address of a DNS server – assigned by the network administrator.
- **HTTP Port** – port number where the built-in WWW server listens – changing the port number is necessary for example if more devices are accessible from outside the network through a router. Please consult any changes in this setting with your network administrator. Port set to 80 in default.

WWW Security

Username / Password – login details used for accessing HWg-SMS-GW3 settings.

NetGSM (SOAP) security

Username / Password – username and password for sending text messages over SOAP.

Time

The screenshot shows a web browser window with the URL `192.168.100.169/sntp.xml`. The page title is "HWg-SMS-GW3" and the sub-header is "TIME". On the left is a navigation menu with items: Home, SMS Queue, General Setup, Time (selected), GSM Modem, SNMP, System, and Version: 1.1.15. Below the menu is an "Apply Changes" button. The main content area is divided into three sections: "Current Time" showing "Time: 10:15:11" and "Date: 26.06.2019"; "SNTP Setup" with fields for "SNTP server address" (europe.pool.ntp.org), "Interval" (1h), "Summertime" (checked), "Time Zone" (1), "A.B.C.D. or Address Name", "Sync period" (Off/1h/24h), and "last Sun Mar 2:00 - last Sun Oct 2:00"; and "Time Setup" with fields for "Time" (10:15:08), "Date" (26.06.2019), and "Set Time Manually" button. A "Synchronize Time" button is also present between the SNTP and Time Setup sections. At the bottom, a footer reads "HWg-SMS-GW3: For more information try www.hw-group.com".

Current Time

- *Time* – shows actual time.
- *Date* – shows actual date.

SNTP Setup

- *SNTP server address* – IP address or a domain address of a time server – in default `time.nist.gov`.
- *Interval* – interval of a time synchronisation with a server.
- *Summertime* – allows DST switching – required for correct logging of the measured values and events. Necessary for correct data logging.

- **Time Zone** – sets the time zone where the HWg-SMS-GW3 is located – used for setting the correct system time. Necessary for correct data logging.
- **Synchronize Time** – used for an immediate synchronisation with a time server. Can be also used to test the entered settings.

Time Setup

Time Setup section allows you to enter actual time and date manually, in case you cannot use the synchronisation with a time server. This information is erased after loosing the power supply.

GSM Modem

The screenshot displays the web interface for the HWg-SMS-GW3 GSM Modem. The browser window shows the URL 192.168.100.169/modem.xml. The interface features a sidebar menu on the left with the following items: Home, SMS Queue, General Setup, Time, **GSM Modem** (highlighted), SNMP, and System. Below the menu, the version is listed as 1.1.15 and there is an 'Apply Changes' button. The main content area is titled 'HWg-SMS-GW3 GSM MODEM' and is divided into three sections:

- Information:** Displays network registration status. Registered to the home network. Signal Quality is -67 dBm (74%). Operator Name is T-Mobile CZ. SMS Service Center Address is +420603052000. Number of SMS is 3792. Number of failures SMS is 1. Number of Ringout is 1239. Number of failures Ringout is 0. A 'Clear counters' button is present.
- Configuration:** Contains settings for SIM Pin, Roaming Enable (checked), SMS http GET Enable (unchecked), and Manual Network (unchecked). Explanatory text for Roaming Enable states: 'Allow users to send SMS even when home network is not available'. Manual Set Network enable/disable is also noted.
- Test SMS:** Includes a 'Tel Number' input field, a 'Text' input field containing 'HWg-SMS-GW3: SMS test message.', and buttons for 'Send SMS Test' and 'Ringout Test'.

At the bottom of the interface, a footer note reads: 'HWg-SMS-GW3: For more information try www.hw-group.com'.

Information

- **Network registration** – information on registration of the unit to an operator's GSM network.
- **Signal Quality** – GSM signal level. This information can be used for resolving network problems.
- **Operator Name** – name of the operator to which the GSM modem is connected.
- **SMS Service Center Address** – information obtained from the SIM card. Used for verifying the communication with the SMS centre
- **Number of SMS** – number of messages sent.

- **Number of failures SMS** – number of unsent messages (invalid phone number etc.).
- **Number of Ringout** – number of dialed calls.
- **Number of failures Ringout** – number of unsuccessfully dialed calls (invalid phone number etc.).

Configuration

- **SIM PIN** – if the SIM is protected with a PIN, enter it here.
- **Roaming enable** – enables or disables SMS-GW3 operation in roaming. With roaming disabled, the gateway only works in the home carrier's network; this avoids undesired roaming costs. Enabled roaming may increase stability e.g. near country borders.
- **SMS http GET Enable** – enables the sending of SMS over HTTP GET. Using HTTP GET is a security risk, consider it carefully.

For details, see: <https://www.hw-group.com/support/how-to-send-sms-via-hwg-sms-gw3>

- **Manual network** – allows manual selection of the mobile network to use.

Test SMS

- **Tel Number** – test message recipient's phone number.
- **Text** – test message text.
- **Send SMS Test** – button to send a test SMS to the specified phone number.
- **Ringout Test** – button to try to dial the specified phone number.

SNMP

The screenshot shows the web interface for HWg-SMS-GW3. The browser address bar shows the URL 192.168.100.169/snmp.xml. The page title is HWg-SMS-GW3 SNMP. The left sidebar contains a navigation menu with the following items: Home, SMS Queue, General Setup, Time, GSM Modem, and SNMP (which is currently selected). Below the menu, there is a 'System' section with a 'Version: 1.1.15' label and an 'Apply Changes' button. The main content area is divided into two sections: 'General SNMP Settings' and 'SNMP Access'. The 'General SNMP Settings' section contains four rows of configuration fields: System Name (value: HWg-SMS-GW3, limit: 0 to 16 characters), System Location (limit: 0 to 16 characters), System Contact (value: HWg-SMS-GW3:For mor, limit: 0 to 48 characters), and SNMP port (value: 161, default: 161). The 'SNMP Access' section contains a table with columns for Community, Read, Write, and Enable. The table has two rows: 'public' and 'private'. The 'public' row has Read checked, Write unchecked, and Enable checked. The 'private' row has Read checked, Write checked, and Enable checked. Below the table is a link 'Show OID keys table'. At the bottom of the page, there is a footer: 'HWg SMS GW3:For more information try www.hw-group.com'.

General SNMP Settings

- **System Name** – device name, corresponds with the device name set on the *General setup* tab.
- **System Location** – system location, for instance „IT room, 2nd floor“.
- **System Contact** – system administrator contact details, for instance his email address.
- **SNMP port** – port settings for communication with SNMP protocol [161].

SNMP Access

Defines authorisation and user group names for work with a Poseidon device.

- **Community** – text name of the group, to which the rights are assigned to (Public and Private in default).
- **Read** – assigns to a community the rights to read the variables over SNMP.
- **Write** – assigns to a community the rights to write into the variables over SNMP.
- **Enable** – enables or disables a certain group.
- **Show OID keys table** – lists all available SNMP OIDs including their use.

System

System tab offers access to main system details such as uptime and firmware version. It also offers restart options or tools for firmware update.

The screenshot displays the web interface for the HWg-SMS-GW3 device. The browser address bar shows the URL `192.168.100.169/system.xml`. The page title is "HWg-SMS-GW3" and the sub-header is "SYSTEM".

Download

- Backup bin configuration: [SMS_GW3_Config.bin](#)
- Backup xml configuration: [setup.xml](#)
- Online status in XML: [status.xml](#)
- SNMP MIB Table: [HWg-SMS_GW3.mib](#)

Syslog

Syslog server IP Address: A.B.C.D, 0.0.0.0 = Syslog disabled

System

Product Name: HWg-SMS-GW3
Serial Number: 6006390259
MAC Address: 00:0A:59:04:5F:2G
Modem IMEI: 060325021309267
Version: 1.1.15
Build: 1963
Compile time: Jan 2 2018, 09:03:05
UpTime: 1344100 [s]
Demo Mode: **Demo Mode**
Read available version: ---
Start Network Upgrade: ---

Upload Firmware or Configuration:

Factory Default **System Restart**

HWg-SMS-GW3: For more information try www.hw-group.com

The left sidebar contains navigation links: Home, SMS Queue, General Setup, Time, GSM Modem, SNMP, and **System** (selected). The System tab shows the current version as 1.1.15 and an "Apply Changes" button.

Download

- [Backup bin configuration](#) – by clicking the link you can save the actual HWg-SMS-GW3 configuration and later restore this configuration.
- [Backup xml configuration](#) – by clicking the link you can save the actual HWg-SMS-GW3 configuration and later restore this configuration.
- [Online staus in XML](#) – current device state in XML format.
- [SNMP MIB Table](#) – SNMP MIB file – address of a MIB file, containing definition of SNMP variables.

Syslog

[Syslog server IP Address](#) – address of the Syslog server.

System

- [Product Name](#) – name (type) of the device.
- [Serial Number](#) – device's serial number.
- [MAC Address](#) – device's MAC address for wired connections.
- [Modem IMEI](#) – IMEI address of the modem for GSM connection.
- [Version](#) – firmware version. Diagnostic information for troubleshooting.
- [Build](#) – assembly diagnostic information for troubleshooting.
- [Compile time](#) – firmware compilation time. Diagnostic information for troubleshooting.
- [UpTime](#) – uptime since last power-on or reset of the device. Diagnostic information for troubleshooting.
- [Demo mode](#) – activated demo mode disables changes in configuration of your device. Visitors can freely browse all pages of the WWW interface in this mode but they cannot make any changes. The device can be then made available on a public network without any risk of problems with settings.
- [Read available version](#) – displays the latest firmware version available at the HW group upgrade server.
- [Start Network Upgrade](#) – initiates firmware upgrade from the HW group upgrade server.
- [Upload Firmware or Configuration](#) – allows users to upload new firmware or a configuration file. Uploaded configuration may not be compatible in case the difference between firmware releases is too large.

Factory Default

Restores the factory default settings. The default IP address is 192.168.10.20 and both login and password are not set.

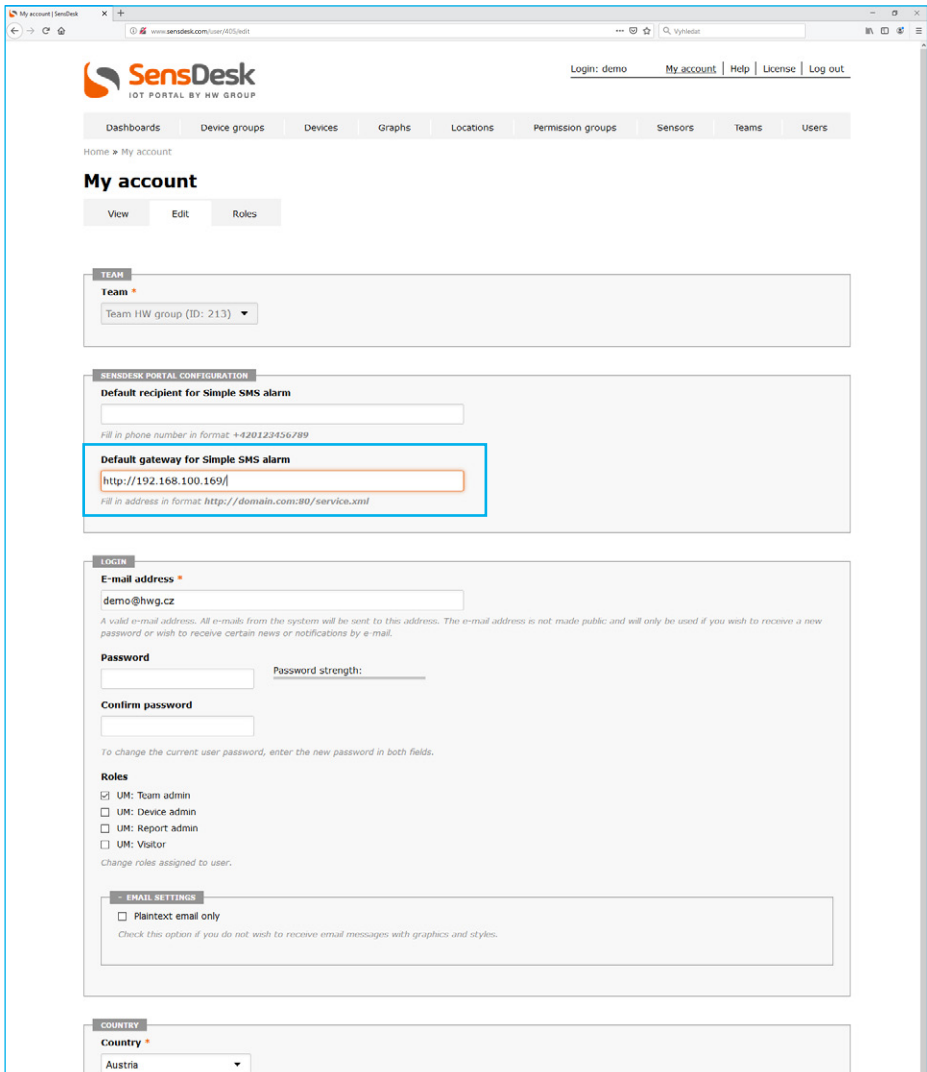
System Restart

Resets the device.

Using SensDesk.com service

SensDesk.com service is an online portal for HW group IP sensors monitoring. SensDesk.com can send email notifications in case an alarm is detected. HWg-SMS-GW3 can be used for sending SMS notifications.

- 1 Set IP address of your HWg-SMS-GW in the account settings:
[SensDesk.com: My Account >> Edit](#)



My account | SensDesk IOT PORTAL BY HW GROUP

Log in: demo | My account | Help | License | Log out

Dashboards | Device groups | Devices | Graphs | Locations | Permission groups | Sensors | Teams | Users

Home > My account

My account

View | Edit | Roles

TEAM

Team *
Team HW group (ID: 213)

SENDESK PORTAL CONFIGURATION

Default recipient for Simple SMS alarm

Fill in phone number in format: +420123456789

Default gateway for Simple SMS alarm
http://192.168.100.169/

Fill in address in format: http://domain.com:30/service.xml

LOGIN

E-mail address *
demo@hwg.cz

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

Password
Password strength: _____

Confirm password

To change the current user password, enter the new password in both fields.

Roles

UM: Team admin
 UM: Device admin
 UM: Report admin
 UM: Visitor

Change roles assigned to user.

E-MAIL SETTINGS

Plaintext: email only

Check this option if you do not wish to receive email messages with graphics and styles.

COUNTRY

Country *
Austria

- 2 Set the recipient phone number for each single sensor, for sending alarm SMS messages from: [SensDesk.com: Sensors >> Edit](#)

SensDesk
IOT PORTAL BY HW GROUP

Login: demo My account Help License Log out

Dashboards Device groups Devices Graphs Locations Permission groups **Sensors** Teams Users

Home » Sensors

Edit Sensor Sensor 2594 (in SensDesk)

View Edit Delete Alarms

SensDesk unique sensor ID
188146

Current value
32 %RH

Sensor value usage (in SensDesk)
Enabled

State of sensor
✔

Local sensor name (in the device)
Sensor 2594

Sensor name (in SensDesk)
Sensor 2594

SD SafeRange *
30 to 80
Sending alarm if value out of this range.

Hysteresis *
10

Calibration (shift) *
0

Custom decimal places

Description

Email & SMS alerts
* Sends an alert to all pre-set SMS and e-mail recipients when exceeding the "SD SafeRange" and even after returning to the safe range.

Active	Alarm module	Recipient	Gateway	Delete
<input type="checkbox"/>	Simple e-mail alarm	<input type="text"/>		
<input type="checkbox"/>	Simple SMS GW alarm	<input type="text"/>	http://192.168.100.169/	
<input type="checkbox"/>	Simple set output alarm	<input type="text"/>		

Add my Simple e-mail alarm Add my Simple SMS GW alarm Add my Simple set output alarm

Save

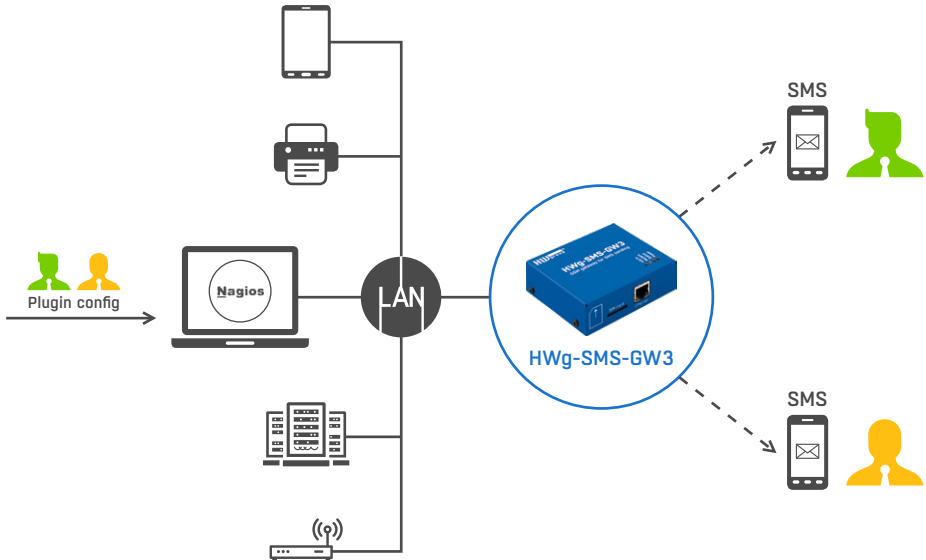
HW group
SensDesk.com is free online portal for LAN and GSM sensors from HW group. © HW group 2019
HW group s. r. o. | Rumunská 26, 120 00 Prague | Phone: 222 511 918 | Fax: 222 513 833

Note: HWg-SMS-GW3 must be accessible on a public IP address in order to send SMS alarms from your SensDesk.com account.

Using SMS gateway with Nagios

Sending notifications from Nagios using SMS gateway HWg-SMS-GW3.

A plug-in for HWg-SMS-GW3, created in cooperation with Netways, allows sending SMS messages from Nagios system.



Nagios plug-in `notify-poseidon-sms.pl` takes notifications about changes on the monitored devices and transfers them via HTTP protocol to HWg-SMS-GW, which then sends an SMS message.

Installation

The following steps are based on standard Ubuntu server installation process. Some folders or commands can vary due to different Linux distribution used.

- 1 Download the `notify-poseidon-sms.pl` plug-in from <https://www.netways.org/projects/plugins/files> do adresáře `/usr/lib/nagios` and set the setup rights.

```
nagios-server:~# cd /usr/lib/nagios
nagios-server:~# wget https://www.netways.org/attachments/download/262/notify-poseidon-sms.pl
nagios-server:~# chmod a+x notify-poseidon-sms.pl
```

- 2 Send a test SMS to verify the functions of the plug-in and HWg-SMS-GW3. Parameter -H specifies an IP address of the HWg-SMS-GW3 device designated for sending the SMS messages. Enter the recipients phone number for receiving the message using the -D parameter.

```
nagios-server:~# cd /usr/lib/nagios
nagios-server:~# ./notify-poseidon-sms.pl -M "Test message" -H 192.168.1.1 -D +42077888999
```

In case the plug-in start fails and an error message shows Can't locate LWP.pm, it is necessary to install a Perl module LWP for HTTP protocol support. This can be done on Ubuntu or Debian by a command:

```
nagios-server:~# apt-get install libio-all-lwp-perl
```

Nagios settings

Document recommended for basic Nagios setup:

<https://www.hw-group.com/support/how-to-send-sms-via-hwg-sms-gw3>

- 1 A support for sending SMS messages with the notify-poseidon-sms.pl plug-in can be added by creating a file /etc/nagios3/notify-poseidon-sms.cfg:

```
define command {
  command_name notify-host-by-sms
  command_line /usr/bin/perl /usr/lib/nagios/notify-poseidon-sms.pl -H 192.168.1.1 -D
  $CONTACTPAGER$ -M "$HOSTALIAS$ $HOSTOUTPUT$"
}
define command {
  command_name notify-service-by-sms
  command_line /usr/bin/perl /usr/lib/nagios/notify-poseidon-sms.pl -H 192.168.1.1 -D
  $CONTACTPAGER$ -M "$HOSTALIAS$ $SERVICEOUTPUT$"
}
```

Note: The whole `command_line` definition text has to be in one line in order to work correctly.

Note, do not forget to change the -H parameter to an actual IP address (eventually to a DNS name) of your HWg-SMS-GW device.

SMS text is assembled by the -M parameter. A list of supported variables (macros) can be found on http://nagios.sourceforge.net/docs/3_0/macrolist.html

- 2 Define contacts and contact groups for SMS messaging in a file:
/etc/nagios3/conf.d/contacts_nagios.cfg.

```

define contact {
    contact_name           peter-gsm
    alias                  Peters GSM phone
    service_notification_period 24x7
    host_notification_period 24x7
    service_notification_options w,u,c,r
    host_notification_options d,r
    service_notification_commands notify-service-by-sms
    host_notification_commands notify-host-by-sms
    pager                 +420777888999
}

define contactgroup {
    contactgroup_name     sms
    alias                  Notifications via SMS
    members                peter-gsm
}

```

Note: In case you want to send notifications to multiple phone numbers, create a contact for every phone number and enter each contact into a members parameters in a contactgroup (divided with ,).

In case you are using a standard Nagios configuration and want to add SMS sending for all devices and services, do not create a contactgroup and add only peter-gsm to the admins group. The setup is then complete and the notifications will be sent also via SMS after restarting the Nagios service (points 3 and 4).

```

define contactgroup {
    contactgroup_name     admins
    alias                  Nagios Administrators
    members                root, peter-gsm
}

```

- 3 Adding SMS notification options to selected services and services can be done in their definition, by adding a `contact_groups` parameter, for example:

```
define host {
    use                generic-host
    host_name          localhost
    alias              localhost
    address            127.0.0.1
    contact_groups    admins,sms
}
define service {
    use                generic-service
    host_name          localhost
    service_description Disk Space
    check_command      check_all_disks!20%!10%
    contact_groups    admins,sms
}
```

Note: Contacts are usually defined in the device's or service's templates, adding `contact_groups` parameters will rewrite the pre-set template. This example is based in a standard settings of an `admins` contact group, which uses e-mails for sending notifications. Only SMS messages will be sent after adding "contact_groups sms" parameter.

- 4 A restart of Nagios needed to activate the changes.

```
nagios-server:~# service nagios3 restart
```

Using the product with your application

HWg-SMS-GW communicates over LAN via a netGSM protocol built on HTTP. In case you want to use this product with your application, use the HWg-SDK (Software Development Kit). The SDK kit contains commented examples of the source codes for various programming languages.



<https://www.hw-group.com/product-version/netgsm>

<https://www.hw-group.com/support/netgsm-how-does-it-work-with-hw-group-devices>

Other HW group devices from Monitoring category



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