

netGSM description - How it work and How it use in Poseidon2/Damocles2

The netGSMfunction is designed for sharing one GSM modem connected to one unit with other devices on the same network. This means that more Poseidon units can send Alarm SMS using one GSM modem thus reducing network topology and costs.

The netGSM consists of a client and a server part. The server part is the Poseidon unit with the GSM modem. The clients are other units or software.

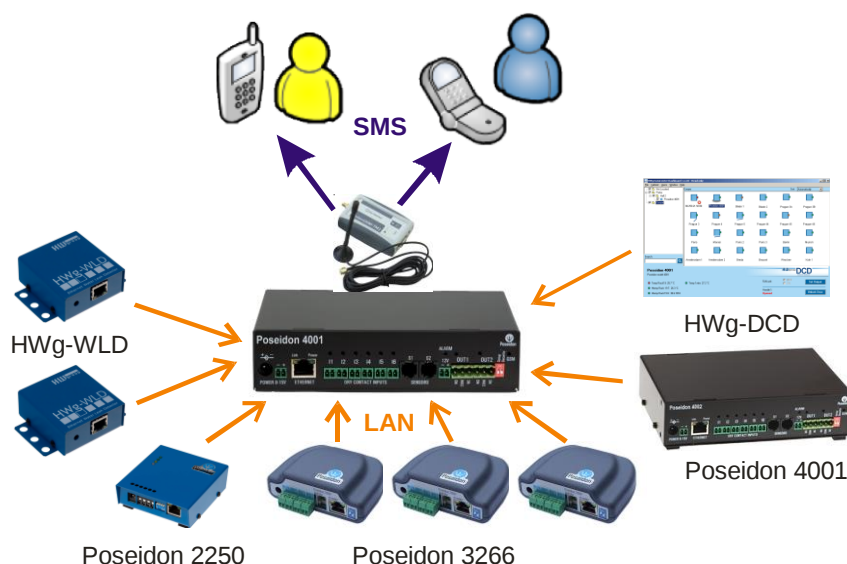
Devices currently supporting the netGSM (as of 1.11.2017)

Server (GSM modem needed)

- Poseidon 2250
- Poseidon 4001
- Poseidon 4002
- Poseidon2 4002
- Damocles2 2404
- HWg-SMS-GW/GW2/GW3

Client (no modem needed, SMS are sent through other unit)

- Poseidon 2250
- Poseidon 4001
- Poseidon 4002
- Poseidon 3266
- All products Poseidon2 family
- All products Damocles2 family
- All products IP WatchDog2
- HWg-WLD
- HWg-PWR3/12/25
- HWg-SH4
- HWg-DCD2
- Nagios Plugin (testing)
- PHP Script Example



netGSM supported functions

- SMS Send
- SMS Receive (only for HWG-DCD)
- Ring a remote phone

Setup parameters description for Poseidon2/Damocles2 in Server mode



- General
- General setup
- Security
- SNMP
- Email
- GSM**
- Log & Time
- Portal
- MQTT
- Sensors
- Inputs
- Outputs
- Virtual Outputs
- System

Version: 3.3.11

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Poseidon2 4002 Vitek table SST GSM

Serial Port Settings

Name	Value
Port Function:	GSM Modem ▾

Remote SMS gateway

Name	Value
Enable:	☒
IP Address or DNS Name:	192.168.1.36
Link/Path:	service.xml
Port:	80
Username:	
Password:	

GSM SMS Interface

Name	Value
GSM Function:	Local ▾
SMS + Ring When Alarm:	☐
RS-232 GSM Module:	Not enabled
SMS Center Number:	

GSM SMS Recipients

Name	Value	Test
Alarm SMS Recipient 1:	+420777232759	Send Test SMS Ringout Test
Alarm SMS Recipient 2:		
Alarm SMS Recipient 3:		
Alarm SMS Recipient 4:		
Alarm SMS Recipient 5:		

For more information try <http://www.hw-group.com/>

Serial Port Settings

Port Function sets the serial port functionality (available only on models with a serial port and netGSM server support). Options:

- *Disabled* – The serial port is disabled – only with no modem connected and the device working as a client
- *GSM modem* – the GSM modem is connected and the Poseidon unit works as a server for the netGSM

Remote SMS gateway

Allows to set the IP address, HTTP port and a path to the service. This routes the SMS send requests, RFID control etc. **The Poseidon2, Damocles2 and HWg-SMS-GW3 units always use service.xml !**

GSM SMS interface

This setups the SMS parameters

- **GSM Function** – Allows to set if the SMS are sent through a local modem (available only if the serial port is in the GSM modem mode)
- **SMS+Ring when Alarm** – allows to ring a phone number when sending an SMS
- **RS-232 GSM module** – GSM modem status
 - *Not Enabled* – not active. This is shown when the RS-232 port settings are changed, but not saved
 - *Not Found* – the Poseidon is set to use the local modem, but that cannot be found
 - *Waiting for modem* – searching for the device
 - *Initializing* – the modem is initializing
 - *Ready* – the device is prepared for use
- **SMS center Number** – for information, the SMS center number read from the SIM card. If this is not available, SMS cannot be sent

GSM SMS recipient

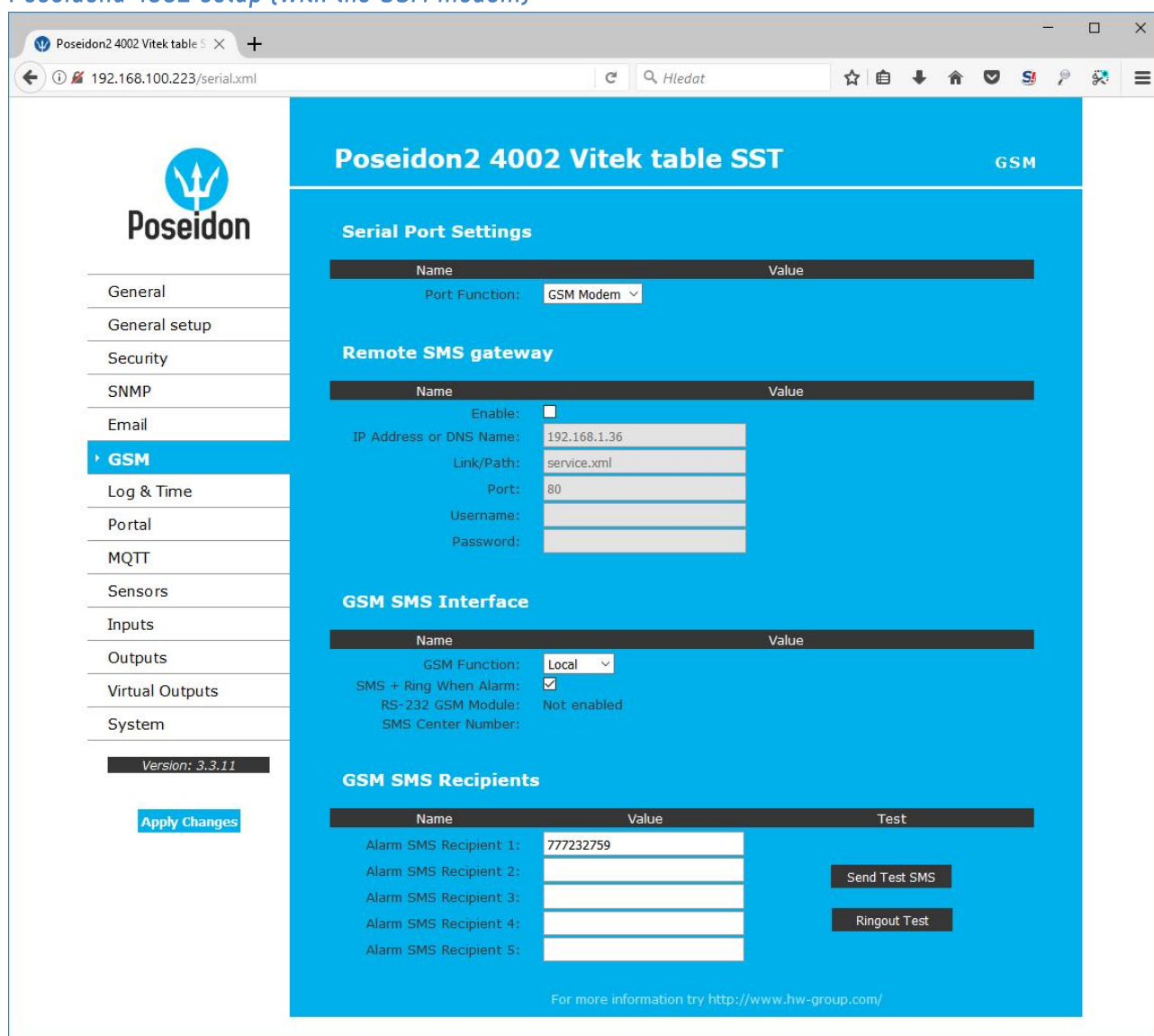
This allows the user to set the SMS destination numbers. It is independent on the operation mode (local / remote modem)

Setup example1

Two Poseidon units were used:

- 192.168.2.23 Poseidon2 4002 with a GSM modem connected
- 192.168.1.67 Poseidon 3266 with no modem, using the Poseidon 4001 to send SMS

Poseidonu 4002 setup (with the GSM modem)



The screenshot shows the web interface for the Poseidon2 4002 Vitek table SST. The interface is in a browser window with the address bar showing '192.168.100.223/serial.xml'. The left sidebar contains a menu with options: General, General setup, Security, SNMP, Email, **GSM**, Log & Time, Portal, MQTT, Sensors, Inputs, Outputs, Virtual Outputs, and System. The main content area is titled 'Poseidon2 4002 Vitek table SST' and 'GSM'. It contains three sections: 'Serial Port Settings', 'Remote SMS gateway', and 'GSM SMS Interface'. The 'Serial Port Settings' section has a table with columns 'Name' and 'Value', showing 'Port Function' set to 'GSM Modem'. The 'Remote SMS gateway' section has a table with columns 'Name' and 'Value', showing 'Enable' as a checkbox, 'IP Address or DNS Name' as '192.168.1.36', 'Link/Path' as 'service.xml', 'Port' as '80', 'Username' as an empty field, and 'Password' as an empty field. The 'GSM SMS Interface' section has a table with columns 'Name' and 'Value', showing 'GSM Function' set to 'Local', 'SMS + Ring When Alarm' as a checked checkbox, 'RS-232 GSM Module' as 'Not enabled', and 'SMS Center Number' as an empty field. Below these sections is the 'GSM SMS Recipients' section, which has a table with columns 'Name', 'Value', and 'Test'. It lists five alarm SMS recipients, with the first one having the value '777232759'. There are buttons for 'Send Test SMS' and 'Ringout Test'. At the bottom, there is a link to 'http://www.hw-group.com/'.

In the default status you first need to enable the GSM modem in the *Serial port Settings* and then set the *GSM Function* to *Local*. Deactivating the *SOAP destination* is optional, as well as the *SMS+ Ring when Alarm* function.

XML setup example

```
= <SerialPort>
  <E>1</E>
</SerialPort>
= <SMS>
  <Function>1</Function>
  <Ring>0</Ring>
  <Dest>1</Dest>
  <Module>Ready</Module>
  <CenterNmr>+420608005681</CenterNmr>
  <Recp1>777232759</Recp1>
  <Recp2 />
  <State>13</State>
  <Message>OK</Message>
</SMS>
= <RFID>
  <Dest>1</Dest>
</RFID>
= <SOAP>
= <Entry>
  <Idx>1</Idx>
  <E>0</E>
  <Server>192.168.1.36</Server>
  <Port>80</Port>
  <Route>service.xml</Route>
</Entry>
</SOAP>
```

Poseidon 3266 setup

Poseidon Flash Interface - Windows Internet Explorer

http://192.168.1.66/index2.htm

Obľíbené položky Revision overview Drupal Vytvořit Důležité odkazy ... Sledování sítě, měření - D... Navrhované weby

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Stránka Zabezpečení Nástroje

Genera General Setup SNMP Email **GSM & RFID** Log & Time Sensors Inputs System Index Page

Poseidon

Serial Port Settings

Port Function Disabled

SOAP Destination

SOAP Server	Link/Path	Port	Enable
A. 192.168.2.23	service.xml	80	☒

GSM SMS Interface

GSM Function Remote

SMS + Ring when Alarm ☐

RS-232 GSM Module Ready

SMS Center Number

Remote Destination Remote Server A

GSM SMS Recipients

Alarm SMS Recipient 1 777232759

Alarm SMS Recipient 2

Send Test SMS

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In the default setting you just need to set the remote IP of the Poseidon and the SMS phone numbers. The **SMS+ Ring when Alarm** is optional.

XML setup example

```
= <SerialPort>
  <E>0</E>
</SerialPort>
= <SMS>
  <Function>0</Function>
  <Ring>0</Ring>
  <Dest>1</Dest>
  <Module>Ready</Module>
  <CenterNmr />
  <Recp1>777232759</Recp1>
  <Recp2 />
  <State>13</State>
  <Message>OK</Message>
</SMS>
= <SOAP>
= <Entry>
  <Idx>1</Idx>
  <E>1</E>
  <Server>192.168.2.23</Server>
  <Port>80</Port>
  <Route>service.xml</Route>
</Entry>
</SOAP>
```

Setup example2

Poseidon2 4002 units used HWg-SMS-GW3:

- 192.168.100.169 HWg-SMS-GW3
- 192.168.100.223 Poseidon2 4002 without modem, using the HWg-SMS-GW3 to send SMS

HWg-SMS-GW3 setup



The screenshot displays the HWg-SMS-GW3 web interface, divided into two main sections: General Setup and GSM Modem.

General Setup

- Base**
 - Device Name: HWg-SMS-GW3 (0 to 16 characters)
 - WWW Info Text: `HWg-SMS-GW3: For more information try <a href="http://www.hw-group.com">www.hw-group.com</a>`
- Network Setup**
 - DHCP: ☒ (DHCP Enable/Disable)
 - IP Address: 192.168.100.169 (A.B.C.D)
 - Network Mask: 255.255.255.0 (A.B.C.D)
 - Gateway: 192.168.100.1 (A.B.C.D)
 - DNS Primary: 192.168.100.237 (A.B.C.D)
 - DNS Secondary: 192.168.100.250 (A.B.C.D)
 - HTTP Port: 80 (Default 80)
- WWW Security:**
 - Username: [] Password: [] (Username and password for device configuration [0 to 16 characters])
- NetGSM (SOAP) security:**
 - Username: [] Password: [] (Username and password for NetGSM (SOAP) protocol - SMS and ringout sending)

GSM Modem

- Information**
 - Network Registration: Registered, home network
 - Signal Quality: -69 dBm (70 %)
 - Operator Name: T-Mobile CZ
 - SMS Service Center Address: +420603052000
 - Number of SMS: 0
 - Number of failures SMS: 0
 - Number of Ringout: 0
 - Number of failures Ringout: 0
 - Clear counters
- Configuration**
 - SIM Pin: []
 - Roaming Enable: ☒ (Allow users to send SMS even when home network is not available)
 - SMS http GET Enable: ☒ (Enable http GET API)
 - Manual Network: ☐ (Manual Set Network enable/disable)
- Test SMS**
 - Tel Number: [] Send SMS Test
 - Text: [] Ringout Test

HWg-SMS-GW3 used security with username and password for netGSM (SOAP)

XML setup example

<Network>

```
<dhcp>1</dhcp>
<hostname>HWg-SMS-GW3</hostname>
<ip_address>192.168.100.169</ip_address>
<ip_mask>255.255.255.0</ip_mask>
<ip_gateway>192.168.100.1</ip_gateway>
<dns1>192.168.100.237</dns1>
<dns2>192.168.100.250</dns2>
<porthttp>80</porthttp>
<username/>
<password/>
<soap_username>1 1sX6k4D26A==</soap_username>
<soap_password>1 zd/uHPg=</soap_password>
```

</Network>

Poseidon2 4002 setup



- General
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Poseidon2 4002 Vitek table SST GSM

Serial Port Settings

Name	Value
Port Function:	Disabled

Remote SMS gateway

Name	Value
Enable:	☒
IP Address or DNS Name:	192.168.100.169
Link/Path:	service.xml
Port:	80
Username:	testik
Password:	****

GSM SMS Interface

Name	Value
GSM Function:	Remote
SMS + Ring When Alarm:	☒

GSM SMS Recipients

Name	Value	Test
Alarm SMS Recipient 1:	+420777232759	Send Test SMS Ringout Test
Alarm SMS Recipient 2:		
Alarm SMS Recipient 3:		
Alarm SMS Recipient 4:		
Alarm SMS Recipient 5:		

For more information try <http://www.hw-group.com/>

In the default setting you just need to set the remote IP of the Poseidon and the SMS phone numbers. The **SMS+ Ring when Alarm** is optional.

XML setup example

```
<SMS>
  <Function>0</Function>
  <Ring>1</Ring>
  <Dest>1</Dest>
  <Module>Not enabled</Module>
  <CenterNmr/><Recp1>+420777232759</Recp1>
  <Recp2/>
  <Recp3/>
  <Recp4/>
  <Recp5/>
  <State>0</State>
  <Message/>
</SMS>
<SOAP>
  <Entry>
    <Idx>1</Idx>
    <E>1</E>
    <Server>192.168.100.169 </Server><Port>80</Port>
    <Route>service.xml</Route>
    <Name>testik</Name>
    <Pswd>hwg</Pswd>
  </Entry>
</SOAP>
```