

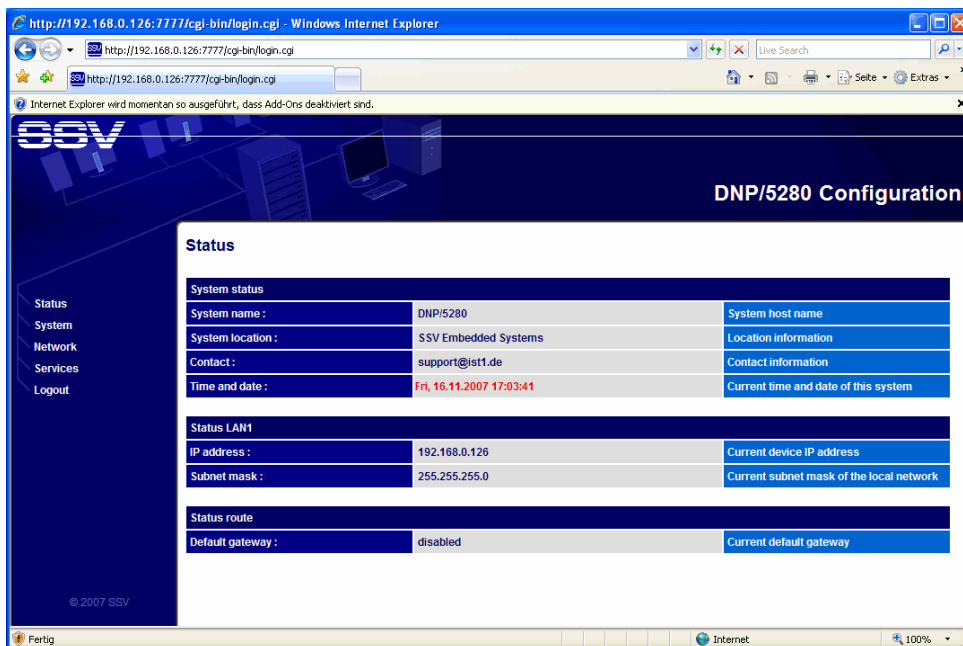
## How to use the DNP/5280 GPS2GSM reference design kit (GPS2GSM RDK)

The DIL/NetPC DNP/5280 GPS2GSM reference design kit (GPS2GSM RDK) comes with pre-installed demonstration software. This software allows requesting a GPS position SMS from the GPS2GSM RDK. The software offers a web-based configuration interface. Please use this interface to setup the necessary parameters.

- **1. Step:** Setup an Ethernet link between your PC and the DNP/5280 GPS2GSM reference design kit. Run a web browser on the PC and use the URL <http://192.168.0.126:7777/cgi-bin/login.cgi>. The web-based user interface shows a login screen.

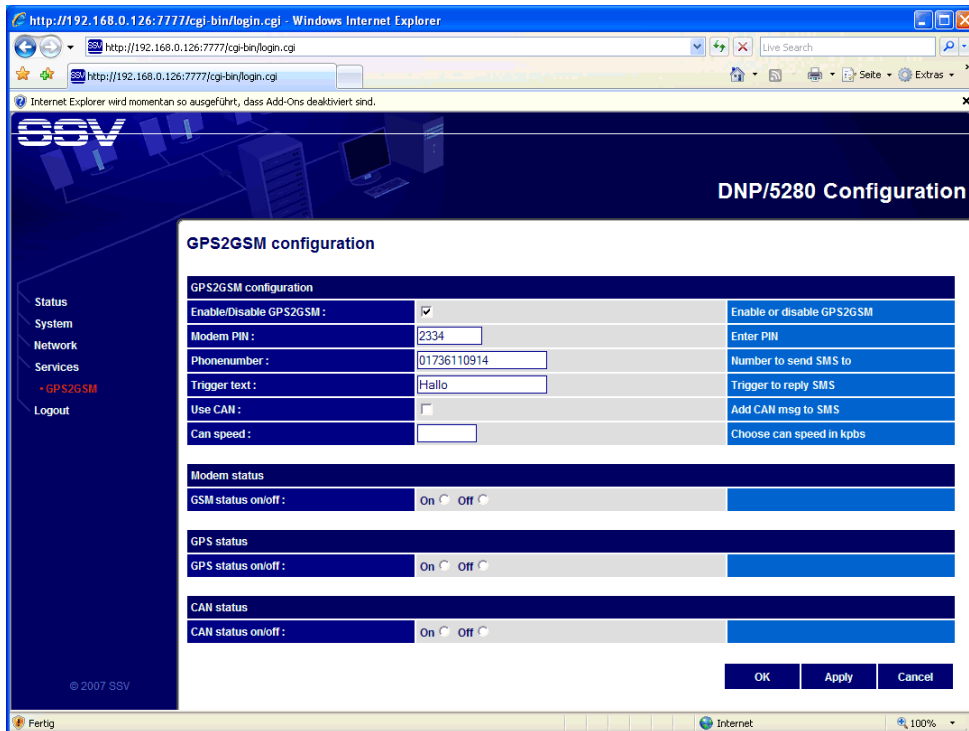


- **2. Step:** Please enter the login password *ssv* and press the *Submit* button.

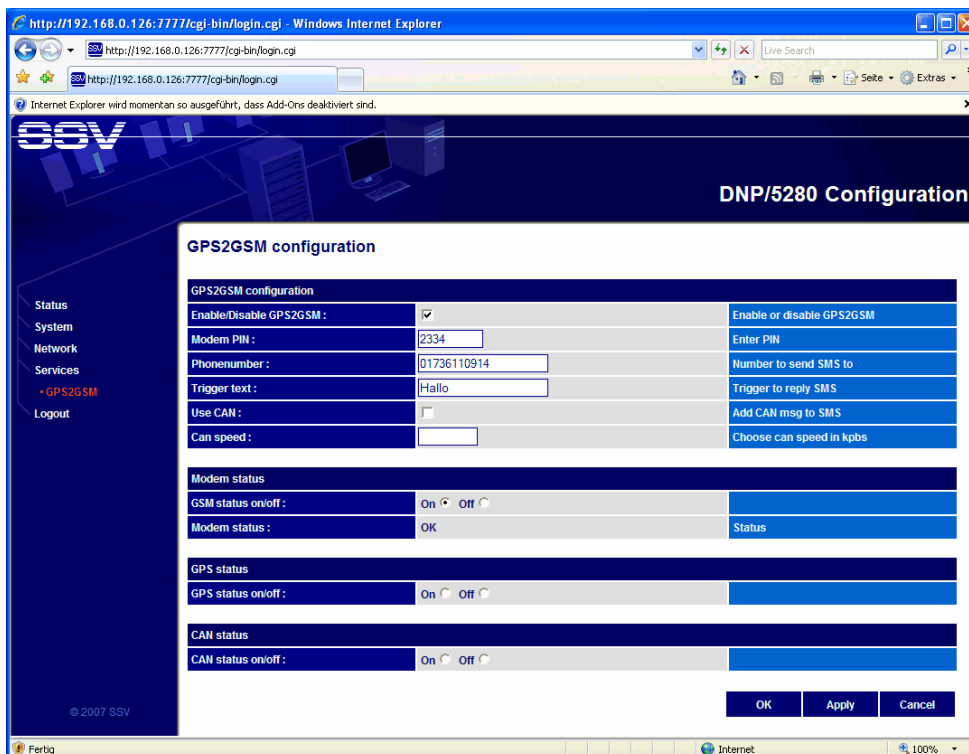


- **3. Step:** Select the item *Services* within the left-hand menu area. Then click the sub-menu item

**GPS2GSM.** The following screen of the web-based user interface allows entering the configuration data. Please enter the PIN number of the SIM card (item *Modem PIN*), the telephone number of your mobile for receiving the GPS position SMS (item *Phonenumber*) and the trigger text string (minimum length is 5 characters – item *Trigger text*). Then press the *Apply* button.

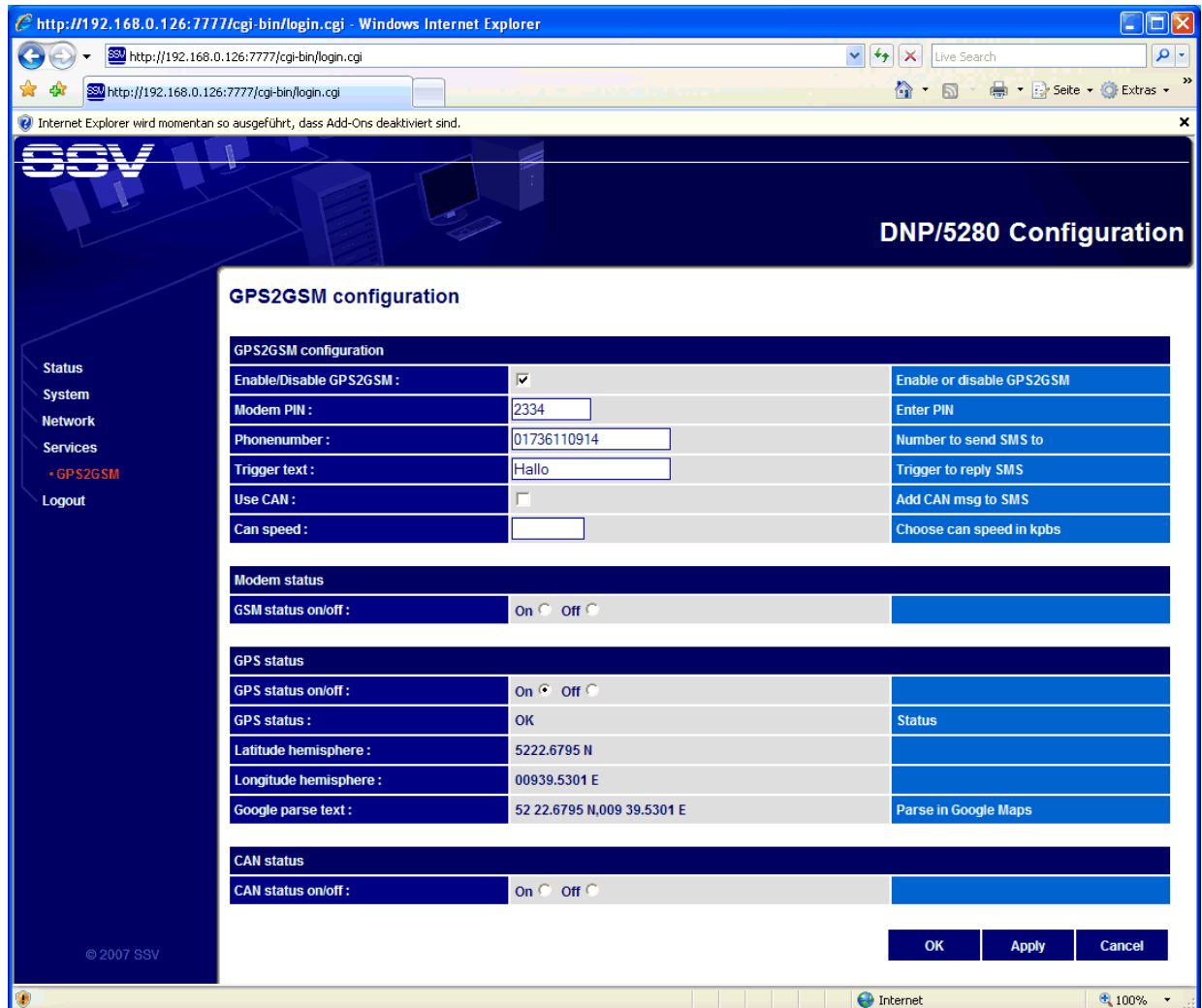


- **4. Step:** Next please click to the *on* radio button in the *GSM status on/off* field.



The GPS2GSM reference design kit software checks now the GSM modem and the SIM card access. The result of this test is shown within the field *Modem status*.

- **5. Step:** Please click the *on* radio button in the *GPS status on/off* field. The web-based user interface shows the current GPS position data if available.



The screenshot shows the 'DNP/5280 Configuration' web interface. The 'GPS2GSM configuration' section includes the following fields:

GPS2GSM configuration		
Enable/Disable GPS2GSM :	<input checked="" type="checkbox"/>	Enable or disable GPS2GSM
Modem PIN :	<input type="text" value="2334"/>	Enter PIN
Phonenumber :	<input type="text" value="01736110914"/>	Number to send SMS to
Trigger text :	<input type="text" value="Hallo"/>	Trigger to reply SMS
Use CAN :	<input type="checkbox"/>	Add CAN msg to SMS
Can speed :	<input type="text"/>	Choose can speed in kpbs

The 'Modem status' section shows:

GSM status on/off :	On <input type="radio"/> Off <input type="radio"/>
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The 'GPS status' section shows:

GPS status on/off :	On <input checked="" type="radio"/> Off <input type="radio"/>	
GPS status :	OK	Status
Latitude hemisphere :	5222.6795 N	
Longitude hemisphere :	00939.5301 E	
Google parse text :	52 22.6795 N,009 39.5301 E	Parse in Google Maps

The 'CAN status' section shows:

CAN status on/off :	On <input type="radio"/> Off <input type="radio"/>
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At the bottom right, there are buttons for 'OK', 'Apply', and 'Cancel'. The footer of the page indicates '© 2007 SSV'.

**Please note:** The GPS sensor works only outside a building. Please put the antenna of the GPS2GSM reference design kit out of your window. Without a valid GPS signals all GPS data items are 0.

- **6. Step:** Please send an SMS with your mobile to the GPS2GSM reference design kit. Make sure, that this SMS contains the trigger text string (please see item *Trigger text* within the 3. step). In this sample the trigger text string is “*Hello*”.

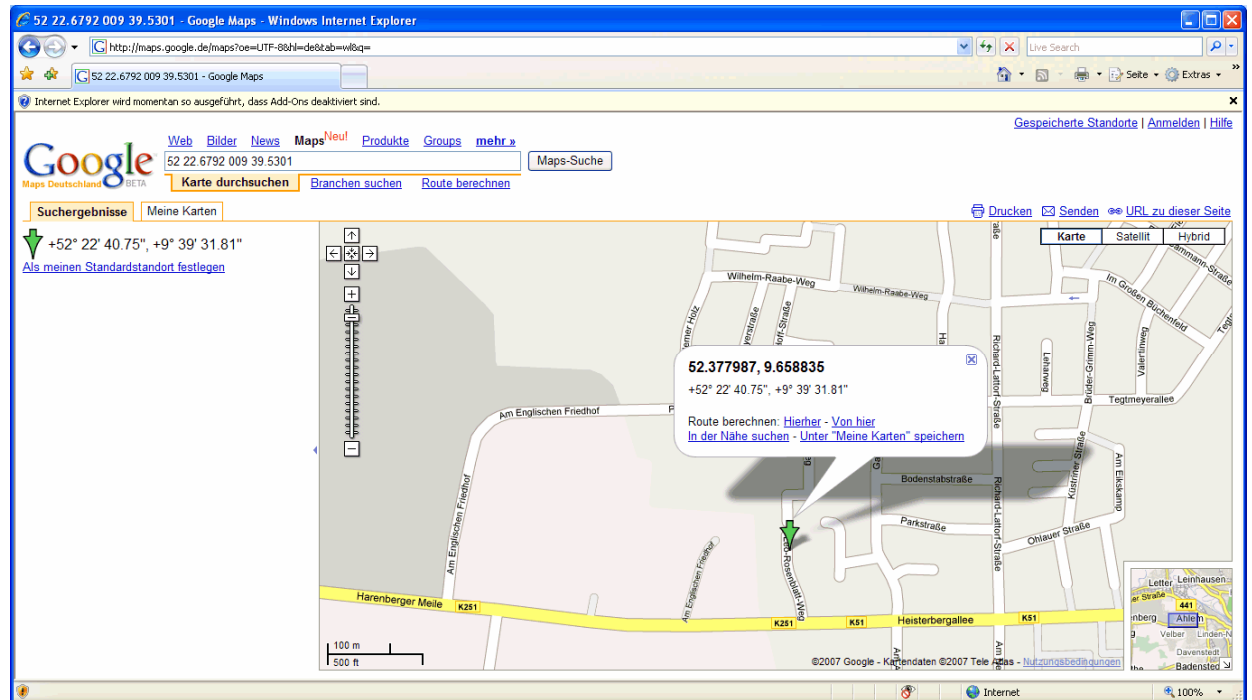
The GPS2GSM reference design kit software polls every 30 second for new incoming SMS messages. If an SMS is available, the software compares the SMS text string with the trigger text string. Is the SMS text string unequal to the trigger text string, the software waits for the next SMS.

Is the SMS text string equal to the trigger text string, the GPS2GSM reference design kit

software sends an SMS with the current GPS position to the telephone number from the setup (see item **Phonenumber** within the 3. step). After this the software waits for the next SMS.

- **7. Step:** Use the position data from the GPS position SMS and enter these data items to Google Maps. Google shows the location of the GPS2GSM reference design kit current position within a map.

**Example data for Google Maps: 52 22.6792 009 39.5301**



**Please note:** For restarting the DNP/5280 GPS2GSM reference design kit software please remove the power supply for two or more seconds. This generates a power-on reset.

Don't use the reset switch of the DNP/EVA6 evaluation board. This manual reset doesn't reset the GPS hardware parts.

That's all.