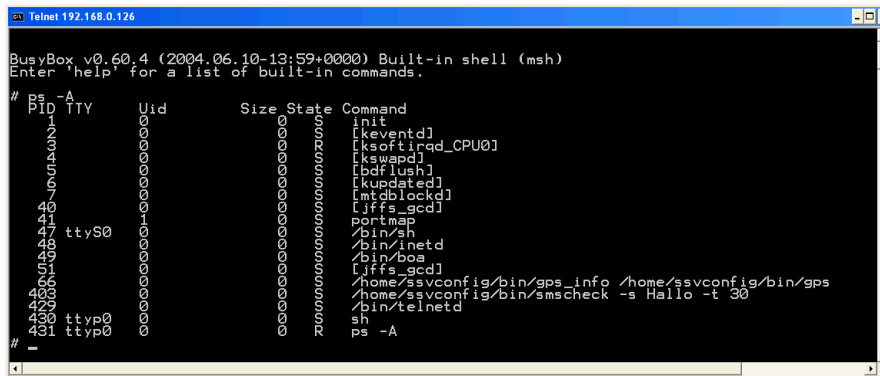


How to use the GPS2GSM RDK for incoming SMS message debugging

The DIL/NetPC DNP/5280 GPS2GSM reference design kit (GPS2GSM RDK) comes with pre-installed demonstration software. This software offers a debugging feature to watch incoming SMS messages.

- **1. Step:** Setup an Ethernet link between your PC and the DNP/5280 GPS2GSM reference design kit. Run a Telnet client on the PC and find out the PID for the process *smscheck*.



```

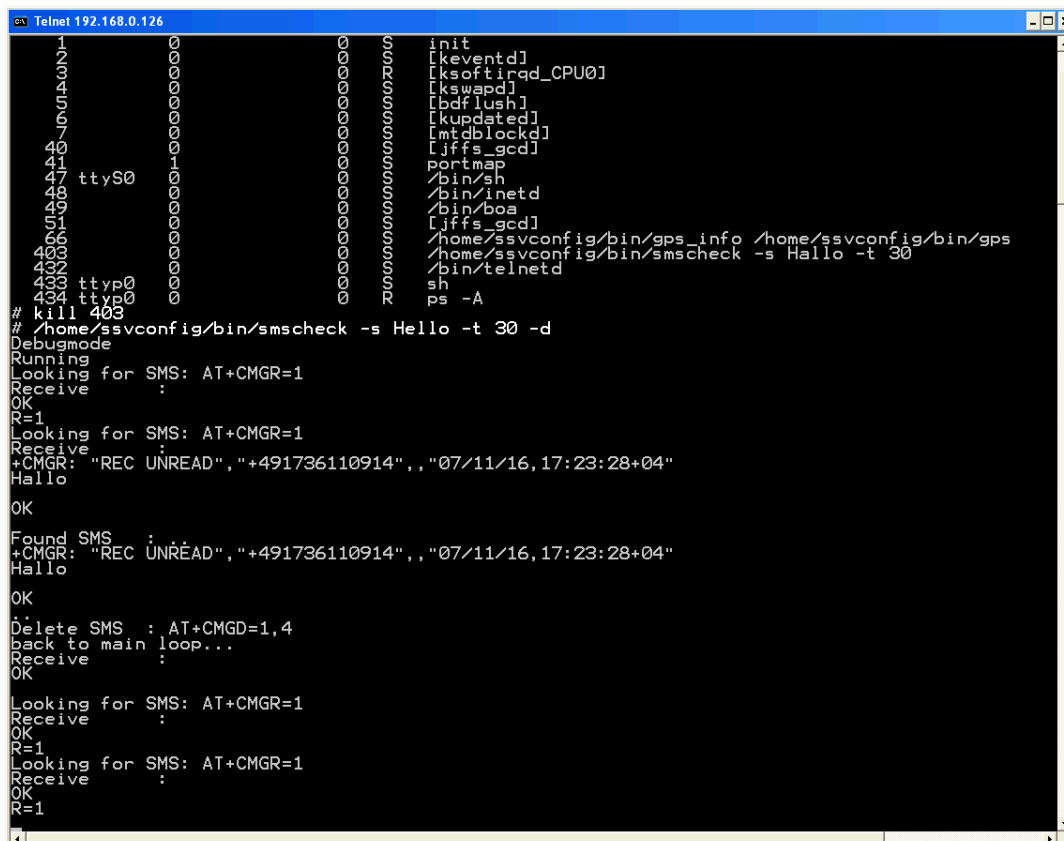
Telnet 192.168.0.126
BusyBox v0.60.4 (2004.06.10-13:59+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.

# ps -A
  PID TTY          Luid        Size State Command
  1    0 00000000    0 S    init
  2    0 00000000    0 S    [keventd]
  3    0 00000000    0 S    [ksoftirqd_CPU0]
  4    0 00000000    0 S    [kswapd]
  5    0 00000000    0 S    [bdflush]
  6    0 00000000    0 S    [kupdated]
  7    0 00000000    0 S    [mtdblockd]
  8    0 00000000    0 S    [jffs_gcd]
 40    0 00000000    0 S    portmap
 41    0 00000000    0 S    /bin/sh
 47    0 ttyS0      00000000    0 S    /bin/inetd
 48    0 00000000    0 S    /bin/boa
 49    0 00000000    0 S    [jffs_gcd]
 51    0 00000000    0 S    /home/ssvconfig/bin/gps_info /home/ssvconfig/bin/gps
 66    0 00000000    0 S    /home/ssvconfig/bin/smscheck -s Hallo -t 30
 82    0 00000000    0 S    /bin/telnetd
 83    0 00000000    0 S    sh
 84    0 00000000    0 S    ps -A
#

```

- **2. Step:** Kill the current process *smscheck* and restart this program with the parameter *-d*. Just enter the following command:

```
/home/ssvconfig/bin/smscheck/ -s Hello -t 30 -d
```



```

Telnet 192.168.0.126
# kill 403
# /home/ssvconfig/bin/smscheck -s Hello -t 30 -d
Debugmode
Running
Looking for SMS: AT+CMGR=1
Receive
:
OK
R=1
Looking for SMS: AT+CMGR=1
Receive
:
+CMGR: "REC UNREAD", "+491736110914", "07/11/16, 17:23:28+04"
Hallo
OK
Found SMS
:
+CMGR: "REC UNREAD", "+491736110914", "07/11/16, 17:23:28+04"
Hallo
OK
Delete SMS : AT+CMGD=1,4
back to main loop...
Receive
:
OK
Looking for SMS: AT+CMGR=1
Receive
:
OK
R=1
Looking for SMS: AT+CMGR=1
Receive
:
OK
R=1

```

3. Step: The *smscheck* tool checks the GPS2GSM RDK GSM modem every 30 seconds for new SMS messages. To do this the *smscheck* tool sends special AT commands to the modem.

If an SMS is available, the software compares the SMS text string with a setup string (in this sample “Hello”, see the command line parameter *-s*).

If the SMS text string is unequal to the setup text string, the software waits for the next SMS. Otherwise the GPS2GSM RDK answers with a GPS position SMS.

Please note: See also *mHT5280.46.pdf: How to use the DNP/5280 GPS2GSM reference design kit (GPS2GSM RDK)* for more information.

That's all.