

Installation and Usage of BNXgsm

To get the BNXGSM card up and running you need the hardware driver „bnxgsm“ and the channeldriver for Asterisk „chan_gsm“. Both modules can be downloaded as a bundled tarball „install-gsm.tar.gz“ from the download section of our beroNet homepage or from the following link

<http://www.beronet.com/downloads/install-gsm.tar.gz>

Requirements

The bnxgsm module requires a running 2.6.X Kernel and it's Kernel headers. chan_gsm requires an installed asterisk and it's headers. So before you start to install the install-gsm package make sure that you have all required modules.

Installation:

Goto your favorite destination path (i.e. /usr/src) and download the install_gsm.tar.gz package.

```
linux:/usr/src# wget http://www.beronet.com/downloads/install-gsm.tar.gz
```

Extract the package and go to the new created folder install-gsm.

```
beronet:/usr/src/#tar -xzf install-gsm.tar.gz
```

```
beronet:/usr/src/#cd install-gsm
```

```
beronet:/usr/src/install-gsm#
```

Just type „make“ and „make install“ and bnxgsm and chan_gsm should be installed now. More information regarding bnxgsm and chan_gsm can be found in the README of the modules.

Now start the hardware driver bnxgsm:

```
beronet:/usr/src/#modprobe bnxgsm
```

You can verify if the module is loaded correctly by typing lsmod. A line like

```
beronet:/usr/src/install-gsm# lsmod
```

Module	Size	Used by
--------	------	---------

bnxgsm	18912	0
--------	-------	---

...

should appear.

If not please check the result with `dmesg`. If you want that `bnxgsm` starts automatically during bootup just place the following line at the end of your „modules“ file which is located under `/etc/modules`

```
bnxgsm
```

Configuration:

Now you have to make some specific settings in your `gsm.conf` which is located under `/etc/asterisk/gsm.conf`

More information regarding the `gsm.conf` can be found in the `gsm.conf` file itself or just type „gsm show config descriptions“ in the asterisk CLI.

Start your Asterisk and load `chan_gsm.so` (if not loaded automatically). After that the gsm card should be up and running.

Examples:

Dial Out Example :

```
exten => _0XX.,1,Dial(GSM/1/${EXTEN:1})
```

Dial Out Example with group:

```
exten => _0XX.,1,Dial(GSM/g:GSMPORTS/${EXTEN:1})
```

where `GSMPORTS` is defined as section in the `gsm.conf`

Dial out and switch SIM SLOT Holder during dial:

```
exten=> _0XX.,1,gsm_set_simslot(1,1)
```

```
exten=> _0XX.,2,Dial(GSM/1/${EXTEN:1})
```

Sendig SMS Via Asterisk CLI:

Usage: `gsm send sms <port> <number> "<smstext>"`

```
beroNet*CLI> gsm send sms 1 0176..... „Hallo Asterisk SMS“
```

Manager Interface:

You can send SMS also with the AMI. Thatfore `chan_gsm` adds a new command `GsmSendSms` that you can use like follows:

```
Action: GsmSendSms
```

```
port: 1
```

```
number: 01762222.....
```

```
text: Hello SMS
```