

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
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...

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