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Connect Linux to the internet using wvdial and a UMTS modem

 Submitted by aspineux on Fri, 05/06/2011 - 20:47

I run a Fedora 12 and want to connect to Internet using the UMTS modem provided by Belgian ISP Mobistar.



[UMTSMon](#) is nice tools, but it requires QT3, not installed on all Linux. **wvdial** is a more common command line tools.

At first, the modem looks like a USB disk, providing Windows drivers and documentation. You need **usb_modeswitch** to switch it into modem mode. You can found in on the web

Search the vendor and product ID of the modem :

```
# lsusb
Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 002 Device 007: ID 0af0:6901 Option
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

Switch the modem into *modem* mode

```
# usb_modeswitch -v 0x0af0 -p 0x6901
Looking for default devices ...
Found default devices (1)
Accessing device 007 on bus 002 ...
Using endpoints 0x02 (out) and 0x82 (in)
Not a storage device, skipping SCSI inquiry

Device description data (identification)
-----
Manufacturer: Option N.V.
Product: Globetrotter HSDPA Modem
Serial No.: Serial Number
-----
Warning: no switching method given.
-> Run lsusb to note any changes. Bye.
```

Now configure wvdial, setup 2 files:

/etc/wvdial.conf

```
[Dialer Defaults]
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
Modem Type = Analog Modem
ISDN = 0
#Baud = 460800
Baud = 9600
```

```
New PPPD = yes
Modem = /dev/ttyUSB0

[Dialer pin]
Init3 = AT+CPIN=1234

[Dialer mobistar]
Phone = *99***1#
#Init3 = AT+CGDCONT=1,"IP","internet.be"
Username = mobistar
Password = mobistar
Stupid mode = 1
```

/etc/ppp/peers/wvdial

```
noauth
name wvdial
usepeerdns
#noccp
```

Unlock the SIM card using the PIN code in **/etc/wvdial.conf**

```
# wvdial pin
--> WvDial: Internet dialer version 1.60
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Sending: AT+CPIN=6232
AT+CPIN=6232
+CME ERROR: operation not allowed
--> Bad init string.
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Sending: AT+CPIN=6232
AT+CPIN=6232
+CME ERROR: operation not allowed
--> Bad init string.
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Sending: AT+CPIN=6232
AT+CPIN=6232
+CME ERROR: operation not allowed
--> Bad init string.
```

Start wvdial to connect to internet

```
# wvdial mobistar
--> WvDial: Internet dialer version 1.60
--> Cannot get information for serial port.
--> Initializing modem.
```

```
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Modem initialized.
--> Sending: ATDT*99***1#
--> Waiting for carrier.
ATDT*99***1#
CONNECT 7200000
--> Carrier detected. Starting PPP immediately.
--> Starting pppd at Wed Jul 6 20:45:53 2011
--> Pid of pppd: 3896
--> Using interface ppp0
--> Authentication (CHAP) started
--> Authentication (CHAP) successful
--> local IP address 172.23.82.194
--> remote IP address 10.64.64.64
--> primary DNS address 212.224.255.252
--> secondary DNS address 212.65.63.217
--> Script /etc/ppp/ip-up run successful
--> Default route Ok.
--> Nameserver (DNS) Ok.
--> Connected... Press Ctrl-C to disconnect
```

Tags:

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