

BandLuxe HSPA Data card on Ubuntu8.04

Installation Guide

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Model					
Category:					
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Document no:					

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0.1	18-July-08	Johnson	Newly created
0.2	18-July-08	Johnson	Add trouble shooting Add KPPP installation
0.3	18-July-08	Johnson	Revised
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Approval

Version	Date	Approver	Position
		name	position

Distribution

Version	Date	Name	Department
		name	department

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1 Introduction

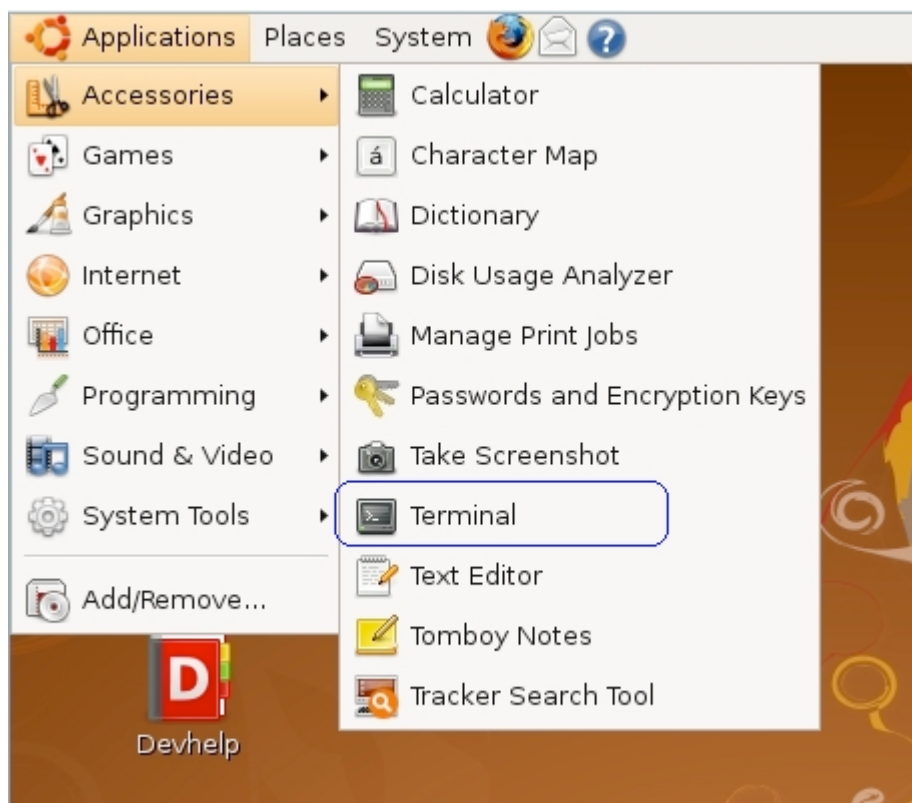
This document is used to describe the way to install C100/C120 data card on Ubuntu 8.04

2 Check the USB Status of data card

2.1 Open terminal

Find terminal in OS Menu as following :

Applications → Accessories → Terminal



2.2 Eject CDROM

Please right click on the BandLuxe CDROM icon, and eject the CDROM.

2.3 Checking USB Modem Device Status

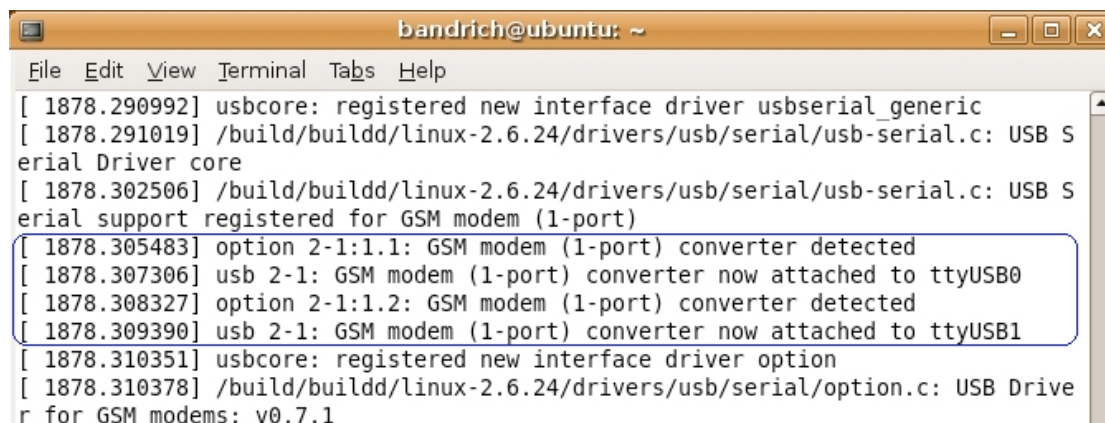
Command “`dmesg |tail -n 50`” can be used to check if the modem is recognized.

2.3.1 Detected GSM modem successfully

If you can find string: **GSM modem (1-port) converter now attached to ttyUSB0**

(Note: it may show ttyUSB* : * = 0, 1, 2,)

otherwise, you should go to chapter 5 Trouble shooting

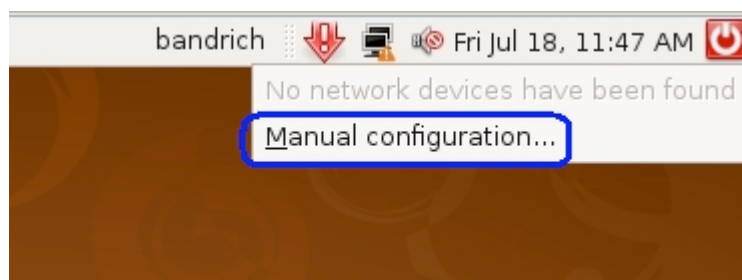


```
bandrich@ubuntu: ~  
File Edit View Terminal Tabs Help  
[ 1878.290992] usbcore: registered new interface driver usbserial_generic  
[ 1878.291019] /build/builddd/linux-2.6.24/drivers/usb/serial/usb-serial.c: USB S  
erial Driver core  
[ 1878.302506] /build/builddd/linux-2.6.24/drivers/usb/serial/usb-serial.c: USB S  
erial support registered for GSM modem (1-port)  
[ 1878.305483] option 2-1:1.1: GSM modem (1-port) converter detected  
[ 1878.307306] usb 2-1: GSM modem (1-port) converter now attached to ttyUSB0  
[ 1878.308327] option 2-1:1.2: GSM modem (1-port) converter detected  
[ 1878.309390] usb 2-1: GSM modem (1-port) converter now attached to ttyUSB1  
[ 1878.310351] usbcore: registered new interface driver option  
[ 1878.310378] /build/builddd/linux-2.6.24/drivers/usb/serial/option.c: USB Drive  
r for GSM modems: v0.7.1
```

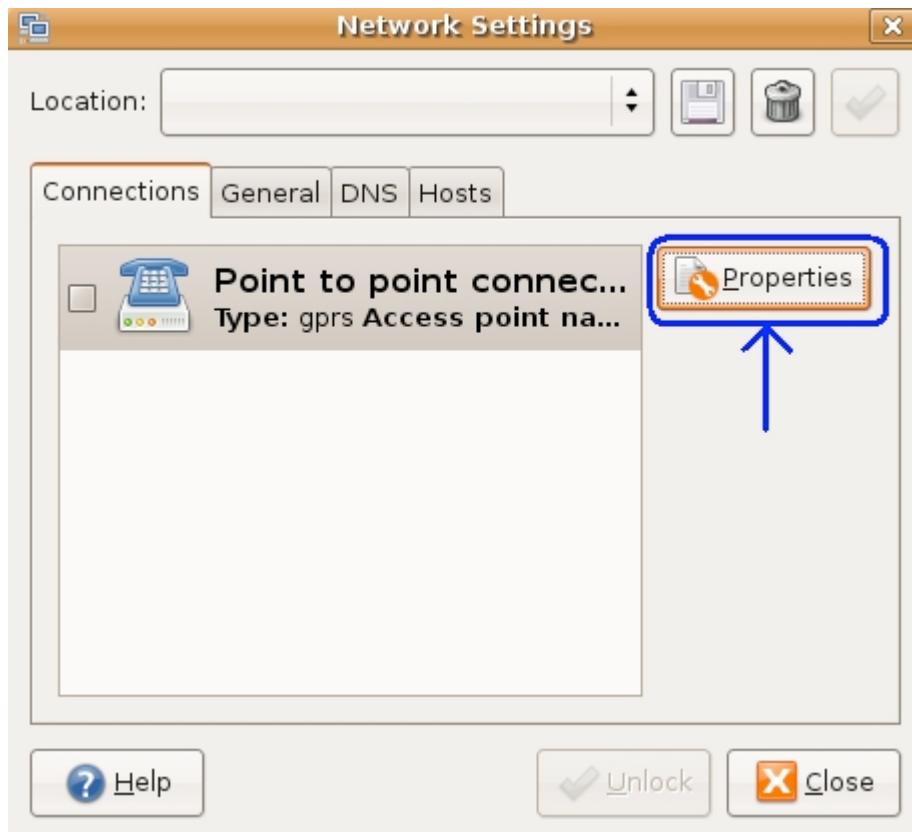
3 Setup GSM/UMTS Data card

3.1 Using Network Tools in Ubuntu8.04

1) Open Network Setting - Manual configuration

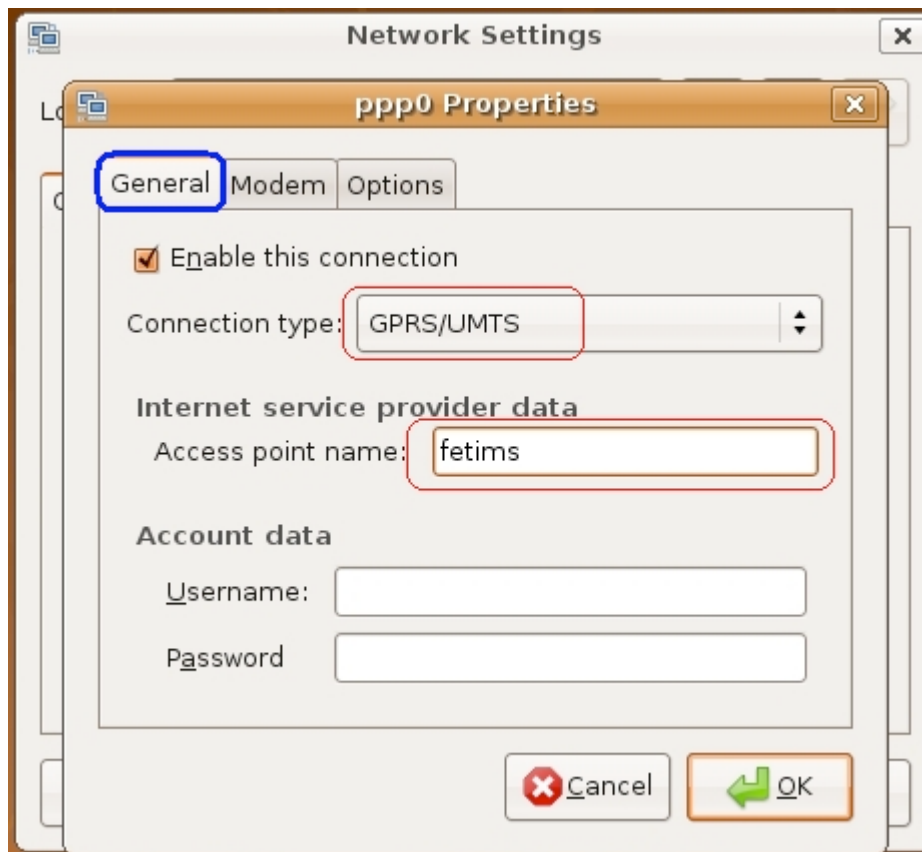


2) Connection => Point to Point Connection => Properties



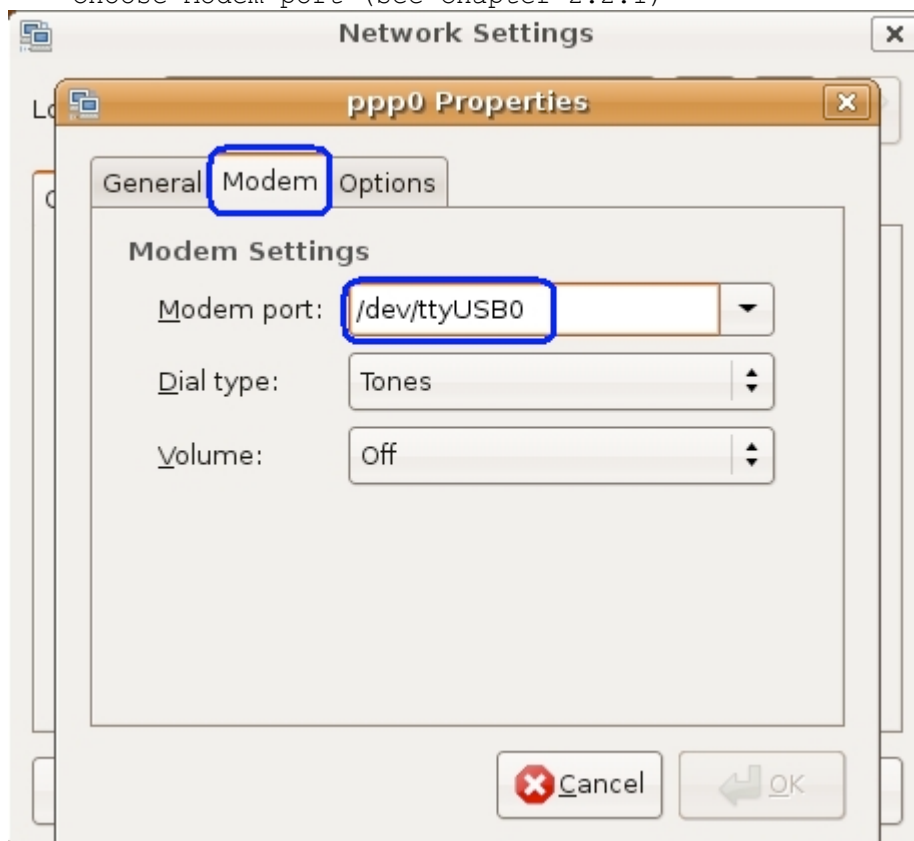
3) Choose menu item "General". Setup as following

- A. Enable this connection
- B. Choose Connection type = GPRS/UMTS
- C. Enter your "APN Name"
- D. Press "OK"

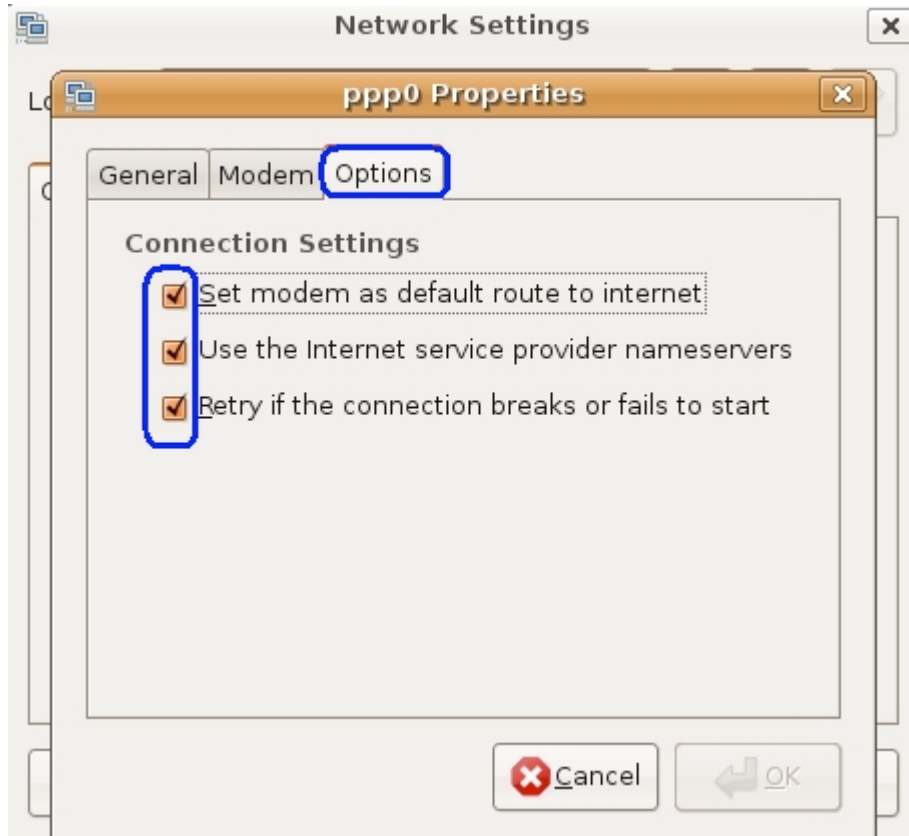


4) Choose menu item "Modem". Setup as following

Choose Modem port (See Chapter 2.2.1)



5) Choose menu item "Options". Setup as following
Select checkbox.

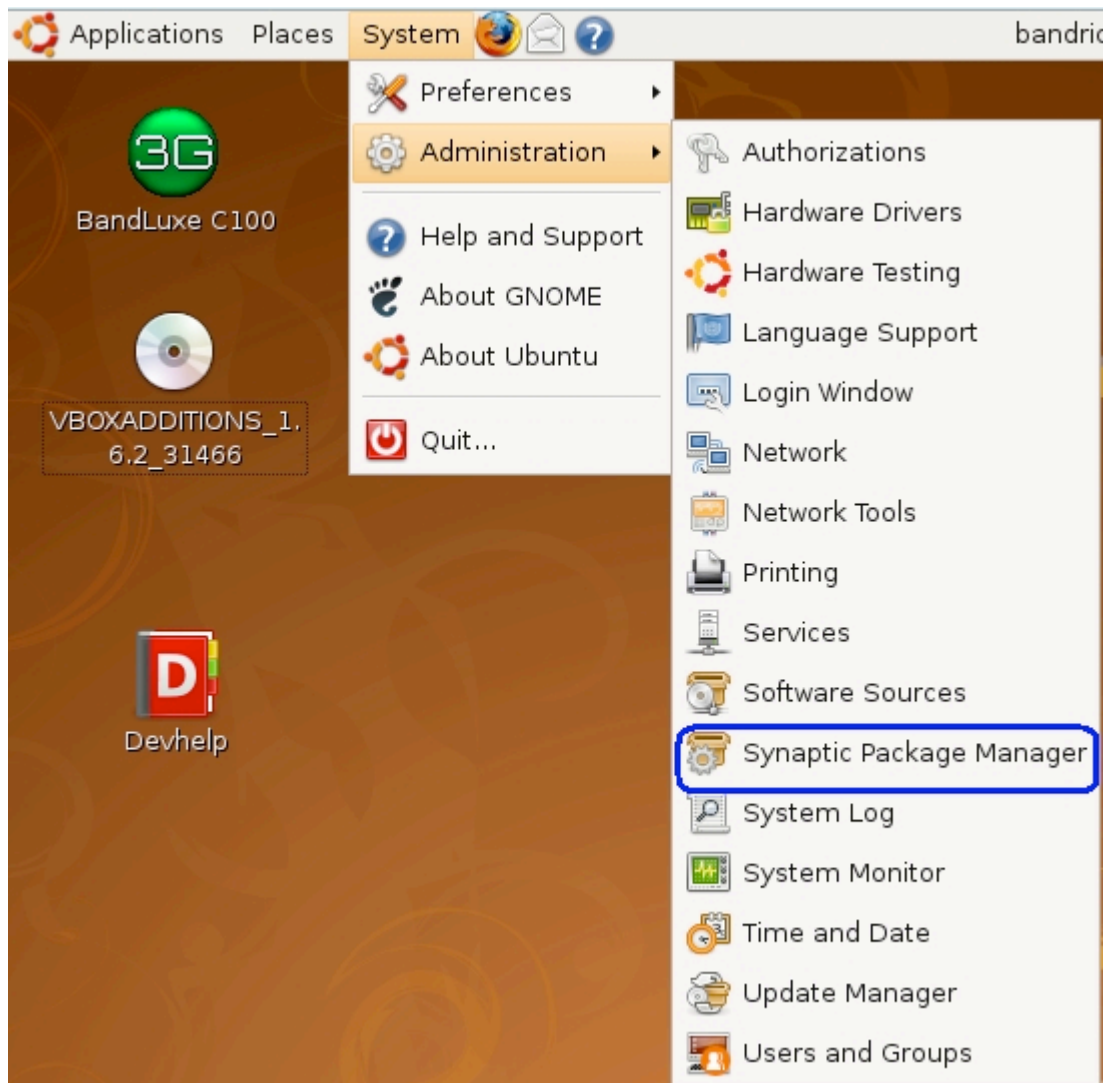


3.2 Using KPPP

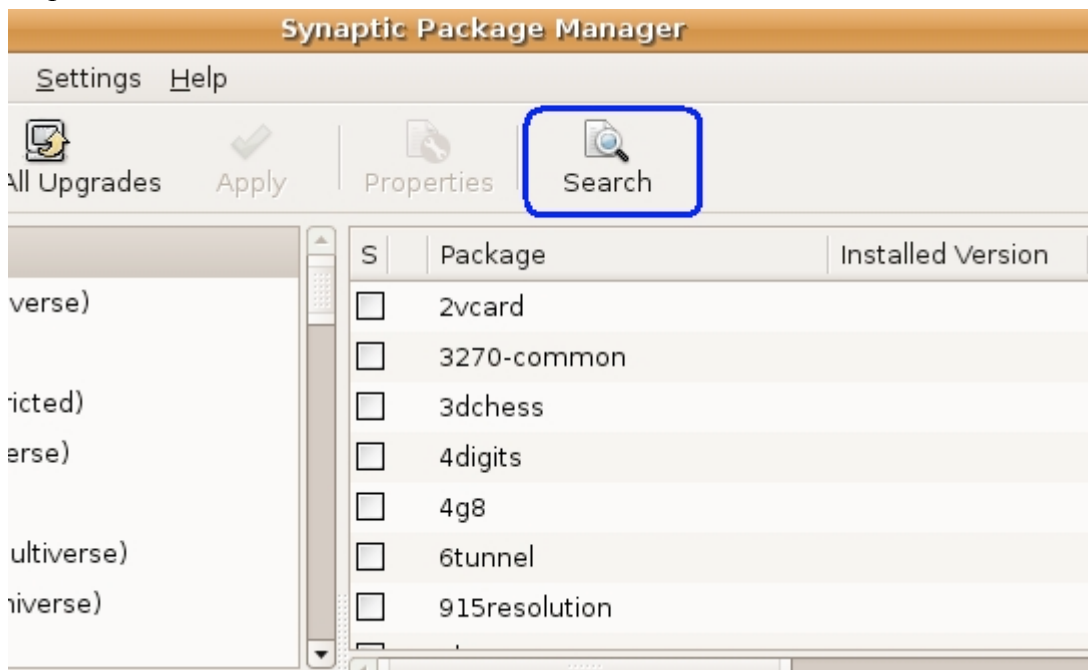
User can optional install the KPPP for modem dial-up.

3.2.1 Install KPPP

Step1: Using [Synaptic Package Manager](#) to install KPPP

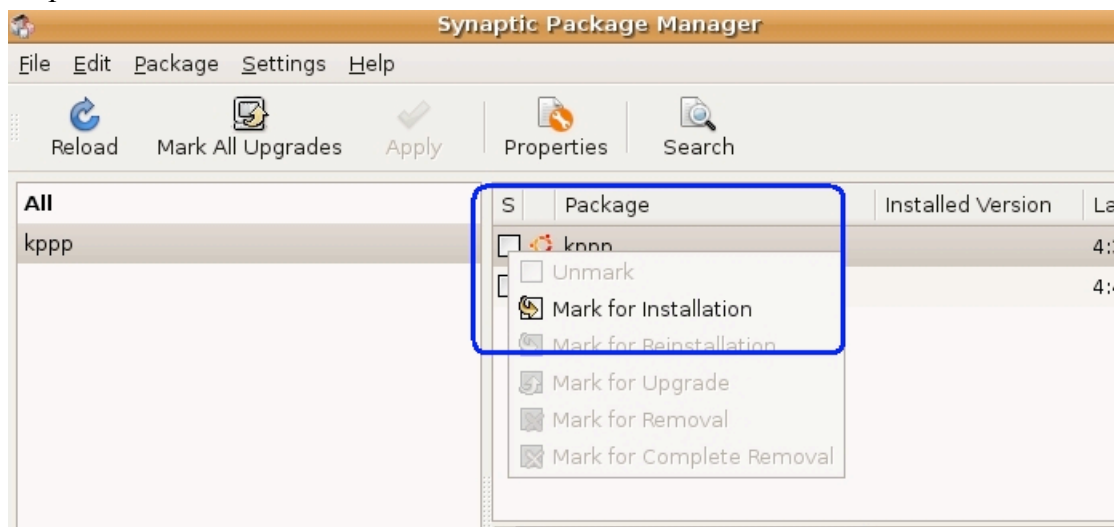


Setp2: Search “KPPP”

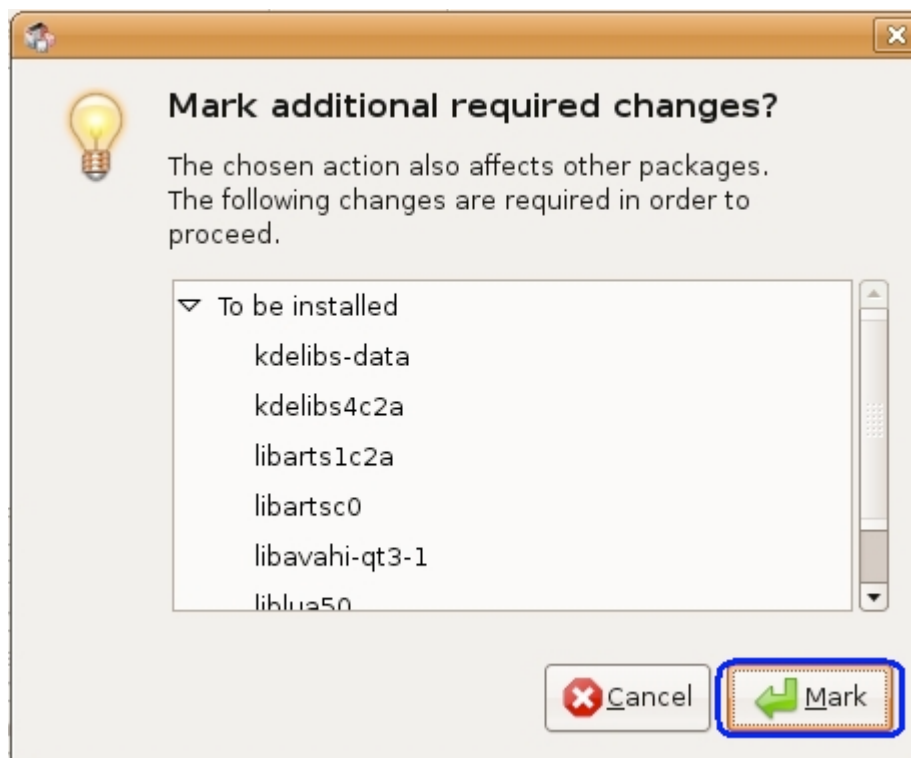




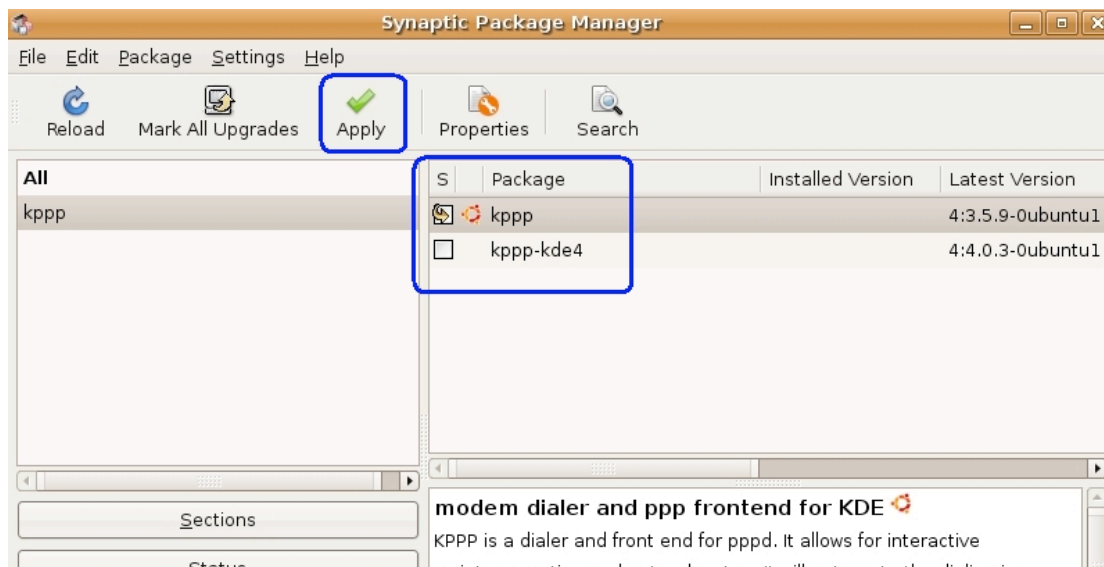
Setp3: Mark for Installation



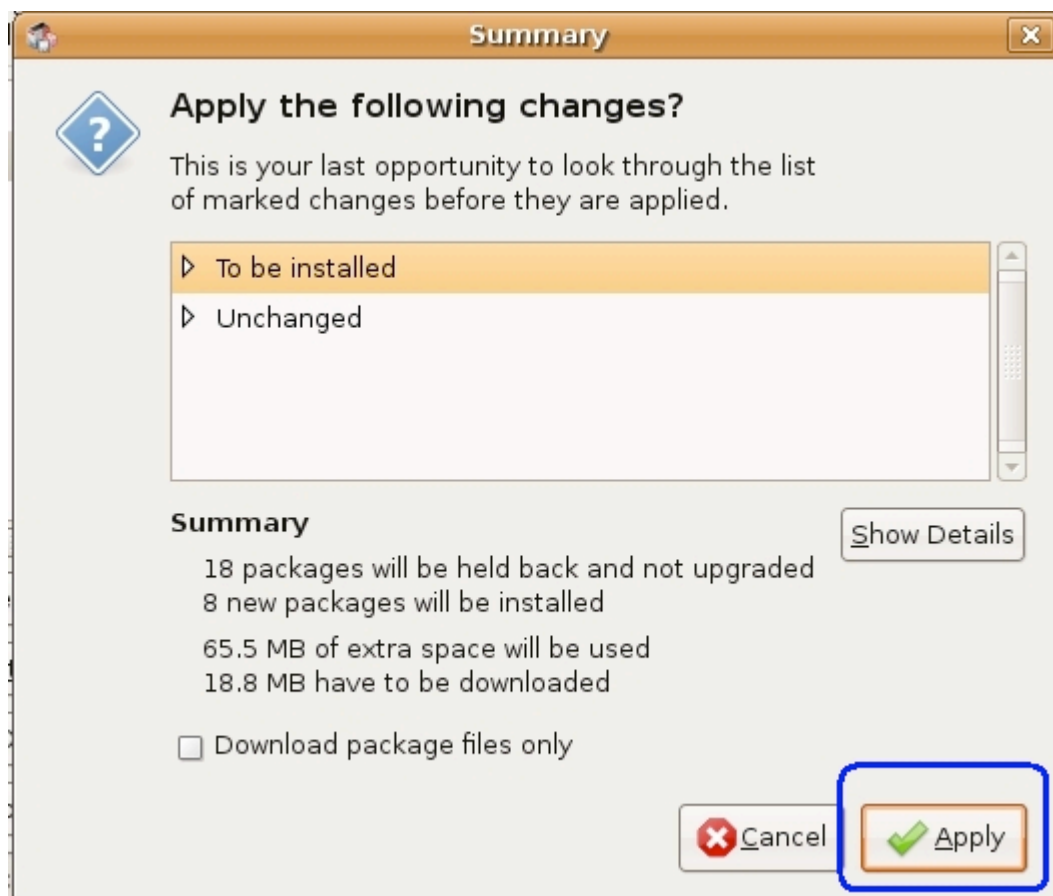
Setp4: Mark additional required changes



Setp5: Apply to install package

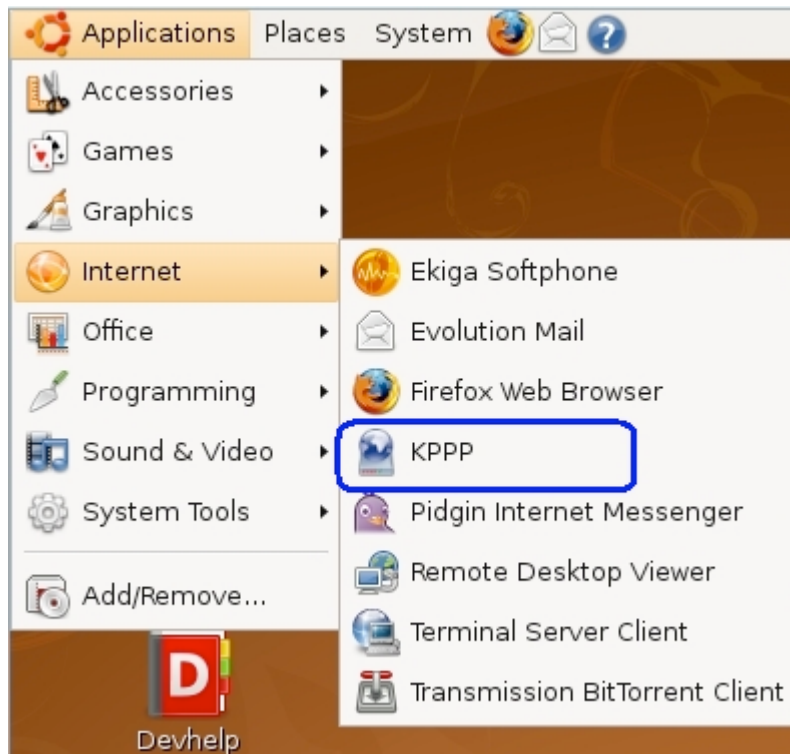


Setp6: Apply to install



3.2.2 Setup KPPP

Setp1: Choose KPPP

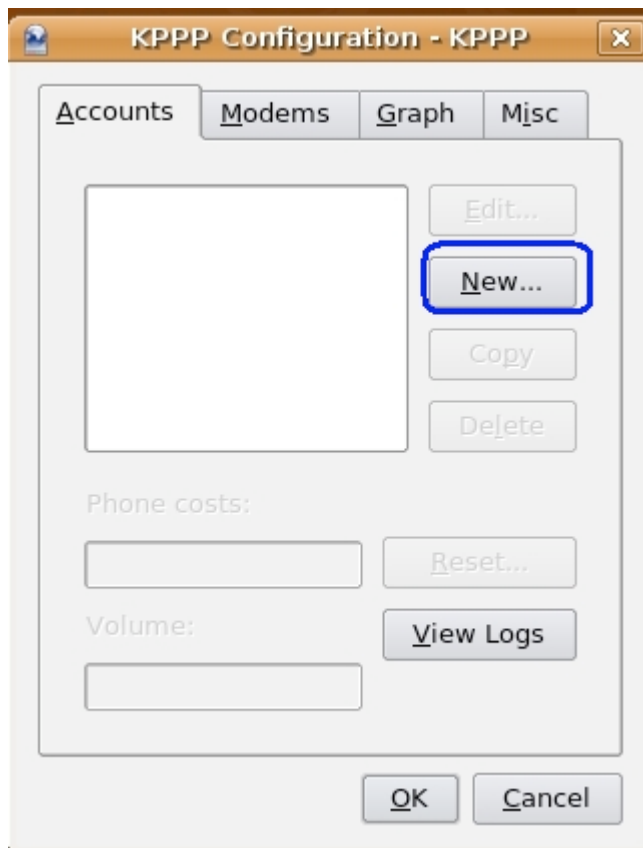


Setp2: Configure



Setp3: Add accounts

Choose [Accounts](#) => [New](#)



Setp4: Enter information

- 1) Connection Name
- 2) Phone number = *99#

New Account - KPPP

Dial IP Gateway DNS Login Script Execute Account

Connection name: FET

Phone number: *99#

Add...
Remove

Authentication: PAP/CHAP

☒ Store password

Callback type: None

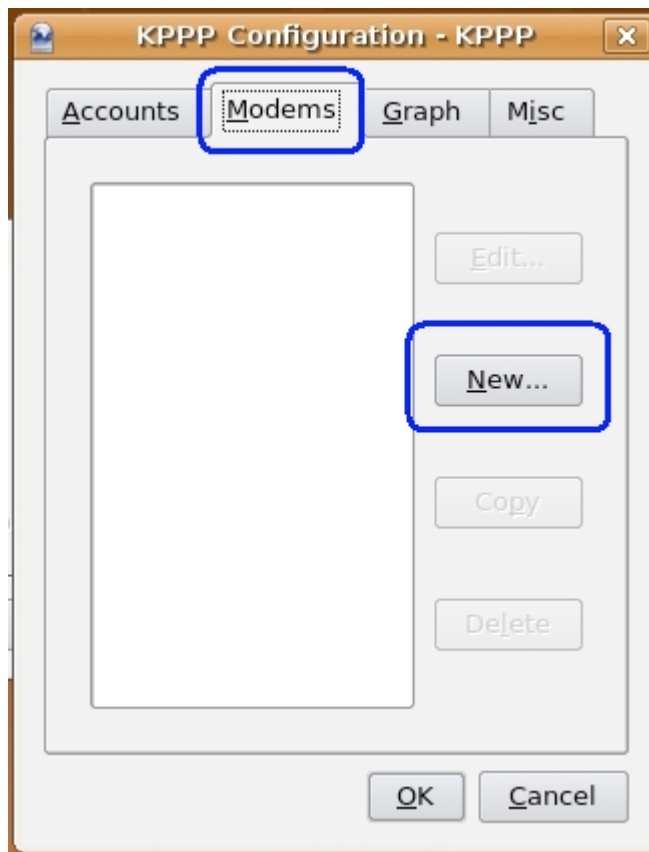
Callback number:

Customize pppd Arguments...

OK Cancel

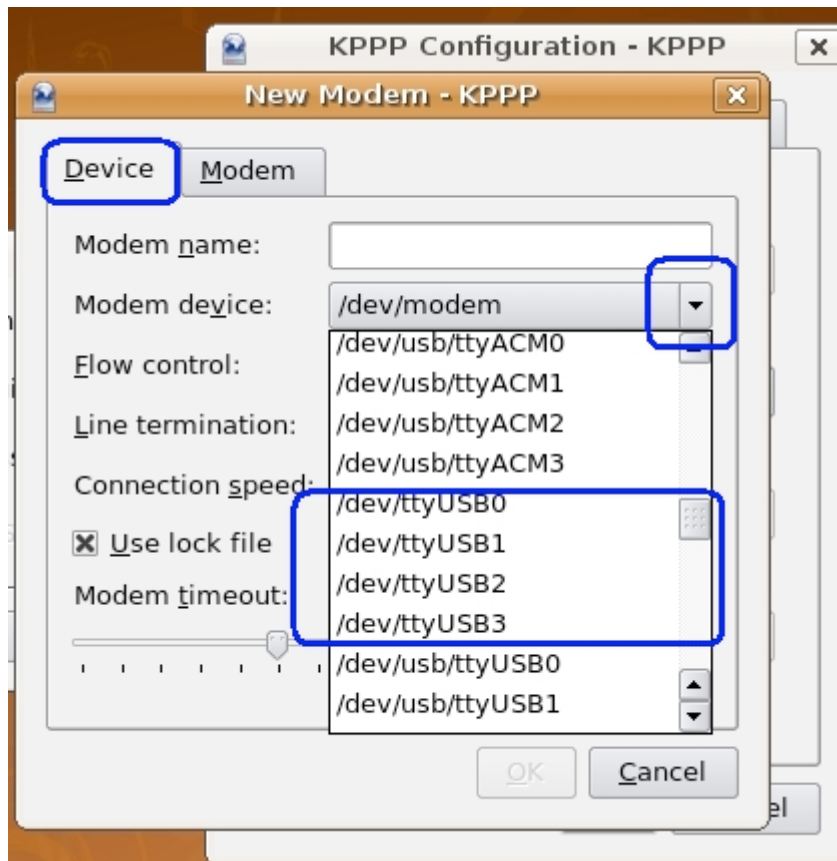
Setp5: Add modem information

- 1) Choose Modems
- 2) New

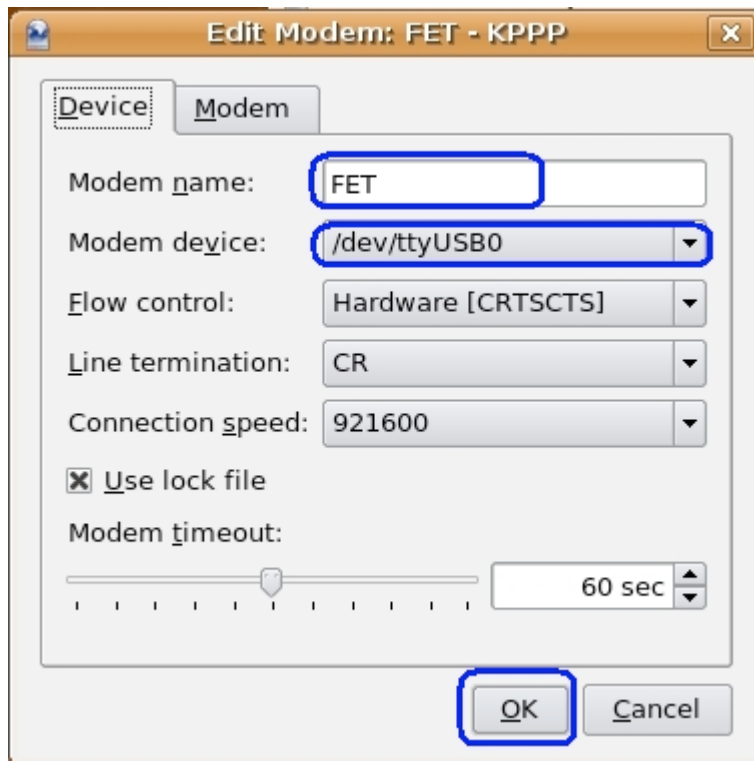


Setp6: Add Device information

1) Choose Modem port (See chapter 2.2.1)

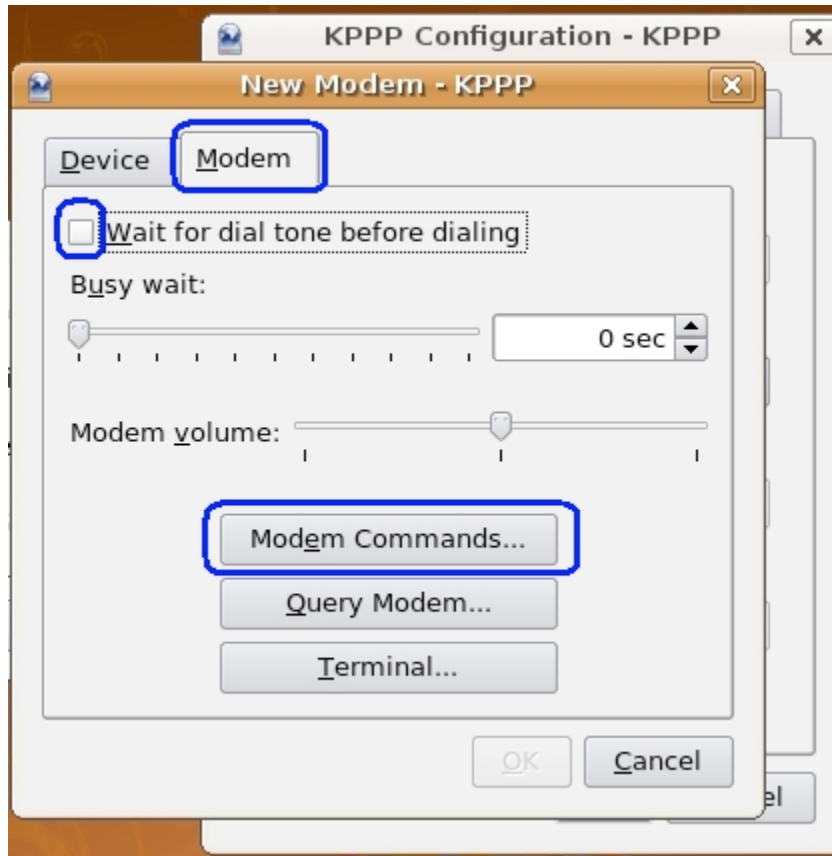


2) Enter modem name



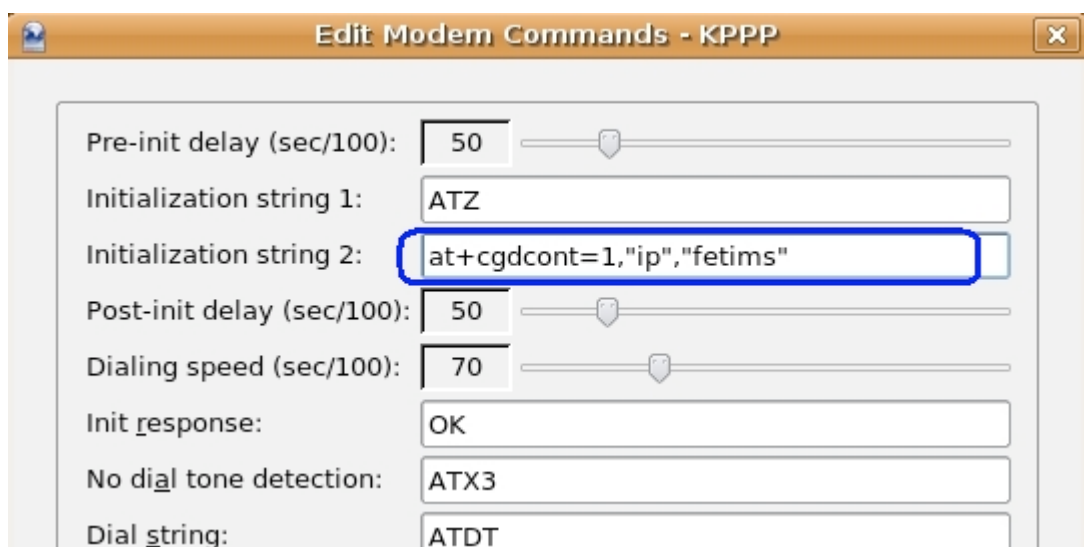
Setp7:

- 1) Choose Item [Modem](#)
- 2) Cancel checkbox [Wait for dial tone before dialing](#)
- 3) Click to Setup [Modem Commands](#)



Setp8:

Enter your APN as following. (`at+cgdcont=1,"ip","APN"`)
(EX: APN = fetims)



Setp9:

- 1) Enter [Login ID](#) and [Password](#)
- 2) Click [Connect](#)



Step10: See Status



4 Checking Data Card Status

After getting connected, BandLuxe data card's LED will light on continuously.
(Green: WCDMA, Blue: HSPA, PINK: GPRS/EDGE)

5 Trouble shooting

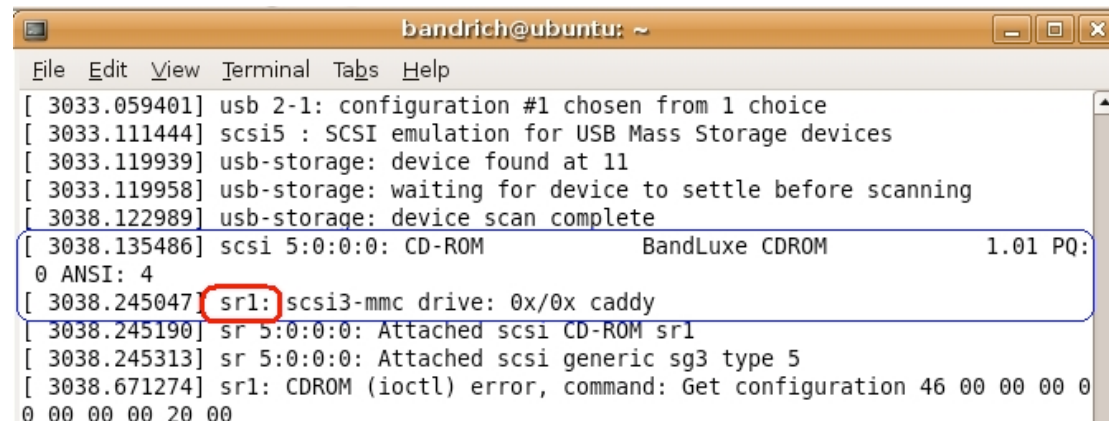
5.1 Only find BandLuxe CDROM, but can't find gsm modem

If you can find BandLuxe CDROM, You should try to eject cdrom.

Step1: Using command find information: `dmesg |tail -n 50`

Step2: Find BandLuxe CD-ROM, remember scsi id.

(EX: as the following, scsi id is **sr1**).



```
bandrich@ubuntu: ~  
File Edit View Terminal Tabs Help  
[ 3033.059401] usb 2-1: configuration #1 chosen from 1 choice  
[ 3033.111444] scsi5 : SCSI emulation for USB Mass Storage devices  
[ 3033.119939] usb-storage: device found at 11  
[ 3033.119958] usb-storage: waiting for device to settle before scanning  
[ 3038.122989] usb-storage: device scan complete  
[ 3038.135486] scsi 5:0:0:0: CD-ROM BandLuxe CDROM 1.01 PQ:  
0 ANSI: 4  
[ 3038.245047] sr1: scsi3-mmc drive: 0x/0x caddy  
[ 3038.245190] sr 5:0:0:0: Attached scsi CD-ROM sr1  
[ 3038.245313] sr 5:0:0:0: Attached scsi generic sg3 type 5  
[ 3038.671274] sr1: CDROM (ioctl) error, command: Get configuration 46 00 00 00 0  
0 00 00 00 20 00
```

Step3: Eject simulate cdrom

Using command: `eject /dev/sr1`

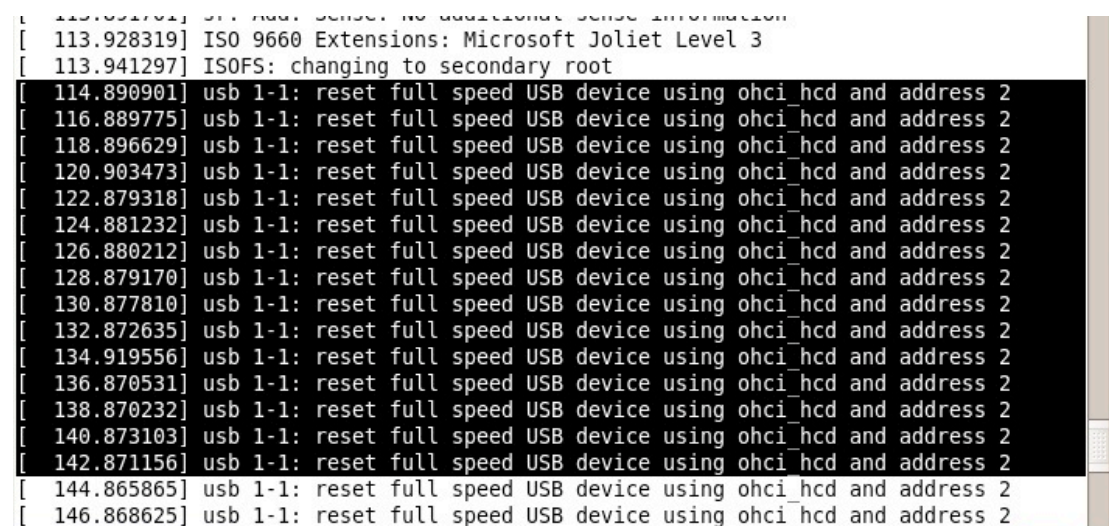
(Note: sr1, sr2, sr3, sr4 is possible)

Step4: Go to Chapter 2.2, check USB status again.

5.2 Find **reset full speed USB device message**

After using command: `dmesg |grep usb`

If you can find string: **reset full speed USB device**



```
[ 113.928319] ISO 9660 Extensions: Microsoft Joliet Level 3  
[ 113.941297] ISOFS: changing to secondary root  
[ 114.890901] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 116.889775] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 118.896629] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 120.903473] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 122.879318] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 124.881232] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 126.880212] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 128.879170] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 130.877810] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 132.872635] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 134.919556] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 136.870531] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 138.870232] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 140.873103] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 142.871156] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 144.865865] usb 1-1: reset full speed USB device using ohci_hcd and address 2  
[ 146.868625] usb 1-1: reset full speed USB device using ohci_hcd and address 2
```

You should contact your on-site support center to upgrade your firmware.