

# chan\_mobile

## Set Up Bluetooth on Linux

? Gempro Wireless VoIP Gateway ??

### Install packages

```
# For RedHat
yum install bluez bluez-tools

# For Debian/Ubuntu
apt-get install bluetooth bluez
```

### Service `bluetooth`

```
# For RedHat
systemctl restart bluetooth
systemctl status bluetooth
```

### Pair the BT devices

“ ?????????????????? Gempro Gateway ??????”

```
bluetoothctl

[bluetooth]#
Controller 00:1A:7D:DA:71:13
[Name: freepbx.sangoma.local
[Alias: freepbx.sangoma.local
[Class: 0x000104
[Powered: no
[Discoverable: no
[Pairable: no
```

```
□UUID: Generic Attribute Profile (00001801-0000-1000-8000-00805f9b34fb)
□UUID: A/V Remote Control (0000110e-0000-1000-8000-00805f9b34fb)
□UUID: PnP Information (00001200-0000-1000-8000-00805f9b34fb)
□UUID: Generic Access Profile (00001800-0000-1000-8000-00805f9b34fb)
□UUID: A/V Remote Control Target (0000110c-0000-1000-8000-00805f9b34fb)
□Modalias: usb:v1D6Bp0246d052C
□Discovering: no
```

```
[bluetooth]# power on
[bluetooth]# agent on
[bluetooth]# scan on
[bluetooth]# devices
Device 00:19:5D:3E:01:77 GP-712-1
Device 00:19:5D:24:C6:98 GP-712-2

[bluetooth]# pair 00:19:5D:3E:01:77
...
...
[agent] Enter PIN code: 0003
[CHG] Device 00:19:5D:3E:01:77 UUIDs: 00001108-0000-1000-8000-00805f9b34fb
[CHG] Device 00:19:5D:3E:01:77 UUIDs: 0000111e-0000-1000-8000-00805f9b34fb
[CHG] Device 00:19:5D:3E:01:77 ServicesResolved: yes
[CHG] Device 00:19:5D:3E:01:77 Paired: yes
Pairing successful

[bluetooth]#
[bluetooth]# paired-devices
Device 00:19:5D:3E:01:77 GP-712-1
```

## Set Up Asterisk

```
[root@freepbx ~]# asterisk -rx "module show like chan_mobile"
```

Module	Description	Use Count
Status	Support Level	
chan_mobile.so	Bluetooth Mobile Device Channel Driver	0
Running	extended	Not
1 modules loaded		

Create `/etc/asterisk/chan_mobile.conf` :

[general]

interval=30 ; Number of seconds between trying to connect to devices.

; The following is a list of adapters we use.

; id must be unique and address is the bdaddr of the adapter from hciconfig.

; Each adapter may only have one device (headset or phone) connected at a time.

; Add an [adapter] entry for each adapter you have.

[adapter]

id=usbbt1

address=00:1A:7D:DA:71:13

;forcemaster=yes; attempt to force adapter into master mode. default is no.

;alignmentdetection=yes ; enable this if you sometimes get 'white noise' on asterisk side of the call

;; ; its a bug in the bluetooth adapter firmware, enabling this will compensate for it.

;; ; default is no.

; The following is a list of the devices we deal with.

; Every device listed below will be available for calls in and out of Asterisk.

; Each device needs an adapter=xxxx entry which determines which bluetooth adapter is used.

; Use the CLI command 'mobile search' to discover devices.

; Use the CLI command 'mobile show devices' to see device status.

;

; To place a call out through a mobile phone use Dial(Mobile/[device]/NNN.....) or Dial(Mobile/gn/NNN.....) in your dialplan.

; To call a headset use Dial(Mobile/[device]).

[GP712P1]

address=00:19:5D:3E:01:77 ; the address of the phone

port=1 ; the rfcomm port number (from mobile search)

context=incoming-mobile ; dialplan context for incoming calls

adapter=usbbt1 ; adapter to use

group=1 ; this phone is in channel group 1

;sms=no ; support SMS, defaults to yes

;nocallsetup=yes ; set this only if your phone reports that it supports call progress notification, but does not do it. Motorola L6 for example.

## bluetoothctl (optional)

Available commands:

```
list
show [ctrl]
select <ctrl>
devices
paired-devices
system-alias
connect <address>
disconnect
remove <address>
power <on/off>
mode <mode>
agent <on/off/capability/timeout>
default-agent
scan <on/off>
pairable <on/off>
pair <address>
discoverable <on/off>
info <address>
menu <command>
quit
```

### Other commands

```
# Listing all known devices
[bluetooth]# devices

# Powering the Bluetooth controller on or off
```

```
[bluetooth]# power on
```

```
# Pairing with a device
```

```
[bluetooth]# pair <mac_address>
```

```
# Remove a device
```

```
[bluetooth]# remove <mac_address>
```

```
# Connecting to a paired device
```

```
[bluetooth]# connect <mac_address>
```

```
# Disconnecting from a paired device
```

```
[bluetooth]# disconnect <mac_address>
```

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