How to install and configure OpenVox B200P on Trixbox 2.8.0.3

This will certainly work for B400P as well as the B200P and you should not have to alter the detection script for mISDN (see below).

Note: Trixbox 2.8.0.3 includes mISDN.

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1. Install your B200P card into available PCI slot, check the settings on your card to ensure suitable for your setup (tested here with both ports in TE mode).

2. Install Trixbox 2.8.0.3 as normal from the boot CD, allow to complete fully.

3. When installed, load a command prompt and issue the 'lspci' command, you should see something like this in the output:

   ```
   00:10.0 ISDN controller: Cologne Chip Designs GmbH ISDN network Controller [HFC-
   4S] (rev 01)
   ```

   If you don't see this, then the system cannot detect your card. You need to fix this before you go any further!

4. Now, create symbolic links for some of the mISDN files so they can be found. Run these commands on the Trixbox:

   ```
   ln -s /usr/lib/libisdnnet.so /usr/lib/libisdnnet.so.0
   ln -s /usr/lib/libmISDN.so /usr/lib/libmISDN.so.0
   ln -s /usr/lib/libsuppserv.so /usr/lib/libsuppserv.so.0
   ```

5. If you are using a B200P (2 Port BRI) you will need to change the file that detects the card for mISDN:

   ```
   cd /usr/sbin
   vi mISDN
   ```

   Look for line 277 (line number may not be accurate, but near the end) and change to:

   ```
   elif ${LSPCI} -n -v -s "${line:5}" | ${GREP} "Subsystem" | ${GREP}
   "1397:b566\|1397:e884" > /dev/null
   ```

6. Configure the mISDN by running the following commands:

   ```
   cd /usr/sbin
   mISDN scan
   ```

   This should report that it found the card installed. You can now run:

   ```
   mISDN config
   mISDN start
   ```

7. Check the card is working and can be seen in Asterisk by restarting, and then checking the mISDN stacks:

```
amportal restart
asterisk -r
CLI*> misdn show stacks
```

You should see something like this:

```
BEGIN STACK_LIST:
  * Port 1 Type TE Prot. PMP L2Link DOWN L1Link:DOWN Blocked:0  Debug:0
  * Port 2 Type TE Prot. PMP L2Link DOWN L1Link:DOWN Blocked:0  Debug:0
```

8. Once this is working ok, you will need to edit the rc.local script to start mISDN before asterisk each time the server is booted:

```
vi /etc/rc.d/rc.local
```

insert the command:

```
/usr/sbin/mISDN start
```

before the line:

```
/usr/sbin/amportal start
```

9. Save & reboot your Trixbox to check that everything is working as expected at startup, i.e. you can load asterisk –r and see the mISDN stacks.

10. For outgoing calls, you will need to setup custom trunks in FreePBX. Each trunk refers to a single ISDN BRI (2 voice channels), so for B200P I set 2 custom trunks:

Custom Dial String: mISDN/1/$OUTNUM$
Custom Dial String: mISDN/2/$OUTNUM$

11. For incoming calls to work, you need to change the incoming context in the mISDN conf file, this can be found at /etc/asterisk/misdn.conf

Look for this section:

```
[intern]
; define your ports, e.g. 1,2 (depends on mISDN-driver loading order)
ports=1,2
; context where to go to when incoming Call on one of the above ports
context=Intern
```

Comment out:
```
; context=Intern
```
and insert
```
context=from-pstn
```

12. You can now save & reload the file (or reboot) and then use the normal Trixbox / FreePBX tools to configure the rest of your dial-plan.