

<p>◆</p> <div class="Section1"> <p class="MsoNormal">Astlinux discovers the Zaptel card automatically very nicely thanks.◆ But getting it to◆ be persistent is a little tricky.</p> <p class="MsoNormal">Firstly you will notice that the file/etc/zaptel.conf does not exist. Just a pointer to /tmp/etc/zaptel.conf which doesn◆t exist. So create it.</p> <p class="MsoNormal">◆</p> <p class="Console">pbx# touch /tmp/etc/zaptel.conf</p> <p class="MsoNormal">Now edit it and add the following:</p> <p class="ConsoleCxSpFirst">loadzone=au</p> <p class="ConsoleCxSpMiddle">defaultzone=au</p> <p class="ConsoleCxSpLast">fxsks=1</p> <p class="MsoNormal">Save it</p> <p class="MsoNormal">◆</p>
 <p class="MsoNormal">Probe for the card:</p> <p class="ConsoleCxSpFirst">pbx# modprobe wcfxo</p> <p class="ConsoleCxSpMiddle">pbx# ztcfg ◆vv </p> <p class="ConsoleCxSpMiddle">Zaptel Configuration</p> <p class="ConsoleCxSpMiddle">=====</p> <p class="ConsoleCxSpMiddle"></p> <p class="ConsoleCxSpMiddle"></p> <p class="ConsoleCxSpMiddle">Channel map:</p> <p class="ConsoleCxSpMiddle"> </p> <p class="ConsoleCxSpMiddle">Channel 01: FXS Kewlstart (Default) (Slaves: 01)</p> <p class="ConsoleCxSpMiddle"> </p> <p class="ConsoleCxSpMiddle">1 channels configured.</p> <p class="ConsoleCxSpMiddle"> </p> <p class="ConsoleCxSpLast">Changing signalling on channel 1 from Unused to FXS Kewlstart</p> <p class="MsoNormal">Now restart Asterisk ◆ not easy to do</p> <p class="Console">pbx*CLI> restart now</p> <p class="MsoNormal">And wait. And wait a bit more. When you◆ve given up waiting, type a few commands and notice that there is no output. When the screen finally freezes up, hit ^c and find out the process number with ps</p> <p class="MsoNormal"></p> <p class="ConsoleCxSpFirst">pbx# ps </p> <p class="ConsoleCxSpMiddle"></p> <p class="ConsoleCxSpMiddle"><output omitted></p> <p class="ConsoleCxSpMiddle"></p>

1415 root 5392
 S asterisk -p
 class="ConsoleCxSpMiddle">1416 root 5392
 S asterisk -p
 class="ConsoleCxSpMiddle">1430 root 5392
 S asterisk -p
 class="ConsoleCxSpMiddle">1436 root 5392
 S asterisk p
 class="ConsoleCxSpLast">omitted
 class="MsoNormal">Now kill the 1st Asterisk process
 and restart asterisk
 class="ConsoleCxSpFirst">pbx# kill
 1415
 class="ConsoleCxSpLast">pbx#
 asterisk(or perhaps that should be asterisk
 p)
 class="MsoNormal">Then
 check
 class="ConsoleCxSpFirst">
 pbx asterisk
 # asterisk -r
 class="ConsoleCxSpMiddle">Asterisk 1.2.7.1,
 Copyright (C) 1999 - 2006 Digium, Inc. and
 others.
 class="ConsoleCxSpMiddle">Created by Mark
 Spencer <markster@digium.com>
 class="ConsoleCxSpMiddle">Asterisk comes with
 ABSOLUTELY NO WARRANTY; type 'show warranty' for
 details.
 class="ConsoleCxSpMiddle">This is free software,
 with components licensed under the GNU General
 Public
 class="ConsoleCxSpMiddle">License version 2 and
 other licenses; you are welcome to redistribute it
 under
 class="ConsoleCxSpMiddle">certain conditions.
 Type 'show license' for details.
 class="ConsoleCxSpMiddle">=====
 =====
 class="ConsoleCxSpMiddle">Connected to Asterisk

```
1.2.7.1 currently running on pbx (pid = 1938)
<p class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>pbx*CLI> zap
show channels</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><span><strong><strong><strong><strong>
</strong></strong></strong></strong></span><strong><strong><strong><strong>Chan
Extension<span> </span>Context<span> </span>Language<span>
</span>MusicOnHold<span> </span></strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><span><strong><strong><strong><strong>
</strong></strong></strong></strong></span><strong><strong><strong><strong>pseudo<span>
> </span>incoming<span> </span></strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><span><strong><strong><strong><strong>
</strong></strong></strong></strong></span><strong><strong><strong><strong>1<span>
</span>incoming<span> </span></strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>pbx*CLI> zap show
channel 1</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Channel:
1</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>File Descriptor:
14</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Span: 2>
</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Extension:
</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Dialing:
no</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Context:
incoming</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Caller ID:
</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Calling TON:
0</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Caller ID name:
</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Destroy:
0</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>InAlarm:
1</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Signalling Type: FXS
Kewlstart</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Radio:
0</strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Owner:
<None></strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Real:
<None></strong></strong></strong></strong></span></p> <p
class="ConsoleCxSpMiddle"><span><strong><strong><strong><strong>Callwait:
```

<None></p> <p class="ConsoleCxSpMiddle">Threeway:</p> <p class="ConsoleCxSpMiddle">Confno:</p> <p class="ConsoleCxSpMiddle">Propagated Conference: -1</p> <p class="ConsoleCxSpMiddle">Real in conference: 0</p> <p class="ConsoleCxSpMiddle">DSP: no</p> <p class="ConsoleCxSpMiddle">Relax DTMF: yes</p> <p class="ConsoleCxSpMiddle">Dialing/CallwaitCAS: 0/0</p> <p class="ConsoleCxSpMiddle">Default law: ulaw</p> <p class="ConsoleCxSpMiddle">Fax Handled: no</p> <p class="ConsoleCxSpMiddle">Pulse phone: no</p> <p class="ConsoleCxSpMiddle">Echo Cancellation: 128 taps, currently OFF</p> <p class="ConsoleCxSpMiddle">Actual Confinfo: Num/0, Mode/0x0000</p> <p class="ConsoleCxSpMiddle">Actual Confmute: No</p> <p class="ConsoleCxSpMiddle">Hookstate (FXS only): Onhook</p> <p class="ConsoleCxSpLast">pbx*CLI</p> <h2>Now to make it persistent using the USB key</h2> <p class="MsoNormal">Great.Now when we reboot, not even asterisk starts, and the file /tmp/etc/zaptel.conf doesn't exist anymore either. <p class="MsoNormal"></p> <p class="MsoNormal">Copying a new /tmp/etc/zaptel.conf to /mnt/kd/zaptel.conf fixes that, and is now persistent on reboots.</p> <p class="MsoNormal"></p>

However, to make the system recognise the X100P card each time, you have to edit /mnt/kd/rc.conf. Find the line that starts ZAPMODS.

a) #ZAPMODS="wctdm" and

b) uncomment it and change the wctdm to wcfxo

Save the file and when you reboot all will be sweet ;)

Note: This should not be necessary  wcfxo has been officially replaced by wctdm but that's  how I got it to work. 