

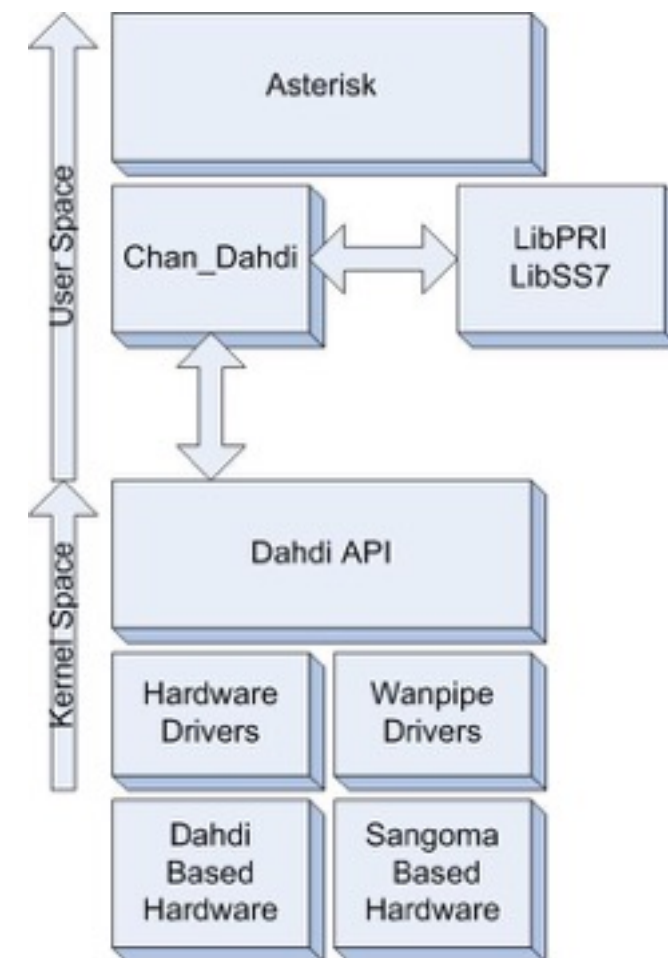
# sanog25, Kandy

# Connecting PSTN

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# Dahdi Architecture

- Dahdi API abstracts TDM hardware from User space apps
- Dahdi takes care of DTMF, HDLC framing, echo cancelling, some DSP processing, some signaling (analog, E&M, etc)
- Chan\_Dahdi takes care of interfacing to Asterisk and some signalling



# Dhadi does a lot

- Dahdi by default does:
  - Echo Cancelling
  - HDLC Framing
  - DSP Processing (DTMF, Fax detection)
- Why...?
  - Software is cheaper than hardware
- Solution...Move it to hardware
  - Hardware EC
  - Hardware HDLC
  - Hardware DTMF
  - Hardware Fax Detection
  - FPGAs and DSPs are cheap and efficient

# System.conf

```
span=1,0,0,ccs,hdb3  
# termtype: te  
bchan=1-15,17-31  
mtp2=16  
echocanceller=mg2,1-15,17-31
```

```
span=2,0,0,ccs,hdb3,crc4  
#span=2,0,0,ccs,hdb3  
bchan=32-46,48-62  
dchan=47  
echocanceller=mg2,32-46,48-62
```

```
# Global data
```

```
loadzone          = us  
defaultzone       = us
```

# chan\_dahdi.conf

```
[trunkgroups]
[channels]
context=pstn-context
usecallerid=yes
callwaiting=yes
usecallingpres=yes
callwaitingcallerid=yes
threewaycalling=no
transfer=no
canpark=no
cancallforward=yes
callreturn=no
relaxdtmf=yes
echocancel=yes
echocancelwhenbridged=yes
echotraining=800
```

# chan\_dahdi.conf

```
group=2  
signalling=pri_net  
switchtype=national  
context=from-PSTN  
channel=>32-46,48-62
```

# chan\_dahdi.conf

```
linkset=1  
group=1  
context=from-SS7  
signalling=ss7  
ss7type=itu  
networkindicator=national  
switchtype=national  
accountcode=PSTN  
amaflags=billing
```

```
pointcode=4540  
adjpointcode=2944  
defaultdpc=2944
```

```
cicbeginswith=1  
channel=1-15  
sigchan=16  
cicbeginswith=17  
channel=17-31
```

# extensions.conf

- `exten => _X.,1,Dial(DAHDI/g1/${EXTEN})`