

Accessing detailed information from “Under the hood”



Logging in

You may connect to one of:

- A screen and keyboard on the PABX
- A serial console connected to the RS232 port on the PABX
- An SSH session assuming the firewall permits it

Using a serial terminal emulator or ssh client is generally the best option as it usually allows the capture of the output for later analysis. Most of the data output by the commands below is LARGE and will run to hundreds or thousands of lines of information.

You will need to log on as the user “root” using the supplied password.

NOTE: that the “root” user has sufficient system rights to cause severe damage to the system in inexperienced hands – Do not use this if you are unsure!

General

To list all call legs in progress:

```
# rasterisk  
pabx> show channels
```

Each call will show an inbound and outbound call leg.

SIP trace

To list all SIP devices and trunks:

```
# rasterisk  
pabx> sip show peers
```

If monitoring is enabled, the device reachability will be shown otherwise “Unknown”.

```
pabx> sip show registry
```

To enable tracing:

```
# rasterisk  
pabx> set verbose 5
```

Then either

```
pabx> sip debug peer <peer-name>
```

or

```
pabx> sip debug ip <ip address>
```

To end/disable tracing:

```
pabx> sip no debug
pabx> set verbose 0
pabx> quit
```

IAX trace

To list all IAX devices and trunks:

```
# rasterisk
pabx> iax2 show peers
```

Device reachability will be shown where possible.

```
pabx> iax2 show registry
```

To enable tracing:

```
# rasterisk
pabx> set verbose 5
pabx> iax2 debug
```

To end/disable tracing:

```
pabx> iax2 no debug
pabx> set verbose 0
pabx> quit
```

ISDN trace

To show ISDN trunk status:

```
# cat /proc/zaptel/*
```

There should be no "Red" or "Yellow" alarms mentioned except where a cable is not connected. The "D-Channel" or "HDLCFCS" and the correct number of B-Channels depending on your service should all show "In Use"

To enable tracing:

```
# rasterisk
pabx> set verbose 5
```

Then either

```
pabx> pri debug span <span-number>
```

or

```
pabx> pri intense debug span <span-number>
```

the intense debug is generally more useful, but can be significantly harder to understand and generates massive amounts of output.

To end/disable tracing:

```
pabx> pri no debug span <span-number>
pabx> set verbose 0
pabx> quit
```