

## Ham 312 - As3 app cos-led

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AllStarLink uses several configuration files, allowing custom configuration for some purposes. 'rpt.conf' contains the node features. 'simpleusb.conf' holds the sound-card control.

Earlier versions required BASH (Bourne Again Shell) skills. Now text editing is the only thing required. AllStarLink Main Menu >6-Expert Config Menu >1-Edit 'rpt.conf' file.

Select your editor. I prefer nano, since it is common across all Linux systems. All these are very basic.

To change editor later, from terminals type select-editor.

You are now in the text file used for app set-up.

Comments start with ; I begin mine with CAPITAL initials so it is easy to re-find. Please comment every line.

Examples are extensive. I leave the example, then copy my changes below. That makes it easier to undo.

Likely the first change to a file will be activation of the LEDs on the RL-20 board. Two files require change.

The first is rpt.conf.

Scroll down to stanza [functions], which determines what happens with key pushes.

Replicate 962 below the commented example, with two new lines.

We are telling the app that when 961 is detected, then turn LED on. When 962 is detected, turn LED off.

```
;961 = cop,61          ; Send Message to USB to ctrl GPIO pins (cop,61,GPIO1=0[,GPIO4=1].)
;962 = cop,62          ; Send Message to USB to GPIO, quietly (cop,62,GPIO1=0[,GPIO4=1] )
961 = cop,62,GPIO8=1   ; MOD Send message to GPIO pin8 - turn on COS LED
962 = cop,62,GPIO8=0   ; MOD Send Message to GPIO pin8 - turn off COS LED
```

Scroll down to stanza [events]. Uncomment, remove the ';'. Add two lines.

We are telling the app when RXKEYED is sensed true, turn on COS. When it is sensed false, turn off COS LED. RXKEYED is one of the 11 Show Variables for exchange between Asterisk and AllStarLink.

No documentation tell how they work.

```
[events]
;;;; Events Management ;;;;
;status,2 = c|f|RPT_NUMLINKS      ; Say time of day when all links disconnect.
;582201,*961 = f|t|RPT_RXKEYED     ; MOD Trigger COS when RXKEYED = true
582201,*962 = f|f|RPT_RXKEYED     ; MOD Release COS when RXKEYED = false
```

You just reprogrammed the app. It is a two step process. Sense if RXKEYED? Send that result to the GPIO. Save the file and exit. 'Ctrl-X' to Exit. 'y' to save. <Enter> to accept filename.

Back to the 6-Expert Config Menu. Arrow down to highlight 'simpleusb.conf' then <Enter>.

Near the bottom is 'Configure your nodes here'.

Under the stanza [NNNNN], add a line to instruct the USB sound card.

```
[NNNNN] (node-main)
rxboost = yes
ctcssfrom = no
gpio8=out0          ; MOD COS LED
```

Save the file and exit. 'Ctrl-X' to Exit. 'y' to save. <Enter> to accept filename.

Parrot one time allows you to hear the mic over the speaker, when enter \*955 and speak while mic still down.

In rpt.conf uncomment line.

```
955 = cop,55          ; Parrot Once if parrot mode is disabled
```

To return from Expert Config Menu, <tab> <tab> <enter>.

Rpt.conf manipulates the control and programmable options on the node. See

<https://wiki.allstarlink.org/wiki/Rpt.conf#idrecording.3D>

[https://wiki.allstarlink.org/index.php?title=Macro\\_use\\_and\\_format&modqueued=1](https://wiki.allstarlink.org/index.php?title=Macro_use_and_format&modqueued=1) for how to make shortcut.

There are numerous options that can be invoked. Most are a simple line.

Almost any of the options can be replaced by a directory and filename, which allow more sophistication.

We have several if you want to pursue more customization.

Restart Asterisk after changes to .conf, for differences to take effect.

Life is good. Enjoy.

