

```

; Radio Repeater configuration file (for use with app_rpt)
; Your Repeater
;
;
; This is where you define your nodes which can be connected to.
;

[nodes]
; Note, if you are using automatic update for allstar link nodes,
; no allstar link nodes should be defined here. Only place a definition
; for your local nodes, and private (off of allstar link) nodes here.

1331 = radio@127.0.0.1:4569/1331,NONE      ; This must be changed to your node
number
; 1335 added by raa *****
1335 = radio@127.0.0.1:4569/1335,NONE    ; and iax port number if not the default

; ***** Start of Node 1331 ***** raa

[1331]
; Change this to your assigned node number

; Must also be enabled in modules.conf
; Rx audio/signalling channel. Choose ONLY 1 per node
stanza

; Enable the selected channel driver in
modules.conf !!!
; rxchannel = dahdi/pseudo          ; No radio (hub)
rxchannel = SimpleUSB/usb_1331      ; SimpleUSB
; rxchannel = Pi/1                  ; Raspberry Pi PiTA
; rxchannel = Radio/usb_1331        ; USBRadio (DSP)
; rxchannel = Dahdi/1                ; PCI Quad card
; rxchannel = Beagle/1               ; BeagleBoard
; rxchannel = USRP/127.0.0.1:34001:32001; GNU Radio interface USRP
; rxchannel = Voter/1331             ; RTCM device

duplex = 2                          ; 0 = Half duplex with no telemetry tones
or hang time.                       ;
linktolink is set to yes.           ; Special Case: Full duplex if
interfacing with an external multiport repeater controller.
; This mode is preferred when
suppress IDs also                   ; Comment out idrecording and idtalkover to
hang time. Does not repeat audio.   ; 1 = Half duplex with telemetry tones and
interfacing a simplex node.         ; This mode is preferred when
hang time.                          ; 2 = Full Duplex with telemetry tones and
interfacing a repeater.             ; This mode is preferred when
hang time, but no repeated audio.   ; 3 = Full Duplex with telemetry tones and
hang time. Repeated audio only when the autopatch is down.
; 4 = Full Duplex with telemetry tones and
linktolink = no                     ; disables forcing physical half-duplex

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operation of main repeater while
                                ; still keeping half-duplex semantics (optional)

linkmongain = 0                    ; Link Monitor Gain adjusts the audio level of
monitored nodes when a signal from another node or the local receiver is received.
                                ; If linkmongain is set to a negative number the
monitored audio will decrease by the set amount in db.
                                ; If linkmongain set to a positive number monitored
audio will increase by the set amount in db.
                                ; The value of linkmongain is in db. The default
value is 0 db.

erxgain = -3                       ; Echolink receive gain adjustment
                                ; Note: Gain is in db-volts (20logVI/V0)
etxgain = 3                        ; Echolink transmit gain adjustment
                                ; Note: Gain is in db-volts (20logVI/V0)
;eannmode = 1                      ; 1 = Say only node number on echolink
connects (default = 1)
                                ; 2 = say phonetic call sign only on
echolink connects
                                ; 3 = say phonetic call sign and node
number on echolink connects

;controlstates = controlstates      ; system control state stanza

scheduler = scheduler1331          ; scheduler stanza
functions = functions1331          ; Repeater Function stanza
phone_functions = functions1331    ; Phone Function stanza
link_functions = functions1331     ; Link Function stanza

telemetry = telemetry1331          ; Telemetry stanza
morse = morse1331                 ; Morse stanza
wait_times = wait-times1331       ; Wait times stanza

context = radio                    ; dialing context for phone
callerid = "Repeater" <00000000000> ; callerid for phone calls
accountcode = RADIO                ; account code (optional)

hangtime = 1000                    ; squelch tail hang time (in ms) (optional,
default 5 seconds, 5000 ms)
alhangtime = 3000                  ; longer squelch tail
totime = 180000                    ; transmit time-out time (in ms) (optional,
default 3 minutes 180000 ms)

idrecording = |i N4GM/R            ; Main ID message
idtalkover = |i N4GM/R            ; Talkover ID message
                                ; See Telemetry section Example: idrecording =
rpt/nodenames/1331
idtime = 540000                    ; id interval time (in ms) (optional) Default 5
minutes (300000 ms)
politeid = 30000                   ; time in milliseconds before ID timer expires to try
and ID in the tail. (optional, default 30000)

unlinkedct = ct2                   ; Send a this courtesy tone when the user unkeys if
the node is not connected to any other nodes. (optional, default is none)
remotect = ct3                     ; remote linked courtesy tone (indicates a
remote is in the list of links)
linkunkeyct = ct8                  ; sent when a transmission received over the link
unkeys

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; nolocal linkct = 0 ; Send unlinkedct instead if another local node
is connected to this node (hosted on the same PC).

; Supermon smlogger
connpgm=/usr/local/sbin/supermon/smlogger 1
discpgm=/usr/local/sbin/supermon/smlogger 0

; connpgm = yourconnectprogram ; Disabled. Execute a program you specify on
connect. (default)
; passes 2 command line arguments to your program:
; 1. node number in this stanza (us)
; 2. node number being connected to us (them)
; discpgm = yourdisconnectprogram ; Disabled. Execute a program you specify on
disconnect. (default)
; passes 2 command line arguments to your program:
; 1. node number in this stanza (us)
; 2. node number being disconnected from us (them)

; lnkactenable = 0 ; Set to 1 to enable the link activity timer.
Applicable to standard nodes only.

; lnkacttime = 1800 ; Link activity timer time in seconds.
; lnkactmacro = *52 ; Function to execute when link activity timer
expires.
; lnkacttimerwarn = 30seconds ; Message to play when the link activity timer
has 30 seconds left.

; remote_inact_timeout = ; Specifies the amount of time without keying
from the link. Set to 0 to disable timeout. (15 * 60)
; remote_timeout = ; Session time out for remote base. Set to 0 to
disable. (60 * 60)
; remote_timeout_warning_freq = ; 30
; remote_timeout_warning = ; (3 * 60)

; nounkeyct = 0 ; Set to a 1 to eliminate courtesy tones and
associated delays.

holdofftelem = 0 ; Hold off all telemetry when signal is present on
receiver or from connected nodes
; except when an ID needs to be done and there is a
signal coming from a connected node.

telemdefault = 1 ; 0 = telemetry output off
; 1 = telemetry output on (default = 1)
; 2 = timed telemetry output on command
execution and for a short time thereafter.

telemdynamic = 1 ; 0 = disallow users to change the local
telemetry setting with a COP command,
; 1 = Allow users to change the setting
with a COP command. (default = 1)

; beaconing = 0 ; Send ID regardless of repeater activity
(Required in the UK, but probably illegal in the US)

parrotmode = 0 ; 0 = Parrot Off (default = 0)
; 1 = Parrot On Command
; 2 = Parrot Always
; 3 = Parrot Once by Command

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parrottime = 1000                ; Set the amount of time in milliseconds
                                ; to wait before parroting what was received

;rxnotch=1065,40                 ; (Optional) Notch a particular frequency
for a specified                  ;
                                ; b/w. app_rpt must have been compiled with
                                ; the notch option

startup_macro =

; nodenames = /var/lib/asterisk/sounds/rpt/nodenames.callsign ; Point to
alternate nodename sound directory

; Stream your node audio to Broadcastify or similar. See
https://wiki.allstarlink.org/wiki/Stream_Node_Audio_to_Broadcastify
; outstreamcmd = /bin/sh,-c,/usr/bin/lame --preset cbr 16 -r -m m -s 8 --bitwidth
16 - - | /usr/bin/ezstream -qvc /etc/ezstream.xml

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Need more information on these

;extnodes = extnodes-different ; section in extnodefile containing dynamic
node information (optional)
;extnodefile = /foo/nodes ; Points to nodelist file containing dynamic node
info default = /var/lib/asterisk/rpt_extnodes (optional)
;extnodefile2 = ; Is this a list of node files? Possible a list of
private nodes or a list of static IPs for known nodes????
;nodenames = /foo/names ; locaton of node sound files default =
/var/lib/asterisk/sounds/rpt/nodenames
;archivedir = /tmp ; defines and enables activity recording into
specified directory (optional)
;monminblocks = 2048 ; Min 1K blocks to be left on partition (will not
save monitor output if disk too full)

; ; The tailmessagetime,tailsquashedtime, and
tailmessagelist need to be set ;
; ; to support tail messages. They can be omitted
otherwise.
;tailmessagetime = 300000 ; Play a tail message every 5 mins
;tailsquashedtime = 30000 ; If squashed by another user,
; ; try again after 30 seconds
;tailmessagelist = msg1,msg2 ; list of messages to be played for tail message

; alt_functions
; ctgroup
; dphone_functions
; idtime
; iobase
; iospeed
; locallist
; mars Remote Base
; memory
; nobusyout
; nodes
; nolocallinkct
; notelemtx
; outxlat

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; parrot
; propagate_phonedtmf
; rptnode
; rptinactmacro Macro to execute when inactivity timer expires
; rptinacttime Inactivity timer time in seconds (0 seconds disables feature)
; rxnotch Optional Audio notch
; simplexphonedelay
; tonemacro
; tonezone
; txlimits

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; *** Status Reporting ***

; Comment the following statpost line stop to reporting of the status of your node
to stats.allstarlink.org
; statpost_url = http://stats.allstarlink.org/uhandler ; Status updates ***** raa
2/3/22

; ***** End of Node 1331 ***** raa 2/3/22

; ***** Start of Node 1335 ***** raa 2/3/22

[1335] ; Change this to your assigned node number

; Must also be enabled in modules.conf
; Rx audio/signalling channel. Choose ONLY 1 per node
stanza

; Enable the selected channel driver in
modules.conf !!!
; rxchannel = dahdi/pseudo ; No radio (hub)
rxchannel = SimpleUSB/usb_1335 ; SimpleUSB
; rxchannel = Pi/1 ; Raspberry Pi PiTA
; rxchannel = Radio/usb_1335 ; USBRadio (DSP)
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; rxchannel = Beagle/1 ; BeagleBoard
; rxchannel = USRP/127.0.0.1:34001:32001; GNU Radio interface USRP
; rxchannel = Voter/1331 ; RTCM device

duplex = 0 ; 0 = Half duplex with no telemetry tones
or hang time. ; Special Case: Full duplex if
linktolink is set to yes. ; This mode is preferred when
interfacing with an external multipoint repeater controller.
; Comment out idrecording and idtalkover to
suppress IDs also
hang time. Does not repeat audio. ; 1 = Half duplex with telemetry tones and
interfacing a simplex node. ; This mode is preferred when
hang time. ; 2 = Full Duplex with telemetry tones and

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; This mode is preferred when
interfacing a repeater.
; 3 = Full Duplex with telemetry tones and
hang time, but no repeated audio.
; 4 = Full Duplex with telemetry tones and
hang time. Repeated audio only when the autopatch is down.

linktolink = no ; disables forcing physical half-duplex
operation of main repeater while ; still keeping half-duplex semantics (optional)

linkmongain = 0 ; Link Monitor Gain adjusts the audio level of
monitored nodes when a signal from another node or the local receiver is received.
; If linkmongain is set to a negative number the
monitored audio will decrease by the set amount in db.
; If linkmongain set to a positive number monitored
audio will increase by the set amount in db.
; The value of linkmongain is in db. The default
value is 0 db.

erxgain = -3 ; Echolink receive gain adjustment
; Note: Gain is in db-volts (20logVI/V0)
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; Note: Gain is in db-volts (20logVI/V0)
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callerid = "Repeater" <0000000000> ; callerid for phone calls
accountcode = RADIO ; account code (optional)

hangtime = 1000 ; squelch tail hang time (in ms) (optional,
default 5 seconds, 5000 ms)
alhangtime = 3000 ; longer squelch tail
totime = 180000 ; transmit time-out time (in ms) (optional,
default 3 minutes 180000 ms)

idrecording = |i N4GM/R ; Main ID message
idtalkover = |i N4GM/R ; Talkover ID message
; See Telemetry section Example: idrecording =

rpt/nodenames/1331
idtime = 540000 ; id interval time (in ms) (optional) Default 5
minutes (300000 ms)
politeid = 30000 ; time in milliseconds before ID timer expires to try

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and ID in the tail. (optional, default 30000)

```
unlinkedct = ct2          ; Send a this courtesy tone when the user unkeys if
the node is not connected to any other nodes. (optional, default is none)
remotect = ct3           ; remote linked courtesy tone (indicates a
remote is in the list of links)
linkunkeyct = ct8        ; sent when a transmission received over the link
unkeys
;noalloclinkct = 0       ; Send unlinkedct instead if another local node
is connected to this node (hosted on the same PC).
```

```
; Supermon smlogger
connpgm=/usr/local/sbin/supermon/smlogger 1
discpgm=/usr/local/sbin/supermon/smlogger 0
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```
;connpgm = yourconnectprogram      ; Disabled. Execute a program you specify on
connect. (default)
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                ; passes 2 command line arguments to your program:
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                ; 2. node number being connected to us (them)
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disconnect. (default)
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                ; passes 2 command line arguments to your program:
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```
;lnkactenable = 0          ; Set to 1 to enable the link activity timer.
Applicable to standard nodes only.
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```
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receiver or from connected nodes
                ; except when an ID needs to be done and there is a
signal coming from a connected node.
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execution and for a short time thereafter.
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telemetry setting with a COP command,
                        ; 1 = Allow users to change the setting
with a COP command. (default = 1)
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;beaconing = 0 ; Send ID regardless of repeater activity
(Required in the UK, but probably illegal in the US)

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; to wait before parroting what was received

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for a specified ; b/w. app_rpt must have been compiled with
; the notch option

startup_macro =

; nodenames = /var/lib/asterisk/sounds/rpt/nodenames.callsign ; Point to
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; Stream your node audio to Broadcastify or similar. See
https://wiki.allstarlink.org/wiki/Stream\_Node\_Audio\_to\_Broadcastify
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specified directory (optional)
;monminblocks = 2048 ; Min 1K blocks to be left on partition (will not
save monitor output if disk too full)

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tailmessagelist need to be set
; ; to support tail messages. They can be omitted
otherwise.
;tailmessagetime = 300000 ; Play a tail message every 5 mins
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; ; try again after 30 seconds
;tailmessagelist = msg1,msg2 ; list of messages to be played for tail message

; alt_functions
; ctgroup
; dphone_functions
; idtime
; iobase
; iospeed

```



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;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Macro Commands
5 = macro

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Autopatch Commands
; Note, This may be a good place for other 2 digit frequently used commands

61 = autopatchup,noct = 1,farenddisconnect = 1,dialtime = 20000 ; Autopatch up
62 = autopatchdn ; Autopatch down

; autopatchup can optionally take comma delimited setting=value pairs:

; context = string ; Override default context with "string"
; dialtime = ms ; Specify the max number of milliseconds between
phone number digits (1000 milliseconds = 1 second)
; farenddisconnect = 1 ; Automatically disconnect when called party hangs up
; noct = 1 ; Don't send repeater courtesy tone during autopatch calls
; quiet = 1 ; Don't send dial tone, or connect messages. Do not send
patch down message when called party hangs up
; Example:
123=autopatchup,dialtime=20000,noct=1,farenddisconnect=1

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Status Commands

; 1 - Force ID (global)
; 2 - Give Time of Day (global)
; 3 - Give software Version (global)
; 4 - Give GPS location info
; 5 - Last (dtmf) user
; 11 - Force ID (local only)
; 12 - Give Time of Day (local only)

721 = status,1 ; Force ID (global)
722 = status,2 ; Give Time of Day (global)
723 = status,3 ; Give software Version (global)
724 = status,4 ; Give GPS location info
725 = status,5 ; Last (dtmf) user
711 = status,11 ; Force ID (local only)
712 = status,12 ; Give Time of Day (local only)

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Link Commands

; 1 - Disconnect specified link
; 2 - Connect specified link -- monitor only
; 3 - Connect specified link -- tranceive
; 4 - Enter command mode on specified link
; 5 - System status
; 6 - Disconnect all links
; 7 - Last Node to Key Up
; 8 - Connect specified link -- local monitor only
; 9 - Send Text Message (9,<destnodeno or 0 (for all)>,Message Text, etc.

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; 10 - Disconnect all RANGER links (except permalinks)
; 11 - Disconnect a previously permanently connected link
; 12 - Permanently connect specified link -- monitor only
; 13 - Permanently connect specified link -- tranceive
; 15 - Full system status (all nodes)
; 16 - Reconnect links disconnected with "disconnect all links"
; 17 - MDC test (for diag purposes)
; 18 - Permanently Connect specified link -- local monitor only

; ilink commands 1 through 5 are defined in the Mandatory Command section

76 = ilink,6
806 = ilink,6           ; Disconnect all links
807 = ilink,7           ; Last Node to Key Up
808 = ilink,8           ; Connect specified link -- local monitor only
809 = ilink,9,1331,"Testing" ; would send a text message to node 1331 replace 1331
with 0 for all connected nodes
810 = ilink,10          ; Disconnect all RANGER links (except permalinks)
811 = ilink,11          ; Disconnect a previously permanently connected link
812 = ilink,12          ; Permanently connect specified link -- monitor only
813 = ilink,13          ; Permanently connect specified link -- tranceive
815 = ilink,15          ; Full system status (all nodes)
816 = ilink,16          ; Reconnect links disconnected with "disconnect all
links"
817 = ilink,17          ; MDC test (for diag purposes)
818 = ilink 18          ; Permanently Connect specified link -- local monitor
only

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;

; Control operator (cop) functions.
; Change these to something other than these codes listed below!
; Uncomment as needed.

; 901 = cop,1           ; System warm boot
; 902 = cop,2           ; System enable
; 903 = cop,3           ; System disable

; 904 = cop,4           ; Test tone on/off (toggle)
; 905 = cop,5           ; Dump system variables on console (debug use
only)

; 907 = cop,7           ; Time out timer enable
; 908 = cop,8           ; Time out timer disable

; 909 = cop,9           ; Autopatch enable
; 910 = cop,10          ; Autopatch disable

; 911 = cop,11          ; User linking functions enable
; 912 = cop,12          ; User linking functions disable

; 913 = cop,13          ; Query system control state
; 914 = cop,14          ; Set system control state

; 915 = cop,15          ; Scheduler enable
; 916 = cop,16          ; Scheduler disable

; 917 = cop,17          ; User functions enable (time, id, etc)

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; 918 = cop,18                ; User functions disable
; 919 = cop,19                ; Select alternate hang time (althangtime)
; 920 = cop,20                ; Select standard hangtime (hangtime)
; 921 = cop,21                ; Enable Parrot Mode
; 922 = cop,22                ; Disable Parrot Mode
; 923 = cop,23                ; Birdbath (Current Parrot Cleanup/Flush)
; 924 = cop,24                ; Flush all telemetry
; 925 = cop,25                ; Query last node un-keyed
; 926 = cop,26                ; Query all nodes keyed/unkeyed
; 927 = cop,27                ; Reset DAQ minimum on a pin
; 928 = cop,28                ; Reset DAQ maximum on a pin
; 930 = cop,30                ; Recall Memory Setting in Attached Xcvr
; 931 = cop,31                ; Channel Selector for Parallel Programmed Xcvr
; 932 = cop,32                ; Touchtone pad test: command + Digit string +
# to playback all digits pressed
; 933 = cop,33                ; Local Telemetry Output Enable
; 934 = cop,34                ; Local Telemetry Output Disable
; 935 = cop,35                ; Local Telemetry Output on Demand
; 936 = cop,36                ; Foreign Link Local Output Path Enable
; 937 = cop,37                ; Foreign Link Local Output Path Disable
; 938 = cop,38                ; Foreign Link Local Output Path Follows Local
Telemetry1331
; 939 = cop,39                ; Foreign Link Local Output Path on Demand
; 942 = cop,42                ; Echolink announce node # only
; 943 = cop,43                ; Echolink announce node Callsign only
; 944 = cop,44                ; Echolink announce node # & Callsign
; 945 = cop,45                ; Link Activity timer enable
; 945 = cop,46                ; Link Activity timer disable
; 947 = cop,47                ; Reset "Link Config Changed" Flag
; 948 = cop,48                ; Send Page Tone (Tone specs separated by
parenthesis)
; 949 = cop,49                ; Disable incoming connections (control state
noice)
; 950 = cop,50                ; Enable incoming connections (control state
noicd)
; 951 = cop,51                ; Enable sleep mode
; 952 = cop,52                ; Disable sleep mode
; 953 = cop,53                ; Wake up from sleep
; 954 = cop,54                ; Go to sleep
; 955 = cop,55                ; Parrot Once if parrot mode is disabled
; 956 = cop,56                ; Rx CTCSS Enable
; 957 = cop,57                ; Rx CTCSS Disable
; 958 = cop,58                ; Tx CTCSS On Input only Enable
; 959 = cop,59                ; Tx CTCSS On Input only Disable

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; 960 = cop,60                                ; Send MDC-1200 Burst
(cop,60,type,UnitID[,DestID,SubCode])         ; Type is 'I' for PttID, 'E' for
;                                              ; (SelCall or Alert), or 'SX' for STS
Emergency, and 'C' for Call                   ; DestID and subcode are only specified
;                                              ; UnitID is the local systems UnitID.
(ststus), where X is 0-F.                    ; the radio being called, and the
;                                              ; Subcode '8205' is Voice Selective Call
for the 'C' type message.                    ; Subcode '8015' is Voice Selective Call
;                                              ; Astro-Saber('Call')
DestID is the MDC1200 ID of                   ; Subcode '810D' is Call Alert (like
;                                              ;
subcodes are as follows:                      ;
;                                              ;
for Spectra ('Call')                          ;
;                                              ;
for Maxtrac ('SC') or                          ;
;                                              ;
Maxtrac 'CA')                                  ;

; 961 = cop,61                                ; Send Message to USB to control GPIO
pins (cop,61,GPIO1=0[,GPIO4=1].....)         ; Send Message to USB to control GPIO
; 962 = cop,62                                ;
pins, quietly (cop,62,GPIO1=0[,GPIO4=1].....) ;

; 963 = cop,63                                ; Send pre-configred APRSTT notification
(cop,63,CALL[,OVERLAYCHR])                   ;
; 964 = cop,64                                ; Send pre-configred APRSTT notification,
quietly (cop,64,CALL[,OVERLAYCHR])           ;
; 965 = cop,65                                ; Send POCSAG page (equipped channel
types only)                                   ;

[functions-remote]

0 = remote,1                                  ; Retrieve Memory
1 = remote,2                                  ; Set freq.
2 = remote,3                                  ; Set tx PL tone
3 = remote,4                                  ; Set rx PL tone
40 = remote,100                               ; Rx PL off
41 = remote,101                               ; Rx PL on
42 = remote,102                               ; Tx PL off
43 = remote,103                               ; Tx PL on
44 = remote,104                               ; Low Power
45 = remote,105                               ; Medium Power
46 = remote,106                               ; High Power
711 = remote,107                              ; Bump -20
714 = remote,108                              ; Bump -100
717 = remote,109                              ; Bump -500
713 = remote,110                              ; Bump +20
716 = remote,111                              ; Bump +100
719 = remote,112                              ; Bump +500
721 = remote,113                              ; Scan - slow
724 = remote,114                              ; Scan - quick
727 = remote,115                              ; Scan - fast
723 = remote,116                              ; Scan + slow
726 = remote,117                              ; Scan + quick
729 = remote,118                              ; Scan + fast
79 = remote,119                              ; Tune

```

```

51 = remote,5 ; Long status query
52 = remote,140 ; Short status query
67 = remote,210 ; Send a *
69 = remote,211 ; Send a #
;91 = remote,99,CALLSIGN,LICENSETAG ; Remote base login.
; Define a different dtmf sequence for each
user which is ; authorized to use the remote base to
control access to it. ; For examble 9139583=remote,99,WB6NIL,G
would grant access to ; the remote base and announce WB6NIL as
being logged in. ; Another entry, 9148351=remote,99,WA6ZFT,E
would grant access to ; the remote base and announce WA6ZFT as
being logged in. ; When the remote base is disconnected from
the originating node, the ; user will be logged out. The LICENSETAG
argument is used to enforce ; tx frequency limits. See [txlimits] below.
85 = cop,6 ; Remote base telephone key

```

[telemetry]1331

```

; Telemetry entries can be shared across all repeaters, or defined for each
repeater.
; Can be a tone sequence, morse string, or a file
;
; |t - Tone escape sequence
;
; Tone sequences consist of 1 or more 4-tuple entries (freq1, freq2, duration,
amplitude)
; Single frequencies are created by setting freq1 or freq2 to zero.
;
; |m - Morse escape sequence
;
; Sends Morse code at the telemetry amplitude and telemetry frequency as defined in
the
; [morse] section.
;
; Follow with an alphanumeric string
;
; |i - Morse ID escape sequence
;
; Sends Morse code at the ID amplitude and ID frequency as defined in the
; [morse] section.
;
; path/to/sound/file/without/extension
;
; Send the sound if in place of a constructed tone. Do not include the file
extension
; Example: ct8 = rpt/bloop
; Example: idrecording = rpt/nodenames/1331

ct1 = |t(350,0,100,2048)(500,0,100,2048)(660,0,100,2048)
ct2 = |t(660,880,150,2048)

```

```

ct3 = |t(440,0,150,4096)
ct4 = |t(550,0,150,2048)
ct5 = |t(660,0,150,2048)
ct6 = |t(880,0,150,2048)
ct7 = |t(660,440,150,2048)
ct8 = |t(700,1100,150,2048)
ranger = |t(1800,0,60,3072)(0,0,50,0)(1800,0,60,3072)(0,0,50,0)(1800,0,60,3072)
(0,0,50,0)(1800,0,60,3072)(0,0,50,0)(1800,0,60,3072)(0,0,50,0)(1800,0,60,3072)
(0,0,150,0)
remotemon = |t(1209,0,50,2048) ; local courtesy
tone when receive only
remotetx = |t(1633,0,50,3000)(0,0,80,0)(1209,0,50,3000) ; local courtesy
tone when linked Trancieve mode
cmdmode = |t(900,903,200,2048)
functcomplete = |t(1000,0,100,2048)(0,0,100,0)(1000,0,100,2048)
remcomplete = |t(650,0,100,2048)(0,0,100,0)(650,0,100,2048)(0,0,100,0)
(650,0,100,2048)
pfxtone = |t(350,440,30000,3072)
patchup = rpt/callproceeding
patchdown = rpt/callterminated

```

```

; As far as what the numbers mean,
; (000,000,010,000)
; | | | |-----amplitude
; | | | |-----duration
; | | |-----Tone 2
; |-----Tone 1

```

```

; So, with 0,0,10,0 That says No Tone1, No Tone2, 10ms duration, 0 Amplitude.
; Use it for a delay. Fine tuning for how long before telemetry is sent, in
conjunction with the telemdelay parameter)
; The numbers, like 350,440,10,2048 are 350Hz, 440Hz, 10ms delay, amplitude of
2048.

```

```

; Morse code parameters, these are common to all repeaters.

```

```

[morse]1331
speed = 20 ; Approximate speed in WPM
frequency = 800 ; Morse Telemetry Frequency
amplitude = 4096 ; Morse Telemetry Amplitude
idfrequency = 1065 ; Morse ID Frequency
idamplitude = 1024 ; Morse ID Amplitude

```

```

;
; This section allows wait times for telemetry events to be adjusted
; A section for wait times can be defined for every repeater
;

```

```

[wait-times]1331
telemwait = 2000 ; Time to wait before sending most
telemetry
idwait = 500 ; Time to wait before starting ID
unkeywait = 2000 ; Time to wait after unkey before sending
CT's and link telemetry
calltermwait = 2000 ; Time to wait before announcing "call
terminated"

```

```

; Memories for remote bases

```

```

[memory]
;00 = 146.580,100.0,m
;01 = 147.030,103.5,m+t
;02 = 147.240,103.5,m+t
;03 = 147.765,79.7,m-t
;04 = 146.460,100.0,m
;05 = 146.550,100.0,m

; Place command macros here

[macro]
;1 = *32011#
;2 = *12001*12011*12043*12040*12050*12060*12009*12002*12003*12004*1113*12030#
;3 = *32001*32011*32050*32030*32060#

; Data Acquisition configuration

;[daq-list]
;device = device_name1
;device = device_name2

;Where: device_name1 and device_name2 are stanzas you define in this file

;device = daq-cham-1

; Device name

;[daq-cham-1] ; Defined in [daq-list]
;hwtype = uchameleon ; DAQ hardware type
;devnode = /dev/ttyUSB0 ; DAQ device node (if required)
;1 = inadc ; Pin definition for an ADC channel
;2 = inadc
;3 = inadc
;4 = inadc
;5 = inadc
;6 = inadc
;7 = inadc
;8 = inadc
;9 = inp ; Pin definition for an input with a weak pullup
resistor
;10 = inp
;11 = inp
;12 = inp
;13 = in ; Pin definition for an input without a weak pullup
resistor
;14 = out ; Pin definition for an output
;15 = out
;16 = out
;17 = out
;18 = out

;[meter-faces]

;face = scale(scalepre,scalediv,scalepost),word/?,...
;
; scalepre = offset to add before dividing with scalediv
; scalediv = full scale/number of whole units (e.g. 256/20 or 12.8 for 20 volts).
; scalepost = offset to add after dividing with scalediv

```



```

;
;face = range(X-Y:word,X2-Y2:word,...),word/?,...
;face = bit(low-word,high-word),word/?,...
;
; word/? is either a word in /var/lib/asterisk/sounds or one of its subdirectories,
; or a question mark which is a placeholder for the measured value.
;
;
; Battery voltage 0-20 volts
;batvolts = scale(0,12.8,0),rpt/thevoltageis,?,ha/volts
; 4 quadrant wind direction
;winddir = range(0-33:north,34-96:west,97-160:south,161-224:east,225-
255:north),rpt/thewindis,?
; LM34 temperature sensor with 130 deg. F full scale
;lm34f = scale(0,1.969,0),rpt/thetemperatureis,?,degrees,fahrenheit
; Status poll (non alarmed)
;light = bit(ha/off,ha/on),ha/light,?

;[alarms]
;
;tag = device,pin,node,ignorefirst,func-low,func-hi
;
;tag = a unique name for the alarm
;device = daq device to poll
;pin = the device pin to be monitored
;ignorefirstalarm = set to 1 to throwaway first alarm event, or 0 to report it
;node = the node number to execute the function on
;func-low = the DTMF function to execute on a high to low transition
;func-high = the DTMF function to execute on a low to high transition
;
; a '-' as a function name is shorthand for no-operation
;
;door = daq-cham-1,9,1,2017,*7,-
;pwrfail = daq-cham-1,10,0,2017,*9111111,-
;
; Control states
; Allow several control operator functions to be changed at once using one command
(good for scheduling)
;
;[controlstates]
;statenum = copcmd,[copcmd]...
;0 = rptena,lnkena,apena,totena,ufena,noicd ; Normal operation
;1 = rptena,lnkena,apdis,totdis,ufena,noise ; Net and news operation
;2 = rptena,lnkdis,apdis,totena,ufris,noise ; Repeater only operation

; Scheduler - execute a macro at a given time

[schedule]1331
;dtmf_function = m h dom mon dow ; ala cron, star is implied
;2 = 00 00 * * * ; at midnight, execute macro 2.

; See https://wiki.allstarlink.org/wiki/Event_Management
[events]

#includeifexists custom/rpt.conf

```