This Is my rpt.conf file for my Raspberry Pi Server Hosting Node 28183

```
; WARNING - THIS FILE WAS AUTOMATICALLY CONFIGURED FROM A
; TEMPLATE FILE IN   /usr/local/etc/asterisk_tpl   BY THE
; NODE-CONFIG.SH SCRIPT.
;
; EACH TIME THIS SCRIPT IS RUN, THIS FILE WILL BE OVERWRITTEN.
; IF YOU CHANGE ANYTHING IN THIS FILE AND RUN THE NODE-CONFIG.SH
; SCRIPT, IT WILL BE LOST.
;
; IF YOU INTEND TO USE THE NODE-CONFIG.SH SCRIPT,  THEN YOU SHOULD
; MAKE MODIFICATIONS TO THE ACTUAL TEMPLATE FILES LOCATED IN
; /usr/local/etc/asterisk_tpl directory.
;
; Radio Repeater configuration file (for use with app_rpt)
;
; This file is shown with two local nodes. Use your editor to wholsale
; change any mention of node 28183 to your assigned node number.
;
; Likewise do the same for node 1999 if you are using a second node.
; Node 1999 is defined as a pseudo node but could be setup as a second
; simpleusb port.
;
; This file defaults to a simplex node (duplex=1)
;
; Your Repeater                          (Note, Numbers in ( ) are the default/oriiginal numbers before I changed them)
;
; : rpt.conf_tpl 31 2015-03-31 19:51:45Z w0anm $

[28183]  ; NODE STANZA Change this to your assigned node number
rxchannel = SimpleUSB/usb                ;rxchannel=radio/usb for usbradio.   Channels are defined as tech/id
duplex=1 ;            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 multiport repeater controller.
                                         ;1-Half duplex with telemetry tones and hang time. Does not repeat audio. This mode is preferred when
                                         ;interfacing a simplex node.
                                         ;2-Full Duplex with telemetry tones and hang time. 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.
                                    ;Please note that it does not perform the same function as the duplex= configuration option in the configuration file
                                         ;usbradio.conf.
```

```
Erxgain=-3                          ;audio gain coming from Echolink adjustment in +/- db-volts. Used to balance Echolink rx audio
etxgain=1;(3)                       ;audio gain going to Echolink adjustment in +/- db-volts. Used to balance Echolink tx audio
controlstates=controlstates
scheduler=schedule28183
morse=morse28183
macro=macro28183
functions=functions28183
phone_functions=functions28183
link_functions=functions28183
telemetry=telemetry
wait_times=wait-times
context =  radio
callerid = Repeater <0000028183>            ;This setting allows the autopatch on the node to be identified with a specific caller ID.
idrecording=/etc/asterisk/local/node-id ;VOICE ID
;Note: ID recording files must have extension gsm,ulaw,pcm, or wav. The extension is left off when it is defined as the example shows      ;above. File extensions are used by Asterisk to determine how to decode the file. All ID recording files should be sampled at 8KHz.
idrecording=|iDE W2YMM/L                    ; MORSE ID
accountcode=RADIO
hangtime=100                                ;This controls the length of the repeater hang time. It is specified in milliseconds.
althangtime=100
totime=300000                               ; 170000 value in milliseconds
idtime=600000
politeid=30000 ;specified the number of milliseconds prior to the end of the id cycle where the controller will attempt to play the ID in the tail whem a ;unkeys. If the controller does not get a chance to send the ID in the tail, the ID will be played over the top of the user transmission.
idtalkover=|iDE W2YMM/R                     ;to specify an alternate ID to use when the ID must be sent over the top of a user transmission
unlinkedct=ct14                             ; Sent when not connected to another node (2)
remotect=ct3                                ; Sent when remote base connected (3)
linkunkeyct=ct13                            ; sent when a network user unkeys (8)
;nolocallinkct=0                    ;Send unlinkedct instead of linkedct if another local node is connected to this node (hosted on the same PC).
eannmode=1
                            ;   0 = do not announce Echolink nodes at all
                            ;   1 = Say only node number on EchoLink connects
                            ;   2 = say phonetic call sign only on EchoLink connects
                            ;   3 = say phonetic call sign and node number on EchoLink connects
;connpgm=yourconnectprogram
;discpgm=yourdisconnectprogram
;lnkactenable=0
;lnkacttime=1800
;lnkactmacro=*52
;lnkacttimerwarn=30seconds
;remote_inact_timeout=1800
```

```
;remote_timeout=3600
nounkeyct=0                    ; completely disables the courtesy tone. 0=COURTESY TONE 1= NO COURTESY TONE
holdofftelem=1                 ;forces all telemetry to be held off until a local user on the receiver or a remote user over a link unkeys.
telemdefault=2
beaconing=0                ;When set to 1 will send the repeater ID at the idtime interval regardless of whether there was repeater activity or not.
                                        ;This feature appears to be required in the UK, but is probably illegal in the US.
context=voipvoip ;      This setting directs the autopatch for the node to use a specific context in extensions.conf for outgoing autopatch calls.
litztime=3000                  ; time required to hold down DTMF, defaults to 3000 ms
litzchar=0                     ; DTMF character to activate LITZ, defauls to 0
litzcmd=*899                   ; LITZ Command sequnce -- PLAYS QUICK CALL TONE Defined below...

;funcchar = *                  ; function lead-in character (defaults to '*')
;endchar = #                   ; command mode end character (defaults to '#')
;;nobusyout=yes                ; (optional) Do not busy-out reverse-patch when
                               ; normal patch in use
;notelemtx = yes               ; telemetry output does not make main
                               ; system transmit (optional)
;propagate_dtmf = yes          ; DTMF sent to system from link gets
                               ; repeated onto main system output (optional)
;propagate_phonedtmf = yes     ; DTMF sent to system from phone gets
                               ; repeated into main system output and
                               ; link outputs (optional)
;linktolink = yes              ; disables forcing physical half-duplex
                               ; operation of main repeater while
                               ; still keeping half-duplex semantics
                               ; (optional)
;inxlat = #456,#457,0123456789ABCD  ; translate digit strings inbound,
                               ; in this case intrepret #456 as star,
                               ; #457 as pound, and pass all the other
                               ; chars listed in arg3 (optional)
;outxlat = *7,*0,0123456789#ABCD  ; translate digit string outbound,
                               ; in this case *7 generates star, *0
                               ; generates pound, and all the other
                               ; digits pass along
;macro = macro-different       ; section containing macros (optional)
;extnodes = extnodes-different ; section in extnodefile containing
                               ; dynamic node information (optional)
;extnodefile = different-file  ; file containing dynamic node info (optional)
;archivedir = some-directory   ; 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)
;startup_macro = *7                     ; Macro to run at startup (optional)
;
;; The tailmessagetime,tailsquashedtime, and tailmessages need to be set
;; to support tail messages. They can be omitted otherwise.
;
;tailmessagetime=1800000                ; This sets the amount of time in milliseconds between tail messages.
;tailsquashedtime=120000                ; If squashed by another user,
;;                                      ;try again after 30 seconds   300000 =5 minutes
;tailmessagelist=/etc/asterisk/local/W2YMM_liny,/etc/asterisk/local/W2YMM_info,/etc/asterisk/local/W2YMM_dpl;list of messages to be played for tail
message
;The tailmessagelist setting allows a comma separated list of audio files to be specified for the tail message function. The tail messages will rotate from
one to the next until the end of the list is reached at which point the first message in the list will be selected. If no absolute path ;name is specified, the
directory var/lib/asterisk/sounds will be searched for the sound file. The file extension should be omitted.
;
; *** Status Reporting ***
;
; Uncomment the following two statpost lines to report the status of your node to stats.allstarlink.org
statpost_program=/usr/bin/wget,-q,--timeout=15,--tries=1,--output-document=/dev/null
statpost_url=http://stats.allstarlink.org/uhandler.php ; Status updates


; Second node shown as a pseudo node
;
[1999] ; Change this to your assigned node number This is currently a private node
;rxchannel=Radio/usb28183
;rxchannel = SimpleUSB/usb1
rxchannel=dahdi/pseudo
duplex=1
erxgain=-3
etxgain=3
controlstates=controlstates
scheduler=schedule28183
morse=morse28183
macro=macro28183
functions=functions28183
phone_functions=functions28183
link_functions=functions28183
telemetry=telemetry
wait_times=wait-times
```

```
context =  radio
callerid = Repeater <000001999>
idrecording=/etc/asterisk/local/node-id
accountcode=RADIO
hangtime=100
althangtime=100
totime=300000 ; 170000
idtime=600000
politeid=30000
idtalkover=|iDE W2YMM/L
unlinkedct=ct2 ; Sent when not connected to another node
remotect=ct3   ; Sent when remote base connected
linkunkeyct=ct8 ; sent when a network user unkeys
;nolocallinkct=0
;eannmode=1
;connpgm=yourconnectprogram
;discpgm=yourdisconnectprogram
;lnkactenable=0
;lnkacttime=1800
;lnkactmacro=*52
;lnkacttimerwarn=30seconds
;remote_inact_timeout=1800
;remote_timeout=3600
nounkeyct=0
holdofftelem=1
telemdefault=2
beaconing=0

; Uncomment following two lines to advertise this node
; statpost_program=/usr/bin/wget,-q,--timeout=15,--tries=1,--output-document=/dev/null
; statpost_url=http://stats.allstarlink.org/uhandler.php ; Status updates
;
; End Second node
;
; Morse code parameters, these are common to all repeaters.
;

[morse28183]

speed=30                                ; Approximate speed in WPM
frequency=800                           ;Morse Telemetry Frequency
```

```
amplitude=4096                          ; Morse Telemetry Amplitude
idfrequency=750                         ; Morse ID Frequency
idamplitude=512 ; 1024                  ; Morse ID Amplitude

[controlstates]
;statenum = copcmd,[copcmd]...
;Required for Allmon2 Feature
0 = rptena,lnkena,apena,totena,ufena,noicd  ; Normal operation
1 = rptena,lnkdis,apdis,totena,ufdis,noice  ; Repeater only operation

[schedule28183]
;dtmf_function =  m h dom mon dow  ; ala cron, star is implied
;1=00 * * * *   ;run macro 1 on the hour
553=55 19 * * 1                         ; RUN MACRO 553 AT 7 55 PM ON MONDAYS   "MESSAGE CONNECT TO K2SPD"

[functions28183]
1=ilink,1                               ;1 - disconnect link = *1<node>
2=ilink,2                               ;2 - monitor link = *2<node>
3=ilink,3                               ;3 - connect link transceive = *3<node>
4=ilink,4                               ;4 - remote command = *4<node>
5=macro,1                               ;5-  execute macro = *5<macro#>

70=ilink,5                              ;5 - System status
71=ilink,11                             ;11 - Disconnect a previously permanently connected link
72=ilink,12                             ;12 - Permanently connect specified link -- monitor only
73=ilink,13                             ;13 - Permanently connect specified link -- transceive
75=ilink,15                             ;15 - Full system status (all nodes)
76=ilink,6                              ;6 - Disconnect all links
77=ilink,16                             ;16 - Reconnect links disconnected with "disconnect all links"
78=ilink,18                             ;18 - Permanently Connect specified link -- local monitor only

80=status,11                            ; ID (local)
81=status,12                            ; Time of Day (local)

; Say 24 hour time - change to your node
82=cmd,/usr/local/sbin/say24time.pl 28183

;61=autopatchup,context=pbx_server,noct=1,farenddisconnect=1,dialtime=20000,quiet=1     ; Autopatch up
6=autopatchup,context=voipvoip,noct=1,farenddisconnect=1,dialtime=20000,quiet=1         ; Autopatch up CUSTOM FOR MY APPLICATION
0=autopatchdn                                                                          ; Autopatch down
```

```
; Node announcements
920=localplay,/etc/asterisk/local/W2YMM_net             ;My custom message alerting a net connection

;989=cop,4                                  ;4 - Test Tone On/Off
980=status,3                               ;3 - Give software Version (global)
99=cop,6                                   ; PPT on, # = release

; Weather Script Functions

; Weather Script examples

; Play local wx report, *986
;986=localplay,/tmp/wx/wxreport_ug/KMNROGER1/cur_WxRpt_ug

; Play local wx forecast, *987
;987=localplay,/tmp/wx/forecast/MNZ059/wx_forecast

; Play local wx alert, *988
;988=localplay,/tmp/wx/alert/MNC171/alert_short

; Example functions to call scripts
; These are commented out. Remove ';' and change function
; command to your choice and node to your node
; Note that halting the system remotely would require
; a power cycle to recover.
;
;A1=cmd,/usr/local/sbin//sayip.sh 28183             ; Say local IP to radio
963=cmd,/usr/local/sbin/saypublicip.sh 28183       ; Say Public IP to radio
;B1=cmd,/usr/local/sbin/halt.sh 28183              ; Halt the system (linux total shutdown)
;B3=cmd,/usr/local/sbin//reboot.sh 28183           ; Reboot the system
;B6=cmd,/usr/local/sbin/astres.sh                  ; Restart Asterisk

;;;;;Pager Testing
891=cop,48,5,5,5,5,1,4,1,3                         ; Send DTMF 5,5,5,5,1,4,1,3
892=cop,48,!2688.0/1000,!2856.5/3000               ;qc tone mfd common and sta 2
893=cop,48,!1100+1700/100,!0/60,!700+900/60,!0/60,!700+1100/60,!0/60,!700+900/60,!0/60,!1500+1700/60 ; Send MF tone sequence KP121ST
894=cop,48,!1800.0/1000,!1232.0/3000               ;qc tone pfd common and tone 1
895=cop,48,!2688.0/1000,!402.30/3000               ;qc tone mfd common and sta 1
896=cop,48,!2688.0/1000,!2932.6/3000               ;qc tone mfd common and chief
897=cop,48,!2932.6/1000,!2250.3/3000               ;qc tone npfd common and general
```

```
898=cop,48,!2688.0/1000,!2932.6/3000,!2688.0/1000,!1130.5/3000,5,5,5,5,1,4,1,3  ;qc tone mfd common and chief
899=cop,48,!2688.0/1000,!1130.5/3000                    ; Send two tone paging sequence Medford

;850=ilink,6                                           ; link disable
;851=ilink,16                                          ; link enable
950=cop,3                                              ; repeater transmit disable
951=cop,2                                              ; repeater transmit enable

971=cop,21                                             ; enable Parrot Mode
970=cop,22                                             ; disable Parrot Mode
972=cop,55                                             ; Parrot once if Parrot mode is disabled
973=cop,23                                             ; Parrot cleanup/flush

; Place command macros here

[macro28183]
;Macro number = command string (ea command separated by space) -end with HASH
;1=*81 *80#                                            ; play time and voice ID
1 = *327630#                                           ; KI4SWB CONNECT CODE *51
2 = *127630#                                           ; KI4SWB DISCONNECT CODE *52
3 = *341170#                                           ; K5TRA HUB CONNECT CODE *53
4 = *141170#                                           ; K5TRA HUB DISCONNECT CODE *54
6 = *327339#                                           ; WB2JPQ Interlink System connect *56
7 = *33088953#                                         ; AB2M Conference ECHOLINK
8 = *33045717#                                         ; K2SPD-R
9 = *33001224#                                         ; W2YMM-R ECHOLINK
50=*616319601051#                                      ;Call W2YMM Cellphone
51=*616316611771#                                      ;Call W2YMM home phone
552 = *76#                                             ; DISCONNECT ALL CONNECTED LINKS
553= *920#                                             ; PLAY NET CONNECTING MESSAGE
567 = *342590#                                         ; KB4JKL CONNECT CODE *567


[telemetry]

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(700,1100,150,512) ; 2048 amplitude
ct10=|t(1500,0,20,2048)(1250,0,20,2048)(1000,0,20,2048)(750,0,20,2048)(500,0,20,2048)(2550,0,20,2048)      ;Chirp_Chomp
ct11=|t(480,1200,40,2048)(0,0,40,0)(480,1200,40,2048)                                                       ;function complete
ct12=|t(2175,0,75,2048)(1950,0,50,2048)                                                                     ;tone remote
ct13=|t(1000,0,50,2048)(750,0,50,2048)(500,0,50,2048)                                                       ; DESCENDING
ct14=|t(500,0,50,2048)(750,0,50,2048)(1000,0,50,2048)                                                       ; ASCENDING
remotetx=|t(1633,0,50,3000)(0,0,80,0)(1209,0,50,3000);
remotemon=|t(1209,0,50,2048)
cmdmode=|t(900,903,200,2048)
functcomplete=|t(1000,0,100,2048)(0,0,100,0)(1000,0,100,2048)
patchup=rpt/callproceeding
patchdown=rpt/callterminated

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

[wait-times]
telemwait=500
idwait=300
unkeywait=400
calltermwait=2000

;
; This is where you define your nodes which cam 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.

28183 = radio@127.0.0.1/28183,NONE                  ;THIS NODE ON THIS SERVER
1999 = radio@127.0.0.1/1999,NONE                    ; PRIVATE NODE ON THIS SERVER
40822 = radio@192.168.1.70:4568/40822,NONE          ; UHF NODE Public node behind the same NAT router
29973 = radio@192.168.1.70:4568/29973,NONE          ; 2 meter Public node behind the same NAT router
41899 = radio@192.168.1.85:4567/41899,NONE          ; TEST node Public node behind the same NAT router
```

; 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

#includeifexists custom/rpt.conf