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## Introduction

### *What's Packet / APRS?*

Packet and APRS belong to the large family of “digital modes.” Messages (shorter messages in APRS) are sent over the air as a series of alternating tones. The sound card in the computer can be used along with free software to make and decode messages. This is fun stuff and not difficult to do.

### *Why should I care about packet / APRS?*

- 1) There is some additional (but it's NOT encrypted) confidentiality added into the mix since we hams are not speaking into a mic. It would be a little harder (not impossible) for folks with a scanner to hear gory details, PII, etc.
- 2) In APRS, messages are **ACK**nnowledged by the receiving station. You know he got your message on the other end. Otherwise, your software may resend the message. **YES. There is more to do with APRS than watch CARS MOVE AROUND.**

<https://www.youtube.com/watch?v=a7mQl6RSvyM>

- 3) APRS: the GPS-enabled vehicle tracking that you've probably seen before.
- 4) In packet radio, each packet sent between two connected users is send and resent until perfect (or the connection times out.) No more misspelled names, address, prescription drugs, etc.
- 5) **IT CAN GO FURTHER THAN VOICE.**  
Yes, you can exceed line of sight (LOS) with VHF using these digital modes. They will “hop” through other stations to get where they are going. The APRS network is MUCH MUCH larger than the TARC linked system or a similar system. (New Mexico Mega Link, etc.) ← hey ! don't get me wrong, I like voice nets too.
- 6) **IT'S A GOOD JUMPING OFF PLACE ...to** other modes that offer different combinations of speed, tolerance to noise, etc.  
Once you've got this figured out (radio, cables, etc.) there are some really cool HF modes. For going briskly with strong signals and going very slowly with WEAK signals.

### *What will you see demonstrated today?*

- 1) Scott H ( kd5njr) will post his position using APRS – FT817 , rig blaster, laptop

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[kd5njr@gmail.com](mailto:kd5njr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) *tulsadigitalradioclub.blogspot.com* Like KT5DIG on FB !

- 2) Scott M (kc5she) will post his position using APRS – Baofeng , homemade cables, laptop\* (coming soon : APRS on a cheap tablet )
- 3) They'll send and receive short APRS messages to each other.
- 4) POTTY BREAK.
- 5) They'll log into the BAARC BBS (a pBBS or personal BBS) that is built into Wayne's KW5M TNC . (From the parking lot)

## Can I play along at home?

YES!! Absolutely, please do. Experiment. Ask Questions.

- 1) If you've used SSTV, RTTY or PSK-31 before and your radio covers VHF, you're already set up. Otherwise, you'll need the appropriate cables / box to connect your radio's audio to the computer's sound card.
- 2) You'll also need to be able to key your radio. **You have to pick one of the following**
  - a) This can be done at the radio with VOX. ← BAOFENG APPROACH
  - b) or with a connection between the PTT on the Radio and a serial port ( or USB on the computer) ← HTs, Mobiles
  - c) or CAT (Computer Aided Tuning) aka "rig control" ← HF rigs. This is the high dollar approach

EXAMPLES :

<http://www.ebay.com/itm/Yaesu-USB-CAT-PSK31-Cable-FT-100-FT-817-FT-857-FT-897-/370776923474>

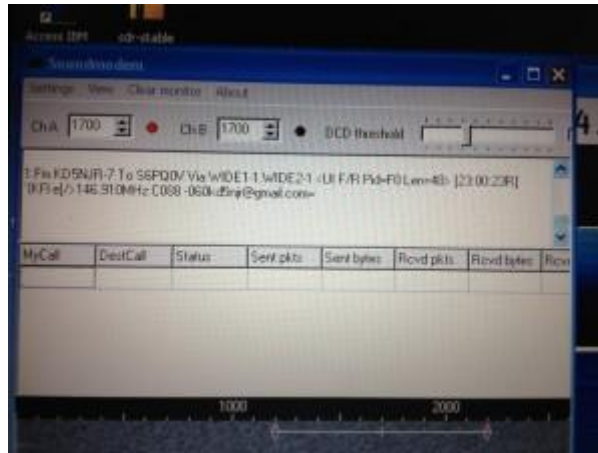
or

[http://www.ebay.com/sch/i.html?\\_from=R40&\\_trksid=p2047675.m570.l2632.R2.TR2.TRC1.A0.H1.Xrig+blaster.TRS0&\\_nkw=rigblaster&\\_sacat=1500](http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2047675.m570.l2632.R2.TR2.TRC1.A0.H1.Xrig+blaster.TRS0&_nkw=rigblaster&_sacat=1500)

- 3) You'll download and setup UZ7HO Soundmodem. <http://uz7ho.org.ua/packetradio.htm>
- 4) You'll request your APRSIS password. <http://aprsisce.wikidot.com/doc:passcode>
- 5) Setup uz7ho. Using an audio cable (or even for testing, putting the HT next to a microphone) you should see activity in the waterfall and raw packets with your radio on 144.390

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[kd5nr@gmail.com](mailto:kd5nr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) [tulsadigitalradioclub.blogspot.com](http://tulsadigitalradioclub.blogspot.com) Like KT5DIG on FB !



// add three or so more pics here. Config screen, waterfall, more raw data.

- 6) You'll download and setup APRSIS32. <http://aprsisce.wikidot.com/start>
- 7) You'll modify the uz7ho and aprsis32 config files so that they agree.  
// need a couple screen shots here. See appendix.
- 8) APRSIS32 is good software, but the documentation is kind of all over the place. Julian has some nice blog posts to get you up to speed.  
<http://www.g4ilo.com/aprs.html>  
[www.g4ilo.com/aprsisce\\_install.html](http://www.g4ilo.com/aprsisce_install.html)  
[www.g4ilo.com/aprsisce\\_gs.html](http://www.g4ilo.com/aprsisce_gs.html)
- 9) And to find your way around adding an Internet Port and Radio Port, take a look at these videos.  
<https://www.youtube.com/user/g4ilohamradio>  
Remember, to think "UZ7HO" when he says AGW.

// the "gotcha" with APRSIS32 is all the separate things that have to be enabled that can become disabled. Maybe we include the config file to give people a "head start"? See appendix

- 10) The moment of truth! Are you seeing :
    - a) raw packets from nearby stations in UZ7HO? (waterfall and raw text)
    - b) Seeing those same stations on your map in APRSIS32 ?
    - c) Is your rig keying down and your power meter showing briefly output power when you beacon your position in APRSIS32 ?
    - d) Let's double-check our work: Are you on the APRS.fi map ? <http://aprs.fi/#!addr=EM26>
- If you have 4 YES answers, you pass! Congrats. You are hitting a nearby digipeater or igate.

## What is the difference between Packet / APRS ?

Geek- speak: "Packet and APRS both use the AX.25 protocol .... but APRS is un-connected protocol with simplified routing"

... in English

### APRS

- 1) APRS traffic is mostly on 144.390 MHz. <http://www.aprs.org/aprs11/SSIDs.txt>  
Coming soon: 145.825 is the "Global Experiment Channel"
- 2) In APRS, you just fire off a message. Just make sure your path isn't excessive. I use wide1-1,wide2-2. You use that path everywhere you go. It's not necessary to consider what stations are in range of you.  
<http://aprsisce.wikidot.com/menu:messages>  
<http://aprsisce.wikidot.com/doc:aprs-messaging-explained>
- 3) In APRS you don't worry too much about where your messages route to; you just maintain a feeling for "how far" (how many hops) you want them to go.  
<http://wa8lmf.net/DigiPaths/>

... in English

### PACKET

- 4) Wayne's BAARC packet BBS is on 145.01 MHz
- 5) For packet, you make a Connection to each station you're gonna use.

In Packet, you need to know a bit about the paths your packets will take. But once you've taken the time to set up your connections to a packet station, you can send long messages, swap files, chat, etc.

- 6) The EasyTerm32 presents a modern GUI to the old terminal window. It also has a feel that reminds you of other digital mode software. A RX box, a TX box, etc. If you dig through menus you'll find MHEARD and other TNC commands.

However, to get some idea of the way packet works, I'll refer you here (an oldie but a goodie) : <http://www.choisser.com/packet/>

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[kd5nr@gmail.com](mailto:kd5nr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) [tulsadigitalradioclub.blogspot.com](http://tulsadigitalradioclub.blogspot.com) Like KT5DIG on FB !

## *Some comments on APRS*

- 1) Data types
  - a) Messages: one off messages. Chit chat.
  - b) Objects: Positions of stuff. Ex: Repeaters. Field Day, Dayton, Car Wrecks.
  - c) Bulletins: messages you'd want sent periodically. "NET TONIGHT"; the location of the Monday meetings, or the Friday breakfasts.
  - d) NWS WX Warning / Watch Polygons.
  
- 2) There is an archive of APRS information to browse through on the BAARC website.  
<http://w5drz.org/page/2/?s=APRS> For instance:
  - a. You can make a "receive only" APRS setup from a \$15 SDR dongle and watch the cars go by.
  - b. XASTIR is the Linux APRS program. It works on the Raspberry Pi.
  - c. You can work APRS from the Internet. You can see positions, messages and objects from aprs.fi ... one website will let you SEND messages into the APRS system.
  - d. Lot of work being done on portable APRS stations ; APRS smartphone apps, etc.
  
- 3) Experimental stations on APRS stations on HF using MFSK16 etc. instead of 300 baud ...
- 4) News FLASH: UZ7HO now supports HF packet (300 baud AFSK ) and a new phase shift mode.
- 5) Keep this in the back of your head:  
**145.825 is the global experimental channel**  
<http://www.bing.com/search?q=145.825%20MHz%20global%20experimental%20channel>  
you will hear APRS satellites on 145.825. The ISS is a strong signal. Try the ISS for your first satellite. By the end of this year, there will be several satellites carrying APRS digipeaters.
- 6) ANSRVR chat rooms help you keep organized. The Statewide APRS net uses the OKAPRS room on ANSRVR.
- 7) TDRC APRS training on Dropbox:  
<https://www.dropbox.com/s/rgvw6bokclb4ttj/APRS%20Messaging%20TDRC%20Training.pdf?dl=0>

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## NETS and THINGS

Tulsa Digital Radio Club would be pleased to have ya on their Sunday Evening Roundtables. Sundays at 7 pm local time. 7036 kHz. Let [kd5nr@gmail.com](mailto:kd5nr@gmail.com) know and we'll be on the lookout for ya.

Thursday roundtables: 9pm. 3583.5 kHz.

We monitor DMR TG 8810 and can fire up APRS upon request. The end of the net is usually some kind of experiment, so let us know if you'd like to run some packet.

Check your ARRL OK Section Blog for the next Statewide APRS net.

<http://arrlok.blogspot.com>

they're monthly, typically at 1pm on Saturdays.

## A Packet Tutorial & Next Steps

*The packet network declined as dial-up internet grew faster. Some of it was cannibalized to form the APRS network. I'll leave some comments here Larry Kenney, WB9LOZ's packet tutorials.*

CH 1: Fortunately, your computer will be the TNC.

It was a pricey little bugger back when.

CH 2: converse mode vs. command mode:

Easy Term lays out the controls differently nowadays, but bear in mind you might need a digipeater to help you reach a specific ham's BBS or node.

Speaking of Monitor, maybe I should mention all the area hams using packet are sharing 145.01 If you have a good antenna, you should see others connecting, reading mail, beaconing, etc. from time to time. Don't have your squelch set to high. Ideally, you'll see the packets TO and FROM BAARC. Otherwise you risk "walking "on top of someone.

CH 4: Nodes. Wayne has a Node too. It's KW5M-7. If you connected to Wayne's node, you could from there hop over to somewhere else. There used to be a packet node in Muskogee that was a jumping off point to places in Arkansas. Walt in Vinita ran a packet node at one time, a few years ago.

Digipeaters : Stations with real hardware TNCs are pretty easy to set up as Digipeaters.

Check your MHEARD list to discover Digipeaters near you.

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[kd5nr@gmail.com](mailto:kd5nr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) [tulsadigitalradioclub.blogspot.com](http://tulsadigitalradioclub.blogspot.com) Like KT5DIG on FB !

**CH 5: common BBS commands. (List and Read mail )**

**CH 6: sending messages**

to simplify local activity, Wayne has invited everyone in the area to use his "personal BBS" on his TNC. That simplifies things. To write me :

- 1) connect to BAARC
- 2) S KD5NJR

.....

/ex

- 3) bye (to disconnect)

**BAARC is the alias for Wayne's TNC. It is the hub of local packet activity.** Otherwise, messages could be left on individual hardware TNCs. And that is confusing.

Example.

KD5NJR@KD5NJR-1

But it would be necessary for me to:

- a) have a real TNC (one with a pBBS)
- b) you know the node number of my pBBS. Aka "the SSID"
- c) you have to be careful you're leaving me a message where I know to look for it.

ex: KD5NJR@KN5UPS-1 ← I might not find that one. Unless just so happened to be leaving John a message. Don't do that!

Again, Wayne KW5M has graciously been the GO-TO mailbox for around here.

CH 7: Hierarchical addressing – used for sending messages DX.

(That is something we should discuss if we have any nodes up that still have HF or Internet gateways)

CH8: more details on the packet message itself.

CH9: more advanced BBS commands. I don't think these are supported by Wayne's BBS

CH10: node commands, particularly for nodes with multiple ports. EX: a VHF port and an HF port. OR a node with a VHF port and an Internet port connected to other large BBSes.

**Next step:** contact [ae5me@yahoo.com](mailto:ae5me@yahoo.com) for details on ae5me-15

**Next step:** UZ7HO also works on HF( HF 300 baud AX.25) . Look for activity on / near 14.105 Mhz.

contact [kd5nr@gmail.com](mailto:kd5nr@gmail.com) and see the Network105 page on Facebook.

CH11: the BPQ node software is still under development. It works on HF in concert with FLDIGI. Refer to <http://tulsadigitalradioclub.blogspot.com>



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CH12: NTS Traffic. Without a robust packet network, our messages are kinda "stuck" in the local area.

Hint: the Packet system is available via the Internet courtesy of AE5ME-15 ( also on 145.01) . Contact Jeff for details. (login and password)

## What I didn't have time for this time (so we'd have time for questions)

### 1) APRSIS apps for Android and iPhone ← maybe Tony can mention this is November.

Long Story Short, these handy apps will let you query the APRSIS data base over your cellular carrier or wifi. This sounds handy (ham radio without a radio, and it is ....)

BUT: #1 you'll only see what APRS traffic makes to an igate.

BUT: #2 IF you send a message or position report, you cannot guarantee it'll get transmitted from the Internet to the airwaves. So you may (or may not) be seen by other hams carrying traditional APRS in their vehicles.

### 2) An in-depth discussion of aprs.fi

The local scene : <http://aprs.fi/#!addr=EM26>

The WX at John's : <http://aprs.fi/info/a/KN5UPS-13>

Some messages Scott sent: <http://aprs.fi/?c=message&call=kd5njr-6&limit=50>

From the PSAT satellite ? <http://aprs.fi/info/a/PSAT-1>

An example object : <http://aprs.fi/info/a/PSAT-1>

### 2) An in-depth discussion of ANSRVR

But for now, please see the Dropbox link mentioned above.

Suffice it to say that you can send messages to ANSRVR to

a) subscribe to topics

b) get / send messages to many to many hams at once via these topics.

### 3) An in-depth discussion of APRS / EMAIL gateway

<http://www.aprs-is.net/Email.aspx>

this would be for very short messages.

The easiest way to send email is to send a message to EMAIL with the recipient's email address as the first "word" of the message. You may only send one line messages (67 total characters maximum).

**AE5PL-10>APRS::EMAIL :pete@ae5pl.net.bogus This is a test.**

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[kd5njr@gmail.com](mailto:kd5njr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) [tulsadigitalradioclub.blogspot.com](http://tulsadigitalradioclub.blogspot.com) Like KT5DIG on FB !

#### 4) Winlink <-> APRS Gateway

<http://www.aprs.org/aprs-messaging.html>

*Winlink Text-Messaging: An APRS interface has been added to the Winlink system so that any APRS radio can be used to send and receive Email via the Winlink system. The system is called APRSlink and was designed by Lee, KOQED. It allows any APRS radio operator to log in and send/receive email via Winlink using only the front panel display and keypad of the radio. In addition to full two-way Winlink and Email messaging, there are two other features that fully link Winlink and APRS for quick messaging:*

<http://www.winlink.org/aprslink>

## Next step: Stay Tuned for information regarding a KT5DIG “Do It Day”.

- 1) Bring your Baofeng, Laptop and the materials on the parts list in the meeting announcement.
- 2) Get help making the interface cable(s)
- 3) Get help with download and set up of software
- 4) Partner up and send test messages back and forth.
- 5) HANDS-ON TRAINING and you can go home and do it some more.

## Next step: Stay Tuned for information regarding a KT5DIG “Do It Day – PART 2”.

- 1) Bring your portable digital station from last time.
- 2) Get help installing and setting up the HF/VHF capable FLDIGI Suite.
- 3) Get help with download and configuration of FLDIGI, FLARQ and FLAMPS
- 4) Partner up and send: mail, pictures, chat and files
- 5) HANDS-ON TRAINING and you can go home and do it some more.

TEASER: ON HF, FLDIGI will let you send messages and files with modes much more reliable than 300 baud HF packet.

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[kd5nr@gmail.com](mailto:kd5nr@gmail.com) or [kc5she@gmail.com](mailto:kc5she@gmail.com) *tulsadigitalradioclub.blogspot.com* Like KT5DIG on FB !

TEASER: ON VHF, FLDIGI will let you approach speeds comparable to Packet ... but without the digipeater infrastructure.

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## Appendix 1 : Scott's Soundmodem INI File

[Init]

Priority=3

UTCTime=0

NRMonitorLines=500

**PTT=COM5**

DispMode=1

StopWF=1

StatLog=0

SndRXDevice=2

SndTXDevice=1

RXSampleRate=11025

TXSampleRate=11025

RX\_corr\_PPM=0

TX\_corr\_PPM=0

DisableUnit=0

TXRotate=0

DualChan=0

DualPTT=0

SCO=0

TXBufNumber=32

RXBufNumber=32

[AX25\_A]

Maxframe=3

Retries=15

FrackTime=5

IdleTime=180

SlotTime=100

Persist=128

RespTime=2000

TXFrmMode=1

FrameCollector=6

ExcludeCallsigns=

ExcludeAPRSFrmType=

KISSOptimization=0

DynamicFrack=0

BitRecovery=0

NonAX25Frm=1

MEMRecovery=200

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IPOLL=80  
[AX25\_B]  
Maxframe=3  
Retries=15  
FrackTime=5  
IdleTime=180  
SlotTime=100  
Persist=128  
RespTime=2000  
TXFrmMode=1  
FrameCollector=6  
ExcludeCallsigns=  
ExcludeAPRSFrmType=  
KISSOptimization=0  
DynamicFrack=0  
BitRecovery=0  
NonAX25Frm=0  
MEMRecovery=200  
IPOLL=80  
[Modem]  
RawPktMinLen=17  
SwapPTTPins=0  
PreEmphasisDB1=0  
PreEmphasisDB2=0  
PreEmphasisAll1=0  
PreEmphasisAll2=1  
Default1=1  
Default2=1  
DCDThreshold=11  
HoldPnt=0  
RXFreq1=1500  
RXFreq2=1700  
AFC=32  
**TxDelay1=250**  
TxDelay2=250  
TxTail1=50  
TxTail2=50  
Diddles=0  
NRRcvrPairs1=0

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NRRcvrPairs2=0

RcvrShift1=30

RcvrShift2=30

ModemType1=6

ModemType2=0

[AGWHost]

Server=1

**Port=8000**

[KISS]

Server=1

Port=8100

[Window]

Top=0

Left=3

Height=850

Width=508

Waterfall1=1

Waterfall2=0

StatTable=1

Monitor=1

## Appendix 2 : Scott's APRSIS32

```
<APRSISCE>
<Version>APRSIS32 2012/08/29 21:31</Version>
<LastSaved>2014-08-25T00:32:14</LastSaved>
<LastSaveWhy>WM_CLOSE</LastSaveWhy>
<CallSign>KD5NJR</CallSign>
<Password>-6</Password>
<SuppressUnverified>1</SuppressUnverified>
<!--CompanionCall-->
<CompanionInterval>0</CompanionInterval>
<Filter></Filter>
<CommentInterval>0</CommentInterval>
<Comment>APRS-IS for Win32</Comment>
<CommentChoice>APRS-IS for Win32</CommentChoice>
<Symbol.Table></Symbol.Table>
<Symbol.Symbol>I</Symbol.Symbol>
<SymbolChoice>I</SymbolChoice>
<AltNet></AltNet>
<!--AltNet.Choice-->
<MoveSpeed>0.50</MoveSpeed>
<Range>500</Range>
<QuietTime>60</QuietTime>
<ForceMinTime>5</ForceMinTime>
<Aging.TelemetryDefs.Days>14</Aging.TelemetryDefs.Days>
<Aging.Bulletins.Hours>48</Aging.Bulletins.Hours>
<Stations.Tracks.Hours>24</Stations.Tracks.Hours>
<Stations.Tracks.Buddy.Hours>0</Stations.Tracks.Buddy.Hours>
<Objects.DefaultInterval>10</Objects.DefaultInterval>
<Objects.MaxObjectKillXmits>6</Objects.MaxObjectKillXmits>
<Stations.MinAge>80</Stations.MinAge>
<Stations.MaxAge>120</Stations.MaxAge>
<Stations.MaxAge.Buddy>0</Stations.MaxAge.Buddy>
<Stations.AvgIntervals>0</Stations.AvgIntervals>
<Stations.AvgCount>0</Stations.AvgCount>
<Stations.AvgFixed>1</Stations.AvgFixed>
<DX.MinDist>5</DX.MinDist>
<DX.MinTrigger>10</DX.MinTrigger>
<DX.MinInterval>10</DX.MinInterval>
<DX.Window>60</DX.Window>
<DX.MaxEver.Station></DX.MaxEver.Station>
<DX.MaxEver.When>0000-00-00T00:00:00</DX.MaxEver.When>
<DX.MaxEver.First>0000-00-00T00:00:00</DX.MaxEver.First>
```

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```
<DX.MaxEver.Latitude>0.00</DX.MaxEver.Latitude>
<DX.MaxEver.Longitude>0.00</DX.MaxEver.Longitude>
<DX.MaxEver.Distance>0.00</DX.MaxEver.Distance>
<DX.MaxEver.Bearing>0.00</DX.MaxEver.Bearing>
<DX.MaxEver.Count>0</DX.MaxEver.Count>
<!--DX.Excluded-->
<Enables.APRSIS>1</Enables.APRSIS>
<Enables.RFPorts>1</Enables.RFPorts>
<Enables.RFPktLog>0</Enables.RFPktLog>
<Enables.RFReceiveOnly>0</Enables.RFReceiveOnly>
<Enables.GPS>0</Enables.GPS>
<Enables.Internet>1</Enables.Internet>
<Enables.OSMFetch>1</Enables.OSMFetch>
<Enables.Sound>1</Enables.Sound>
<Enables.NotifyOnNewBulletin>0</Enables.NotifyOnNewBulletin>
<Enables.CSVFile>0</Enables.CSVFile>
<Enables.AutoSaveGPX>0</Enables.AutoSaveGPX>
<Enables.Beacons>1</Enables.Beacons>
<Enables.Telemetry>0</Enables.Telemetry>
<Enables.MicENotification>1</Enables.MicENotification>
<Enables.MicEEmergency>1</Enables.MicEEmergency>
<Enables.Debug>0</Enables.Debug>
<Enables.DebugFile>0</Enables.DebugFile>
<Enables.DebugStartup>0</Enables.DebugStartup>
<Enables.AllMessages>0</Enables.AllMessages>
<Enables.RFMessages>0</Enables.RFMessages>
<Enables.MyMessages>0</Enables.MyMessages>
<Enables.HideNWS>0</Enables.HideNWS>
<Enables.HideQueries>0</Enables.HideQueries>
<Enables.NotifyOnQuery>1</Enables.NotifyOnQuery>
<Enables.NotifyOnNewMessage>1</Enables.NotifyOnNewMessage>
<Enables.MultiTrackItemInMessage>1</Enables.MultiTrackItemInMessage>
<AutoReply.DelayMinutes>5</AutoReply.DelayMinutes>
<AutoReply.IntervalMinutes>60</AutoReply.IntervalMinutes>
<AutoReply.Reply></AutoReply.Reply>
<!--AutoReply.ReplyChoice-->
<!--AutoReply.Stations-->
<QRU.Enabled>0</QRU.Enabled>
<QRU.RetryMessages>0</QRU.RetryMessages>
<QRU.Interval>10</QRU.Interval>
<QRU.MaxObjects>5</QRU.MaxObjects>
<QRU.Range>20</QRU.Range>
<QRU.LastTransmit>0000-00-00T00:00:00</QRU.LastTransmit>
<MaxGroupObjects>5</MaxGroupObjects>
```



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```
<Genius.MinTime>10</Genius.MinTime>
<Genius.MaxTime>30</Genius.MaxTime>
<Genius.TimeOnly>0</Genius.TimeOnly>
<Genius.StartStop>1</Genius.StartStop>
<Genius.BearingChange>30</Genius.BearingChange>
<Genius.ForecastError>0.10</Genius.ForecastError>
<Genius.MaxDistance>1.00</Genius.MaxDistance>
<Beacon.OnlyAfterTransmit>0</Beacon.OnlyAfterTransmit>
<Beacon.Timestamp>1</Beacon.Timestamp>
<Beacon.HHMMSS>1</Beacon.HHMMSS>
<Beacon.Compressed>0</Beacon.Compressed>
<Beacon.CourseSpeed>1</Beacon.CourseSpeed>
<Beacon.Altitude>1</Beacon.Altitude>
<Beacon.Why>0</Beacon.Why>
<Beacon.Comment>1</Beacon.Comment>
<Beacon.Precision>0</Beacon.Precision>
<Beacon.MicETag></Beacon.MicETag>
<Status.Enabled>1</Status.Enabled>
<Status.Interval>30</Status.Interval>
<Status.Timestamp>1</Status.Timestamp>
<Status.GridSquare>1</Status.GridSquare>
<Status.DX>0</Status.DX>
<Status.Text>APRSISCE/32</Status.Text>
<!--Status.Choice-->
<Status.LastSent>2014-08-25T00:26:47</Status.LastSent>
<Scale>0.0850</Scale>
<Orientation>2</Orientation>
<Latitude>36.017546</Latitude>
<Longitude>-95.790380</Longitude>
<Altitude>0.0000</Altitude>
<BeaconPath>WIDE1-1,WIDE2-1</BeaconPath>
<DXPath>RFONLY</DXPath>
<EMailServer>EMAIL-2</EMailServer>
<WhoIsServer>WHO-IS</WhoIsServer>
<WhoIsFull>0</WhoIsFull>
<!--MessageGroup-->
<DefaultedURLs>0</DefaultedURLs>
<!--StationURL-->
<!--TelemetryURL-->
<!--WeatherURL-->
<NWS.Messages>1</NWS.Messages>
<NWS.MessagesNotAll>1</NWS.MessagesNotAll>
<NWS.Notify>0</NWS.Notify>
<NWS.MultiTrack>0</NWS.MultiTrack>
```

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```
<NWS.MultiTrackNew>0</NWS.MultiTrackNew>
<NWS.MultiTrackLines>1</NWS.MultiTrackLines>
<NWS.MultiTrackMoving>0</NWS.MultiTrackMoving>
<NWS.MultiTrackRange>0</NWS.MultiTrackRange>
<NWS.MultiTrackMe>0</NWS.MultiTrackMe>
<NWS.MultiTrackSpecific>1</NWS.MultiTrackSpecific>
<NWS.MultiTrackAutoClose>1</NWS.MultiTrackAutoClose>
<!--NWS.CWA-->
<NWS.Opacity>10</NWS.Opacity>
<NWS.Quality>100</NWS.Quality>
<NWS.ShapesEnabled>1</NWS.ShapesEnabled>
<!--NWS.ShapeFile-->
<MultiTrack.ViewNone>0</MultiTrack.ViewNone>
<MultiTrack.width>0</MultiTrack.width>
<MultiTrack.height>0</MultiTrack.height>
<MultiTrack.Orientation>2</MultiTrack.Orientation>
<MultiTrack.Percent>50</MultiTrack.Percent>
<MultiTrack.Zoom>11</MultiTrack.Zoom>
<MultiTrack.Scale>8.0000</MultiTrack.Scale>
<WindowPlacement.x>50</WindowPlacement.x>
<WindowPlacement.y>50</WindowPlacement.y>
<WindowPlacement.width>1200</WindowPlacement.width>
<WindowPlacement.height>625</WindowPlacement.height>
<View.ConfirmOnClose>0</View.ConfirmOnClose>
<View.AboutRestart>1</View.AboutRestart>
<View.Metric.Altitude>0</View.Metric.Altitude>
<View.Metric.Distance>0</View.Metric.Distance>
<View.Metric.Pressure>0</View.Metric.Pressure>
<View.Metric.Rainfall>0</View.Metric.Rainfall>
<View.Metric.Temperature>0</View.Metric.Temperature>
<View.Metric.Windspeed>0</View.Metric.Windspeed>
<View.VisibleLabelsMax>50</View.VisibleLabelsMax>
<View.Altitude>0</View.Altitude>
<View.Ambiguity>1</View.Ambiguity>
<View.Callsign>0</View.Callsign>
<View.Callsign.NotMe>0</View.Callsign.NotMe>
<View.Callsign.NotMine>0</View.Callsign.NotMine>
<View.Nicknames>1</View.Nicknames>
<View.Footprint.Enabled>1</View.Footprint.Enabled>
<View.Footprint.MinAltitude>10000</View.Footprint.MinAltitude>
<View.Footprint.MaxAltitude>300000</View.Footprint.MaxAltitude>
<View.GeoCache.ID>0</View.GeoCache.ID>
<View.GeoCache.Type>0</View.GeoCache.Type>
<View.GeoCache.Container>0</View.GeoCache.Container>
```

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```
<View.GeoCache.DiffTerrain>0</View.GeoCache.DiffTerrain>
<View.GeoCache.LabelsMax>50</View.GeoCache.LabelsMax>
<View.Speed.Beaconed>0</View.Speed.Beaconed>
<View.Speed.Calculated>0</View.Speed.Calculated>
<View.Speed.Averaged>0</View.Speed.Averaged>
<View.Speed.All>0</View.Speed.All>
<View.Range.Enabled>0</View.Range.Enabled>
<View.Range.Half>0</View.Range.Half>
<View.Range.Opacity>5</View.Range.Opacity>
<View.DF.Enabled>1</View.DF.Enabled>
<View.DF.Opacity>5</View.DF.Opacity>
<View.LabelOverlap>0</View.LabelOverlap>
<View.NWS.Labels>0</View.NWS.Labels>
<View.Weather>0</View.Weather>
<View.ZoomReverse>1</View.ZoomReverse>
<View.ZoomMin>0</View.ZoomMin>
<View.ZoomMax>23</View.ZoomMax>
<View.WheelDelta>4</View.WheelDelta>
<View.ScrollInternals>1</View.ScrollInternals>
<FreqMon.Enabled>0</FreqMon.Enabled>
<FreqMon.FontSize>5</FreqMon.FontSize>
<FreqMon.Timer>0</FreqMon.Timer>
<FreqMon.Filter></FreqMon.Filter>
<Screen.DateSeconds>2367</Screen.DateSeconds>
<Screen.DateTime>1</Screen.DateTime>
<Screen.DateTimePerformance>0</Screen.DateTimePerformance>
<Screen.SpeedSize>5</Screen.SpeedSize>
<Screen.SymbolSizeAdjust>0</Screen.SymbolSizeAdjust>
<Screen.Altitude>1</Screen.Altitude>
<Screen.Battery>1</Screen.Battery>
<Screen.GridSquare>1</Screen.GridSquare>
<Screen.LatLon>1</Screen.LatLon>
<Screen.Satellites>1</Screen.Satellites>
<Screen.Reckoning>1</Screen.Reckoning>
<Screen.FilterCircle>0</Screen.FilterCircle>
<Screen.Paths.Network>0</Screen.Paths.Network>
<Screen.Paths.Station>0</Screen.Paths.Station>
<Screen.Paths.MyStation>1</Screen.Paths.MyStation>
<Screen.Paths.RFOnly>0</Screen.Paths.RFOnly>
<Screen.Paths.MaxPathAge>1800</Screen.Paths.MaxPathAge>
<Screen.Paths.ReasonabilityLimit>400</Screen.Paths.ReasonabilityLimit>
<Screen.Paths.Opacity>50</Screen.Paths.Opacity>
<Screen.Paths.AllLinks>1</Screen.Paths.AllLinks>
<Screen.Paths.Packet.Enabled>0</Screen.Paths.Packet.Enabled>
```

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```
<Screen.Paths.Packet.Width>2</Screen.Paths.Packet.Width>
<Screen.Paths.Packet.Color>orange</Screen.Paths.Packet.Color>
<Screen.Paths.Direct.Enabled>0</Screen.Paths.Direct.Enabled>
<Screen.Paths.Direct.Width>1</Screen.Paths.Direct.Width>
<Screen.Paths.Direct.Color>salmon</Screen.Paths.Direct.Color>
<Screen.Paths.First.Enabled>0</Screen.Paths.First.Enabled>
<Screen.Paths.First.Width>1</Screen.Paths.First.Width>
<Screen.Paths.First.Color>red</Screen.Paths.First.Color>
<Screen.Paths.Middle.Enabled>0</Screen.Paths.Middle.Enabled>
<Screen.Paths.Middle.Width>3</Screen.Paths.Middle.Width>
<Screen.Paths.Middle.Color>lime</Screen.Paths.Middle.Color>
<Screen.Paths.Final.Enabled>0</Screen.Paths.Final.Enabled>
<Screen.Paths.Final.Width>3</Screen.Paths.Final.Width>
<Screen.Paths.Final.Color>lightgreen</Screen.Paths.Final.Color>
<Screen.Paths.Flash.Selected>0</Screen.Paths.Flash.Selected>
<Screen.Paths.Flash.Time>10</Screen.Paths.Flash.Time>
<Screen.Paths.Short.Selected>0</Screen.Paths.Short.Selected>
<Screen.Paths.Short.Time>120</Screen.Paths.Short.Time>
<Screen.Paths.Medium.Selected>0</Screen.Paths.Medium.Selected>
<Screen.Paths.Medium.Time>600</Screen.Paths.Medium.Time>
<Screen.Paths.Long.Selected>1</Screen.Paths.Long.Selected>
<Screen.Paths.Long.Time>1800</Screen.Paths.Long.Time>
<Screen.Tracks>1</Screen.Tracks>
<Screen.Tracks.Follow>32</Screen.Tracks.Follow>
<Screen.Tracks.Follow.Width>1</Screen.Tracks.Follow.Width>
<Screen.Tracks.Follow.Color>black</Screen.Tracks.Follow.Color>
<Screen.Tracks.Others>32</Screen.Tracks.Others>
<Screen.Tracks.Others.Width>1</Screen.Tracks.Others.Width>
<Screen.Tracks.Others.Color>gray</Screen.Tracks.Others.Color>
<Screen.WindBarbs.Enabled>1</Screen.WindBarbs.Enabled>
<Screen.WindBarbs.RotateStorm>1</Screen.WindBarbs.RotateStorm>
<Screen.WindBarbs.Width>1</Screen.WindBarbs.Width>
<Screen.WindBarbs.Color>black</Screen.WindBarbs.Color>
<Screen.Circle>1</Screen.Circle>
<Screen.RedDot>1</Screen.RedDot>
<Screen.CrossHairs>1</Screen.CrossHairs>
<Screen.CrossHairTime>1000</Screen.CrossHairTime>
<Scroller.ShowIGateDigi>0</Scroller.ShowIGateDigi>
<Scroller.FreezeOnClick>0</Scroller.FreezeOnClick>
<Scroller.ShowAll>1</Scroller.ShowAll>
<Scroller.NoInternals>0</Scroller.NoInternals>
<Scroller.NotME>0</Scroller.NotME>
<Scroller.NotMine>0</Scroller.NotMine>
<Scroller.RFOnly>0</Scroller.RFOnly>
```

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```
<Scroller.HideNoParse>0</Scroller.HideNoParse>
<Scroller.Filter></Scroller.Filter>
<!--PathAlias-->
<View.Custom.Primary></View.Custom.Primary>
<View.Custom.Alternate></View.Custom.Alternate>
<View.Flight.Primary>&apos;O^</View.Flight.Primary>
<View.Flight.Alternate>V^</View.Flight.Alternate>
<View.Marine.Primary>Ys</View.Marine.Primary>
<View.Marine.Alternate>CLNs</View.Marine.Alternate>
<View.Mobile.Primary>!&apos;&lt;=&gt;()*0CFOPRSUXY[^\^abefgjkpsuv</View.Mobile.Pri
mary>
<View.Mobile.Alternate>&gt;KOS^ksuv</View.Mobile.Alternate>
<View.Weather.Primary> @W</View.Weather.Primary>
<View.Weather.Alternate>([*:&lt;@BDEFGHIJTUW_efgptwy{</View.Weather.Alternate>
<Center.Latitude>36.017546</Center.Latitude>
<Center.Longitude>-95.790380</Center.Longitude>
<Preferred.Latitude>0.000000</Preferred.Latitude>
<Preferred.Longitude>0.000000</Preferred.Longitude>
<Preferred.Zoom>0</Preferred.Zoom>
<Preferred.Scale>8.0000</Preferred.Scale>
<Preferred.Orientation>0</Preferred.Orientation>
<Tracking.Call></Tracking.Call>
<Tracking.Center>0</Tracking.Center>
<Tracking.Locked>0</Tracking.Locked>
<APRSISPort>@rotate.aprs2.net:14580</APRSISPort>
<APRSIS.XmitEnabled>1</APRSIS.XmitEnabled>
<APRSIS.RFtoISEnabled>1</APRSIS.RFtoISEnabled>
<APRSIS.IStoRFEnabled>1</APRSIS.IStoRFEnabled>
<APRSIS.BeaconingEnabled>1</APRSIS.BeaconingEnabled>
<APRSIS.MessagesEnabled>1</APRSIS.MessagesEnabled>
<APRSIS.BulletinObjectEnabled>1</APRSIS.BulletinObjectEnabled>
<APRSIS.TelemetryEnabled>1</APRSIS.TelemetryEnabled>
<GPSPort></GPSPort>

<OSM.Zoom>18</OSM.Zoom>
<OSM.Percent>50</OSM.Percent>
<OSM.MinMBFree>8</OSM.MinMBFree>
<OSM.PurgeDisabled>0</OSM.PurgeDisabled>
<OSM.Name>Original</OSM.Name>
<OSM.Server>tile.openstreetmap.org</OSM.Server>
<OSM.Port>80</OSM.Port>
<OSM.URLPrefix></OSM.URLPrefix>
<OSM.SupportsStatus>1</OSM.SupportsStatus>
<OSM.Path>./OSMTiles/</OSM.Path>
```

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```
<OSM.PurgeEnabled>1</OSM.PurgeEnabled>
<OSM.RetainDays>7</OSM.RetainDays>
<OSM.RetainZoom>5</OSM.RetainZoom>
<OSM.MinServerZoom>0</OSM.MinServerZoom>
<OSM.MaxServerZoom>18</OSM.MaxServerZoom>
<OSM.RevisionHours>0</OSM.RevisionHours>
```

```
<!--TileServer[0]-->
<TileServer Name="Original">
<Server>tile.openstreetmap.org</Server>
<Port>80</Port>
<URLPrefix>/</URLPrefix>
<SupportsStatus>1</SupportsStatus>
<Path>OSMTiles/</Path>
<PurgeEnabled>1</PurgeEnabled>
<RetainDays>7</RetainDays>
<RetainZoom>5</RetainZoom>
<MinServerZoom>0</MinServerZoom>
<MaxServerZoom>18</MaxServerZoom>
<RevisionHours>0</RevisionHours>
</TileServer>
<!--TileServer[0]-->
```

```
<!--RFPort Name=""-->
<!--Protocol-->
<!--Device-->
<!--RfBaud-->
<!--OpenCmd-->
<!--CloseCmd-->
<!--QuietTime-->
<!--Enabled-->
<!--XmitEnabled-->
<!--ProvidesNMEA-->
<!--RFtoISEnabled-->
<!--IStoRFEnabled-->
<!--MyCallNot3rd-->
<!--BeaconingEnabled-->
<!--BeaconPath-->
<!--BulletinObjectEnabled-->
<!--DXEnabled-->
<!--DXPath-->
<!--MessagesEnabled-->
<!--MessagePath-->
```

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```
<!--TelemetryEnabled-->
<!--TelemetryPath-->
<!--DigiXform-->
<!--/RFPort-->
```

```
<!--DigiXform-->
```

```
<!--Object Name=""-->
<!--Group-->
<!--Comment-->
<!--Table-->
<!--Symbol-->
<!--Latitude-->
<!--Longitude-->
<!--Compressed-->
<!--Precision-->
<!--Item-->
<!--HHMMSS-->
<!--Permanent-->
<!--Interval-->
<!--Kill-->
<!--KillXmitCount-->
<!--Enabled-->
<!--ISEnabled-->
<!--RFEnabled-->
<!--RFPATH-->
<!--LastTransmit-->
<!--JT65-->
<!--Weather-->
<!--WeatherPath-->
<!--LastWeather-->
<!--DAO-->
<!--/Object-->
```

```
<!--TACTICALSource-->
```

```
<!--Nickname[0]-->
<Nickname Station="KD5NJR">
<Enabled>0</Enabled>
<AutoMultiTrack>0</AutoMultiTrack>
<ActiveMultiTrack>0</ActiveMultiTrack>
<AlwaysMultiTrack>0</AlwaysMultiTrack>
<Label>ME</Label>
<OverrideLabel>0</OverrideLabel>
```

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```
<Comment></Comment>
<OverrideComment>0</OverrideComment>
<Table></Table>
<Symbol>l</Symbol>
<OverrideSymbol>0</OverrideSymbol>
<Color></Color>
<OverrideColor>0</OverrideColor>
<DefinedBy></DefinedBy>
<LastUsed>2014-08-25T00:21:46</LastUsed>
</Nickname>
<!--Nickname[0]-->
```

```
<!--Overlays FileName=""-->
<!--Type-->
<!--Enabled-->
<!--Label.Enabled-->
<!--Label.ID-->
<!--Label.Comment-->
<!--Label.Status-->
<!--Label.Altitude-->
<!--Label.Timestamp-->
<!--Label.SuppressDate-->
<!--Route.Enabled-->
<!--Route.Label-->
<!--Route.Symbol.Show-->
<!--Route.Symbol.Force-->
<!--Route.Symbol.Symbol.Table-->
<!--Route.Symbol.Symbol.Symbol-->
<!--Route.Line.Width-->
<!--Route.Line.Opacity-->
<!--Route.Line.Color-->
<!--Track.Enabled-->
<!--Track.Label-->
<!--Track.Symbol.Show-->
<!--Track.Symbol.Force-->
<!--Track.Symbol.Symbol.Table-->
<!--Track.Symbol.Symbol.Symbol-->
<!--Track.Line.Width-->
<!--Track.Line.Opacity-->
<!--Track.Line.Color-->
<!--Waypoint.Enabled-->
<!--Waypoint.Label-->
<!--Waypoint.Symbol.Show-->
```



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```
<!--Waypoint.Symbol.Force-->
<!--Waypoint.Symbol.Symbol.Table-->
<!--Waypoint.Symbol.Symbol.Symbol-->
<!--Waypoint.Line.Width-->
<!--Waypoint.Line.Opacity-->
<!--Waypoint.Line.Color-->
<!--/Overlays-->
```

```
<!--MicE[0]-->
<MicE Name="ZERO">
<XmitTag></XmitTag>
<Enabled>0</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[0]-->
```

```
<!--MicE[1]-->
<MicE Name="EMERGENCY!">
<XmitTag>!EMERGENCY!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>1</InternalMessage>
<MultiTrackNew>1</MultiTrackNew>
<MultiTrackActive>1</MultiTrackActive>
<FlashOnCenter>1</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Red</Color>
<!--Ignore-->
</MicE>
<!--MicE[1]-->
```

```
<!--MicE[2]-->
<MicE Name="Off Duty">
<XmitTag>!OFF-DUTY!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
```

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```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>0</Highlight>
```

```
<Color></Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[2]-->
```

```
<!--MicE[3]-->
```

```
<MicE Name="En Route">
```

```
<XmitTag>!ENROUTE!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>0</InternalMessage>
```

```
<MultiTrackNew>0</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>0</Highlight>
```

```
<Color></Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[3]-->
```

```
<!--MicE[4]-->
```

```
<MicE Name="In Service">
```

```
<XmitTag>!INSERVICE!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>0</InternalMessage>
```

```
<MultiTrackNew>0</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>0</Highlight>
```

```
<Color></Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[4]-->
```

```
<!--MicE[5]-->
```

```
<MicE Name="Returning">
```

```
<XmitTag>!RETURNING!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>0</InternalMessage>
```

```
<MultiTrackNew>0</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>0</Highlight>
```

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```
<Color></Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[5]-->
```

```
<!--MicE[6]-->
```

```
<MicE Name="Committed">
```

```
<XmitTag>!COMMITTED!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>0</InternalMessage>
```

```
<MultiTrackNew>0</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>0</Highlight>
```

```
<Color></Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[6]-->
```

```
<!--MicE[7]-->
```

```
<MicE Name="Special">
```

```
<XmitTag>!SPECIAL!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>1</InternalMessage>
```

```
<MultiTrackNew>0</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>0</FlashOnCenter>
```

```
<Highlight>1</Highlight>
```

```
<Color>Yellow</Color>
```

```
<!--Ignore-->
```

```
</MicE>
```

```
<!--MicE[7]-->
```

```
<!--MicE[8]-->
```

```
<MicE Name="Priority">
```

```
<XmitTag>!PRIORITY!</XmitTag>
```

```
<Enabled>1</Enabled>
```

```
<InternalMessage>1</InternalMessage>
```

```
<MultiTrackNew>1</MultiTrackNew>
```

```
<MultiTrackActive>0</MultiTrackActive>
```

```
<FlashOnCenter>1</FlashOnCenter>
```

```
<Highlight>1</Highlight>
```

```
<Color>Orange</Color>
```

```
<!--Ignore-->
```

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```
</MicE>
<!--MicE[8]-->

<!--MicE[9]-->
<MicE Name="Custom-0">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[9]-->

<!--MicE[10]-->
<MicE Name="Custom-1">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[10]-->

<!--MicE[11]-->
<MicE Name="Custom-2">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[11]-->
```

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```
<!--MicE[12]-->
<MicE Name="Custom-3">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[12]-->
```

```
<!--MicE[13]-->
<MicE Name="Custom-4">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[13]-->
```

```
<!--MicE[14]-->
<MicE Name="Custom-5">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[14]-->
```

```
<!--MicE[15]-->
<MicE Name="Custom-6">
```

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```
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>0</Highlight>
<Color></Color>
<!--Ignore-->
</MicE>
<!--MicE[15]-->
```

```
<!--MicE[16]-->
<MicE Name="Alarm">
<XmitTag>!ALARM!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>1</InternalMessage>
<MultiTrackNew>1</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>1</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Orange</Color>
<!--Ignore-->
</MicE>
<!--MicE[16]-->
```

```
<!--MicE[17]-->
<MicE Name="Alert">
<XmitTag>!ALERT!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>1</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Yellow</Color>
<!--Ignore-->
</MicE>
<!--MicE[17]-->
```

```
<!--MicE[18]-->
<MicE Name="Warning">
<XmitTag>!WARNING!</XmitTag>
<Enabled>1</Enabled>
```

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```
<InternalMessage>1</InternalMessage>
<MultiTrackNew>1</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Orange</Color>
<!--Ignore-->
</MicE>
<!--MicE[18]-->
```

```
<!--MicE[19]-->
<MicE Name="Wx Alarm">
<XmitTag>!WXALARM!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>1</InternalMessage>
<MultiTrackNew>1</MultiTrackNew>
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>1</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Orange</Color>
<!--Ignore-->
</MicE>
<!--MicE[19]-->
```

```
<!--MicE[20]-->
<MicE Name="TEST Alarm">
<XmitTag>!TESTALARM!</XmitTag>
<Enabled>1</Enabled>
<InternalMessage>1</InternalMessage>
<MultiTrackNew>1</MultiTrackNew>
<MultiTrackActive>1</MultiTrackActive>
<FlashOnCenter>1</FlashOnCenter>
<Highlight>1</Highlight>
<Color>Crimson</Color>
<!--Ignore-->
</MicE>
<!--MicE[20]-->
```

```
<!--MicE[21]-->
<MicE Name="unknown">
<XmitTag></XmitTag>
<Enabled>1</Enabled>
<InternalMessage>0</InternalMessage>
<MultiTrackNew>0</MultiTrackNew>
```

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```
<MultiTrackActive>0</MultiTrackActive>
<FlashOnCenter>0</FlashOnCenter>
<Highlight>1</Highlight>
<Color>DarkKhaki</Color>
<!--Ignore-->
</MicE>
<!--MicE[21]-->
```

```
<!--NWSServer EntryCall=""-->
<!--Description-->
<!--Disabled-->
<!--Finger.Server-->
<!--Finger.Port-->
<!--/NWSServer-->
```

```
<!--NWSProd Name=""-->
<!--Description-->
<!--Symbol.Table-->
<!--Symbol.Symbol-->
<!--ActionEnabled-->
<!--LineType-->
<!--/NWSProd-->
```

```
<!--LineStyle LineType=""-->
<!--Description-->
<!--Color-->
<!--Style-->
<!--ActionEnabled-->
<!--/LineStyle-->
```

```
<!--Bulletin Name=""-->
<!--Comment-->
<!--Interval-->
<!--Enabled-->
<!--ISEnabled-->
<!--RFEnabled-->
<!--RFPATH-->
<!--LastTransmit-->
<!--/Bulletin-->
```



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```
<!--CQGroup Name=""-->
<!--Comment-->
<!--Interval-->
<!--KeepAlive-->
<!--ViaCQSRVR-->
<!--QuietMonitor-->
<!--ISOnly-->
<!--IfPresent-->
<!--LastTransmit-->
<!--/CQGroup-->
```

```
<Telemetry.Version>0</Telemetry.Version>
<Telemetry.Defined>0000-00-00T00:00:00</Telemetry.Defined>
<Telemetry.DefHours>24</Telemetry.DefHours>
<Telemetry.Interval>15</Telemetry.Interval>
<Telemetry.MinTime>15</Telemetry.MinTime>
<Telemetry.Index>2</Telemetry.Index>
<ColorChoice RGB="16775408">aliceblue</ColorChoice>
<ColorChoice RGB="14150650">antiquewhite</ColorChoice>
<ColorChoice RGB="16776960">aqua</ColorChoice>
<ColorChoice RGB="13959039">aquamarine</ColorChoice>
<ColorChoice RGB="16777200">azure</ColorChoice>
<ColorChoice RGB="14480885">beige</ColorChoice>
<ColorChoice RGB="12903679">bisque</ColorChoice>
<ColorChoice RGB="0">black</ColorChoice>
<ColorChoice RGB="13495295">blanchedalmond</ColorChoice>
<ColorChoice RGB="16711680">blue</ColorChoice>
<ColorChoice RGB="14822282">blueviolet</ColorChoice>
<ColorChoice RGB="2763429">brown</ColorChoice>
<ColorChoice RGB="8894686">burlywood</ColorChoice>
<ColorChoice RGB="10526303">cadetblue</ColorChoice>
<ColorChoice RGB="65407">chartreuse</ColorChoice>
<ColorChoice RGB="1993170">chocolate</ColorChoice>
<ColorChoice RGB="5275647">coral</ColorChoice>
<ColorChoice RGB="15570276">cornflowerblue</ColorChoice>
<ColorChoice RGB="14481663">cornsilk</ColorChoice>
<ColorChoice RGB="3937500">crimson</ColorChoice>
<ColorChoice RGB="16776960">cyan</ColorChoice>
<ColorChoice RGB="9109504">darkblue</ColorChoice>
```

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<ColorChoice RGB="9145088">darkcyan</ColorChoice>  
<ColorChoice RGB="755384">darkgoldenrod</ColorChoice>  
<ColorChoice RGB="11119017">darkgray</ColorChoice>  
<ColorChoice RGB="25600">darkgreen</ColorChoice>  
<ColorChoice RGB="7059389">darkkhaki</ColorChoice>  
<ColorChoice RGB="9109643">darkmagenta</ColorChoice>  
<ColorChoice RGB="3107669">darkolivegreen</ColorChoice>  
<ColorChoice RGB="36095">darkorange</ColorChoice>  
<ColorChoice RGB="13382297">darkorchid</ColorChoice>  
<ColorChoice RGB="139">darkred</ColorChoice>  
<ColorChoice RGB="8034025">darksalmon</ColorChoice>  
<ColorChoice RGB="9419919">darkseagreen</ColorChoice>  
<ColorChoice RGB="9125192">darkslateblue</ColorChoice>  
<ColorChoice RGB="5197615">darkslategray</ColorChoice>  
<ColorChoice RGB="13749760">darkturquoise</ColorChoice>  
<ColorChoice RGB="13828244">darkviolet</ColorChoice>  
<ColorChoice RGB="9639167">deeppink</ColorChoice>  
<ColorChoice RGB="12566272">deepskyblue</ColorChoice>  
<ColorChoice RGB="6908265">dimgray</ColorChoice>  
<ColorChoice RGB="16748574">dodgerblue</ColorChoice>  
<ColorChoice RGB="2237106">firebrick</ColorChoice>  
<ColorChoice RGB="15792895">floralwhite</ColorChoice>  
<ColorChoice RGB="2263842">forestgreen</ColorChoice>  
<ColorChoice RGB="16711935">fuchsia</ColorChoice>  
<ColorChoice RGB="16775416">ghostwhite</ColorChoice>  
<ColorChoice RGB="14474460">gainsboro</ColorChoice>  
<ColorChoice RGB="55295">gold</ColorChoice>  
<ColorChoice RGB="2139610">goldenrod</ColorChoice>  
<ColorChoice RGB="8421504">gray</ColorChoice>  
<ColorChoice RGB="32768">green</ColorChoice>  
<ColorChoice RGB="3145645">greenyellow</ColorChoice>  
<ColorChoice RGB="15794160">honeydew</ColorChoice>  
<ColorChoice RGB="11823615">hotpink</ColorChoice>  
<ColorChoice RGB="6053069">indianred</ColorChoice>  
<ColorChoice RGB="8519755">indigo</ColorChoice>  
<ColorChoice RGB="15794175">ivory</ColorChoice>  
<ColorChoice RGB="9234160">khaki</ColorChoice>  
<ColorChoice RGB="16443110">lavender</ColorChoice>  
<ColorChoice RGB="16118015">lavenderblush</ColorChoice>

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<ColorChoice RGB="64636">lawngreen</ColorChoice>  
<ColorChoice RGB="13499135">lemonchiffon</ColorChoice>  
<ColorChoice RGB="15128749">lightblue</ColorChoice>  
<ColorChoice RGB="8421616">lightcoral</ColorChoice>  
<ColorChoice RGB="16777184">lightcyan</ColorChoice>  
<ColorChoice RGB="13826810">lightgoldenrodyellow</ColorChoice>  
<ColorChoice RGB="9498256">lightgreen</ColorChoice>  
<ColorChoice RGB="13882323">lightgrey</ColorChoice>  
<ColorChoice RGB="12695295">lightpink</ColorChoice>  
<ColorChoice RGB="8036607">lightsalmon</ColorChoice>  
<ColorChoice RGB="11186720">lightseagreen</ColorChoice>  
<ColorChoice RGB="16436871">lightskyblue</ColorChoice>  
<ColorChoice RGB="10061943">lightslategray</ColorChoice>  
<ColorChoice RGB="14599344">lightsteelblue</ColorChoice>  
<ColorChoice RGB="14745599">lightyellow</ColorChoice>  
<ColorChoice RGB="65280">lime</ColorChoice>  
<ColorChoice RGB="3329330">limegreen</ColorChoice>  
<ColorChoice RGB="15134970">linen</ColorChoice>  
<ColorChoice RGB="16711935">magenta</ColorChoice>  
<ColorChoice RGB="128">maroon</ColorChoice>  
<ColorChoice RGB="11193702">mediumaquamarine</ColorChoice>  
<ColorChoice RGB="13434880">mediumblue</ColorChoice>  
<ColorChoice RGB="13850042">mediumorchid</ColorChoice>  
<ColorChoice RGB="14381203">mediumpurple</ColorChoice>  
<ColorChoice RGB="7451452">mediumseagreen</ColorChoice>  
<ColorChoice RGB="15624315">mediumslateblue</ColorChoice>  
<ColorChoice RGB="10156544">mediumspringgreen</ColorChoice>  
<ColorChoice RGB="13422920">mediumturquoise</ColorChoice>  
<ColorChoice RGB="8721863">mediumvioletred</ColorChoice>  
<ColorChoice RGB="7346457">midnightblue</ColorChoice>  
<ColorChoice RGB="16449525">mintcream</ColorChoice>  
<ColorChoice RGB="14804223">mistyrose</ColorChoice>  
<ColorChoice RGB="11920639">moccasin</ColorChoice>  
<ColorChoice RGB="11394815">navajowhite</ColorChoice>  
<ColorChoice RGB="8388608">navy</ColorChoice>  
<ColorChoice RGB="15136253">oldlace</ColorChoice>  
<ColorChoice RGB="32896">olive</ColorChoice>  
<ColorChoice RGB="2330219">olivedrab</ColorChoice>  
<ColorChoice RGB="42495">orange</ColorChoice>

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<ColorChoice RGB="17919">orangered</ColorChoice>  
<ColorChoice RGB="14053594">orchid</ColorChoice>  
<ColorChoice RGB="11200750">palegoldenrod</ColorChoice>  
<ColorChoice RGB="10025880">palegreen</ColorChoice>  
<ColorChoice RGB="15658671">paleturquoise</ColorChoice>  
<ColorChoice RGB="9662683">palevioletred</ColorChoice>  
<ColorChoice RGB="14020607">papayawhip</ColorChoice>  
<ColorChoice RGB="12180223">peachpuff</ColorChoice>  
<ColorChoice RGB="4163021">peru</ColorChoice>  
<ColorChoice RGB="13353215">pink</ColorChoice>  
<ColorChoice RGB="14524637">plum</ColorChoice>  
<ColorChoice RGB="15130800">powderblue</ColorChoice>  
<ColorChoice RGB="8388736">purple</ColorChoice>  
<ColorChoice RGB="255">red</ColorChoice>  
<ColorChoice RGB="9408444">rosybrown</ColorChoice>  
<ColorChoice RGB="14772545">royalblue</ColorChoice>  
<ColorChoice RGB="1262987">saddlebrown</ColorChoice>  
<ColorChoice RGB="7504122">salmon</ColorChoice>  
<ColorChoice RGB="6333684">sandybrown</ColorChoice>  
<ColorChoice RGB="5737262">seagreen</ColorChoice>  
<ColorChoice RGB="15660543">seashell</ColorChoice>  
<ColorChoice RGB="2970272">sienna</ColorChoice>  
<ColorChoice RGB="12632256">silver</ColorChoice>  
<ColorChoice RGB="15453831">skyblue</ColorChoice>  
<ColorChoice RGB="13458026">slateblue</ColorChoice>  
<ColorChoice RGB="9470064">slategray</ColorChoice>  
<ColorChoice RGB="16448255">snow</ColorChoice>  
<ColorChoice RGB="8388352">springgreen</ColorChoice>  
<ColorChoice RGB="11829830">steelblue</ColorChoice>  
<ColorChoice RGB="9221330">tan</ColorChoice>  
<ColorChoice RGB="8421376">teal</ColorChoice>  
<ColorChoice RGB="14204888">thistle</ColorChoice>  
<ColorChoice RGB="4678655">tomato</ColorChoice>  
<ColorChoice RGB="13688896">turquoise</ColorChoice>  
<ColorChoice RGB="15631086">violet</ColorChoice>  
<ColorChoice RGB="11788021">wheat</ColorChoice>  
<ColorChoice RGB="16777215">white</ColorChoice>  
<ColorChoice RGB="16119285">whitesmoke</ColorChoice>  
<ColorChoice RGB="65535">yellow</ColorChoice>

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```
<ColorChoice RGB="3329434">yellowgreen</ColorChoice>
<TrackColor Enabled="0">aqua</TrackColor>
<TrackColor Enabled="1">black</TrackColor>
<TrackColor Enabled="0">blue</TrackColor>
<TrackColor Enabled="0">fuchsia</TrackColor>
<TrackColor Enabled="0">gray</TrackColor>
<TrackColor Enabled="0">green</TrackColor>
<TrackColor Enabled="0">lime</TrackColor>
<TrackColor Enabled="0">maroon</TrackColor>
<TrackColor Enabled="0">navy</TrackColor>
<TrackColor Enabled="0">olive</TrackColor>
<TrackColor Enabled="0">purple</TrackColor>
<TrackColor Enabled="0">red</TrackColor>
<TrackColor Enabled="0">silver</TrackColor>
<TrackColor Enabled="0">teal</TrackColor>
<TrackColor Enabled="0">white</TrackColor>
<TrackColor Enabled="0">yellow</TrackColor>
<!--Satellite-->
<!--SatelliteURL-->
<!--SatelliteFile-->
<SatelliteCount>0</SatelliteCount>
<SatellitePos></SatellitePos>
<SatelliteHide>0</SatelliteHide>
<Update.AutoCheck>1</Update.AutoCheck>
<Update.Development>0</Update.Development>
<Update.CheckInterval>2</Update.CheckInterval>
<Update.LastCheck>2014-08-25T00:27:17</Update.LastCheck>
<Update.LastSeen>2012/08/30 09:19</Update.LastSeen>
<Update.ReminderInterval>7</Update.ReminderInterval>
<Update.LastReminder>2014-08-25T00:27:17</Update.LastReminder>
<!--IgnoreEavesdrop-->
<!--MessageCall-->
<!--EMail-->
<!--Overlay-->
<!--TelemetryDefinition-->
<!--RcvdBulletin-->
<!--RcvdWeather-->
<!--AutoTrack-->
<!--AutoTrackAlways-->
```

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```
<!--TraceLog-->
<!--TraceLogAlways-->
<!--TraceLogPos-->
<WindowPosition>*MainWindow*:0@50,50[1200,625]All</WindowPosition>
<!--SavedPosit-->
<SavedPositFilter></SavedPositFilter>
<SavedPositPaths>0</SavedPositPaths>
<PacketScrollerSize>33</PacketScrollerSize>
<MaxWidthStationID>NOCALL</MaxWidthStationID>
</APRSISCE>
```