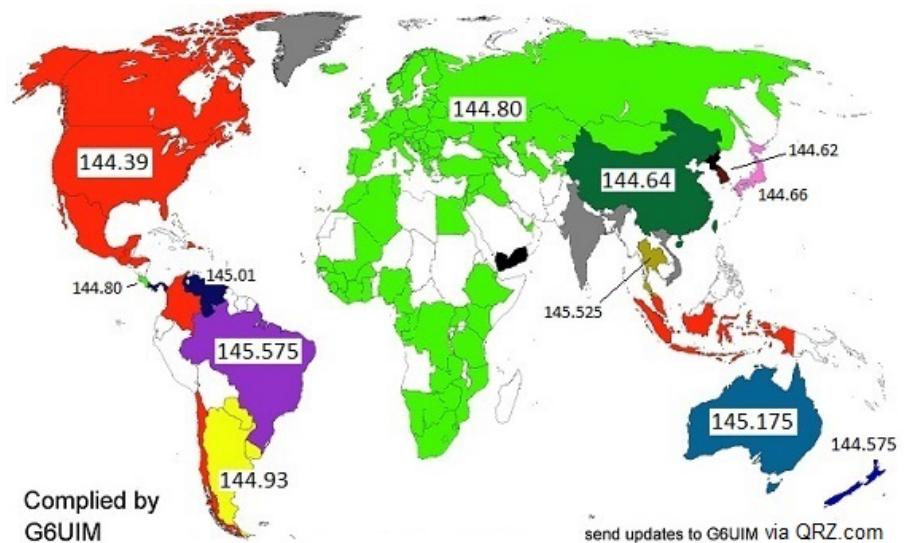


APRS



APRS is a two-way tactical real-time digital communications system between all assets in a network sharing information about everything going on in the local area. On ham radio, this means if something is happening now, or there is information that could be valuable to you, then it should show up on your APRS radio in your mobile.

Basically, the way it works is:

- Your APRS capable radio transmits data on 144.39 Mhz (in North America).
- Someone else's APRS capable radio hears that data and can display it, store it, and re-transmit it.

APRS-IS is the common name given to the Internet-based network which inter-connects various APRS radio networks throughout the world.

Basically, the way it works is:

- Your APRS capable radio connected to a computer (called an IGate) sends what it hears to the internet.
- Others can view this information [online](#) or using [various apps](#). For example, see [aprs.fi](#) and [APRSdroid](#) ¹⁾

Windows

Pinpoint is a Windows program for APRS.

PinPoint v2.0 build 190521

File Map Tools View Lat: 49° 53.4657' N Lon: 123° 42.6929' W Zoom: 8 Distance: 51.08 km at 355°

Radio reports

- Position reports (38)
- Miscellaneous reports (7)
- Weather reports (3)
- APRS-IS reports
- Messages
- Inbox (1)
- Sent items (1)
- Packet errors

SoundModem by UZ7HO - Ver 1.00b - [AFSK AX.25 1200bd]

Settings View Clear monitor Calibration About

A: [AFSK AX.25 1200bd] 1700 DCD threshold

1: Fm VE7DYT To APBPQ1 Via WIDE2-1 <UI R Pid=F0 Len=57> [19:25:51R] [+++]
 I4909.99N12358.52W& BPQ PI-TNC APRS iGate/DIGI
 1: Fm VE7DYT To APBPQ1 Via DEPBAY*, WIDE2* <UI R Pid=F0 Len=57> [19:25:51R]
 I4909.99N12358.52W& BPQ PI-TNC APRS iGate/DIGI
 1: Fm VE7FI-7 To T9UXXT Via VA7YLW-1*, WIDE1*, THYNNE*, WIDE2*, SSI*, WIDE
 [19:25:55R] [+++]
 /3bqLU\ "8Y) Canoeing Clearwater Azure 73! Mon:145.350 or 146.920_

1: Fm VA7MIA-9 To T9RRVR Via VE7KU-15*, WIDE1*, WIDE2-1 <UI R Pid=F0 Len=57> [19:25:55R]
 =4924.37N/12331.79W-146.680MHz T141 - /A=131

1: Fm VE7TBP To APRS Via LDYSMH*, WIDE1* <UI C Pid=F0 Len=45> [19:26:08R]
 =4924.37N/12331.79W-146.680MHz T141 - /A=131

1: Fm K7KCA-3 To APX204 Via K7KCA-1*, VE7RNA-10*, WIDE2* <UI R Pid=F0 Len=16> [19:26:08R]
 =4831.52N/12254.77W-Lopez Is Village UDRC/Xastir
 1: Fm VA7AGG-7 To TY2SVR Via VE7RNA-10*, WIDE2-1 <UI R Pid=F0 Len=16> [19:26:08R]
 =4831.52N/12254.77W-Lopez Is Village UDRC/Xastir

1: Fm VA7AGG-7 To TY2SVR Via VE7RNA-10*, LDYSMH*, WIDE2* <UI R Pid=F0 Len=16> [19:26:08R]
 =4831.52N/12254.77W-Lopez Is Village UDRC/Xastir

Communications Monitor

Show GPS Data Clear Data


VE7RAW>U0TQTT,BGWHT*, WIDE1, THYNNE, SSI, WIDE2: / (Z) - /
 VE7DYT>APBPQ1, WIDE2-1: I4909.99N12358.52W& BPQ PI-TNC APRS iGate/DIGI
 VE7DYT>APBPQ1, DEPBAY*, WIDE2: I4909.99N12358.52W& BPQ PI-TNC APRS iGate/DIGI
 VE7FI-7>T9UXXT, VA7YLW-1*, WIDE1, THYNNE, WIDE2, SSI, WIDE1: /3bqLU\ "8Y) Canoeing
 Clearwater Azure 73! Mon:145.350 or 146.920_
 VA7MIA-9>T9RRVR, VE7KU-15*, WIDE1, WIDE2-1: 4T~! "p> / "4y)_%
 VE7TBP>APRS, LDYSMH*, WIDE1=4924.37N/12331.79W-146.680MHz T141 - /A=131
 K7KCA-3>APX204, K7KCA-1*, VE7RNA-10, WIDE2=4831.52N/12254.77W-Lopez Is Village
 UDRC/Xastir
 VA7AGG-7>TY2SVR, VE7RNA-10*, WIDE2-1: 3:4if.K\] "4F)=
 VA7AGG-7>TY2SVR, VE7RNA-10*, LDYSMH, WIDE2: 3:4if.K\] "4F)=

Online | TNC Connected | GPS Disconnected | APRS-IS Disconnected | iGate Inactive | Beacons Enabled

Configuration

To use with Signalink, see the [Signalink How-to](#).

Once the radio, the Signalink, and the Soundmodem are configured, start PinPoint and change these settings:

 Options — □ ×

APRS

TNC

GPS

Map

APRS-IS

Misc

Donate

My APRS Call sign + SSID

VE7HZF


APRS Path

WIDE1-1

Position comment

Station icon

<



>

Overlay (type table + symbol directly in box + Enter key)

/y

APRS DigiPeater settings

☐ Enable APRS DigiPeater (Fill-in Digi. For non-KISS TNC's only for the moment)

My DigiPeater alias

WIDE1-1

APRS Position Beacons settings

☒ Enable APRS beacons

Beacon at least every

30

minutes

0

seconds

Beacon a minimum of every

5

km

Beacon when heading changes more than

35

degrees

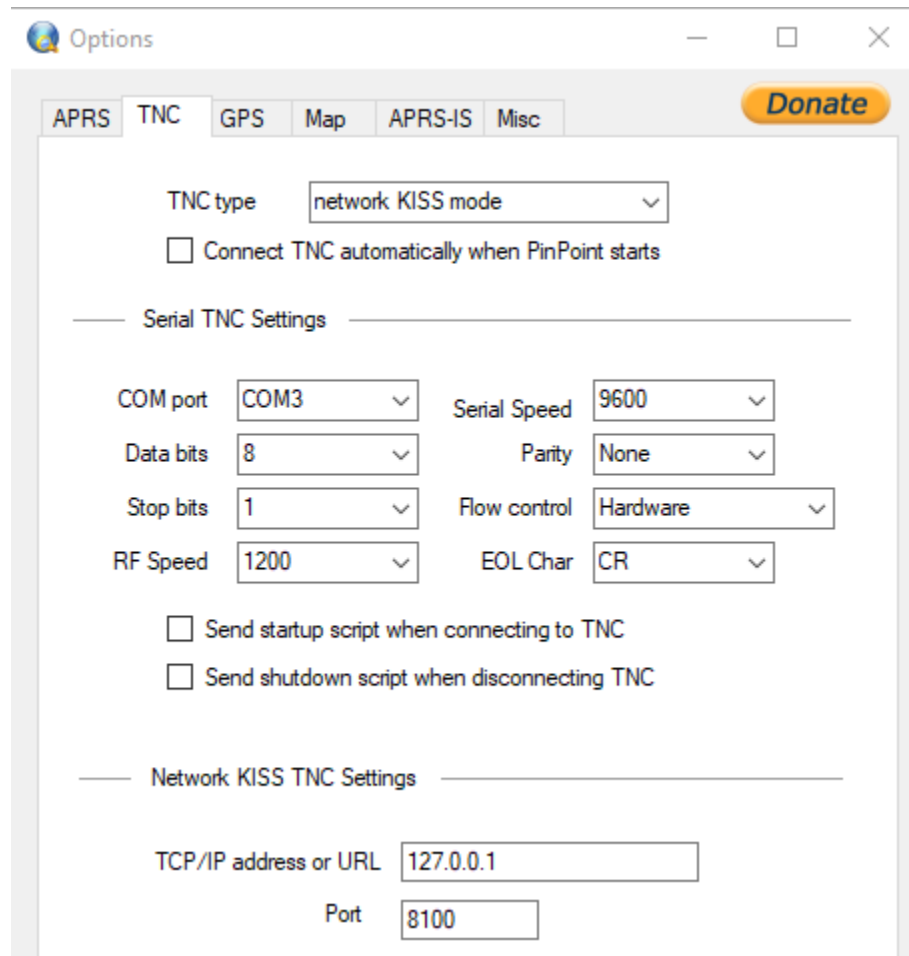
☒ Beacon my altitude

☐ Beacon my course and speed

Maximum speed reported via radio

105

km/h



The screenshot shows the 'Options' window with the 'TNC' tab selected. The window has a title bar with a minimize button, a maximize button, and a close button. Below the title bar is a navigation bar with tabs: 'APRS', 'TNC', 'GPS', 'Map', 'APRS-IS', and 'Misc'. A yellow 'Donate' button is located in the top right corner. The main content area is divided into sections. The first section has a 'TNC type' dropdown menu set to 'network KISS mode' and a checkbox labeled 'Connect TNC automatically when PinPoint starts' which is unchecked. Below this is a section titled 'Serial TNC Settings' with a horizontal line separator. It contains several dropdown menus: 'COM port' (COM3), 'Serial Speed' (9600), 'Data bits' (8), 'Parity' (None), 'Stop bits' (1), 'Flow control' (Hardware), 'RF Speed' (1200), and 'EOL Char' (CR). There are also two checkboxes: 'Send startup script when connecting to TNC' and 'Send shutdown script when disconnecting TNC', both of which are unchecked. Below this is a section titled 'Network KISS TNC Settings' with a horizontal line separator. It contains a 'TCP/IP address or URL' text box with '127.0.0.1' and a 'Port' text box with '8100'.

Note:

- Network Kiss Port (8100) in the PinPoint settings needed to be changed to match the SoundModem settings.
- Also, the Serial TNC Settings don't matter since they are not being used by Network Kiss.

SSID

You'll sometimes see a dash number after the callsign, this is called an SSID and they have different meaning depending on whether you're on APRS or Winlink. See the [SSID How-To](#) for more info.

1)

Note that [APRSDroid](#) is free of charge when downloaded from the developer's website, but costs \$5 when installed from Google Play.