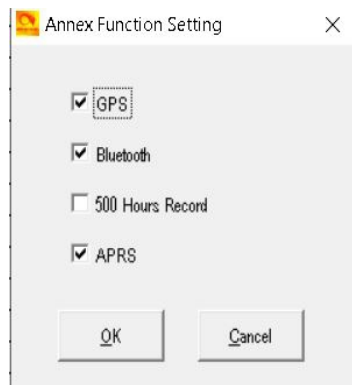


## Analog APRS Anytone 168/878/878plus/578 v7

Turn on APRS in the CPS.  
CPS - Tool – Options



Newer firmware will have more options

### Step One

| Analog                  |                 |
|-------------------------|-----------------|
| APRS TX Tone            | Off             |
| TOCALL                  | APAT81          |
| TOCALL SSID             | 0               |
| Your Call Sign          |                 |
| Your SSID               | -2              |
| APRS Symbol Table       | /               |
| APRS Map Icon           | [               |
| Digipeater Path         | WIDE1-1,WIDE2-1 |
| Enter Your Sending Text |                 |
| Transmit Delay[ms]      | 1200            |
| Send Sub Tone           | Off             |
| CTCSS                   | 62.5            |
| DCS                     | D000            |
| Prewave Time[ms]        | 1200            |
| Transmit Power          | Low             |
| Ana Aprs Tx             | Narrow          |

| Analog                       |           |                              |         |                              |         |
|------------------------------|-----------|------------------------------|---------|------------------------------|---------|
| Transmission Frequency1[MHz] | 144.80000 | Transmission Frequency2[MHz] | 0.00000 | Transmission Frequency3[MHz] | 0.00000 |
| Transmission Frequency4[MHz] | 0.00000   | Transmission Frequency5[MHz] | 0.00000 | Transmission Frequency6[MHz] | 0.00000 |
| Transmission Frequency7[MHz] | 0.00000   | Transmission Frequency8[MHz] | 0.00000 |                              |         |

Newer Firmware will have this for Frequencies

APRS TX Tone – On or Off

Destination Call Sign – Leave as

Your Call Sing – Enter your Call Sing

Your SSID – see list below

\*APRS Signal Path – WIDE1-1,WIDE2-1

Enter Your Sending Text – Call Sign and Name

Transmit Power – What ever you want

Transmit Frequency – UK – 144.80000

Transmit Delay [ms] = 1200

Prewave Time [ms] = 1200

Ana Aprs TX = Wide or Narrow (Both/All radios must be set the same) **UK is Narrow**

All others leave as default

SSID list

- 0 Your primary station usually fixed and message capable
- 1 generic additional station, digi, mobile, wx, etc
- 2 generic additional station, digi, mobile, wx, etc
- 3 generic additional station, digi, mobile, wx, etc
- 4 generic additional station, digi, mobile, wx, etc
- 5 Other networks (Dstar, Iphones, Androids, Blackberry's etc)
- 6 Special activity, Satellite ops, camping or 6 meters, etc
- 7 walkie talkies, HT's or other human portable
- 8 boats, sailboats, RV's or second main mobile
- 9 Primary Mobile (usually message capable)
- 10 internet, Igates, echolink, winlink, AVRS, APRN, etc
- 11 balloons, aircraft, spacecraft, etc
- 12 APRStt, DTMF, RFID, devices, one-way trackers\*, etc
- 13 Weather stations
- 14 Truckers or generally full time drivers
- 15 generic additional station, digi, mobile, wx, etc

## Step Two:

Go to Optional Settings.

Select GPS/Ranging tab.

Select GPS On. (Some 168 do not have GPS)

Select GPS Mode = GPS or Fix 1 to Fix 8

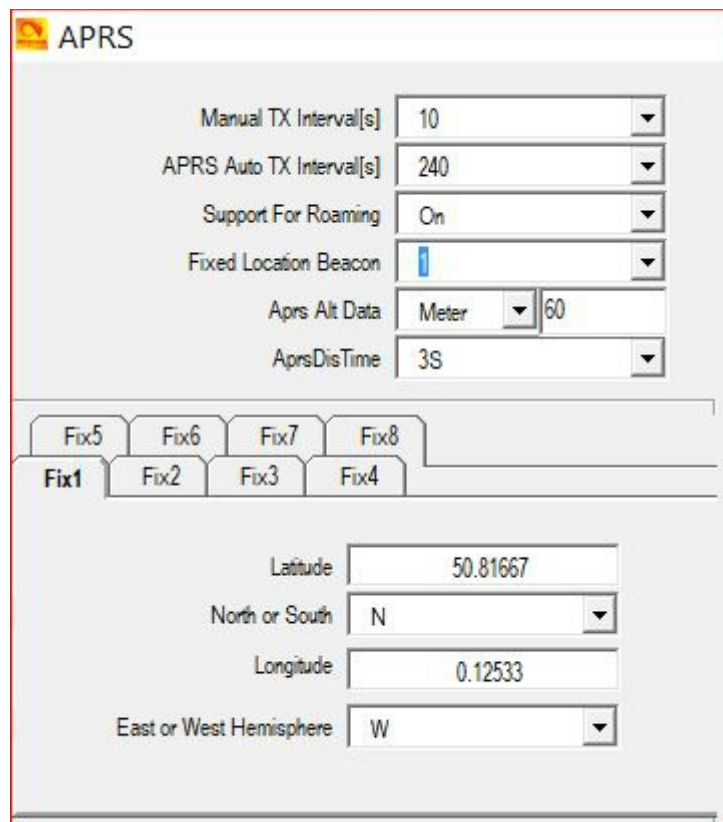
Select all settings as shown below.

The screenshot shows the 'GPS/Ranging' settings menu. The settings are as follows:

| Setting                  | Value       |
|--------------------------|-------------|
| GPS                      | On          |
| Get GPS Positioning      | On          |
| Time Zone                | GMT1        |
| Ranging Interval[s]      | 5           |
| Distance Unit            | Inch System |
| GPS Template Information | On          |
| Your Info                |             |
| Gps Mode                 | GPS         |

## Non GPS radios. (168)

You will need to use Fixed Location



APRS

Manual TX Interval[s] 10

APRS Auto TX Interval[s] 240

Support For Roaming On

Fixed Location Beacon 1

Aprs Alt Data Meter 60

AprsDisTime 3S

Fix5 Fix6 Fix7 Fix8

Fix1 Fix2 Fix3 Fix4

Latitude 50.81667

North or South N

Longitude 0.12533

East or West Hemisphere W

Fixed Location Beacon = 1 to 8

Fill in Fix 1 to Fix 8

### Step Three

Turn on in each Channel you wish to send Analog APRS

|                              |                     |
|------------------------------|---------------------|
| APRS Report Type             | Analog              |
| Analog APRS PTT Mode         | End Of Transmission |
| Digital APRS PTT Mode        | Off                 |
| Digital APRS Report Channel  | 1                   |
| Exclude channel from roaming | off                 |
| DMR MODE                     | DMO/simplex         |
| Analog APRS Report Freq      | 1                   |

... and set the analogue APRS Frequency number in the channel setting.  
(Analog APRS Report Freq 1 to 8)

\*APRS not always working on Analog.  
This seems to be down to the APRS Gateways.

APRS Signal Path = WIDE1-1,WIDE2-1  
If it does not work try changing to one off the below-  
WIDE1-1  
WIDE2-1  
WIDE2-2  
WIDE1-1,WIDE2-2

**From**

*Lynn (D) - KJ4ERJ - Author of APRSISCE for Windows Mobile and Win32*

Recommended paths in the NEWn-N paradigm are:

WIDE2-1 - Use for fixed stations that don't need a lower-level digipeater boost

WIDE1-1,WIDE2-1 - Normal path for mobiles, 2 total hops requested

WIDE1-1,WIDE2-2 - A good path for mobiles going further afield, 3 total hops requested

The WIDE1-1 will trigger both lower level fill-in digipeaters as well as the higher coverage digipeaters.

The WIDE2-1 and/or WIDE2-2 will trigger only the higher coverage digipeaters.

Of course, these recommendations are based on having properly configured digipeaters that respond based on their anticipated coverage areas and a well-designed digipeater network to start with.

For a good animation of the effects of the path, see  
<http://wa8lmf.net/DigiPaths/NNNN-Digi-Demo.htm>

<http://tiny.cc/AnytoneDMR>