



Fugawi Tracker 4

TECHNICAL INTERFACES DOCUMENTATION

APRS Protocol

July 2006 rev. 1

The APRS interface for Fugawi Tracker 4 is designed to accept Amateur Packet Radio messages over the COM port.

The interface accepts APRS messages as follows:

Fugawi Tracker 4 Setup

In the *Settings/Interface* select *APRS*

APRS Radio Setup

Set up the remote asset TNC or TNC-equipped radio to transmit the NMEA information from the GPS receiver in the following format:

ID>XXXNMEACR

where :

ID is the remote asset identification string
XXX is any arbitrary string (which will be ignored)
NMEA is a NMEA sentence
CR is a Carriage Return

The sentence can also end in a Line Feed or Line Feed followed by Carriage Return rather than just a Carriage Return.

More than one NMEA sentence can be sent by each asset, but each sentence must be on a separate line with the format described above.

The minimum NMEA sentence requirement is either RMC or GGA plus VTG.

Kenwood Radio \$PKLDS Messages

If you have a radio that sends \$PKLDS sentences, Fugawi Tracker 4 will interpret messages of the following type:

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$PKLDS,231732,A,3326.7460,S,7037.3402,W,000.0,000.0,250901,4.2,E00,111,1002,80,00,*5C
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The 111 is the Fleet ID and the 1002 is the individual ID in this example. These numbers will be entered in the Fugawi Tracker 4 data base as the telephone number. In this example, the telephone number would be listed as 111-1002. The user can add the name of the asset and other specific information to each asset in the Assets tab.