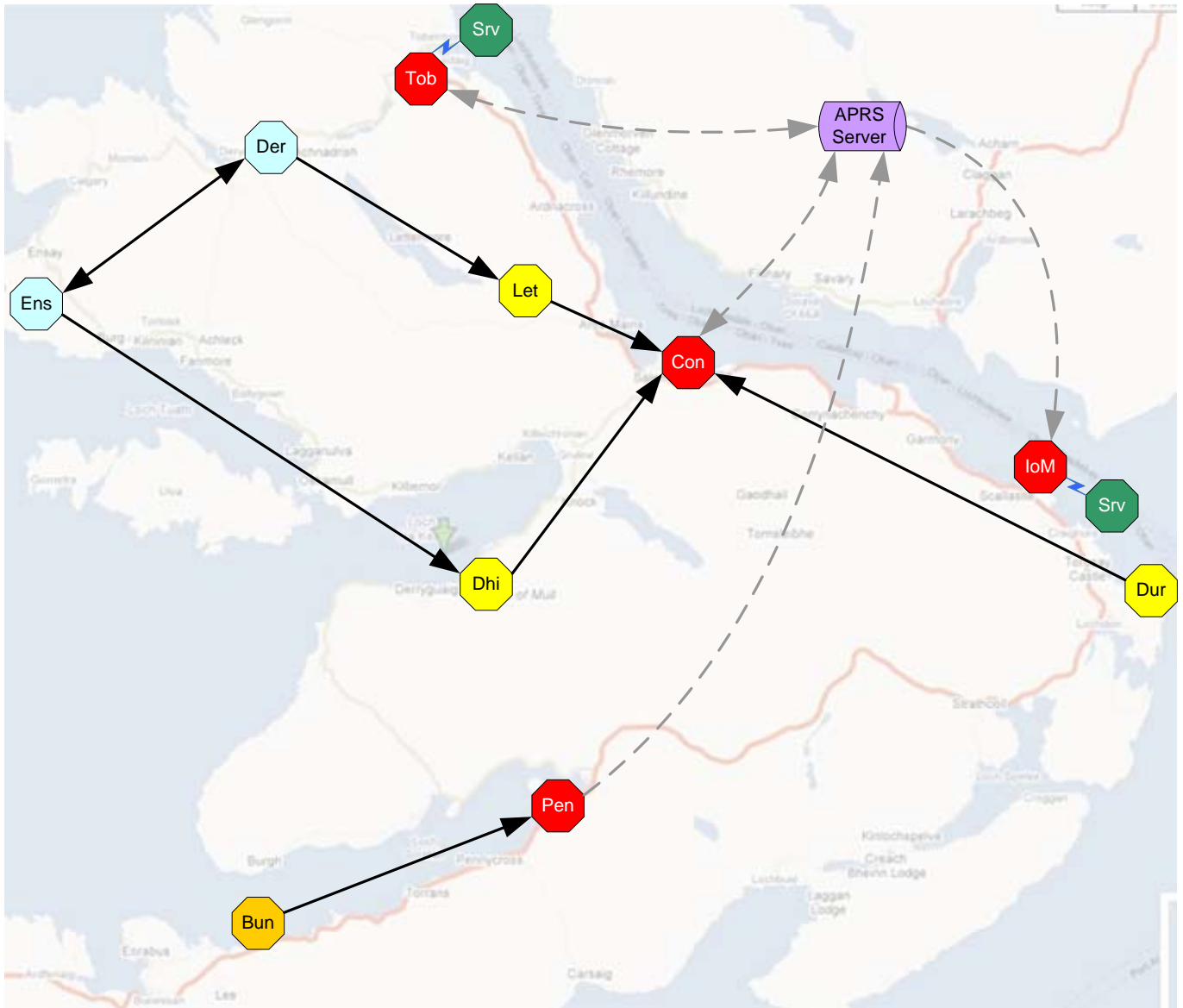









Tour of Mull 2007 – Network Plan

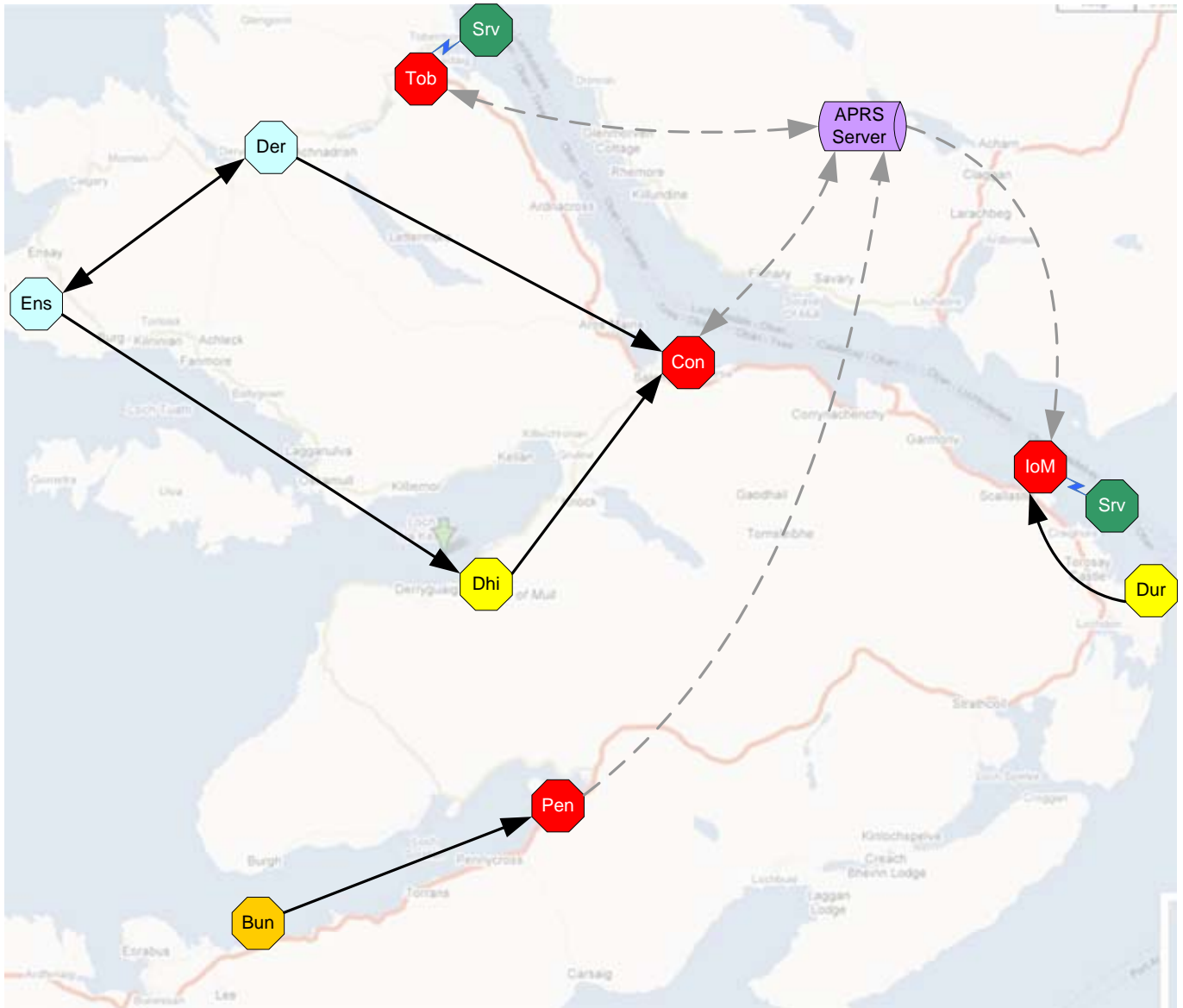


Key








 Monitoring point	 Digi with TRACE2-2 alias digipeating
 iGate	 Digi without TRACE2-2 alias digipeating
 D-Star Internet link	 Digi with <u>only</u> TRACE2-2 alias digipeating
 Internet link	

Tour of Mull 2007 – Network Plan

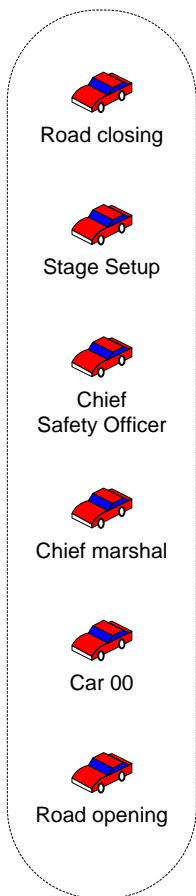
What actually happened!



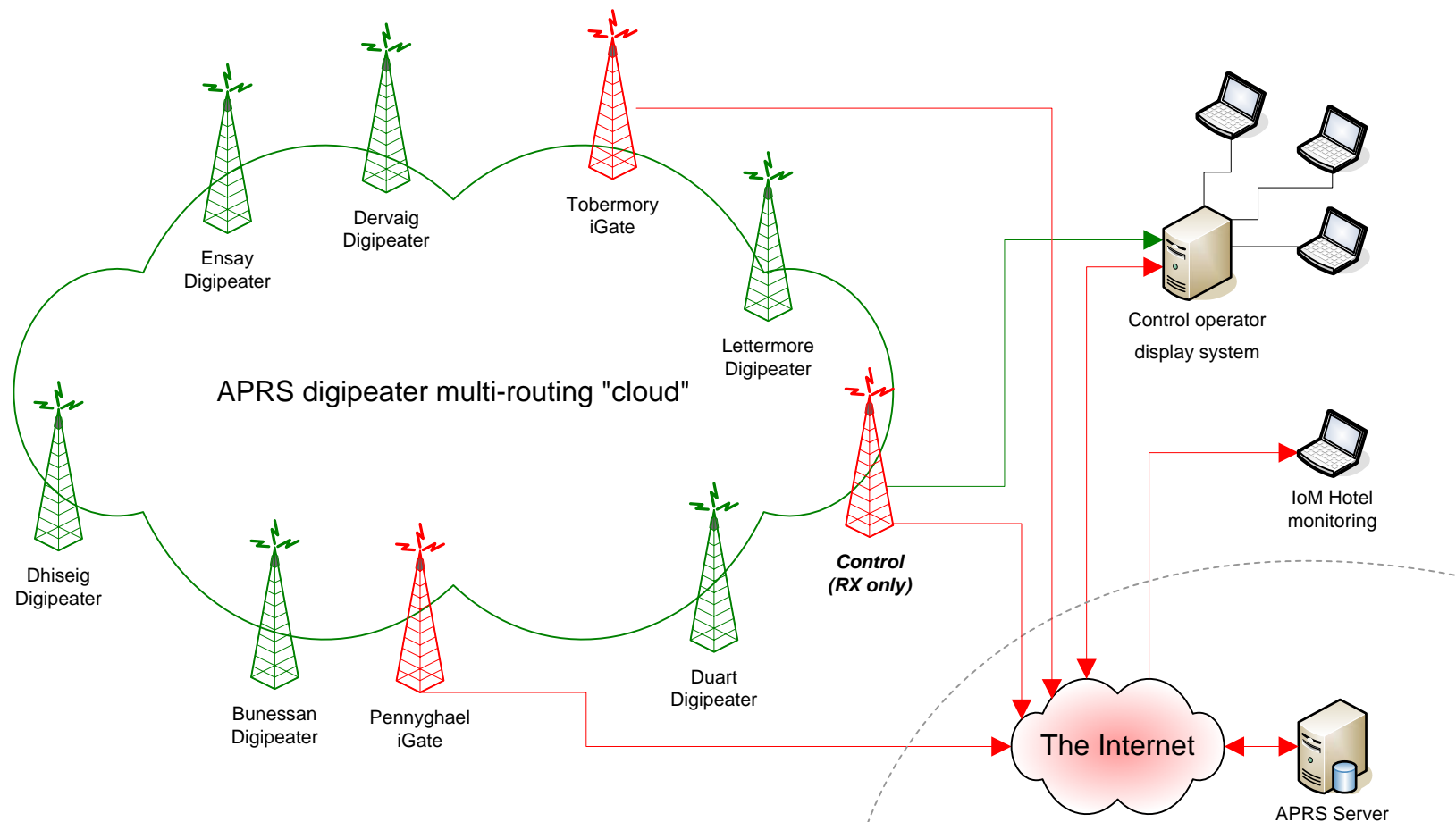
Key

 Monitoring point	 Digi with TRACE2-2 alias digipeating
 iGate	 Digi without TRACE2-2 alias digipeating
 D-Star Internet link	 Digi with <u>only</u> TRACE2-2 alias digipeating
 Internet link	

Tour of Mull 2007 – APRS network



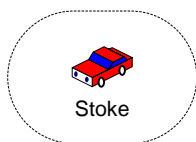
Rally vehicles



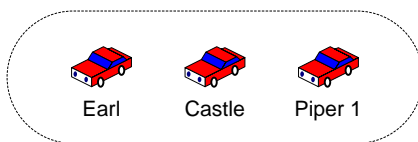
The Internet is used to transfer the location details to control. This enables us to reduce the radio traffic, and therefore the potential for packet collisions, making the system more reliable.



Doctors



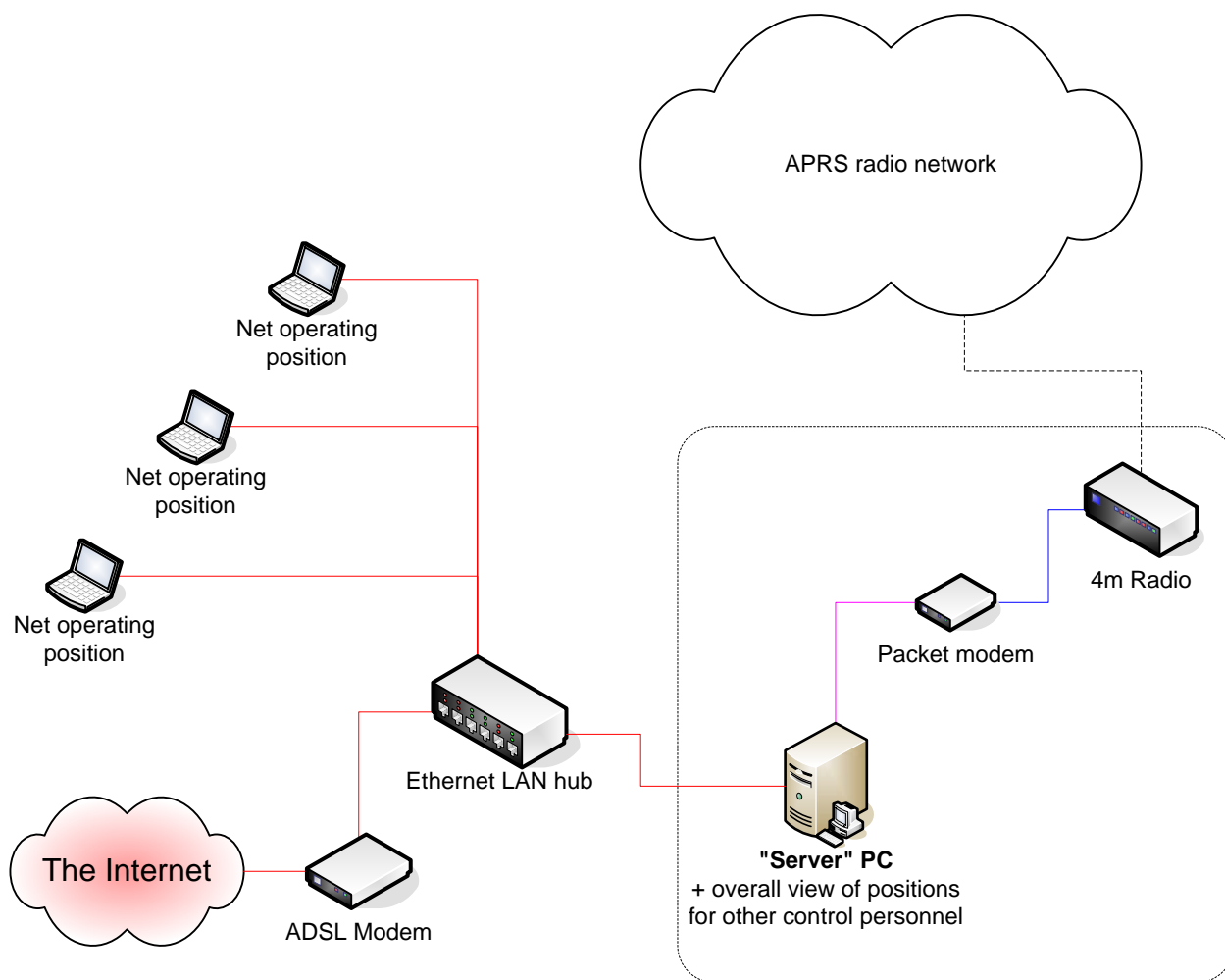
Rescue units



Recovery units

Tour of Mull 2007 – Control APRS setup

Physical layout



Notes

Audio links are kept to a minimum within the control environment, instead relying on a LAN to pass the information around.

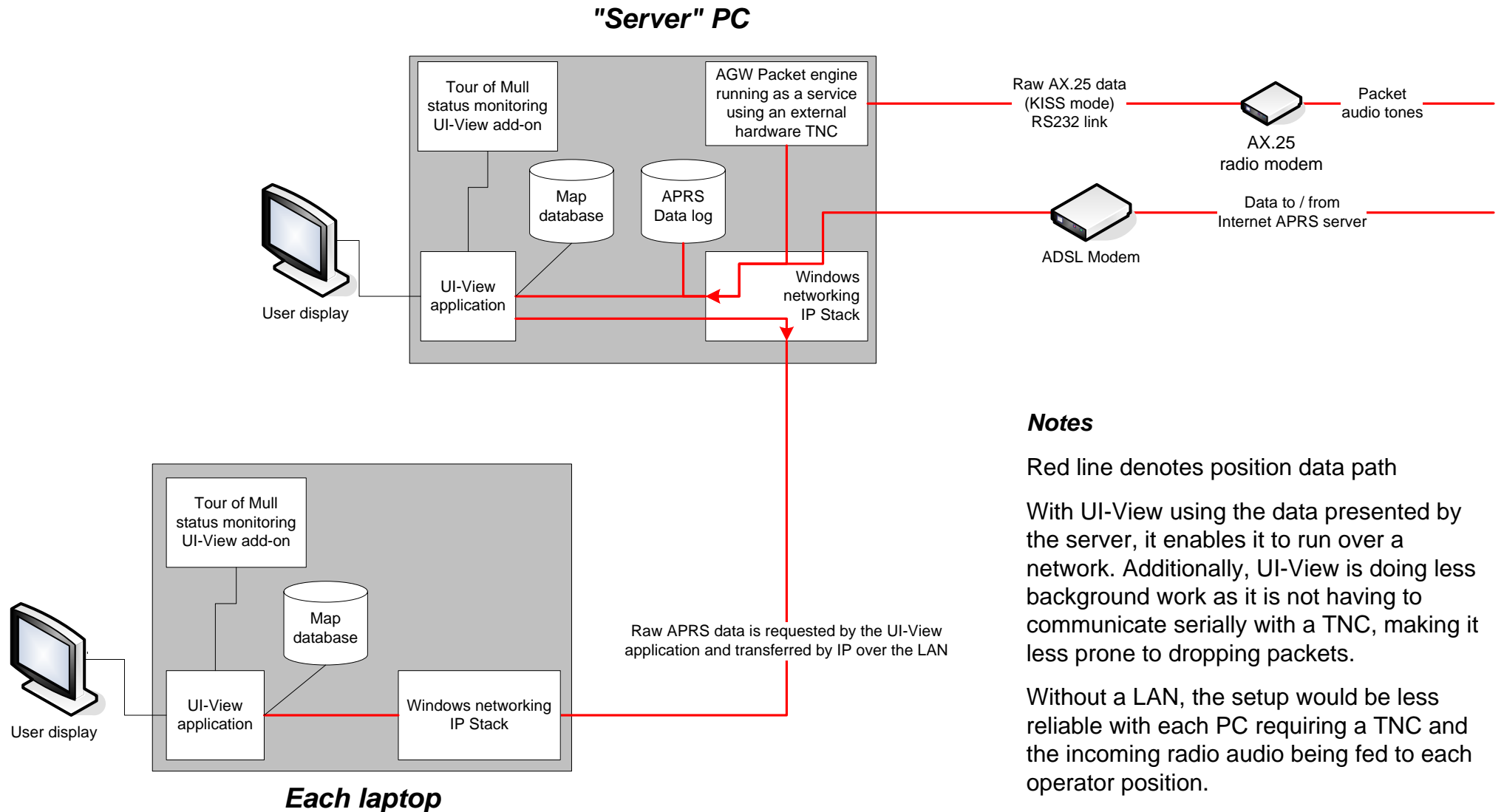
This eliminates problems associated with RF breakthrough on the incoming packet audio and provides an error-correcting network that is resilient to interference from the voice net radios.

The Server PC and packet equipment can be located away from the immediate control area, reducing the possibility of RF or PC interference with the voice nets.

The APRS station connected to the server is in receive only mode.

Tour of Mull 2007 – Control APRS setup

Logical configuration (the network tekky bit!)



Notes

Red line denotes position data path

With UI-View using the data presented by the server, it enables it to run over a network. Additionally, UI-View is doing less background work as it is not having to communicate serially with a TNC, making it less prone to dropping packets.

Without a LAN, the setup would be less reliable with each PC requiring a TNC and the incoming radio audio being fed to each operator position.