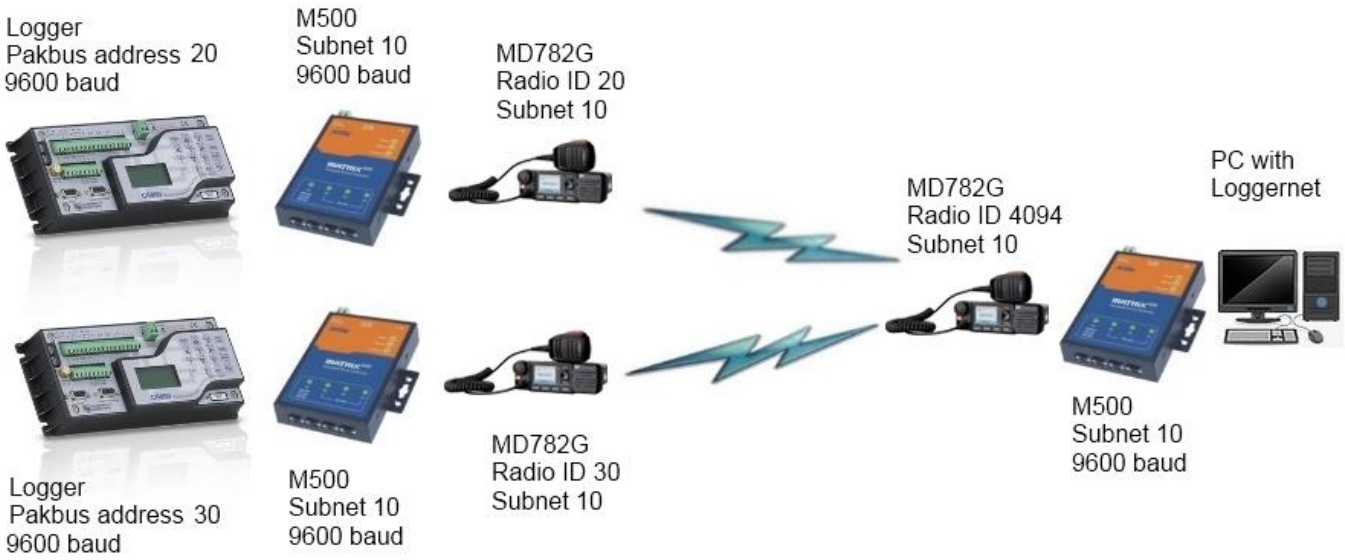
Hydrology Radio Office Setup

Overview:

This document outlines how to setup Loggernet, the base radio, and the M500 to operate from the office. This is the base radio setup that will talk to the field radios via its repeater.

The diagram below shows how the radio network is arranged. Each outstation/logger has a unique pakbus/radio ID; these numbers are the same. The base radio has the master radio/pakbus ID of #4094, this is because the M500 is talking to Loggernet, which default pakbus address is #4094.



1. Programme the base radio, just as you did for setting up as field radio (see cd_om_Radio Field Setup & Programming.pdf). However, for the base radio we make the radio ID #4094. All of the base radios have the same radio ID, Turoa, Ruahine, Te Paki etc.

2. The red RS232 cable now connects to the serial cable (via null modem adaptor) from the N Port serial server or the USB Anywhere device.

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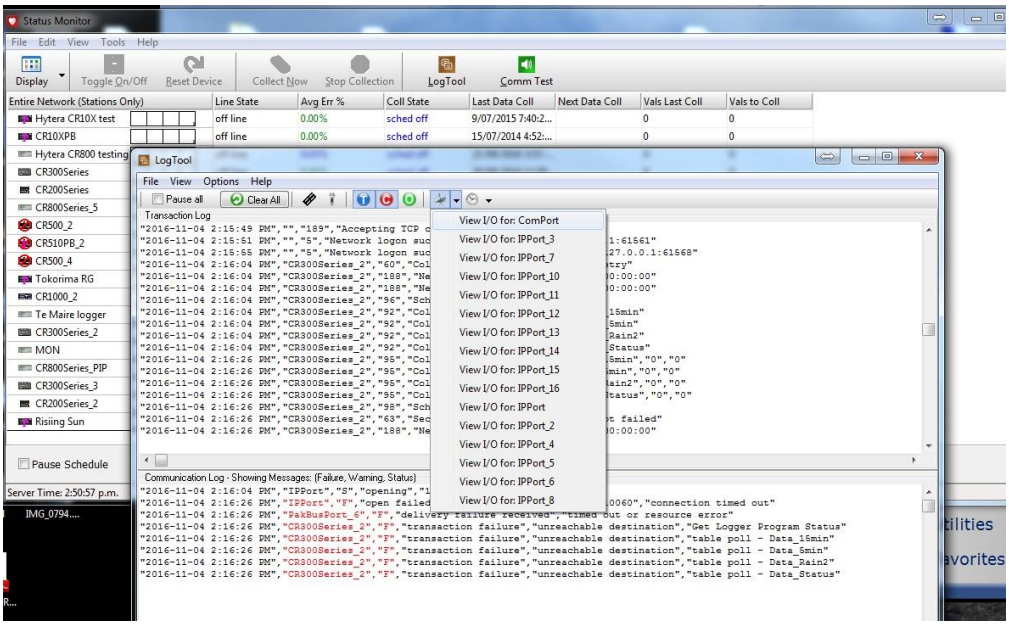
3. When the base radio is transmitting, a red circle light should appear around the volume/channel dial. When the base radio is receiving, the light is green. Messages should also appear on the screen.

4. If experiencing issues with the Loggernet server/com ports/USB anywhere, then to test the base radio/repeater etc use your laptop and plug into the red RS232 cable (with null modem). Run Loggernet on your machine and find the site you want to call.

   Open the LogTool from the Status Monitor and click 'View I/O for Comport'. This shows low level logic and provides more insight into transmit and receive from the site.



5. For more detailed information on setting up Loggernet and the sites please see:
   \\ares\Hydrology\Catchment Data ISO9001-2008 QMS\Operations Manual\cd_om_21.5_Appendix_2_LoggerNet basics.pdf
   \\ares\Hydrology\Catchment Data ISO9001-2008 QMS\Operations Manual\cd_om_21.5_Appendix_3_Site Setup guide.pdf
   \\ares\Hydrology\Catchment Data ISO9001-2008 QMS\Operations Manual\cd_om_21.5_Appendix1_Setting up a Comms Path.pdf
   \\ares\Hydrology\Catchment Data ISO9001-2008 QMS\Operations Manual\cd_om_21.5_LoggerNet Telemetry Basics.pdf

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