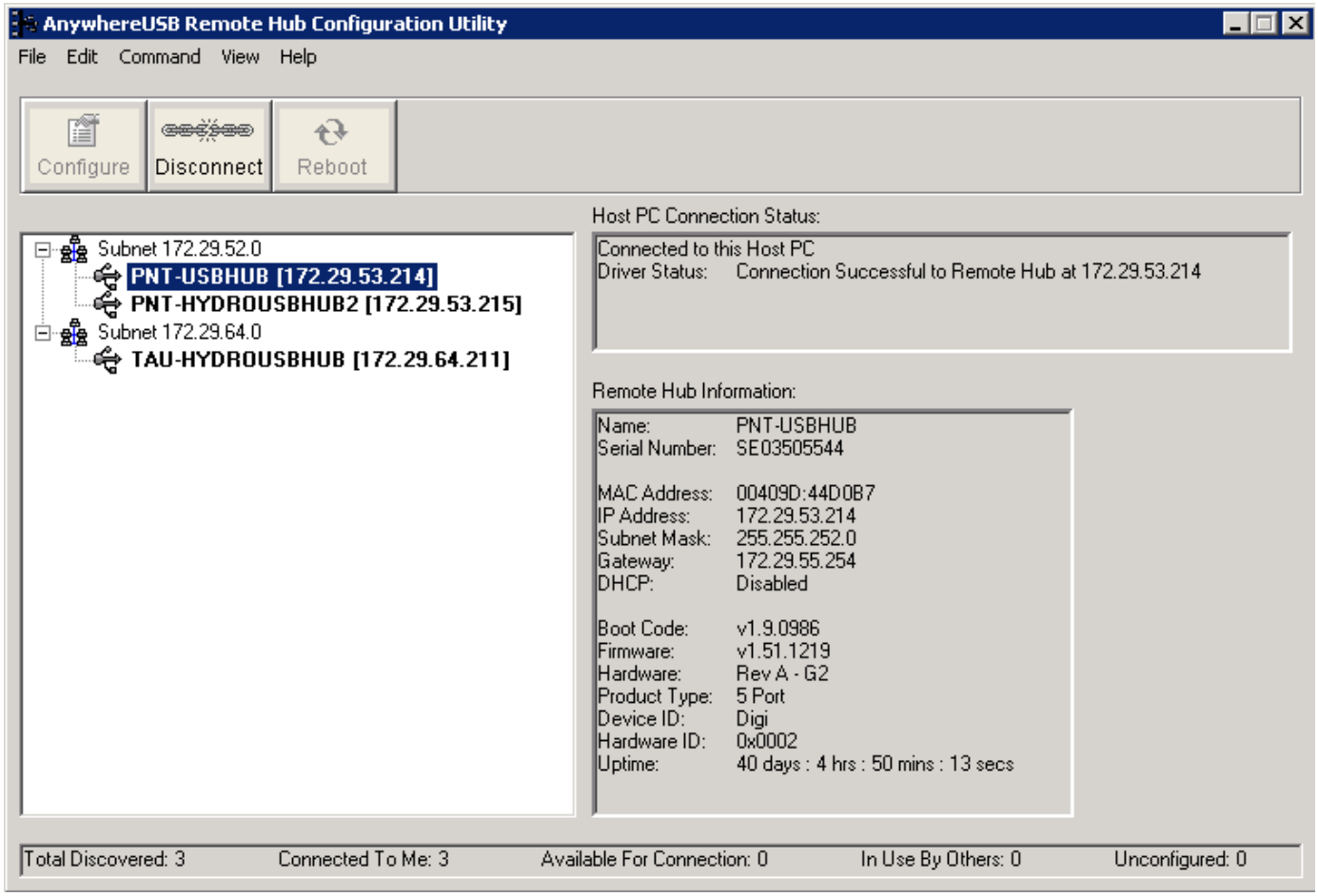
Setting up a Comms Path

Overview:
The comms paths available are managed in multiple applications and all need to be setup correctly to enable communications.

First the physical connection needs to be defined; this can either be a direct connection or a remote connection via the AnywhereUSB module. This gives flexibility in that the com ports are not physically connected to the server and can then be housed remotely.

AnyWhereUSB
Two AnywhereUSB Hubs are currently located in the telemetry room and are connected to the network under IP 172.29.53.214 and 172.29.53.215 respectively. A third Hub is setup in the Taumaranui office with IP 172.29.64.211
These hubs have 5 ports each available for USB devices such as RS232 serial.
Connect the serial device and load any device drivers as required



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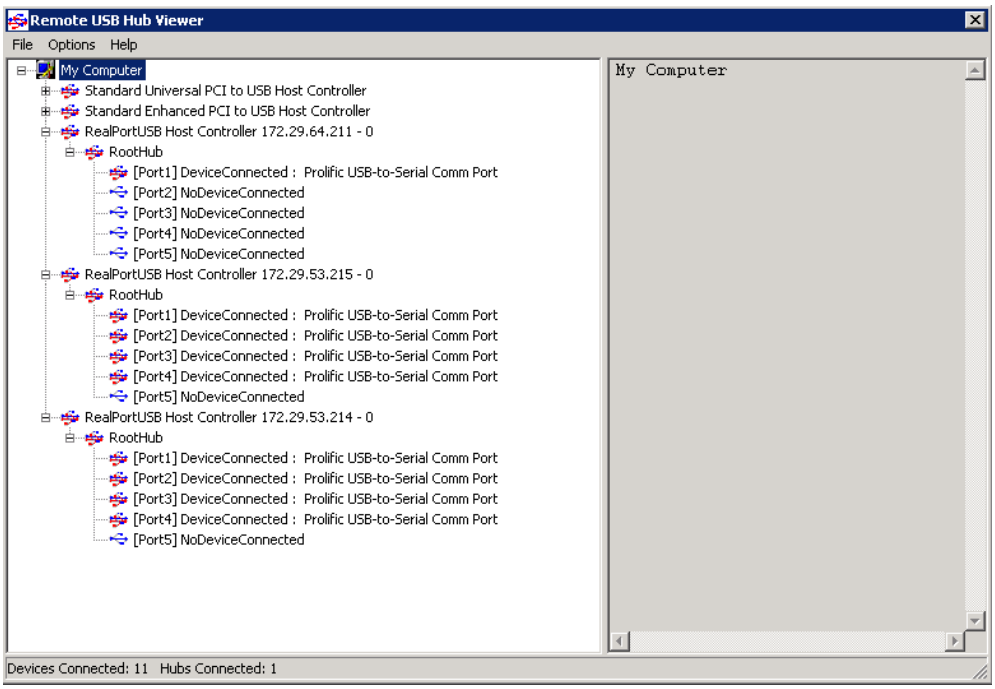
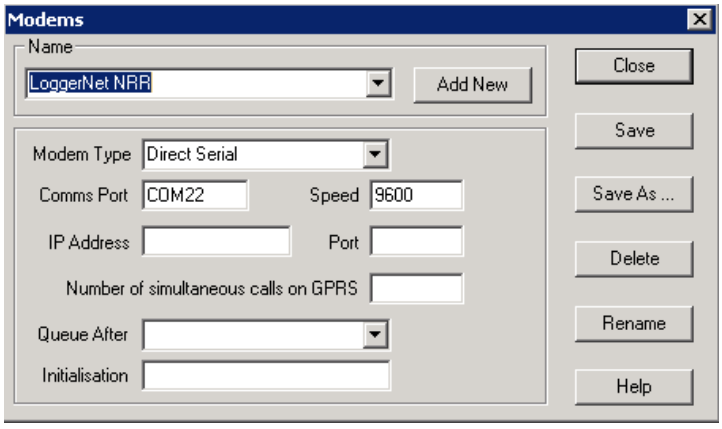
A viewer is also available to check the connected devices



The serial Port can now be defined as normal in control panel
Use numbers from 11-15, 21-25 and 41-45 in preference see below for a list of currently assigned ports

Once the Com Port has been defined it can now be mapped into the telemetry applications.
Use the TelemClient to setup the modem associated with the com Port



Add a modem to telemetry with the prefix LoggerNet
Select the type and actual comport. This can be physical or via the USB anywhere
Ensure the baud rate is correct

Now the linkage between LoggerNet and the dual comms application, LNcomms, needs to be mapped.
LNcomms uses the Advanced virtual COM Port service to link local ports

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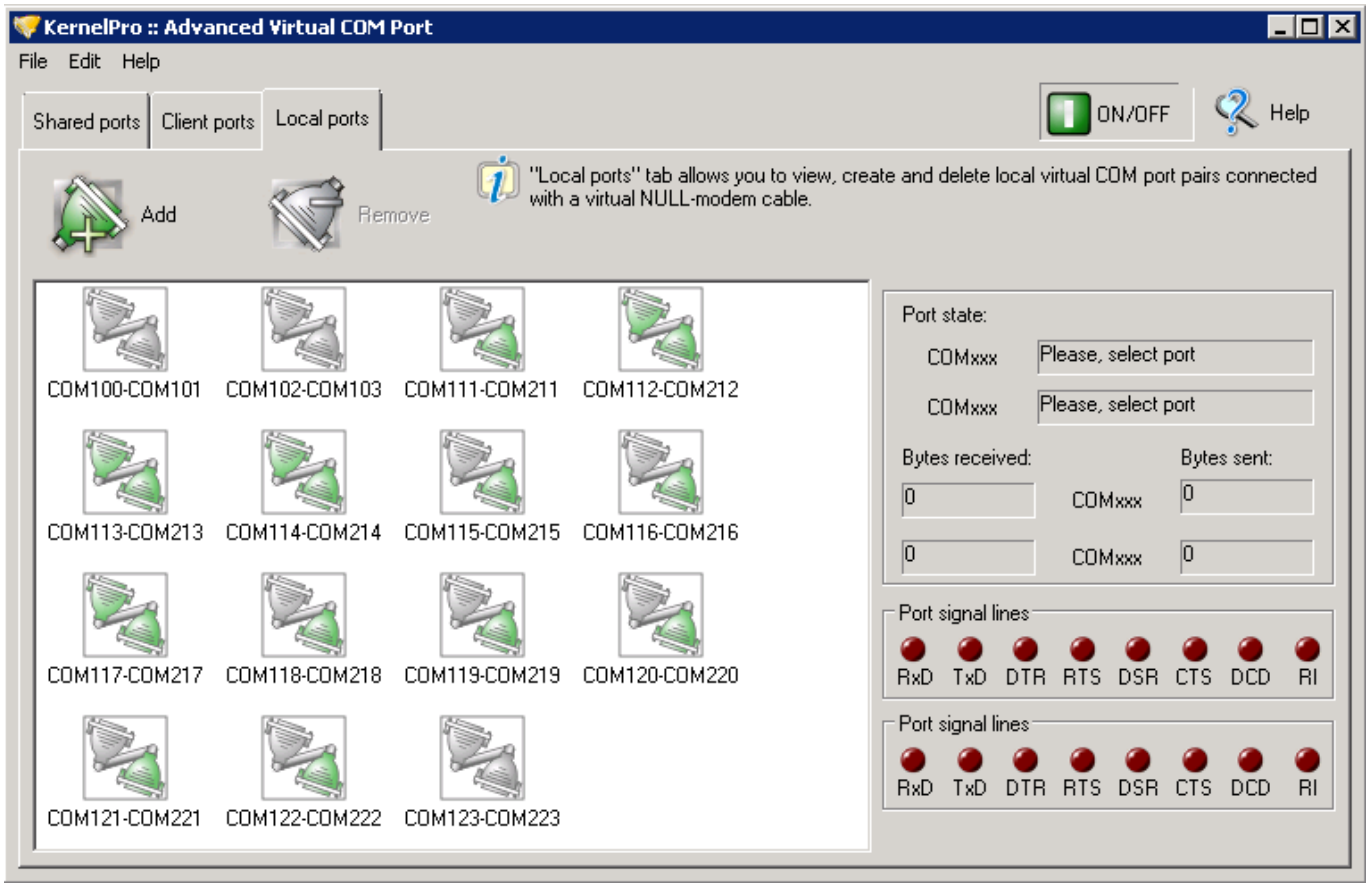
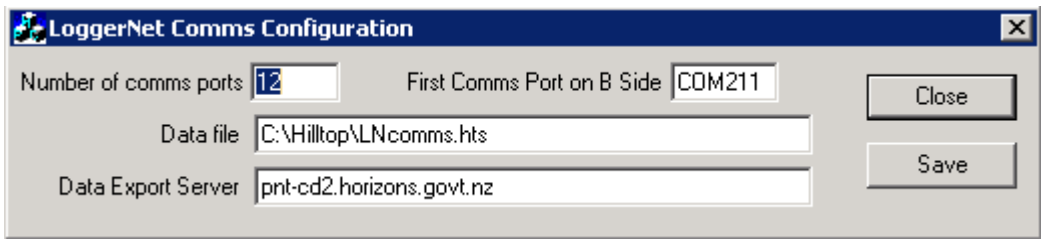
Set up Virtual Com Port for the number of links required, Format 1xx - 2xx with 1xx on the LoggerNet side.
Must be sequential for LNcomms



LNcomms is the dual comms and data serving service. It links to both the SQL table and data export whilst listening for data on the assigned virtual com ports.

The virtual comports start at the first allocation (COM211) and increase sequentially by the amount specified (12)
The data export server is not used



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Loggernet can now be set up with the com Port 1xx and this will then map though to LNComms which can then direct the site out the appropriate com port as defined in the telemetry sites table.

Current list of comm ports

	Physical port	Purpose	Virtual Com Port	LoggerNet
172.29.53.214	Com 11	Phone1 Modem	113 >> 213	113
	Com 12	Kauangaroa Repeater	115 >> 215	115
	Com 13	Tapuae Repeater	114 >> 214	114
	Com 14	Turoa Repeater	112 >> 212	112
	Com 15			
172.29.53.215	Com 21	Ruahine Repeater	118>> 218	118
	Com 22	NRR Repeater	117 >> 217	117
	Com 23	Te Paki Repeater	116 >> 216	116
	Com 24	Taukira Repeater	120 >> 220	120
	Com25			
172.29.64.211	Com41	Makahika Repeater	123>> 223	123
other		UDPTerm (testing)	100 >> 101	100
		LN UDP	111 >> 211	111
		LN UDP_2	119 >> 219	119
		LN_UDP_3	121>> 221	121
		LN_UDP_4	124>>224	124
		Takino repeater	125>>225	125
		Spare	126>>226	126