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Integrating a Network AIS in HYPACK

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I recently had a call in Tech Support to help a user configure their AIS in HYPACK®. I thought, “OK no problem” and the typical questions ran through my head: Is the serial cable connected? What COM port is it connected to? Can you see it in WCOM32? Well, to my surprise as I started asking about serial, I was informed it was an Ethernet connection only. Oh ok... well this is going to be a little more challenging to walk through over the phone. I started asking some more questions: 1. Is there an interface to configure it? Do you have the IP address for it? Do you know the Port number? Luckily, the user had Internet and I was able to log into their PC to help interface the AIS in HYPACK®.

First we needed to figure out the IP address and then the Port Number. We need to know the IP address to connect to the AIS. Connecting to the AIS does give us a NavNet Port Number (shown in [Figure 1](#)). However, that port number is not the port number HYPACK® needs to connect to the AIS.

To figure out the port number which is needed for HYPACK®, we opened Wireshark and monitored the traffic. I saw 2 Port numbers for 172.31.24.3. Port 10021 and 10033. I searched through to see what information was being sent on those two ports. I determined, at the time, that port 10033 was the port where I was seeing the !AIVDM message, which is the message HYPACK® needs (see [Figure 2](#)).

FIGURE 1. Connection to the Network Furnuo via Internet Explorer.

FURUNO FA-50 x

← → ↻ 172.31.24.3

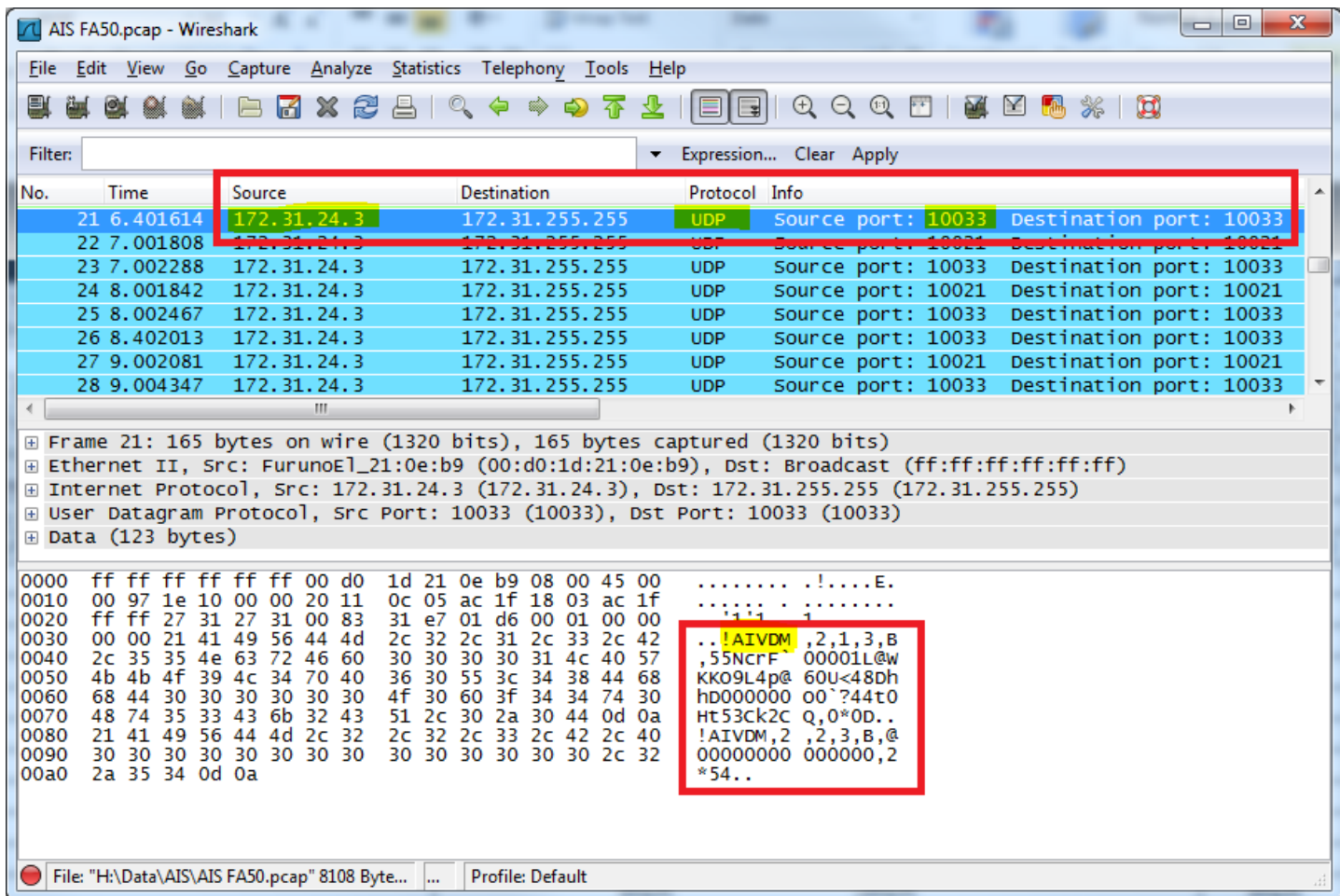
FA-50/Network Setup

MAC Address	00-D0-1D-21-0E-B9	
IP Address	172.031.024.003	(default=172.031.024.003)
Subnet Mask	255.255.000.000	(default=255.255.000.000)
Gateway Address	000.000.000.000	(default=000.000.000.000)
NavNet Port Number	10000	(default=10000)
Host Name	AIS0 ▾	(default=AIS0)
AIS Data Output	Continuous AIS ▾	(default=Continuous:AIS)

OK Cancel

<<Initial Setup

FIGURE 2. Wireshark Information: IP 172.31.24.3 Port 10033 Data Information !AIVDM



Now that we know which port number to use we can open HYPACK® HARDWARE, add the AIS driver, and enter the correct IP Address and Port number (see [Figure 3](#)).

Once configured, you will *not* be able to test the device in HARDWARE; you must go into SURVEY to see if the AIS is working (see [Figure 4](#)).

If you have any issues connecting your Network AIS in HYPACK®, please contact HYPACK® Technical Support at help@hypack.com or call 860.635.1500.

FIGURE 3. AIS Device Connections

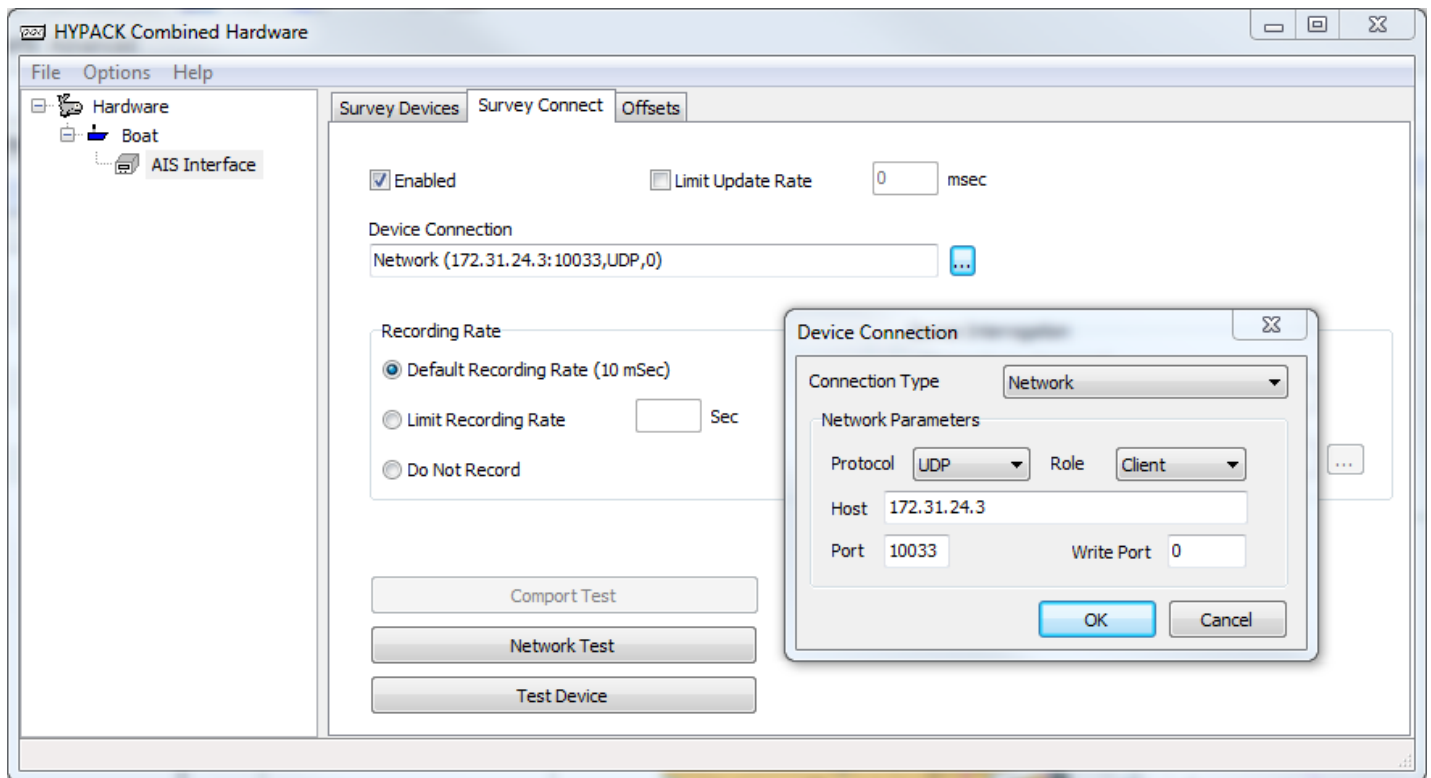


FIGURE 4. AIS Window in HYPACK® SURVEY

