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HYPACK® and POSView Ethernet Real-time Output Protocol

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It was brought to my attention this week that users can actually set the Applanix POSMV protocol to UDP or TCP. I have always known the POSMV to output UDP. It never dawned on me that it could be set differently.

While on a support call, the user was integrating a multibeam system with a POSMV. This is a very normal HARDWARE setup where an Applanix POSMV driver is added from the HYPACK® SURVEY drivers for navigation and another Applanix POSMV Driver is installed under the HYSWEEP® SURVEY drivers for motion. The user was seeing navigation information in HYPACK® SURVEY, but HYSWEEP® SURVEY was not getting any motion data.

After discussing the setup on the phone and running out of ideas, I logged into the user's computer. I checked their HARDWARE configuration and noticed under HYPACK® SURVEY, the POSMV Driver was using a TCP connection. Since the navigation data was streaming in fine, this is what gave me red flags; the HYSWEEP® SURVEY POSMV Driver only uses UDP. After figuring this out, we checked POSview. I am not sure which version of POSview added this; there is now an option under LOGGING – ETHERNET LOGGING to select the output protocol: UDP Broadcast or TCP. TCP protocol was selected; we changed this to UDP Broadcasting, made a quick change in the HYPACK® HARDWARE. HYPACK® and HYSWEEP® SURVEY are now working.

FIGURE 1. *POSView Logging – Ethernet Realtime…Protocol Setting*

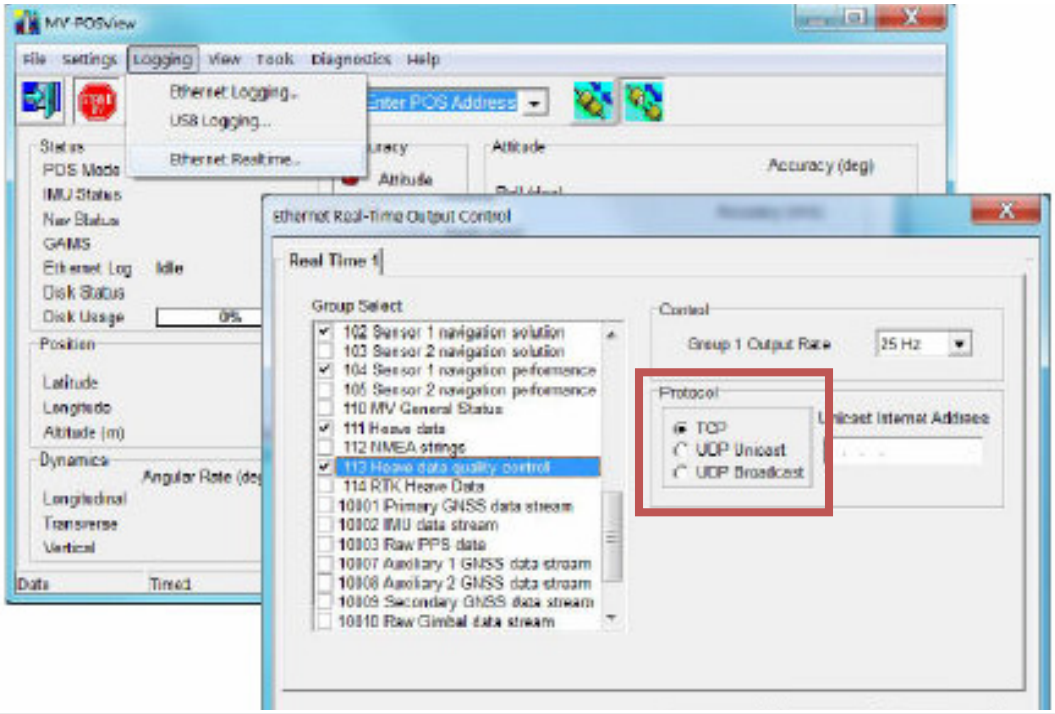
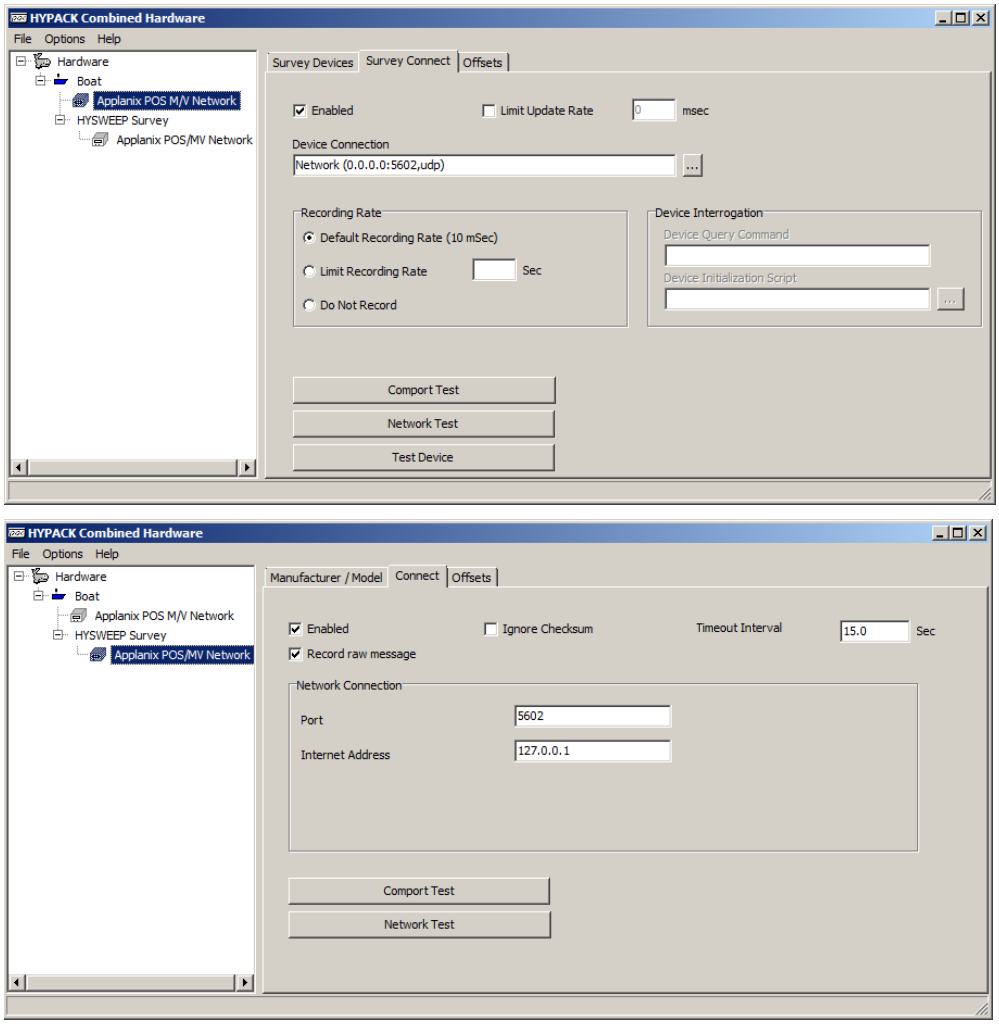


FIGURE 2. *Typical POSMV HARDWARE Connect Tabs (HYPACK Survey – top image, HYSWEEP Survey – bottom image):*



In conclusion: If your POSview version has the option to set the POSView Ethernet Real-time Output Protocol and you are using the POSMV in HYSWEEP® SURVEY, please make sure UDP Broadcast is selected.

If you have any other questions or concerns please do not hesitate to contact HYPACK Technical Support at help@hypack.com or 860-635-1500.