



## Capn Mosaic Operational Behavior

When Capn Mosaic is getting AIS data from the TCP connection, it will use the AIS own vessel position rather than the Raven Pilot System position. However, if Capn Mosaic is also getting Raven GPS data from SendClient, it will use the SendClient vessel static info and display the Raven GPS operational status in the Capn Mosaic title bar, even though it is using the AIS own vessel position. We would like Capn Mosaic to use the Raven GPS position whenever it is present, but we no longer have a development relationship with the Capn Mosaic since Dennis Mills sold out to MapTech. [See AisClient setting in next section that allows for the filtering out of AIS own vessel records when using Capn Mosaic.](#)

## Configuration of Capn Mosaic

For Capn Voyager you must select the settings as indicated below. Technically, the MMSI value should be your own vessel, but **must not be 999999999** (I use 123456789, see below). Also, **you must check 'AIS | Display AIS Targets'**.

Note: Capn Mosaic release notes indicate that putting in own vessel MMSI will cause the behavior below, but that does not occur when the AIS data source is via TCP. So using 123456789 and leaving it seems the best way to handle this.

From Capn Mosaic release notes:

\_\_\_\_ Version 8.2.0.5 - 25 August 2005

Added AIS MMSI number field to the AIS setup screen so that the ship's own AIS reports will not be processed by the Capn's AIS target display sub-system.

**AIS Preferences**

No CPA calculation if target range >= (n.m.)	20.00
Don't show CPA if CPA is >= (n.m.)	2.000
Warn when CPA is less than (n.m.)	0.100
Target Idle Time in Minutes	30
Remove targets that are idle	<input checked="" type="checkbox"/>
Display ship names if available	<input checked="" type="checkbox"/>
Display ship COG/SOG if available	<input checked="" type="checkbox"/>
If heading available, show Hdg arrows	<input checked="" type="checkbox"/>
Show COG arrows for AIS targets	<input checked="" type="checkbox"/>
Length of COG arrows based on speed & time	<input type="checkbox"/>
COG arrow predicts position .. ( minutes ahead )	6
Show tracks for AIS targets	<input checked="" type="checkbox"/>
Max. track updates for an AIS target	50
Show anchored targets	<input checked="" type="checkbox"/>
Show moored and docked targets	<input checked="" type="checkbox"/>
Max. speed for moored/anchored	0.2
Own Ship's MMSI Number	123456789

**AIS Communication**

Source for AIS Data Stream

Serial Port  Internet

Serial Port # 2 Baud Rate 38400

Internet IP Address 127 0 0 1

Internet IP Port 2510

Let the Capn find your AIS Serial Port

Chart scale at which the font is displayed in the selected point size when scaled text is checked.

1:40,000

**Target Labels**

Font Fore Color Back Color  Scaled Text Bottom

**CPA Labels**

Font Fore Color Back Color  Scaled Text Top

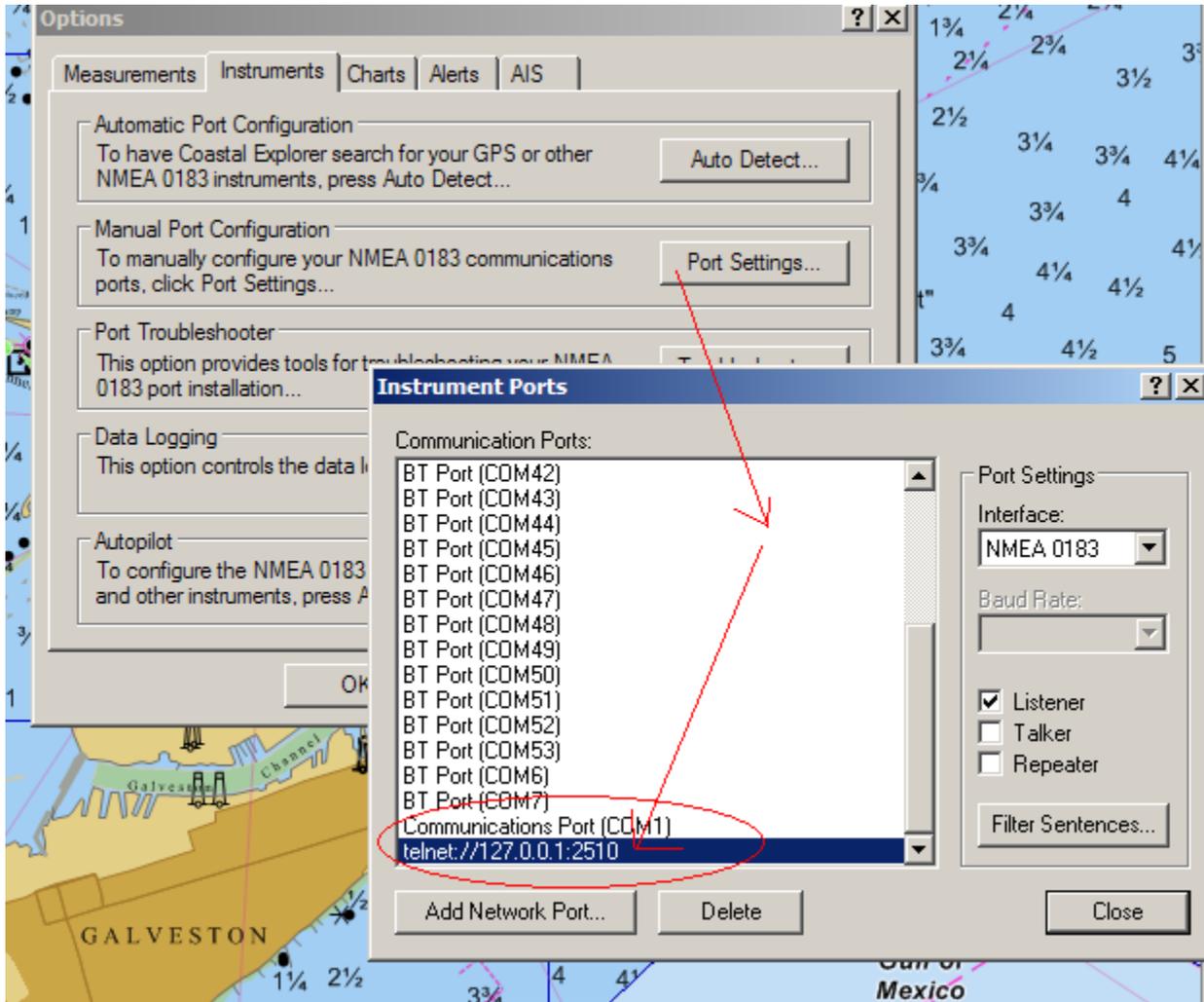
Save Changes Close

## Coastal Explorer Operational Behavior

Coastal Explorer only uses one vessel data source, either the TCP connection or a COM port. When Coastal Explorer is getting AIS data from the TCP connection, the own vessel position will be the AIS own vessel position.

## Configuration of Coastal Explorer

Select 'Tools | Options | Instruments | Port Settings | Add Network Port...' and **type in 127.0.0.1:2510**.



## Filter Out AIS Own Vessel Records if Using Capn Mosaic

There is a checkbox on AisClient 1.70b that, when checked, excludes AIS own vessel records from the AIS data stream being sent to Capn Mosaic. This causes Capn Mosaic to use the GPS position coming from the Raven GPS receiver. If you change this setting in AisClient, you should restart Capn Mosaic to get Capn Mosaic to properly adapt to the presence or absence of AIS own vessel records. So if you are using your Raven DGPS system, check the box. If not, uncheck the box. AisClient will remember the state of the checkbox the next time it starts.

The screenshot shows the AisClient 1.70b interface with several panels:

- Decode Log File Records One at a Time (Diagnostic Only):** AIS Log File Name: sh.log, Count: 0. Buttons: Open, Get Next, Get Prev, Decode Again.
- Raw AIS Messages:** Message: IAIVDO,1,1...19NS45P01`q=k`H@o31e.bP`0000,0\*6FII. Msg Name: IAIVDO. VDM or VDO Msg ID: 1. AIS PPI Baud Rate: 38400.  Process AIS Class B Messages.  Pause.
- Raven Equipment Test:** Go To button.
- COM Port Select:** 52.  Use BPI or Serial Port.  Use WPI or UDP Port.  Using Capn Mosaic.  Use Raven Position.
- Seconds since last message from transponder:** 0. The AIS transponder provides own vessel position info from it's internal GPS receiver.
- Own Vessel using RAIM:** NO.
- Data:** Two columns of VDO and VDM message details (Position Report, Own Vessel, etc.).
- Log Received AIS Data:** File Name: None. Start Log button.
- Replay Log File:** Log File: None. Start Replay button.  Fast.
- AIS Event Log:**  Enable Event Logging. View Event Log button.
- BPI (Bluetooth Pilot Interface):** Battery Parameters: Time to Empty: N/A - charging, Time to Full: 1092 Hr 15 Min, % Charged: 98, Volts (3.2-4.2): 4.1v. Other Parameters: Wiring State: Data Found - Wiring Ok, Address: 008098E97925, Firmware: v0.35, Hardware: v9.00, Checksum: 0x9780.  Dim the LEDs on the BPI.
- Comm Link (UDP Socket or Com Port):** Open Socket on this IP Address: 192.168.10.100. Remote IP: 192.168.10.216.  Use Alternate Remote IP.  Use Alternate Local IP.  Enable Auto-Baud. Status: Opened COM52.