Went through the system trying several things.

Opencpn after it starts.

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Went in and removed the ntg-1 connection from the Pi. Removed signalk connection from Opencpn and rebooted. Did a system check. Below. Note the highlighted errors we got before.

Checking touchscreen optimization... | disabled

Checking backlight... | disabled

Checking Power off management... | disabled

Checking Shutdown management... | disabled

Checking OpenPlotter autostart... | enabled

Checking rescue mode... | disabled

Checking debugging mode... | disabled

Checking system log file size... | System log file size: 4.81 MB

Checking OpenPlotter packages source... | added

Checking SDR processes... | SDR AIS is not running

Checking Notifications... | running

↳Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7fa20aa160>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking GPIO... | pigpiod running | Seatalk1 disabled | 1W enabled | pulses disabled | digital disabled | openplotter-gpio-read not running

↳Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f96b7f640>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking I2C sensors... | I2C enabled

↳openplotter-i2c-read not running

Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f96b7f370>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking Network... | NTP server running | correct access point password

Checking serial connections alias... | All your serial connections have an assigned alias

Checking Dashboards... | Grafana running | Influxdb running | Telegraf running

Checking OpenCPN... | not running | autostart disabled | FP fullscreen autostart enabled

↳OpenCPN shortcut is broken, click "Install" in OpenCPN Installer app to rebuild it.

The default OpenCPN connection is missing and is not getting data from Signal K. Please create this connection in OpenCPN:

Network

Protocol: Signal K

Address: localhost

DataPort: 3000

Automatic server discovery: not

Checking Signal K server...

↳Signal K server is not running

Checking serial connections conflicts... | no conflicts

Checking network connections conflicts... | no conflicts

Checking GPIO conflicts... | no conflicts

CHECK SYSTEM FINISHED

I then put the signalk connection back into OPENCPN and plugged in the Actisence NTG-1.

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Checked every routine

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A screenshot of a computer

Description automatically generated

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Description automatically generated

Clicked the connection

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Description automatically generated

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Description automatically generated

**Actisense ntg-1 connection details**.

CURRENT\_TAGS: :systemd:

DEVLINKS: /dev/ttyOP\_acti /dev/serial/by-path/platform-fd500000.pcie-pci-0000:01:00.0-usb-0:1.1:1.0-port0

DEVNAME: /dev/ttyUSB0

DEVPATH: /devices/platform/scb/fd500000.pcie/pci0000:00/0000:00:00.0/0000:01:00.0/usb1/1-1/1-1.1/1-1.1:1.0/ttyUSB0/tty/ttyUSB0

ID\_BUS: pci

ID\_MM\_CANDIDATE: 1

ID\_MODEL\_FROM\_DATABASE: VL805 USB 3.0 Host Controller

ID\_MODEL\_ID: 0x3483

ID\_PATH: platform-fd500000.pcie-pci-0000:01:00.0-usb-0:1.1:1.0

ID\_PATH\_TAG: platform-fd500000\_pcie-pci-0000\_01\_00\_0-usb-0\_1\_1\_1\_0

ID\_PCI\_CLASS\_FROM\_DATABASE: Serial bus controller

ID\_PCI\_INTERFACE\_FROM\_DATABASE: XHCI

ID\_PCI\_SUBCLASS\_FROM\_DATABASE: USB controller

ID\_USB\_DRIVER: ftdi\_sio

ID\_USB\_INTERFACES: :ffffff:

ID\_USB\_INTERFACE\_NUM: 00

ID\_USB\_MODEL: NGT-1-A

ID\_USB\_MODEL\_ENC: NGT-1-A

ID\_USB\_MODEL\_ID: d9aa

ID\_USB\_REVISION: 0600

ID\_USB\_SERIAL: Actisense\_NGT-1-A\_1B0C7

ID\_USB\_SERIAL\_SHORT: 1B0C7

ID\_USB\_TYPE: generic

ID\_USB\_VENDOR: Actisense

ID\_USB\_VENDOR\_ENC: Actisense

ID\_USB\_VENDOR\_ID: 0403

ID\_VENDOR\_FROM\_DATABASE: VIA Technologies, Inc.

ID\_VENDOR\_ID: 0x1106

MAJOR: 188

MINOR: 0

SUBSYSTEM: tty

TAGS: :systemd:

USEC\_INITIALIZED: 11064900

I then rebooted it. No connection to the ntg-1, hence network.

System check

Checking touchscreen optimization... | disabled

Checking backlight... | disabled

Checking Power off management... | disabled

Checking Shutdown management... | disabled

Checking OpenPlotter autostart... | enabled

Checking rescue mode... | disabled

Checking debugging mode... | disabled

Checking system log file size... | System log file size: 5.0 MB

Checking OpenPlotter packages source... | added

Checking SDR processes... | SDR AIS is not running

Checking Notifications... | running

↳Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f95bf8160>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking GPIO... | pigpiod running | Seatalk1 disabled | 1W enabled | pulses disabled | digital disabled | openplotter-gpio-read not running

↳Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f8a6d4640>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking I2C sensors... | I2C enabled

↳openplotter-i2c-read not running

Error requesting access to Signal K server: HTTPConnectionPool(host='localhost', port=3000): Max retries exceeded with url: /signalk/v1/access/requests (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f8a6d4370>: Failed to establish a new connection: [Errno 111] Connection refused')).

Checking Network... | NTP server running | correct access point password

Checking serial connections alias... | All your serial connections have an assigned alias

Checking Dashboards... | Grafana running | Influxdb running | Telegraf running

Checking OpenCPN... | running | | autostart disabled | FP fullscreen autostart enabled

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Address: localhost

DataPort: 3000

Automatic server discovery: not

The default OpenCPN connection is missing and is not getting data from Signal K. Please create this connection in OpenCPN:

Network

Protocol: Signal K

Address: localhost

DataPort: 3000

Automatic server discovery: not

Checking Signal K server...

↳Signal K server is not running

Checking serial connections conflicts... | no conflicts

Checking network connections conflicts... | no conflicts

Checking GPIO conflicts... | no conflicts

CHECK SYSTEM FINISHED

No difference. So I hooked up the phone and reinstalled signalk. Took quite a while. No change.

Shut down the Pi and removed the micro sdhc chip. Replaced with another version. Turned on the Pi.

No data connection to the actisence ntg-1 and network. Did not get the errors as the previous chip. Getting data from the I2c port. Deleted and redid the devices and connections.

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Description automatically generated

Clicked the connections tab and got this.

A screenshot of a computer

Description automatically generated