NavDoctor Product Information

Technical information on Digital Yacht's brand new NavDoctor product

"For a Healthy marine network"

October 2020
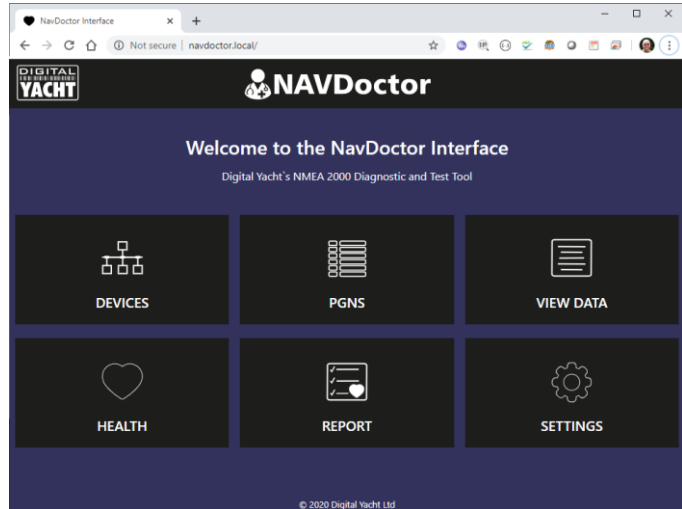
What is NavDoctor ?

- World's first wireless NMEA 2000 Diagnostics Tool

- Easy "plug 'n' play" connection to NMEA 2000 network

- No special software required, uses the browser of any mobile device

- Shows devices and data on the NMEA 2000 network

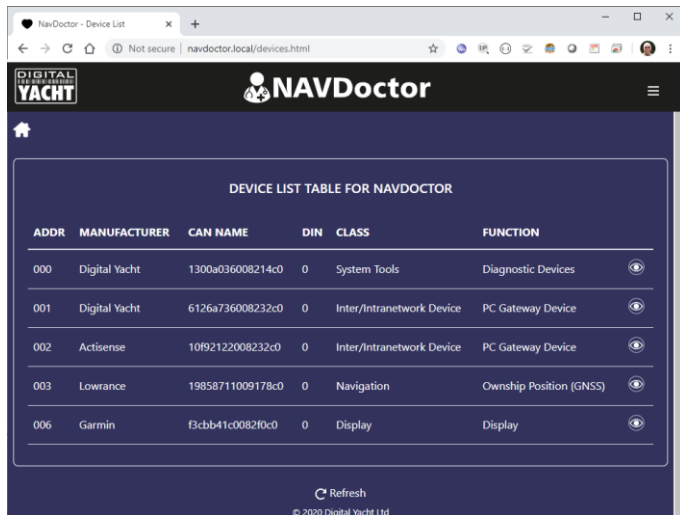- Health checks the NMEA 2000 network

Features

What can NavDoctor do?

1. Display a network Device List
2. Query a Device's Product Info
3. Shows all PGNs being displayed
4. Decodes individual PGNs
5. View and log "RAW" data
6. Conduct a network Health Check
7. Display and print test report

Pages
Devices

- Shows the following data:
  - CAN Address
  - Manufacturer (if known)
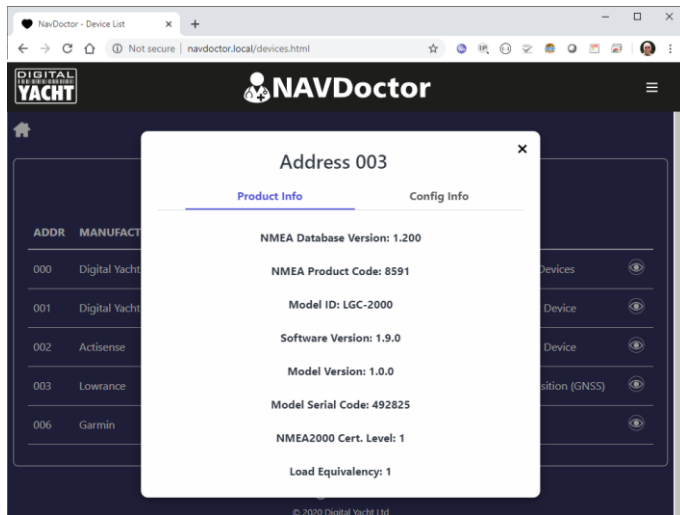 - 64 bit NMEA NAME
  - Device Instance
  - Class and Function

Pages
Device Info

- Click on the "Eye" icon to display the following data:
  - NMEA database version
  - NMEA Product Code
  - Manufacturer model, version and serial number
  - Certification Level
  - LEN number

Pages
PGNs

- All of the received PGNs are displayed with the following data :
  - PGN number
  - Source Address
  - Destination Address
  - Description
  - Time Received in seconds
- Click a column heading to sort
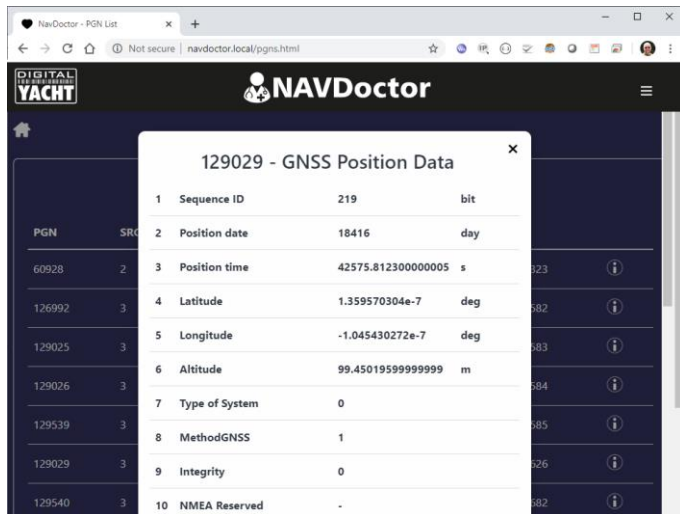- Click "Info" icon to decode PGN in pop-up window (see next slide)

Pages
PGN Decoding

- When the "Info" icon next to the PGN is clicked, a pop-up window appears

- Each of the PGN's data fields is displayed with the field name, value and units (SI)

- Currently the values are static, but in the final release these will be updated every second
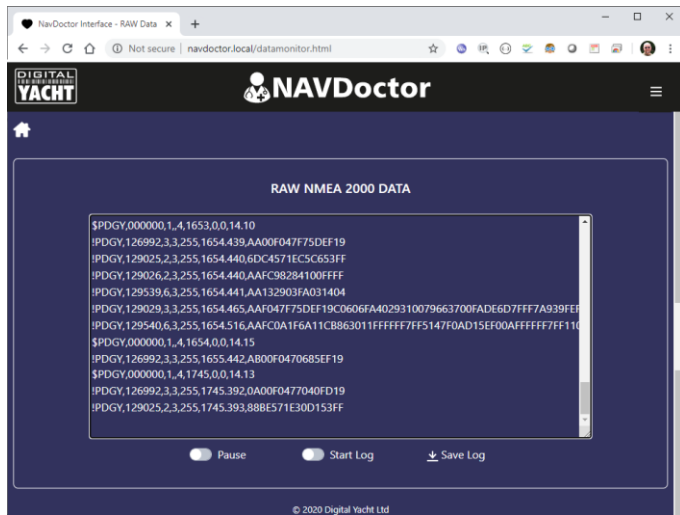
View Data

- All of the received "RAW" N2Net data is displayed in real time
- Pause button to stop scrolling
- Start Log button stores all "RAW" data in a text file
- Stop Log button closes the log file
- Save Log button downloads the Log file to your mobile device

Pages
Health

- NavDoctor carries out a series of health checks on the network:
  - NMEA 2000 Supply Voltage
  - Network Load
  - Dominant Differential Voltage
  - Recessive Differential Voltage
  - Number of devices on network
  - Number, type and rate of Error Frames
  - Bus State
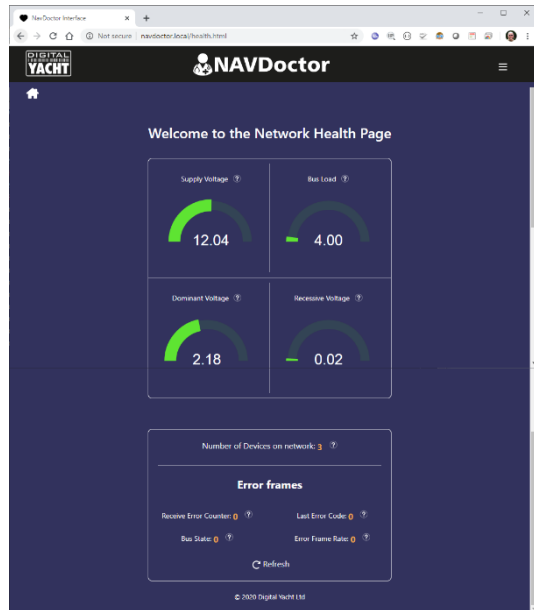
Pages
Report

- All key network properties and health checks are displayed in a report

- Installer can enter boat name and who carried out the test

- Installer can print/save/email the report for the customer job record

Pages
Settings

- In this page the NavDoctor's access point details can be changed

- Alternatively, NavDoctor can be configured to join another network

- The NavDoctor's serial number, FW versions and free memory are displayed

- A firmware update can be performed