WorldWind Network Diagram

April 12, 2023

Router
192.168.1.1

Static IP	DHCP
	192.168.1.100
	192.168.1.200

Yacht Devices	CruiseController	Cruise controller	HP Printer
192.168.1.2	192.168.1.3		
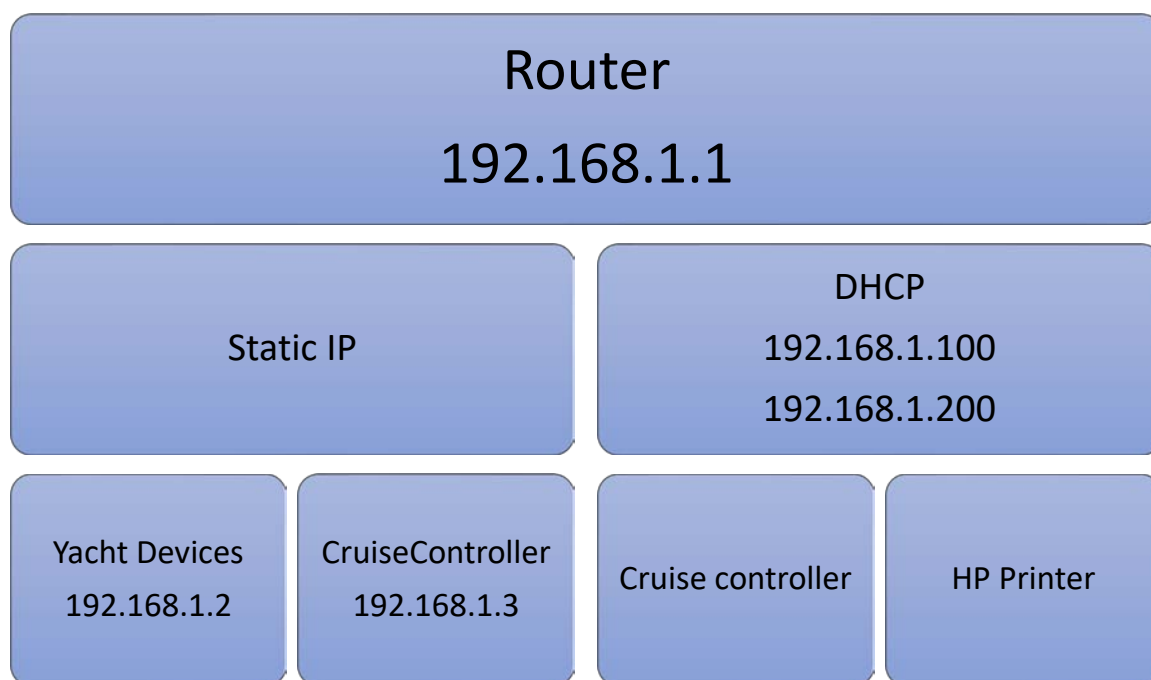
Router

Linksys AX1800 Router.

Login username: admin

Login password: admin

The wifi hotspot is 'WorldWind' (2.4GHZ only) password: lou roberts

Router is capable of supporting external hard drive and acting as a media server
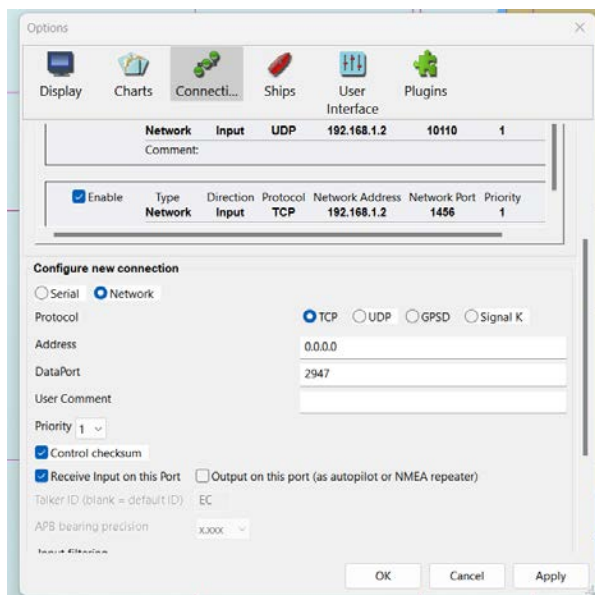
Yacht Devices

YDG02 connects to the NMEA2000/SeatalkNG and re-broadcast all the data over wifi.

Configuration is at http://192.168.1.2

Instrument gauges at YDGauges

RAW NMEA output on UDP port 11110

OpenCPN configuration

SETTINGS -> Connections -> Add Connection

Select NETWORK

Address: 192.168.1.2

TCP port 1456

-OR-

UDP Port 10110

CruiseController

CruiseController is a standard Raspberry Pie 3+ connected both via ethernet at 192.168.1.3 and via wifi with a DHCP address. The router should provide direct access at http://cruisecontroller.local

The controller can be accessed via SSH user name: 'fady' password: 'worldwind'

A server that provides REST API on port 3001 is stored at **~/cruise-control/** and is connected to the a GitHub repository. Configuration and other data files at **~/cruise-control/dist/.node-persists/** and are backed-up nightly to external media at **/media/usb0.** Frequency of backup can be changed in the app configuration page

The visible app is delivered by a standard Webserver serving content from **/var/www/html**