



## YACHT ROUTER *Standard*<sub>4G</sub>

### User Manual

*Read carefully and DO NOT PANIC.  
For better understanding check video tutorials on our website.  
Register your product for software update notifications.*

version 1.2

<b>1.</b>	<b>CONTENTS</b>	
<b>1.</b>	<b>COPYRIGHT NOTICE</b>	3
<b>2.</b>	<b>RoHS COMPLIANT</b>	3
<b>3.</b>	<b>INTRODUCING YACHT ROUTER SOLUTION</b>	3
<b>4.</b>	<b>DISCLAIMER AND WARNING</b>	3
<b>5.</b>	<b>DECLARATION OF CONFORMITY</b>	3
<b>6.</b>	<b>SAFETY AND HAZARD</b>	4
<b>7.</b>	<b>SAFETY INSTRUCTION</b>	4
<b>8.</b>	<b>ABOUT YACHT ROUTER STANDARD 4G</b>	5
<b>9.</b>	<b>FEATURES</b>	6
<b>10.</b>	<b>SPECIFICATIONS</b>	6
<b>10.1.</b>	<b>WAN, LAN, Backbone networks</b>	6
<b>10.2.</b>	<b>Expanders and Extenders support</b>	6
<b>10.3.</b>	<b>Vessel-to-Shore WIFI</b>	6
<b>10.4.</b>	<b>Client-to-Vessel WIFI</b>	6
<b>10.5.</b>	<b>Mobile network</b>	7
<b>10.6.</b>	<b>Power, environment and dimensions</b>	7
<b>10.7.</b>	<b>Software features</b>	7
<b>11.</b>	<b>PACKAGING</b>	7
<b>12.</b>	<b>INSTALLATION INSTRUCTIONS</b>	8
<b>12.1.</b>	<b>Connecting WIFI and mobile network antennas</b>	8
<b>12.2.</b>	<b>Connecting computer or other LAN equipment</b>	10
<b>12.3.</b>	<b>Connecting power supply</b>	11
<b>12.4.</b>	<b>Inserting SIM card</b>	11
<b>12.5.</b>	<b>LED indicator and Ports</b>	12
<b>13.</b>	<b>SETUP PROCEDURE</b>	13
<b>13.1.</b>	<b>Installing Yacht Router 4G Control Software on computer with Windows operating system</b>	13
<b>13.2.</b>	<b>Installing Yacht Router 4G Control Software on your iPhone or iPad</b>	13
<b>13.3.</b>	<b>Installing Yacht Router 4G Control Software on your Android smart phone or tablet</b>	13
<b>13.4.</b>	<b>Connecting Touch Screen Controller 4G</b>	13
<b>13.5.</b>	<b>Power on Yacht Router</b>	14
<b>14.</b>	<b>Yacht Router 4G Control Software</b>	15
<b>14.1.</b>	<b>Initial screen</b>	15
<b>14.2.</b>	<b>Main screen</b>	15
<b>14.3.</b>	<b>SETUP screen</b>	17
<b>14.4.</b>	<b>Configuration screen</b>	19
<b>14.5.</b>	<b>Satellite WAN Network setup</b>	20
<b>14.6.</b>	<b>Mobile WAN Networks setup</b>	22
<b>14.7.</b>	<b>Shore WIFI WAN Networks setup</b>	25
<b>14.8.</b>	<b>Vessel Network setup</b>	28
<b>14.9.</b>	<b>Hotspot</b>	29
<b>15.</b>	<b>ONLINE REMOTE SUPPORT</b>	30
<b>16.</b>	<b>YACHT ROUTER NETWORK DETAILS</b>	31
<b>17.</b>	<b>YACHT ROUTER CONFIGURATION TOOL</b>	32
<b>18.</b>	<b>LOCOMARINE LIMITED FACTORY WARRANTY</b>	32
<b>19.</b>	<b>FCC INTERFERENCE STATEMENT</b>	32
<b>20.</b>	<b>INDUSTRY CANADA NOTICE TO USERS</b>	32

## 1. COPYRIGHT NOTICE

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## 2. RoHS COMPLIANT

All models in the Yacht Router series comply with the Restriction of Hazardous Materials (RoHS) Directive. This means that all components used to build Yacht Router are RoHS compliant. The RoHS Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

## 3. INTRODUCING YACHT ROUTER SOLUTION

Yacht Router is a complete network infrastructure solution for yacht or boat of any size. Yacht Router devices will help you to easily install, setup and control Internet connection on your yacht. The most important part of Yacht Router solution is software that control complete system. It is designed by professionals specialized in yacht communication systems in collaborations with experienced yacht captains. The result is a system that is simple to operate, maintain and control. Underneath simple touch user interface, Yacht Router is a solution with industry level of reliability, performance and unprecedented level of security.

## 4. DISCLAIMER AND WARNING

The content of this manual are well prepared by Locomarine d.o.o.

While we try to improve our equipment at all time, Locomarine d.o.o. shall incur no liability based on content, updates or modification of the content, or the lack of contents in this manual.

Because of the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Yacht Router are used in a normal manner with a well-constructed network, the Yacht Router device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Locomarine d.o.o. and its affiliates accept no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Yacht Router device, or for failure of the Yacht Router device to transmit or receive such data.

The equipment said in this manual must only be used to which it was designed.

Improper operation or installation may cause damages to the equipment or personal injury. Locomarine d.o.o. will not incur any liability of equipment damage or personal injury due to improper use or installation of the equipment. It is strongly recommended to read this manual and the following safety instructions before proceeding to installation or operation.

## 5. DECLARATION OF CONFORMITY

Hereby, Locomarine d.o.o. declares that this Yacht Router device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC on R&TTE:

Article 3.2 (radio): ETSI EN 300 328 V1.7.1:2007

Article 3.1.b (EMC): ETSI EN 301 489-1 V1.9.2 (2011-09)

ETSI EN 301 489-17 V2.1.1 (2009-05)

Article 3.1.a (Safety): ETSI EN 60950-1:2006+A1:2010; EN 60950-22:2006

## 6. SAFETY AND HAZARD

Do not operate your Yacht Router:

- In areas where blasting is in progress.
- Where explosive atmospheres may be present including refuelling points, fuel depots, and chemical plants, near medical equipment, life support equipment, or any equipment which may be susceptible to any form of radio interference.

In such areas, the Yacht Router **MUST BE POWERED OFF**. Otherwise, the Yacht Router can transmit signals that could interfere with this equipment. In an aircraft, the Yacht Router **MUST BE POWERED OFF**. Otherwise, the Yacht Router can transmit signals that could interfere with various onboard systems and may be dangerous to the operation of the aircraft or disrupt the cellular network. Use of a cellular and WIFI equipment in an aircraft is illegal in some jurisdictions. Failure to observe this instruction may lead to suspension or denial of cellular services to the offender, or legal action or both.

**IMPORTANT: Exposure to Radio Frequency Radiation.**

20 cm minimum distance has to be maintained between the antenna (any) and the occupational user and 75 cm to general public.

## 7. SAFETY INSTRUCTION

**ELECTRICAL SHOCK HAZARD:** Do not open enclosure of the equipment if you are not qualified to do it.

**TURN OFF THE POWER IMMEDIATELY IF WATER LEAKS INTO THE EQUIPMENT OR OBJECT DROPS INTO THE EQUIPMENT:** Continue operating the equipment could cause electrical shock or fire. Contact your nearest distributor or dealer for service.

**DO NOT DISASSEMBLE THE EQUIPMENT OR MODIFY THE EQUIPMENT:** Improper disassemble or modification could cause electrical shock, fire, or personal injury.

**AVOID OPERATING THE EQUIPMENT WITH WET HANDS:** Electrical shocks could be resulted if operating with wet hands.

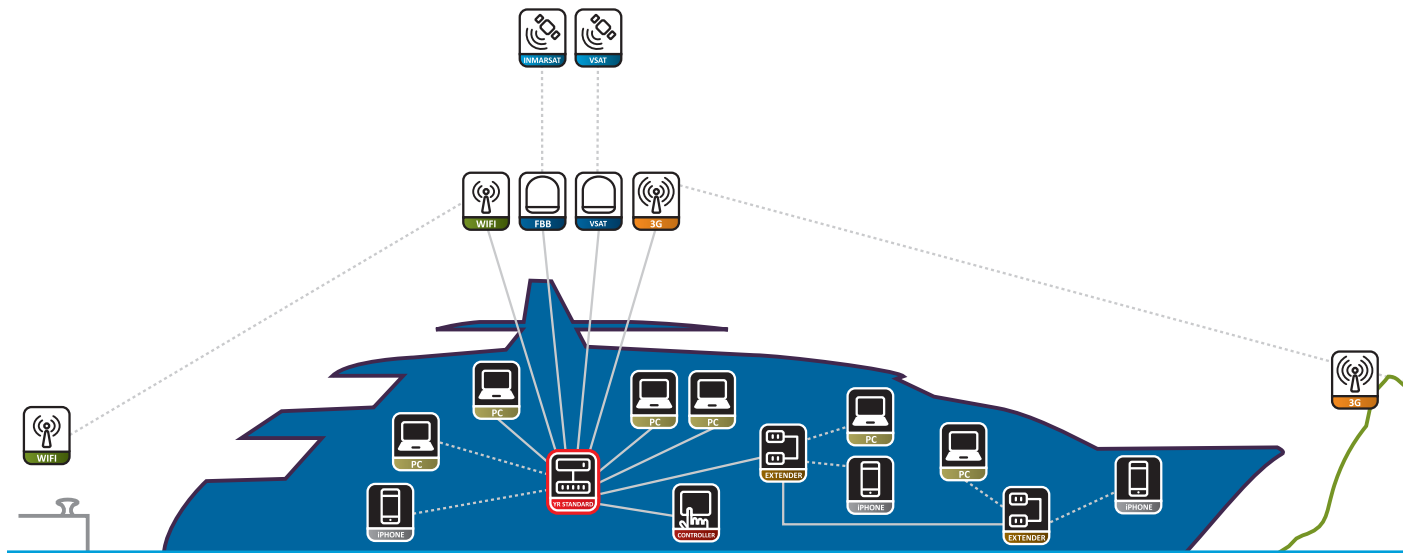
**USE PROPER FUSE:** Damage to the equipment or fire could be resulted if using improper fuse.

**TURN OFF THE POWER IMMEDIATELY IF THE EQUIPMENT IS EMITTING SMOKE OR FIRE:** Continue operating the equipment could cause electrical shock or fire. Contact your nearest distributor or dealer for service.

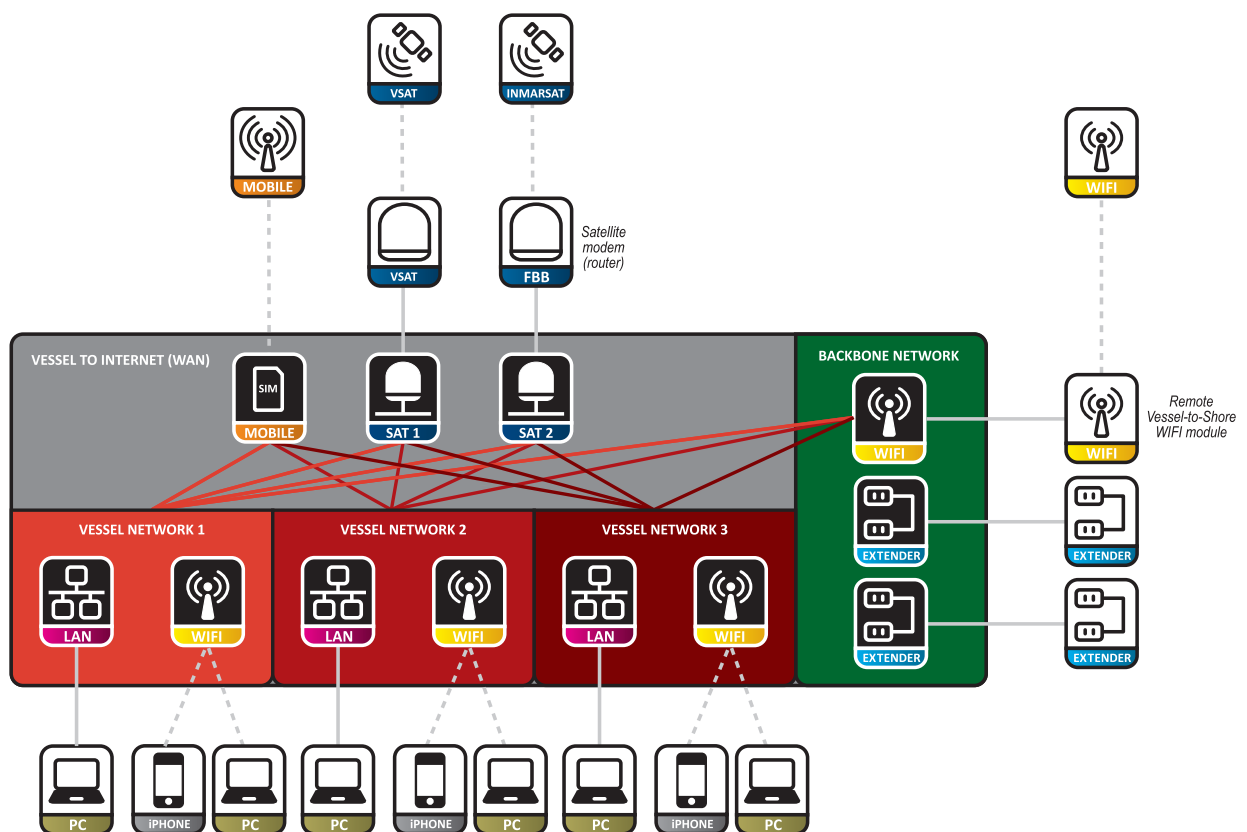
**DO NOT PLACE ANY LIQUID-FILLED CONTAINER ON TOP OF THE EQUIPMENT.**

## 8. ABOUT YACHT ROUTER STANDARD 4G

Yacht Router Standard 4G is intended for installation on boats and yachts with single or dual satellite Internet source (VSAT, Inmarsat, Iridium etc). It will give you ability to establish three vessel WIFI networks (Client-to-Vessel) that you will be able to independently connect to other WIFI networks (e.g. marina WIFI Hotspots), mobile networks (4G/3G/EDGE/GSM) or your satellite Internet equipment. For larger yacht where single WIFI Access Point is not enough to cover all areas additional WIFI Extenders are available.



Schematic drawing of Yacht Router Standard 4G capability and connectivity.



## 9. FEATURES

- high power remote Vessel-to-Shore WIFI module (PoE, 500mW, b/g/n, outdoor) for simplified installation and zero coax cable signal loss
- high power 4G/3G/2G module (250-2000mW)
- 3x Client-to-Vessel WIFI network (b/g)
- Hotspot on single Client-to-Vessel WIFI network (Vessel Network 2)
- 3x LAN port (100 Mbps)
- 2x WAN port (for satellite Internet equipment)
- 3x Backbone LAN port
- 3x PoE injector power outputs
- unlimited number of WIFI Extenders support
- flexible assigning of LAN ports to vessel WIFI networks
- Online Remote Support
- ultra wide range DC power input (6-34 V)
- wall mount aluminum enclosure

## 10. SPECIFICATIONS

### 10.1. WAN, LAN, Backbone networks

Ethernet WAN ports: 2

Ethernet LAN ports: 3

Backbone LAN ports: 3

Mobile Expander ports: not available

Max. data rate on WAN/LAN/Backbone (per port): 100 Mbps

### 10.2. Expanders and Extenders support

WIFI Extender support: yes

Max. number of supported WIFI Extenders: unlimited

PoE injector power outputs: 3

Mobile Expander support: no

LAN Expander support: no

Max. number of supported Mobile Expanders: not available

Max. number of supported LAN Expanders: not available

WIFI/LAN Expander DC power outputs: not available

### 10.3. Vessel-to-Shore WIFI

Internal WIFI module: no

Remote WIFI module (PoE, outdoor): yes

Supported standards: b/g/n

Max. data rates (Mbps): 100

Max. transmit power (dBm): 27

Max. transmit power (mW): 500

Sensitivity of included antenna (dB): 7

Antenna connector type (on device): N-type female

### 10.4. Client-to-Vessel WIFI

Max. number of networks: 3

Supported standards: b/g

Max. data rates (Mbps): 54

Max. transmit power (dBm): 20

Max. transmit power (mW): 100

Sensitivity of included antenna (dB): 5

Antenna connector type (on device): N-type female

## 10.5. Mobile network

Integrated modems: 1

### Europe/Africa/Asia/Oceania modem:

LTE freq. (MHz): 800 (B20), 900 (B8), 1800 (B3), 2100 (B1), 2600 (B7)

WCDMA freq. (MHz): 900 (B8), 2100 (B1)

GSM/GPRS/EDGE freq. (MHz): 900, 1800, 1900

### Americas modem:

LTE freq. (MHz): 700 (B17), AWS (B4), 2100 (B1)

WCDMA freq. (MHz): 800 (B6), 850 (B5), 1900 (B2), 2100 (B1)

GSM/GPRS/EDGE freq. (MHz): 850, 900, 1800, 1900

Max. download rates (Mbps): 100

Max. upload rates (Mbps): 50

Max. transmit power in LTE/4G (dBm): 24

Max. transmit power LTE/4G (mW): 250

Max. transmit power in WCDMA (dBm): 24

Max. transmit power WCDMA (mW): 250

Max. transmit power in GSM/GPRS/EDGE (dBm): 33

Max. transmit power GSM/GPRS/EDGE (mW): 2000

SIM card slots: 1

SIM card size: standard GSM (ID-000)

Sensitivity of included antenna (dB): 2

Antenna connector type (on device): RP-SMA female

## 10.6. Power, environment and dimensions

DC power supply input range (V): 6-34

AC power supply input range (V): not available

Automatic switching AC-DC power controller: no

Max. power consumption (W, without WIFI Extenders): 15

Operating temperature range (°C): -10 to +60

Operating humidity range (% , non-condensing): 5-95

Enclosure material: aluminium

Enclosure mount type: wall

IP Protection: IP50

Dimension (mm, WxDxH, without antennas): 212 x 292 x 80

## 10.7. Software features

Hotspot: yes

Hotspot supported on Client-to-Vessel WIFI networks: 1 (Vessel Net. 2 only)

WAN Auto-switching: no

Online Remote Support: yes

Selectable WAN source for each vessel network: yes

Detailed usage statistics: yes

Flexible assigning of LAN ports to vessel WIFI networks: yes

Customizable WIFI power output: yes

Mobile Network Bonding: not available

Cloud Service: yes

Available remote user accounts for private access: 3

Number of on-board devices reachable through public access: 3

Number of on-board devices reachable through private access: unlimited

## 11. PACKAGING

When shipped, all devices are wrapped in a plastic bags that protects it from humidity. Device is then placed into a cardboard box. A bag containing accessory items is placed inside the box too. List of included accessories is included in the package.



## 12. INSTALLATION INSTRUCTIONS

Install Yacht Router Standard 4G in a dry indoor space that will meet Operating environment range specifications (chapter 9.6). Follow the installation procedure as specified in this chapter.

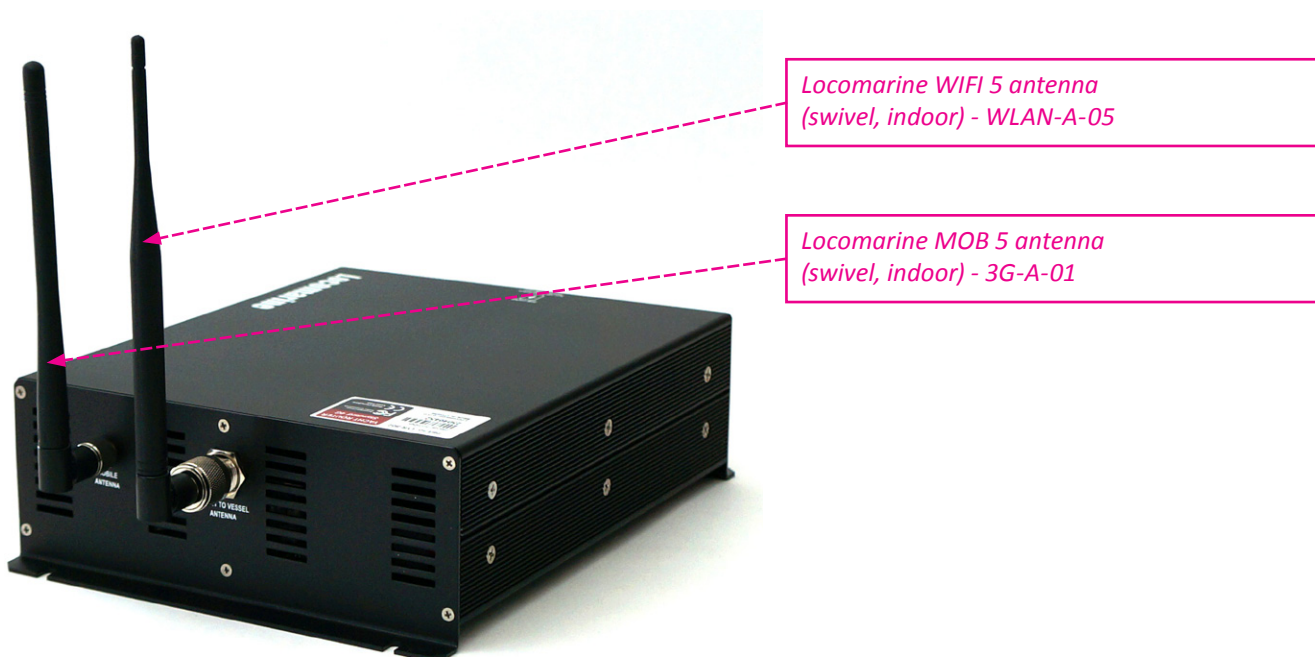
### **WARNING: Exposure to Radio Frequency Radiation!**

20 cm minimum distance has to be maintained between the antenna (any) and the occupational user and 75 cm to general public.

### 12.1. Connecting WIFI and mobile network antennas

**WARNING: NEVER POWER ON YACHT ROUTER IF MOBILE NETWORK ANTENNA IS NOT CONNECTED TO YACHT ROUTER TO AVOID SEVERE DAMAGES ON MOBILE NETWORK MODULE THAT CAN VOID THE WARRANTY.**

Connect WIFI antenna (Client-to-Vessel) and mobile antenna as showed on the following photo:



**IMPORTANT:** To avoid possible interference between Client-to-Vessel WIFI antenna and Mobile network antenna you should always use WIFI Extension cable (WLEC-01). Minimum separation between antennas is 20 cm.



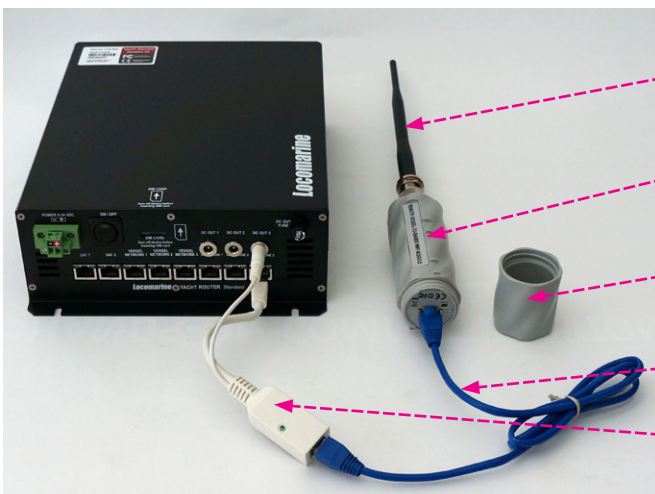
Yacht Router Standard 4G is equipped with **Remote Vessel-to-Shore WIFI module**. It is used for connecting Yacht Router Standard 4G to Hotspots in marinas or similar WIFI access points. Remote Vessel-to-Shore WIFI module is Power over Ethernet device that use single LAN (e.g. CAT5, CAT6) cable for powering and data transfer.



**IMPORTANT:** Never place antennas in the same horizontal level. If you cannot avoid that position, minimum horizontal distance between antennas should be 1 meter. If you do not follow that rule, strong interference on both antennas could occur that could significantly degrade data traffic, transmitting and receiving performance. **NEVER CONNECT BOTH WIFI ANTENNAS DIRECTLY TO YACHT ROUTER.** Use WIFI antenna extension cables supplied with your system.

To connect **Remote Vessel-to-Shore WIFI module** to Yacht Router Standard 4G you will need LAN cable and Gigabit PoE injector (CAT5P-03) that is supplied with a package. Connect Gigabit PoE injector as you can see on a photo below this text. You can use any of three **BACKBONE** (1, 2, 3) and **DC OUT** (1, 2, 3) ports on Yacht Router Standard 4G. If you plan to install Remote Vessel-to-Shore WIFI module on an outdoor location you will have to make custom-made LAN cable that will pass through bottom screw cap of a module. You will not be able to use preassemble LAN cable with connectors on both side. If you do not know how to make such cable we suggest you to contact any IT specialist.

**IMPORTANT:** If Vessel-to-Shore WIFI module is not properly connected, Yacht Standard Pro 4G WILL NOT WORK correctly.



Locomarine WIFI 7 antenna fixed directly to Remote Vessel-to-Shore WIFI Module

Remote Vessel-to-Shore WIFI Module - RVW-01

Bottom screw cap of Remote Vessel-to-Shore WIFI module - install it to make module waterproof!

CAT5 LAN cable

Gigabit PoE injector (female) - CAT5P-03

## 12.2. Connecting computer or other LAN equipment

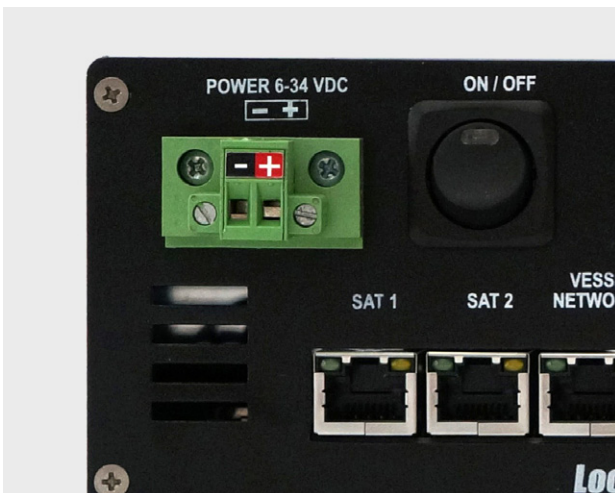
Connect computer or other equipment to the VESSEL NETWORK 1, VESSEL NETWORK 2 or VESSEL NETWORK 3 port as showed on the photo:



## 12.3. Connecting power supply

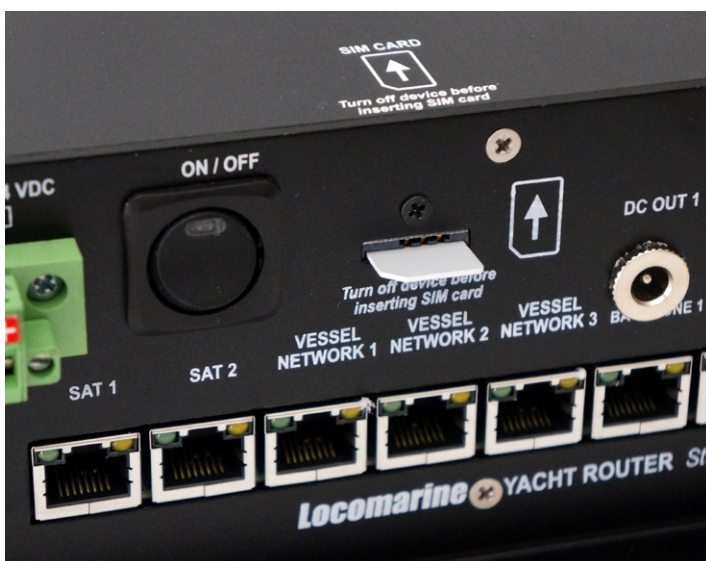
Yacht Router Standard 4G has wide range DC power supply (6-34 VDC). We strongly suggest you to install proper fuses (3A) on power supply sources cable (not supplied with router). Connect power cable to green power connector as specified where **RED (+) is positive** and **BLACK (-) is negative** (ground). You can protect accidental disconnection of power connector with two small screws.

**WARNING: WRONGLY CONNECTED DC POWER CABLE CAN DESTROY YACHT ROUTER THAT CAN VOID THE WARRANTY. PROVIDE SUFFICIENT POWER SUPPLY. INSUFFICIENT POWER SUPPLY WILL REPEATEDLY RESET AND DAMAGE YACHT ROUTER THAT CAN VOID THE WARRANTY.**



## 12.4. Inserting SIM card

Yacht Router Standard 4G will work with any Standard GSM (ID-000) SIM card. If you have Standard or nano SIM card you will have to obtain proper adaptor. Insert SIM card as it is showed on the following photo:



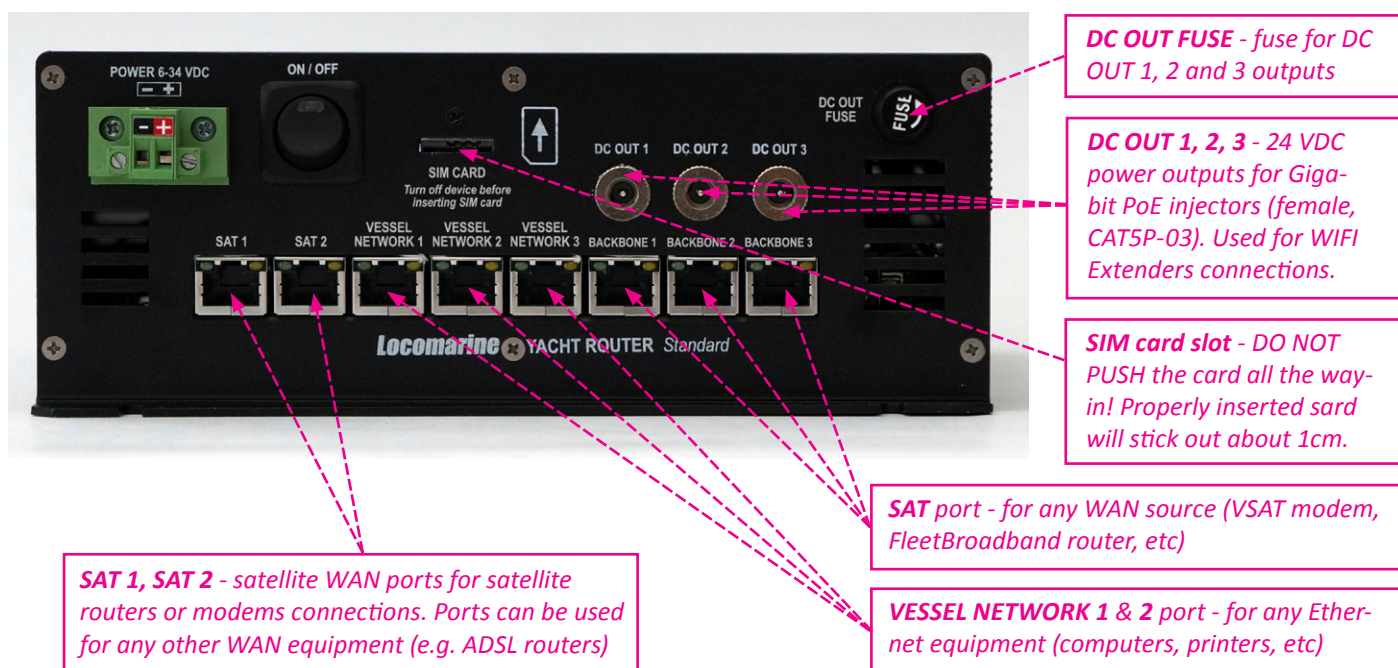
## 12.5. LED indicator and Ports

Yacht Router Standard 4G has multiple LED indicators. Red LED on a power button indicate that device is powered on. Yacht Router Standard 4G is equipped with eight Ethernet ports. Each port is equipped with green and yellow LED indicator for data traffic indication.

**SAT 1** and **SAT 2** are intended for connecting various WAN equipment like satellite modems or routers but it can also be used for ADSL or similar equipment.

**VESSEL NETWORK 1**, **VESSEL NETWORK 2** and **VESSEL NETWORK 2** are dedicated for connection of any LAN equipment like computers, printers, IP cameras etc. For each VESSEL NETWORK (1, 2 or 3) you can independently select Internet source (WAN). Each vessel networks can simultaneously be connected to the Internet. For example, computer connected to VESSEL NETWORK 1 can go to the Internet via VSAT satellite connection, computer connected to VESSEL NETWORK 2 can go via Inmarsat FleetBroadband, while in the same time computer connected to VESSEL NETWORK 3 will reach the Internet via Hotspot in the marina.

**BACKBONE 1**, **BACKBONE 2** and **BACKBONE 3** are used to connect Remote Vessel-to-Shore WIFI Module, Touch Screen Controller 4G and/or WIFI Extenders to expand vessel WIFI coverage. It is not important which port you will dedicate to mentioned device. To connect Remote Vessel-to-Shore WIFI Module or WIFI Extenders to Yacht Router Standard 4G you have to use Gigabit PoE injector (female, CAT5P-03). It will inject 24 VDC power to LAN cable to power remote devices.



## 13. SETUP PROCEDURE

Once you finished installation you should proceed to setup procedure as specified in this chapter. You can control Yacht Router via computer with Windows OS, iPhone, iPad or Android smart phone or tablet. You can simultaneously use multiple and different platforms (e.g. iPhone, Android and PC) to control Yacht Router. If your system is equipped with Touch Screen Controller 4G check Chapter 12.4.

### 13.1. Installing Yacht Router 4G Control Software on computer with Windows operating system

Every Yacht Router is supplied with USB memory stick. On a stick you can find Yacht Router 4G Control Software installation software. Double click on **YachtRouterSetup** and computer will start with installation. During installation, computer will ask you following question: "Do you want to allow the following program from an unknown publisher to make changes to your computer?". Click on "Yes" and proceed with installation.

YR Control Software is developed for Microsoft Windows 7 and Windows 8 operating system but it will probably work on Vista and XP. Locomarine does not offer support for any Yacht Router system that is not installed on Windows 7 or Windows 8 operating system.

We strongly suggest you to download latest version of **Yacht Router 4G Control Software** from Yacht Router website and subscribe to **Software Update Notification Newsletter** on our website [www.yachtrouter.com](http://www.yachtrouter.com).

**IMPORTANT: Yacht Router 4G Control Software will not work correctly if Microsoft Internet Explorer 10 and Microsoft .NET Framework 4 is not installed on your computer. You can download Internet Explorer 10 from a following link:**

<http://windows.microsoft.com/en-us/internet-explorer/ie-10-worldwide-languages>

**You can download Microsoft .NET Framework 4 from a following link:**

<http://www.microsoft.com/en-us/download/details.aspx?id=17851>

**We strongly suggest you to perform latest update of your Windows operating system.**

### 13.2. Installing Yacht Router 4G Control Software on your iPhone or iPad

To install Yacht Router 4G Control Software go to Apple AppStore. Use it the same way as it is described in this manual.

### 13.3. Installing Yacht Router 4G Control Software on your Android smart phone or tablet

To install Yacht Router 4G Control Software go to Google PlayStore. Use it the same way as it is described in this manual.

### 13.4. Connecting Touch Screen Controller 4G

Touch Screen Controller 4G is small size panel mount computer with embedded Yacht Router 4G Control Software. It is equipped with touch screen and is more robust than standard computers and tablets. To connect it to Yacht Router plug supplied (or similar) Ethernet cable to LAN or BACKBONE port on Yacht Router. Connect power supply to Touch Screen Controller 4G and turn it ON. Touch Screen Controller 4G will automatically connect to Yacht Router.



### 13.5. Power on Yacht Router

Once you installed Yacht Router 4G Control Software or connected Touch Screen Controller 4G you can power on Yacht Router. After you turn in on, power LED indicator will light up and you will hear few beeps from Yacht Router. After about half a minute of boot period Yacht Router is ready for use. You will know it is ready once you can find **Vessel Network 1**, **Vessel Network 2** and **Vessel Network 3** wireless network after network scan on your computer, iPhone, iPad or Android device. Connect your device to **Vessel Network 1**, **Vessel Network 2** or **Vessel Network 3** wireless network.

Initial password for **Vessel Network 1**, **Vessel Network 2** or **Vessel Network 3** wireless network is: 12345678

**IMPORTANT:** Be sure your computer is connected only to WIFI Vessel Network. Disconnect all other connections (e.g. LAN). Check that the computer is set to obtain IP address automatically (DHCP enabled). On the following link you can find instructions how to do that:

<http://windows.microsoft.com/en-US/windows7/Change-TCP-IP-settings>

## 14. Yacht Router 4G Control Software

Yacht Router 4G Control Software is simple and easy to use. All platform versions (Windows OS, iOS, Android) has same features and software will automatically adopt to different screen sizes.

On our website [www.yachtrouter.com](http://www.yachtrouter.com) under Support menu you can find very useful Video Tutorials.

### 14.1. Initial screen

Once you start Yacht Router 4G Control Software you will see **Connected to Yacht Router** and button **Enter** in green colour. In upper right corner you will see **Contact Us** button that will give you Locomarine Support contacts. If your device is not able to connect to Yacht Router you will see **Connecting...** message. Check if your device is properly connected to **Vessel Network 1**, **Vessel Network 2** or **Vessel Network 3** wireless network.

Press green **Enter** button to enter main screen.

**IMPORTANT:** Every time you see small clock indicator in upper red status bar you should wait for Yacht Router to finish requested process. It small clock is present in the status bar, control software will not accept any new request from client side.

### 14.2. Main screen

On a Main screen you will see following informations:

**LOCK** - locking Yacht Router 4G Control Software

**SETUP** - enter setup screen.

Vessel network name. Initial names are **Vessel Network 1** and **Vessel Network 2** but you can change it.

Green button shows where is **Vessel Network 1** currently connected. Initial value is **Shore WIFI**. You will use this button to change Internet source (WAN) for **Vessel Network 1**. The same procedure you will use for **Vessel Network 2**

Yacht Router Standard 4G has three vessel network. Default names for this networks are **Vessel Network 1**, **Vessel Network 2** and **Vessel Network 3**.

You can change this name and we suggest you to change it (e.g. Sea Dragon Owner and Sea Dragon Guest, Sea Dragon Crew) to avoid situation when another vessel with Yacht Router is in a vicinity.



**Shore WIFI**, **Inmarsat FleetBroadband** and **4G Mobile** buttons can be represented in three different colours.

Each colour has different meaning:

**GREEN** - Internet is available

**YELLOW** - Internet is not available

**RED** - WAN is disabled

If you press **Shore WIFI** button under **Vessel Network 1** drop-down menu will appear. In that menu you can change your Internet source (WAN) for **Vessel Network 1**. You will do the same for all **Vessel Networks**. Each Vessel Network can simultaneously be connected to a different WAN source. It means that all devices (computers, smart phones, cameras etc) connected to **Vessel Network 1** can reach Internet, for example, via VSAT satellite connection while in the same time all devices connected to **Vessel Network 2** can use WIFI connection via Hotspot in marina to reach the Internet and all devices connected to **Vessel Network 3** can go to the Internet via 4G mobile network. On upper example (screenshot) **Vessel Network 1** is connected to the Internet via **Shore WIFI**, **Vessel Network 2** via Inmarsat FleetBroadband and all other **Vessel Networks** via **4G Mobile**.

But, before you start using Internet source selection you must setup your connections and other important values. To open Setup screen press **SETUP** button in upper right corner of Main screen.

## 14.3. SETUP screen

Setup screen is divided in three sections. Each section is dedicated to different setup and consist of:

### Internet sources (WAN) section

**Satellite Wan Networks** button 1 and button 2

Default value **button 1**: Inmarsat (*changeable*)

Default value **button 2**: VSAT (*changeable*)

Description: open Satellite Wan Network 1 or Satellite Wan Network 2 setup screen.

**Mobile Wan Networks** button

Default value: 4G Mobile (*changeable*)

Description: open Mobile Wan Network setup screen.

**Shore WIFI Wan Networks** button

Default value: Shore WIFI (*changeable*)

Description: open Mobile Wan Network setup screen

### Vessel Networks section

**Vessel Network 1** button

Default value: Vessel Network 1 (*changeable*)

Description: open Mobile Wan Network setup screen.

**Vessel Network 2** button

Default value: Vessel Network 2 (*changeable*)

Description: open Mobile Wan Network setup screen.

**Vessel Network 3** button

Default value: Vessel Network 3 (*changeable*)

Description: open Mobile Wan Network setup screen.

### General Setup section

**Configurations** button

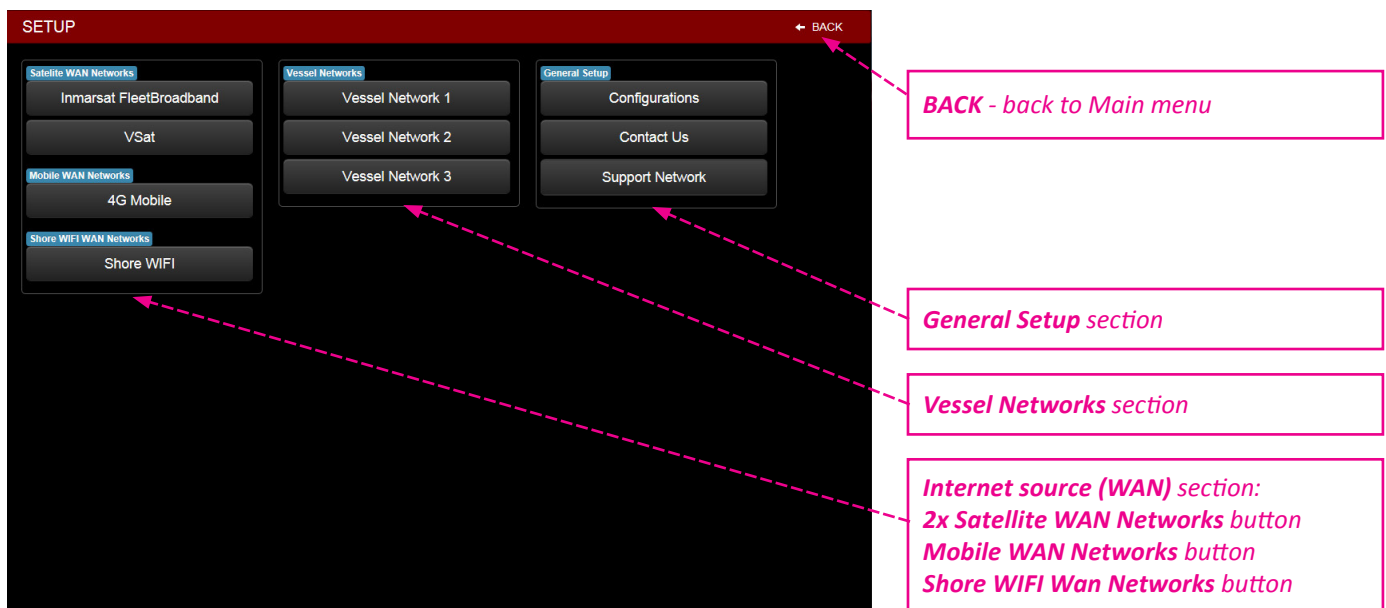
Description: open Configuration setup screen.

**Contact Us** button

Description: open Contact Us screen with Locomarine contact details.

**Support Network** button

Description: open Support Network connections menu. To use this feature **Vessel Network 1** must be connected to Internet. You will use this feature if you need support from our Technical support. Please read section REMOTE SUPPORT chapter for remote support request procedure.



First value you should setup is Yacht Router **Lock Password**.

**IMPORTANT: Set your Lock Password! If you do not set it anyone who is connected to any Vessel Network (WIFI or LAN) with installed Yacht Router 4G Control Software on any of supported device will be able to control Yacht Router. It can cause many unwanted and very expensive consequences (e.g. if someone switch Internet source on your Vessel Network from WIFI Hotspot in marina to your Inmarsat FleetBroadband while you are watching movie on YouTube).**

To setup **Lock Password** press **Configurations** button to open Configurations screen.

## 14.4. Configuration screen

Setup screen is divided in three sections:

### Global Settings section

**Reset to Factory Default** button

**Description:** open menu to **Confirm** that you want to reset to factory defaults.

**Revert To Saved Configuration** button

**Description:** open menu to **Confirm** that you want to revert to saved configuration.

**Save Current Configuration** button

**Description:** open menu to **Confirm** that you want to revert to save current configuration.

### WIFI Extenders section

Yacht Router Standard 4G support multiple WIFI Extender. WIFI Extender is a device that will help you to extend Client-to-Vessel. WIFI coverage on larger boats or yachts. More about WIFI Extender you can find on our website [www.yachtrouter.com](http://www.yachtrouter.com). Once WIFI Extender is connected you will see its serial number under WIFI Extender section. If you want to synchronize WIFI Extender press on SYNCHRONIZE EXTENDERS button.

### Other Settings section is consist of:

**Lock Password** field

**Description:** Yacht Router Lock Password that will prevent other people to setup. Press **UPDATE** button to enter value.

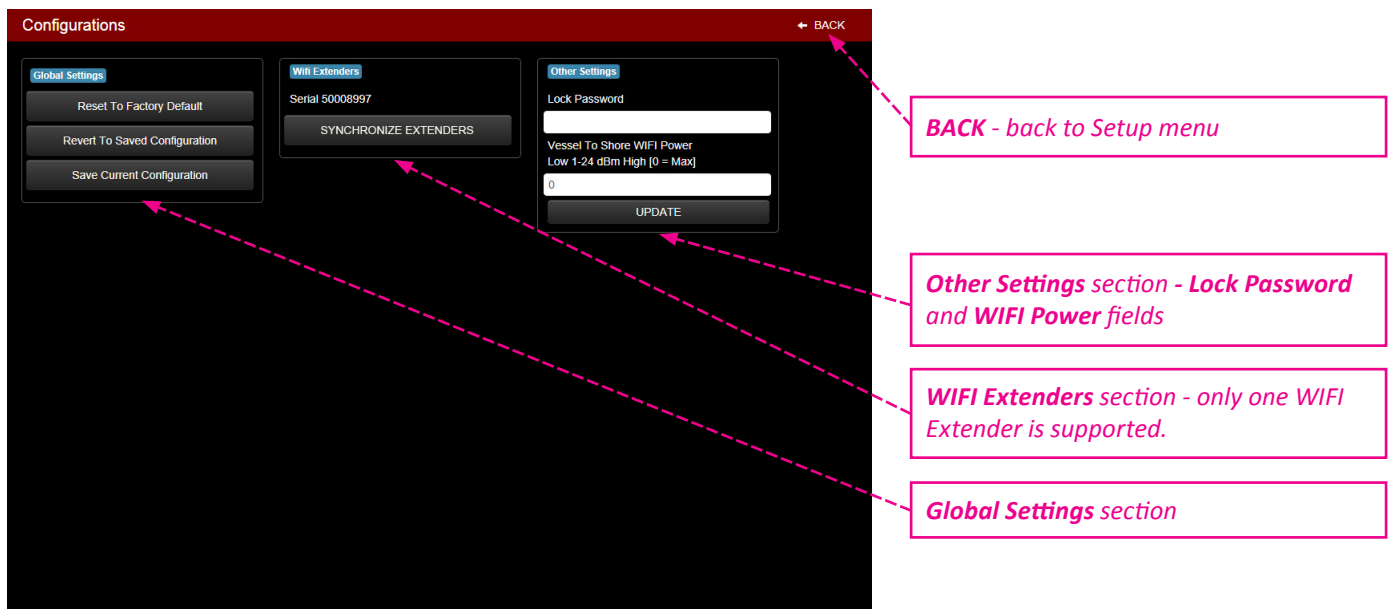
**Vessel to Shore WIFI Power** field

**Default value:** 0 (*changeable*)

**Description:** enter transmit power of **Vessel-to-Shore** WIFI module to obey your country regulations. Default value is 0 and it will set transmit power to maximum available for your Yacht Router. Press **UPDATE** button to enter value

**UPDATE** button

**Description:** update value entered in **Lock Password** and **WIFI Power** fields.



Enter password in **Lock Password** field and press **UPDATE** button. Your Yacht Router is now protected with a password. From now on, every time you start Yacht Router 4G Control Software on any supported device (computer, iPhone, iPad, Android) you will be prompted to enter password on Initial screen. Once you enter correct password **Enter** button will become green.

You can proceed to further setup.

## 14.5. Satellite WAN Network setup

Once you press **Satellite WAN Network setup** button on Setup screen you will enter setup that consist of:

### Main section

#### WAN Name field

Default value on Satellite WAN 1: Inmarsat (*changeable*)

Default value on Satellite WAN 2: Inmarsat (*changeable*)

Description: enter name of your Satellite connection (e.g. VSAT, Inmarsat, Iridium).

#### WAN Status button

Description: turn connection to satellite WAN source.

#### Internet button

Description: show Internet connectivity status (Available or Unavailable). Click on button to refresh status.

The screenshot shows the 'WAN Network' setup screen. At the top, there is a red header bar with 'WAN Network' on the left and 'BACK' and 'ADVANCED' buttons on the right. Below the header, there is a form with three sections: 'WAN Name' with a text input field containing 'VSat', 'WAN Status' with a toggle switch set to 'On', and 'Internet' with a button labeled 'Unavailable' and a refresh icon. To the right of the screenshot, there are five callout boxes with pink dashed lines pointing to the corresponding elements: 'ADVANCED - open Advanced features' points to the 'ADVANCED' button; 'BACK - back to Setup menu' points to the 'BACK' button; 'WAN Name - enter name for your Satellite (e.g. VSAT) network source' points to the 'WAN Name' input field; 'WAN Status - turn on/off connection to WAN source' points to the 'WAN Status' toggle switch; and 'Internet - show status of Internet availability. Click on it to refresh status.' points to the 'Internet' button.

If you press ADVANCED button in upper right corner you will get access to advanced setup and info.

## WAN IP Address configuration section

### DHCP buttons

**Default value:** On (*changeable*)

**Description:** enabling or disabling DHCP (Dynamic Host Configuration Protocol), **Renew** button will renew settings when DHCP is enabled, **Refresh** button refresh data in IP, SUBNET, GATEWAY, DNS 1, DNS2 fields.

### IP field

**Default value:** not defined (*changeable*)

**Description:** show IP (Internet Protocol) address.

### SUBNET field

**Default value:** not defined (*changeable*)

**Description:** show logically visible subdivision of an IP network.

### GATEWAY field

**Default value:** not defined (*changeable*)

**Description:** a node on a TCP/IP network that serves as an access point to another network.

### DNS 1 & DNS 2 fields

**Default value:** not defined (*changeable*)

**Description:** server that hosts a network service for providing responses to queries against a directory service.

### UPDATE STATIC CONFIG button

**Description:** update manually entered data (IP, SUBNET, GATEWAY, DNS 1, DNS2) when DHCP is set to off.

### Traffic Info section

**Description:** show information about data traffic since Yacht Router is powered on for the last time.

**ADVANCED** - open WAN IP Address configuration and Traffic Info section

**Traffic Info** section - data traffic info

**DHCP** setup - you can turn it on/off, Renew IP and Refresh data

**WAN IP Address configuration** section

## 14.6. Mobile WAN Networks setup

Once you press **Mobile WAN Networks** button on Setup screen you will open **WAN Network** setup screen that consist of:

### Main section

#### WAN Name field

**Default value:** 4G Mobile (*changeable*)

**Description:** enter name of your Mobile connection (e.g. Vodafone Greece).

#### WAN Status button

**Description:** turn on or off modem. Once turned off it will take up to one minute to turn back on.

#### Internet button

**Description:** show Internet connectivity status (Available or Unavailable). Click on button to refresh status.

#### OK button

**Description:** once you made changes in **WAN Name** field click on OK button to confirm changes.

### Mobile Status section

#### APN field

**Description:** APN is data provided by your SIM card provider. It is necessary for Internet connection.

#### PIN field

**Description:** PIN data protect your SIM card and it is provided with your SIM card.

#### More Options button

**Description:** open menu with addition setup buttons and fields.

#### Auto LTE 3G GSM buttons

**Default:** Auto (*changeable*)

**Description:** Mobile connection technology. Auto = fastest available technology (LTE-3G-GSM).

#### Username field

**Description:** some mobile network providers use username data. It should be provided with SIM card.

#### Password field

**Description:** some mobile network providers use password data. It should be provided with SIM card.

#### Modem Init field

**Description:** some mobile network providers use Init data. It should be provided with SIM card.

#### Roaming button

**Description:** enable or disable roaming.

The screenshot shows the 'WAN Network' setup screen. It has a dark background with white text and red accents. At the top, there's a title bar with 'WAN Network' and two buttons: 'BACK' and 'ADVANCED'. Below the title bar, there are several sections. The first section contains 'WAN Name' (a text field with '4G Mobile'), 'WAN Status' (a toggle switch set to 'On'), and 'Internet' (a button labeled 'Available' with a refresh icon). The second section is titled 'Mobile Status' and shows 'call in progress TELE2 3G'. It contains 'APN' (a text field with 'data.tele2.hr'), 'PIN' (a text field), and a 'More Options' button. Below this, there are buttons for 'Auto', 'LTE', '3G', and 'GSM'. The 'Auto' button is highlighted. Below these are 'Username', 'Password', and 'Modem Init' text fields. At the bottom, there's a 'Roaming' toggle switch set to 'On'. Red dashed lines with arrows point from various callout boxes to specific elements on the screen. The callouts are: 'ADVANCED - open Advanced features' pointing to the 'ADVANCED' button; 'BACK - back to Setup menu' pointing to the 'BACK' button; 'WAN Name - enter name for your Mobile network source' pointing to the 'WAN Name' field; 'WAN Status - turn on/off modem for Mobile network connection' pointing to the 'WAN Status' toggle; 'APN and PIN- Access Point Name and PIN are provided with your SIM card' pointing to the 'APN' and 'PIN' fields; 'More Options - additional setup' pointing to the 'More Options' button; 'Username, Password and Modem Init - used by some Mobile providers' pointing to the 'Username', 'Password', and 'Modem Init' fields; 'Connection technology setup - you can setup Yacht Router to use different mobile connection technology' pointing to the 'Auto', 'LTE', '3G', and 'GSM' buttons; and 'Roaming - enable or disable roaming' pointing to the 'Roaming' toggle.

**ADVANCED** - open Advanced features

**BACK** - back to Setup menu

**WAN Name** - enter name for your Mobile network source

**WAN Status** - turn on/off modem for Mobile network connection

**APN and PIN** - Access Point Name and PIN are provided with your SIM card

**More Options** - additional setup

**Username, Password and Modem Init** - used by some Mobile providers

**Connection technology setup** - you can setup Yacht Router to use different mobile connection technology

**Roaming** - enable or disable roaming



If you press **ADVANCED** button in upper right corner you will get access to advanced setup and info.

## WAN IP Address configuration section

### DHCP buttons

**Default value:** On (*changeable*)

**Description:** enabling or disabling DHCP (Dynamic Host Configuration Protocol), **Renew** button will renew settings when DHCP is enabled, **Refresh** button refresh data in IP, SUBNET, GATEWAY, DNS 1, DNS2 fields.

### IP field

**Default value:** not defined (*changeable*)

**Description:** show IP (Internet Protocol) address.

### SUBNET field

**Default value:** not defined (*changeable*)

**Description:** show logically visible subdivision of an IP network.

### GATEWAY field

**Default value:** not defined (*changeable*)

**Description:** a node on a TCP/IP network that serves as an access point to another network.

### DNS 1 & DNS 2 fields

**Default value:** not defined (*changeable*)

**Description:** server that hosts a network service for providing responses to queries against a directory service.

### UPDATE STATIC CONFIG button

**Description:** update manually entered data (IP, SUBNET, GATEWAY, DNS 1, DNS2) when DHCP is set to off.

## Traffic Info section

**Description:** show information about data traffic since Yacht Router is powered on for the last time.

The screenshot shows the 'WAN Network' configuration page. At the top right, there are 'BACK' and 'ADVANCED' buttons. The page is divided into several sections:

- WAN Name:** 4G Mobile
- WAN Status:** On/Off (On is selected)
- Internet:** Available
- Mobile Status:** call in progress TELE2 3G
- APN:** data.tele2.hr
- PIN:** (empty)
- More Options:** (button)
- UPDATE:** (button)
- WAN IP Address configuration:** bound
  - DHCP:** On/Off (On is selected)
  - IP:** 90.137.180.116
  - SUBNET:** 255.255.255.0
  - GATEWAY:** 90.137.180.116
  - DNS 1:** 212.247.156.66
  - DNS 2:** 212.247.156.70
  - UPDATE STATIC CONFIG:** (button)
- Traffic Info:**
  - Megabytes Sent: 0
  - Bytes Sent: 2236
  - Megabytes Received: 0
  - Bytes Received: 720

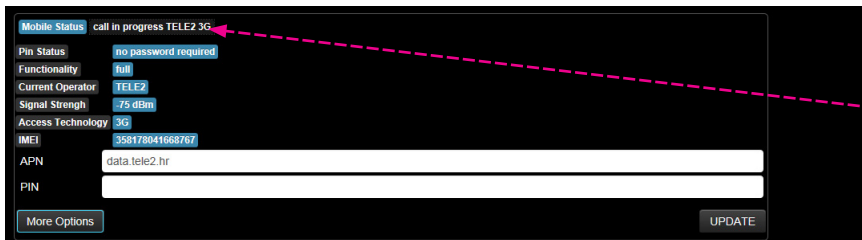
**ADVANCED** -open **WAN IP Address configuration** and **Traffic Info** section

**Traffic Info** section - data traffic info

**DHCP** setup - you can turn it on/off, Renew IP and Refresh data

**WAN IP Address configuration** section

To check Mobile Network status and connectivity details click on gray field/button as specified on the following picture. You will get following information: **PIN Status**, **Functionality**, **Current Operator**, **Signal Strength**, **Access Technology**, **IMEI**.



Click here to get precise data about mobile network and connectivity status.

**Mobile Status** - indicate current connection status. It is a combination of information taken from **Current Operator** field and **Access Technology** field described below.

**call in progress** <**Current Operator**> <**mobile network name**>: indicate that Yacht Router is connected to the mobile network and Internet is available. For example: **call in progress TELE2 3G** means that you are connected to TELE2 mobile network using 3G technology and that Internet is available.

**ready** <**mobile network name**>: indicate that Yacht Router is connected to the mobile network but WAN is disabled and Internet is not available.

**ERROR: SIM not inserted**: indicate that SIM card is not inserted or recognised by Yacht Router, it often indicate that SIM card is damaged.

**PIN Status** - information about SIM card PIN protection.

**no password required**: indicate that PIN code is not enabled on SIM card currently in use.

**waiting for primary PIN**: indicate that PIN code for SIM card currently in use is not correct or not entered at all.

**Functionality** - indicated current connection functionality.

**minimum**: indicate that you have full connection functionality. The reasons can be various, from damaged SIM card, wrong PIN, low signal strength etc.

**full**: indicate that you have full connection functionality.

**Current Operator** - current operator name or limited service indication.

<**mobile network name**>: name of mobile network currently in use.

**Limited Service** <**mobile network name**>: indicate that you are connected to the mobile network but your access to the Internet is limited. Reasons can be various: your subscription is out of date or you do not have any more credits on your account. Maybe you have to activate your SIM card over the Internet or mobile phone before first use. Or maybe your data plan does not allow connection to the Internet using Access Technology that you have selected - some providers require additional subscription for LTE technology. The easiest solution to find out why your access to the Internet is limited is to contact your mobile provider. One of the reasons can also be a damaged SIM card.

**Signal Strength** - mobile network signal strength in dBm.

**Access Technology** - currently used access technology.

**GSM compact**: GPRS and EDGE with data rate up to 350 kbps

**3G**: HSPA/HSPA+ with data rate up to 42 Mbps

**LTE**: sometimes called 4G with data rate up to 100 Mbps

**IMEI** - International Mobile Equipment Identity; number that indicates modem used for mobile network connectivity. Some mobile providers ask for IMEI number.

## 14.7. Shore WIFI WAN Networks setup

Once you press **Shore WIFI WAN Networks** button on Setup screen you will open **WAN Network** setup screen that consist of:

### Main section

#### WAN Name field

**Default value:** Shore WIFI (*changeable*)

**Description:** enter name of your Ship-to-Shore connection (e.g. Marina Hotspot).

#### WAN Status button

**Description:** turn on or off connection to Shore WIFI.

#### Internet button

**Description:** show Internet connectivity status (Available or Unavailable). Click on button to refresh status.

#### OK button

**Description:** once you made changes in **WAN Name** field click on OK button to confirm changes.

### WIFI Status section

#### WIFI Network field

**Default value:** not defined (*changeable*)

**Description:** show name of currently connected WIFI network. You can enter it manually if you want. Once you enter it enter password (for encrypted WIFI networks) and press **Connect to WIFI** button to connect.

#### Password field

**Default value:** not defined (*changeable*)

**Description:** enter password to connect to encrypted WIFI networks. Yacht Router can connect to WIFI networks with following encryption protocols: WPA/WPA2, EAS/TKIP, WEP (limited).

#### Use WEP button

**Default value:** Off (*changeable*)

**Description:** turn it on if you plan to connect to WIFI network with WEP encryption.

**Note:** As WEP encryption is not really secure, Yacht Router support only WEP with Static Key Optional 40 bit

#### Start Scanning button

**Description:** scan for available networks. List of available networks with appear with signal strength info (signal to noise ratio in dB) and two colour codes: green=OK, red=poor. To connect to WIFI network click on a button with network name. Chosen WIFI network name will appear in **WIFI Network** field. Enter **Password** if network is encrypted end press **Connect to WIFI** button to connect.

#### Connect to WIFI button

**Description:** click on button to connect to WIFI network.

The screenshot shows the 'WAN Network' setup screen. At the top, there are 'BACK' and 'ADVANCED' buttons. The main section contains several fields and buttons: 'WAN Name' (set to 'Shore WIFI'), 'WAN Status' (toggle between 'On' and 'Off'), 'Internet' (toggle between 'Available' and 'Unavailable'), and an 'OK' button. Below this is the 'WIFI Status' section, which shows 'connected to Locomarine'. It includes a 'WIFI Network' field (set to 'Locomarine'), a 'Password' field (set to '12345678'), and a 'Use WEP' toggle (set to 'On'). There are 'Connect to Wifi' and 'Start Scanning' buttons. At the bottom, there is a 'Visible Networks' list showing various networks with their signal strength in dB. Annotations with dashed lines point to specific elements: 'WAN Name' (Shore WIFI), 'WAN Status' (On/Off toggle), 'WIFI Network' (Locomarine), 'Use WEP' (On/Off toggle), 'Start Scanning' button, and the 'Visible Networks' list.

**WAN Name** - enter name for your Shore WIFI network source

**WAN Status** - turn on/off connection to Shore WIFI network

**WIFI Network** - name of currently connected Shore WIFI network

**Use WEP** - enable connectivity to WEP protected WIFI networks

**Start Scanning** - scan for available WIFI networks

List of available WIFI networks with signal strength info

If you press **ADVANCED** button in upper right corner you will get access to advanced setup and info.

## WAN IP Address configuration section

### DHCP buttons

**Default value:** On (*changeable*)

**Description:** enabling or disabling DHCP (Dynamic Host Configuration Protocol), **Renew** button will renew settings when DHCP is enabled, **Refresh** button refresh data in IP, SUBNET, GATEWAY, DNS 1, DNS2 fields.

### IP field

**Default value:** not defined (*changeable*)

**Description:** show IP (Internet Protocol) address.

### SUBNET field

**Default value:** not defined (*changeable*)

**Description:** show logically visible subdivision of an IP network.

### GATEWAY field

**Default value:** not defined (*changeable*)

**Description:** a node on a TCP/IP network that serves as an access point to another network.

### DNS 1 & DNS 2 fields

**Default value:** not defined (*changeable*)

**Description:** server that hosts a network service for providing responses to queries against a directory service.

### UPDATE STATIC CONFIG button

**Description:** update manually entered data (IP, SUBNET, GATEWAY, DNS 1, DNS2) when DHCP is set to off.

## Traffic Info section

**Description:** show information about data traffic since Yacht Router is powered on for the last time.

The screenshot shows the 'WAN Network' configuration page. At the top right, there are 'BACK' and 'ADVANCED' buttons. The 'WAN Name' field is set to 'Shore WIFI'. Below it, 'WAN Status' has 'On' and 'Off' buttons, and 'Internet' is 'Available' with a refresh icon and an 'OK' button. The 'WiFi Status' section shows 'connected to Locomarine' with fields for 'Wifi Network' (Locomarine) and 'Password' (12345678), and a 'Use WEP' toggle set to 'Off'. There are 'Connect to Wifi' and 'Start Scanning' buttons. The 'WAN IP Address configuration' section is highlighted with a red dashed box and an annotation. It shows 'DHCP' set to 'On' with 'Renew' and 'Refresh' buttons. Below are fields for 'IP' (192.168.88.124), 'SUBNET' (255.255.255.0), 'GATEWAY' (192.168.88.1), 'DNS 1' (192.168.102.1), and 'DNS 2' (8.8.8.8). At the bottom is an 'UPDATE STATIC CONFIG' button. The 'Traffic Info' section is also highlighted with a red dashed box and an annotation. It shows 'Megabytes Sent' (2 MegaBytes), 'Bytes Sent' (1760209 Bytes), 'Megabytes Received' (38 MegaBytes), and 'Bytes Received' (40038874 Bytes). Four red dashed arrows point from text boxes to specific elements: one to the 'ADVANCED' button, one to the 'Traffic Info' section, one to the 'DHCP' buttons, and one to the 'WAN IP Address configuration' section.

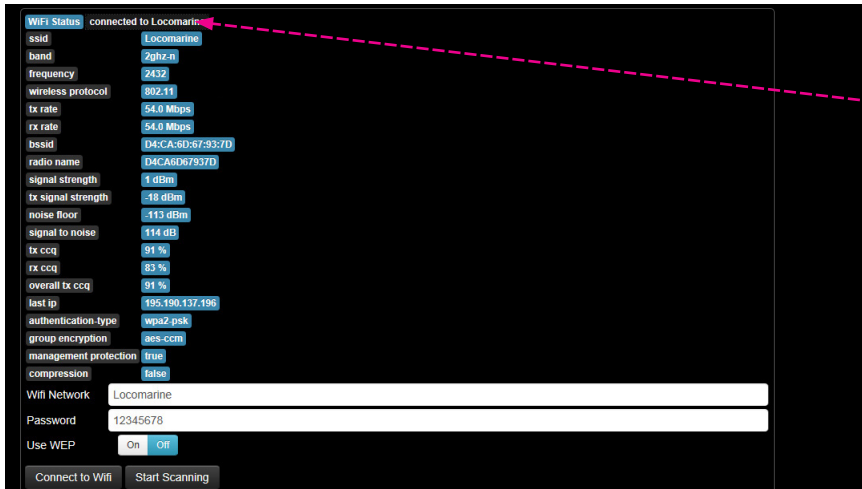
**ADVANCED** - open **WAN IP Address configuration** and **Traffic Info** section

**Traffic Info** section - data traffic info

**DHCP** setup - you can turn it on/off, Renew IP and Refresh data

**WAN IP Address configuration** section

To check Shore WIFI Network status and connectivity details click on gray field/button as specified on the following picture.



Click here to get precise data about mobile network and connectivity status.

You will get following statuses: **ssid**, **band**, **frequency**, **wireless protocol**, **tx rate**, **rx rate**, **bssid**, **signal strength**, **tx signal strength**, **noise floor**, **signal to noise ratio**, **tx ccq**, **rx ccq**, **overall tx ccq**, **last ip**, **authentication-type**, **group encryption**, **management protection**, **compression**.

**ssid** - Service Set Identifier is name of WIFI network.

**band** - frequency band of WIFI network currently in use.

**2ghz-b**: with data rate up to 2 Mbps

**2ghz-g**: with data rate up to 11 Mbps

**2ghz-n**: with data rate up to 54 Mbps

**frequency** - WIFI frequency expressed in Hz.

**wireless protocol** - WIFI protocol on WIFI network currently in use.

**tx-rate** - maximum transmit data rate for current WIFI connection.

**rx-rate** - maximum receive data rate for current WIFI connection.

**bssid** - Basic Service Set Identifier is unique address (name) that identifies the access point/router that creates the wireless network.

**radio name** - MT proprietary extension for Atheros cards.

**signal strength** - WIFI signal strength in dBm

**tx signal strength** - transmit signal level in dBm

**noise floor** - noise level in dBm.

**signal to noise** - difference between signal strength and noise floor. This is the best indicator of WIFI signal quality. Higher value means better signal. For example, if signal strength is -10 dBm and noise floor is -107 dBm than signal to noise is 97 dB. This number actually shows you how much your WIFI signal is stronger than noise.

**more than 40 dB**: excellent signal

**25-40 dB**: very good signal

**15-25 dB**: low signal

**10-15 dB**: very low signal

**less than 10 dB**: no signal

**tx-ccq** - Client Connection Quality is value in percent that shows how effective the transmit bandwidth is used regarding the theoretically maximum available bandwidth.

**rx-ccq** - Client Connection Quality is value in percent that shows how effective the receive bandwidth is used regarding the theoretically maximum available bandwidth.

**overall tx ccq** - overall Client Connection Quality is value in percent that shows how effective the transmit bandwidth is used regarding the theoretically maximum available bandwidth.

**last ip** - IP address found in the last IP packet received from the registered client.

**authentication type** - authentication method used by current WIFI network.

**group encryption** - encryption algorithm used by current WIFI network.

**management protection** - status of management protection authentication mode.

**compression** - status of hardware compression on current WIFI network.

## 14.8. Vessel Network setup

Once you press **Vessel Network 1**, **Vessel Network 2** or **Vessel Network 3** button on Setup screen you will open **Vessel Network** setup screen that consist of:

### Main section

#### Name field

**Default value on Vessel Network 1-3:** Vessel Network 1-3 (*changeable*)

**Description:** enter name of each Vessel Network. This name will appear in Main Screen menus.

#### WIFI SSID field

**Default value on Vessel Network 1-3:** Vessel Network 1-3 (*changeable*)

**Description:** enter name of WIFI component of your Vessel Networks. This name will appear on all devices during WIFI scanning (e.g. Sea Dragon WIFI during WIFI scan with your laptop).

#### WIFI Password field

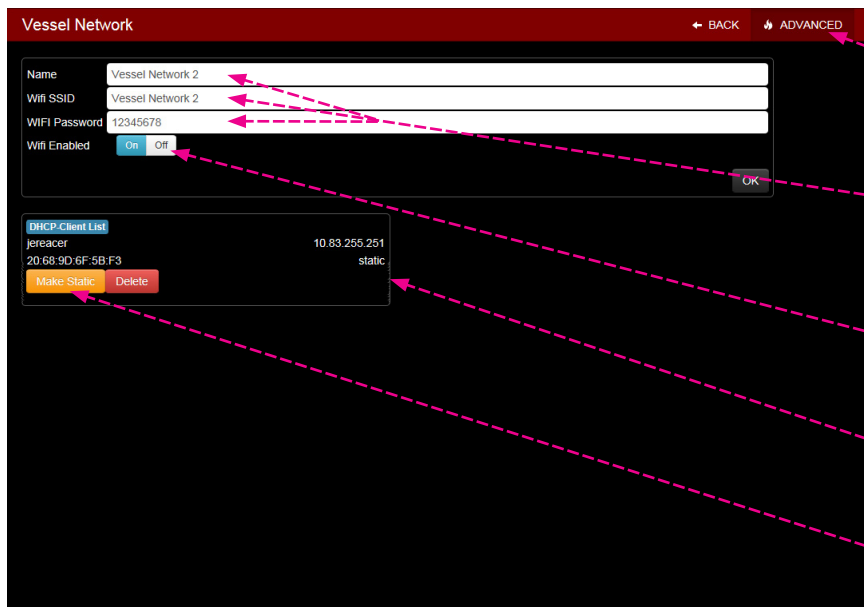
**Default value on Vessel Network 1-3:** 12345678 (*changeable*)

**Description:** enter password for WIFI Vessel Networks.

#### WIFI Status button (*not available on Vessel Network 1*)

**Default value:** On (*changeable*)

**Description:** enable or disable Vessel Network WIFI



The screenshot shows the 'Vessel Network' setup screen. At the top, there are 'BACK' and 'ADVANCED' buttons. The main form has fields for 'Name' (Vessel Network 2), 'Wifi SSID' (Vessel Network 2), 'Wifi Password' (12345678), and a 'Wifi Enabled' toggle switch (currently 'On'). Below the form is a 'DHCP Client List' section showing a single client: 'jereacer' with MAC address '20:68:9D:6F:5B:F3' and IP address '10.83.255.251'. Below the client entry are 'Make Static' and 'Delete' buttons. Annotations with dashed lines point to various elements: 'ADVANCED' button, 'Name' field, 'Wifi SSID' field, 'Wifi Password' field, 'Wifi Enabled' toggle, 'DHCP Client List' section, 'Make Static' button, and 'Delete' button.

**ADVANCED** - open **DHCP Client List** section

**Name** - enter your vessel network name that will appear on **Main screen**  
**WIFI SSID** - enter name that will your vessel network transmit as WIFI

**WIFI Status** - enable or disable WIFI - Available only on Vessel Network 2

**DHCP Client List** section - list of currently connected DHCP clients

**Make Static** - fix static IP to conected clients

If you press **ADVANCED** button in upper right corner once you are inside **Vessel Network** setup screen **DHCP Client List** section will appear. It will show list of currently connected clients (devices) with their MAC (Media Access Control) and IP address. If you click on any client it will open additional buttons:

### DHCP Client List section

#### Make Static button

**Description:** fix listed DHCP client to static IP address.

#### Delete button

**Description:** delete DHCP client from DHCP list.

If you press **ADVANCED** button in upper right corner once you are inside **Vessel Network 2** you will also find **Hot Spot** section. On a next page you will find instructions how to use and setup Hot Spot.

## 14.9. Hotspot

Yacht Router Standard 4G is equipped with Hotspot feature. **This feature is available only on a Vessel Network 2 WIFI network.** Once you enter Vessel Network 2 setup screen, press **ADVANCED** button in upper right corner. Next to **DHCP-Client List** that was described on previous page, **Hotspot** section will appear. It consist of:

### Hotspot section

#### Hotspot Status button

**Default value:** On (*changeable*)

**Description:** enable or disable Hotspot.

#### User list buttons (appears only if you have created Hotspot users)

**Description:** Hotspot users. If you click on a button user details will appear as a new menu.

#### Password field

**Description:** Hotspot user password.

#### Data usage (MB) field

**Description:** current Hotspot user data usage details.

#### Time usage field

**Description:** current Hotspot user time usage details.

#### Delete User button

**Description:** delete Hotspot user.

#### Reset Usage button

**Description:** reset Hotspot user usage data to initial values.

#### Add New User button

**Description:** open menu for adding new Hotspot user.

#### Name field

**Description:** enter name for new Hotspot user

#### Password field

**Description:** enter password for new Hotspot user

#### Limit Days field

**Description:** enter duration limit in days for new Hotspot user. If you enter 0 (zero) user will have unlimited access.

#### Limit Hours field

**Description:** enter duration limit in hours for new Hotspot user. If you enter 0 (zero) user will have unlimited access. Maximum value must be less than 24.

#### Limit Megabytes field

**Description:** enter data volume limit in Megabytes for new Hotspot user (1 GB = 1024 MB). If you enter 0 (zero) user will have unlimited access.

#### Create New User button

**Description:** once you enter data in all above mentioned fields press button to create new Hotspot user.

#### Reset Usage for All button

**Description:** open menu to **Confirm** that you want to reset usage for all Hotspot users.

The screenshot shows the 'Hot Spot' configuration screen. On the left is a 'DHCP-Client List' panel. The main 'Hot Spot' panel has a toggle for 'Hot Spot Enabled' (On/Off). Below this is a list of active users: John Smith and Susan Smith. Each user entry shows their password (seadragon2 and seadragon3), data usage (0 of 1000), and time usage (00:00:00 of 1w00:00:00). There are 'Delete User' and 'Reset Usage' buttons for each user. Below the user list is an 'Add New User' section with fields for Name (Bob Smith), Password (seadragon3), Limit Days (7), Limit Hours (0), and Limit Megabytes (0). A note states 'Value of 0 translates to unlimited.' There is a 'Create User' button and a 'Reset Usage for All' button at the bottom.

Annotations with arrows point to the following elements:

- Hotpost Status - enable or disable**: Points to the 'Hot Spot Enabled' toggle.
- Active Hotspot users**: Points to the list of users (John Smith, Susan Smith).
- Reset Usage - reset usage to initial value**: Points to the 'Reset Usage' button for a user.
- New Hotspot user details: Name, Password, Limits (days, hours, data volume)**: Points to the 'Add New User' form fields.



## 15. ONLINE REMOTE SUPPORT

Each Yacht Router is equipped with **Online Remote Support** feature that gives our technical support ability to connect to your Yacht Router to check and resolve possible problems.

To establish **Online Remote Support** you have to send an e-mail to [support@locomarine.com](mailto:support@locomarine.com) with following details:

1. Contact details (Name, e-mail, phone number)
2. Yacht Router model (Micro, Mini, Standard, Pro)
3. Yacht Router serial number.
4. Description of the problem.
5. Suggested best time (minimum one) when our technicians can connect to your Yacht Router. Please note that our Support Team is available from Monday to Friday, 9-17 hrs (Central European Time).

Once we receive your request we will provide further instructions by e-mail or phone.

**IMPORTANT: to establish Remote support Vessel Network 1 on your Yacht Router MUST be connected to the Internet.**

To perform additional diagnostics our Support Team will sometimes need to connects remotely to your computer. To do that you will have to install [Team Viewer](#) software. If you already use this software you will have to provide **Your ID** and **Password** from Team Viewer software. You can find Team Viewer download link on our website [www.yachtrouter.com](http://www.yachtrouter.com) under Support section or simply click [here](#).

## 16. YACHT ROUTER NETWORK DETAILS

Yacht Router Standard 4G has reserved IP ranges that cannot be used by other connected equipment:

**Support network:** 10.10.0.0/16

**Reserved range:** 10.80.0.0/12

### Yacht Router Standard 4G IP reservation details

**Backbone Network:** 10.81.0.1/16

#### Vessel Network 1:

Gateway: 10.81.0.1

Free static range: 10.81.0.3 - 10.81.0.99

DHCP: 10.81.0.100 - 10.81.255.254

DNS: 10.81.0.1, 8.8.8.8

#### Vessel Network 2:

Gateway: 10.82.0.1

Free static range: 10.82.0.3 - 10.82.0.99

DHCP: 10.82.0.100 - 10.82.255.254

DNS: 10.82.0.1, 8.8.8.8

#### Vessel Network 3:

Gateway: 10.83.0.1

Free static range: 10.83.0.3 - 10.83.0.99

DHCP: 10.83.0.100 - 10.83.255.254

DNS: 10.83.0.1, 8.8.8.8

**VLAN id usage:** 1-9

## 17. YACHT ROUTER CONFIGURATION TOOL

**Yacht Router Configuration Tool** is a software that will give you ability to assign each VESSEL NETWORK Ethernet port to **Vessel Network** of your choice. BACKBONE and SAT ports cannot be reconfigured.

To obtain the software contact us on [support@locomarine.com](mailto:support@locomarine.com)

## 18. LOCOMARINE LIMITED FACTORY WARRANTY

Locomarine manufactures marine electronic products which are marketed and supported worldwide via the Locomarine distributor, dealer and partner network. Each and every Locomarine distributor, dealer and partner is committed to service and support the products in accordance with the market's needs and requirements. In addition, the Locomarine distributor, dealer and partner networks are obliged to support the products irrespective of who sold and installed the product.

Locomarine Limited Factory Warranty for Yacht Router products can be downloaded from [www.yachtrouter.com](http://www.yachtrouter.com) under Support/Download section.

## 19. FCC INTERFERENCE STATEMENT

This equipment has not been tested and not found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device may comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

### **IMPORTANT: Exposure to Radio Frequency Radiation.**

20 cm minimum distance has to be maintained between the antenna (any) and the occupational user and 75 cm to general public. Under such configuration, the FCC radiation exposure limits set forth for a population/uncontrolled environment can be satisfied.

## 20. INDUSTRY CANADA NOTICE TO USERS

Notice: To satisfy IC RF exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis: Pour répondre à la IC d'exposition pour les besoins de base et mobiles dispositifs de transmission de la station, sur une distance de séparation de 20 cm ou plus doit être maintenue entre l'antenne de cet appareil et les personnes en cours de fonctionnement. Pour assurer le respect, l'exploitation de plus près à cette distance n'est pas recommandée. L'antenne (s) utilisé pour cet émetteur ne doit pas être co-localisés ou fonctionner conjointement avec une autre antenne ou transmetteur.