

## **TECHNICAL NOTES**



Article Number - 00038-2012

Date - 27<sup>th</sup> July 2012

Article applies to - iNavConnect

## ISSUE: Changing the SSID and Password of iNavConnect

All iNavConnects are shipped with the wireless network SSID set to "iNavConnect" and the wireless password (passkey) set to "inavconnect". If you are using the iNavConnect with a Raymarine E-Series and Navionics app, security is not critical and these default settings are probably fine. If you are using iNavConnect as a router at the heart of your boat's wireless network, then it is recommended that you change the SSID and password to more unique and secure values.

This Tech Note, explains how to configure the SSID and Password on your iNavConnect.

## SOLUTION:

Connect your PC directly to the LAN socket on your iNavConnect using a normal Ethernet network cable. From your web browser, type in 10.0.0.1 in the address bar and press the return (enter) key.

You should see the iNavConnect login page as shown below.



**NOTE** - If the screen that you are seeing has two entry boxes; Username and Password, then your unit has the original iNavConnect firmware and it is recommended that you update to the latest firmware, as detailed in Tech Note 00031-2012.

Login by typing the password "inavconnect" (all lower case) without the quotation marks in to the Password box and then click the *Login* button.

Assuming you have typed the password correctly, you should now be logged in and be able to see the **Overview** page as shown in the next image ...

iNavConnect - Overview ×				
→ C ▲ ③ 10.0.0.1/cgi-b	oin/luci			z
				Change
Basic Status System Net	work Logout			<u></u>
Overview Basic Setup Flash	n Firmware Reboot			
tatus				
System				
Router Name	iNavConnect			
Firmware Version	iNavConnect	V2.00		
Local Time	Thu Sep 8 16	:13:47 2011		
Uptime	0h 30m 0s			
Network				
IPv4 WAN Status	? Not conn	rected		
DHCP Leases				
Hostname	IPv4-Address	MAC-Address	Leasetime remaining	
paulsmacbook	10.0.0.125	00:17:f2:ee:c0:ab	11h 31m 31s	
PaulsTosh-PC	10.0.183	b8:70:f4:5e:cc:67	11h 30m 48s	
Wireless Generic 802.11bgn Wireless C	Controller (radio0) SSID: Mode: Chann 98% Bitratr BSSID	NavConnect Master el: 11 (2.46 GHz) a: 39 Mb/s F: F8:D1:11:14:D2:26:CC		

On the upper sets of Tabs, click on the **Basic Setup** tab and you will see the page shown below...

🕥 iNavConnect - Basic Set	up ×						
· → C fi ③ 10	0.0.0.1/cgi-bin/luci/;stok=6c	aa6cfbe6c6a7	ecd94e1942	78849869/ac	lmin/basic/setup/		\$
GITAL							Change
АСНТ							
Basic Status S	ystem Network Logo	.t					
Overview Basic S	etup Flash Firmware Reb	pot	_	_			_
Wifi Setup							
Wireless Overvi	ew						
Generic 8 Channel: 1	1 (2.462 GHz)   Bitrate: 39 Mb	oller (radio0) /s	)				
	: iNavConnect   Mode: Master					Disable 📝	Eula
91% BSSI	D: F8:D1:11:4D:26:CC   Encry	ption: mixed W	PA/WPA2 PSK	(TKIP, CCMP)		Ulsable 🖉	Edit
Associated static	MAC	Address	Signal	Noise	RX Rate	TX Rate	
iNavConnec	t 00:17:F2:EE:C0:AB	?	-46 dBm	-95 dBm	1.0 Mbit/s, MCS 0, 20MHz	39.0 Mbit/s. MCS 4. 7	OMHz
	00.17.12.00.00	,	-40 000	-55 Gom	1.0 Mbios, MCD 0, 20Miz	5510 Hore a, Hore 4, a	:omnz
wered by Digital Yach	it Ltd.						

On the right hand side of the main window, click on the **Edit** button and you will see the screen below...

) iNavConnect - Basic Setup ×	
→ C 🖌 🕓 10.0.0.1/cgi-bin/luci/;stok	c=6caa6cfbe6c6a7ecd94e194278849869/admin/basic/setup/radio0.network1/ 🙀
	Changes:
Basic Status System Network	Logout
Overview Basic Setup Flash Firmware	Reboot
Wifi Setup	
Wireless Network: Master "iNavCo	nnect" (wlan0)
Ine Device Configuration section covers physic all defined wireless networks (if the radio har Interface Configuration.	al sectings of the radio naroware such as chainnei, transmit power or antenna selection writion is shared among dware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the
General Setup	
Status	Mode:         Master         I SSID:         NavConnect.           Image:         BSSID:         F8:01:1140:25:CC [ Encryption:         mixed WPA/WPA2 PSK (TKIP, CCMP)           Signal:         -40 dem [ VarPower: 18 dBm         Signal: -40 dBm [ Noise: -95 dBm           Bit Rate:         -30.0 MB(z) [ Country: US
Channel	11 (2.462 GHz)
Country Code	US - United States US - United States Use ISO/IEC 3166 alpha2 country codes.
Interface Configuration	
General Setup	
ESSID	iNavConnect
Mode	Access Point
Hide ESSID	
Encryption	WPA-PSK/WPA2-PSK Mixed Mode
Encryption Cipher	WPA-PSK/WPA2-PSK Mixed Mode  auto

If you have not already done so, select the correct country code for the iNavConnect. After selecting the correct country from the drop down list, click on the **Save** button at the bottom of the page.

Now change the "ESSID" field to a name for your network. In the example below I have used "Test SSID", but for maximum compatibility with wireless devices, it is better if you avoid the use of spaces and other special characters. If you want a multiple word SSID, use the underscore character i.e. Test\_SSID

	And the local local local		×
/	iNavConnect - Basic Setup ×		
+	→ C ☆ ③ 10.0.0.1/cgi-bin/luci/	stok=6caa6cfbe6c6a7ecd94e194278849869/admin/basic/setup/radio0.network1	3 2
	Overview pasic Secup Flash Filling	IS NOUVL	
	Wifi Setup		
	Manalana Madamalan Mandara Weblar	-Commont" (vile - C)	
Ľ	Treless Network: Master Inav	connect (wiand)	-
Tia	he Device Configuration section covers pl II defined wireless networks (if the radio	hysical settings of the radio hardware such as channel, transmit power or antenna selection which is shared among hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the	
"	terrace comparation.		
	Device Configuration		
	General Setup		
	Status	Mode: Master   SSID: Test SSID BSSID: F8:D1:11-02-SCC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11 (242 GHz)   Tx-Power: 20 dBm <sup>0%</sup> Signal: 0 dBm   Noise: -9 dBm Bit Rate: 0.0 MBit/s   Country: GB	
	Channel	11 (2.462 GHz)	
	Country Code	GB - United Kingdom	
		Use ISO/IEC 3166 alpha2 country codes.	
	Interface Configuration		- 1 P
	General Setup		
	ESSID	Test SSID	
	Mode	Access Point	
	Hide ESSID		
	Encryption	WPA-PSK/WPA2-PSK Mixed Mode	
	Cipher	auto	
	Key	🔑 test 1234	
		◎Reset Save 3 Apply	2
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After setting the SSID, change the "Key" field to set the password. Click on the two green arrows icon to the right of this entry box to display the password that you have typed, rather than \*\*\*\*\*\*.

Once the SSID and Password have been entered, click on the **Save+Apply**" button at the bottom of the page. The page will now refresh and at the top of the page it will say "Collecting Data" as it analyses the changes made and then you will see a rotating timer type icon and a message that says "Applying Changes". After about 15-20 seconds the changes are applied and the iNavConnect will reboot with the new settings.

You should see a screen like the one below with the new SSID displayed and the new password shown with the \*\*\*\*\*\*. You can click the two green arrows icon to read the password and make sure it is correct.

→ C ▲ ③ 10.0.0.1/cgi-bin/luci/;sto	ok=6caa6cfbe6c6a7ecd94e194278849869/admin/basic/setup/radio0.network1	公
	Cha	nges:
Basic Status System Network	Logout	
Overview Basic Setup Flash Firmware	Reboot	
Wifi Setup		
Wireless Network: Master "Test"	(wlan0)	
Device Configuration		
Status	Mode: Master   SSID: Test SSID BSSID: F8:D1:11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11 (2:462 dite) ] Trx-Power: 20 dBm 6% Signal: 0 dBm   Molse: 95 dBm Bit Rate: 0.0 MB(b/s) Country: GB	
Status	Mode: Master   SSID: Test SSID BSSID: F8:D1:11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11 (2:462 GHz) Tix-Power: 20 dBm Bit Rate: 0.MBit/s i Country: GB 11 (2:462 GHz)	
Status Channel Country Code	Mode: Master   SSID: Test SSID BSID: F8:D1:11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11 (24:26 CH2) Tix-Power: 20 dBm Bit Rate: 0.MBit/s   Country: GB 11 (24:26 CH2) B - United Kingdom	
Status Channel Country Code	Mode: Master   SSID: Test SSID SSID: F8:D1: 11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11:24:56 (Hz)   To Fevere: 20 dBm 0 Bit Rate: 0.0 MBK/s   Country: CB 11:24:26 CH2) 0 11:24:26 CH2) 0 0 0 0 0 0 0 0 0 0 0 0 0	
Status Channel Country Code Interface Configuration	Mode: Master   SSID: Test SSID Channel: 12:442 GHz) Bit Rate: 0.0 MBK/s   Country: GB 112:442 GHz) GB - United Kingdom GB - United Kingdom W Use ISO/IEC 3166 alpha2 country codes.	
Status Channel Country Code Interface Configuration General Setup	Mode: Master   SSID: Test SSID ■ BSSID: F8:D1: 11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 12:445 GH2   Tre Power: 20 dbm Bit Rate: 00.MBX/s   Country: 68 11:[2:462 GH2] ■ GB - United Kingdom ■ GB - United Kingdom ■ ■	
Status Channel Country Code Interface Configuration General Setup ESSID	Mode: Master   SSID: Test SSID BSSID: F8:D1: 11:40-26:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11: (24:62 Hz)   Trx-Power: 20 dBm Bit Rate: 0. MBR/s   Country: G8 11: (24:2 GHz) (GB - United Kingdom (GB - United Kingdom) (GB - U	
Status Channel Country Code Interface Configuration General Setup ESSID Mode	Mode: Master   SSID: Test SSID SSID: F8:D1: 11:4-26 (HC)   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 11:2-456 (HC)   To Fewer: 20 dBm Bit Rate: 0.0 MBK/s   Country: CdB 11:2:426 CH2) Bit Sale: 0.0 MBK/s   Country: CdB 11:2:426 CH2) Bit Solid: 11:2:426 (HC) Bit Solid: 11:2:426 (HC) Bi	
Status Channel Country Code Interface Configuration General Setup ESSID Mode Hide ESSID	Mode: Master   SSID: Test SSID BSSID: F8:D: 13:14:02-85:CC   Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 112:4426 (Hz) / Tk Power: 20 dbm BB Rate: 0.0 MBR/s   Gountry: GB 112:442 GHz) GB - United Kingdom GB - United Kingdom CB - United Kingdom	
Status Channel Country Code Interface Configuration General Setup ESSID Mode Hide ESSID Encryption	Mode: Master   SSID: Test SSID Channel: 12.426 CHz   Terryption: mixed WPA/WPA2 PSK (TKIP, CCMP) Channel: 12.426 CHz   Tre Power: 20 dbm Bit Rate: 0.0 MBX/s   Country: GB 11/2.426 CHz   • GB - United Kingdom • Use ISO/TEC 3166 alpha2 country codes. Test SSID Access Point • WPA-PSK/WPA2-PSK Mixed Mode •	

Changing the wireless password does not change the password you use to login to the iNavConnect web interface which will remain as "inavconnect".

If you forget your new wireless password, you can easily repeat this process and change it to another password or check the one that you have set, by connecting the PC to the iNavconnect via the network cable and logging in to the web interface again.

It is strongly recommended that you do not make any other changes to the iNavConnect settings unless you are experienced in computer networks. Digital Yacht cannot support problems that are caused by changes to our default/recommended iNavConnect settings.

If you wish to reset the iNavconnect to the factory default settings, click on **System>Backup/Flash Firmware** and then click on the **Perform Reset** button.