

TECHNICAL NOTES



Article Number - 00031-2012

Date - 15th June 2012

Article applies to - iNavConnect

ISSUE: Upgrading an iNavConnect to the latest Firmware

Occasionally new versions of iNavConnect firmware are released to improve performance, fix reported bugs, etc. It is recommended that iNavConnect owners update their unit whenever new firmware is released to ensure they have the latest version. The latest Firmware is available to download from the Support section of our website <u>www.digitalyacht.co.uk</u>

This Tech Note, explains how to update the iNavConnect to this latest firmware and will also be applicable for any other future Firmware Updates that Digital Yacht release.

SOLUTION:

Assuming that you have a network connection between your PC and the iNavConnect, 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...it should be noted that the two boxes Username and Password were used on the original firmware, later firmware just have a password box.

 ← → C ♣ O 10.0.1/cgi-bin/luci Yahoo Bookmarks Digital Yacht & Digital Yacht Admin 2 MPL O Citrix 2 DV Project System Authorization Required Please enter your username and password. Username Password 	ත් 遵
Y shoo Bookmarks I Digital Yacht I Digital Yacht Admin 2 MPL I Citrix 2 DV Project Sys ICHTAN ACHT Authorization Required Please enter your username and password. Username Password I Sername Password I Sername I Sername	m 🗋 Other bookm
Authorization Required Please enter your username and password. Username Password Password	
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Authorization Required Please enter your username and password. Username Password Password Password	
Variation recurred	
Jeserane Grot	
Username Goot	
Password	
	@Reset DLogin

Leave the Username = root and type "inavconnect" (all lower case) without the quotation marks in 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 ...

S iNavConnect - Overview - L ×		
← → C ff ⑤ 10.0.1/cgi-bin/luci/;stol	======================================	r a 🔹 🔧
🔇 Yahoo Bookmarks 🗾 Digital Yacht 🔇 Digital Ya	cht Admin 🛯 MPL 🔇 Citrix 🔄 DY Project System	C Other bookmarks
		Changes: 0 🔶
Status System Network Logout		
Overview Firewall Routes System Lo	g Kernel Log Processes Realtime Graphs	
Status		
System		
Router Name	iNavConnect	
Firmware Version	iNavConnect V1.00	E
Local Time	Thu Sep 8 15:54:28 2011	
Uptime	0h 10m 40s	
Load Average	0.53, 0.42, 0.23	
Memory		
Total Available	19236 kB / 29524 kB (65%)	
Free	11356 kB / 29524 kB (38%)	
Cached	6024 kB / 29524 kB (20%)	
Buffered	1856 kB / 29524 kB (6%)	
Network		
IPv4 WAN Status		
	? Not connected	
Active Connections	296 / 16384 (1%)	
DHCP Leases		
Hostname IPv4-A	idress MAC-Address	Leasetime remaining 🗾 👻

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

(iNavConnect - System - Lu(×		
← → C ☆ ③ 10.0.0.1/cgi-bin/luci/;stok=75a9814db081	a554732df25f1b8dd802/admin/system/	🔂 💩 🔧
🔇 Yahoo Bookmarks 🚺 Digital Yacht 🔇 Digital Yacht Admin 🔬 MPL	🔇 Citrix 🔬 DY Project System	C Other bookmarks
		Changes: 0
YACHT		
Status System Network Logout		
System Administration Software Startup Scheduled T	asks LED Configuration Backup / Flash Firmware Reboot	
System		
Here you can configure the basic aspects of your device like its	hostname or the timezone.	
System Properties		
General Settings Logging Language and Style		
Local Time	Thu Sep 8 15:55:02 2011 Sync with browser	
Hostname	iNavConnect	
Timezone	UTC	
Time Synchronization		
Enable builtin NTP server		
NTP server candidates	1.openwrt.pool.ntp.org	
	2.openwrt.pool.ntp.org	
	3.openwit.pool.ntp.org	
	Reset 2	Save Dave & Apply
10.0.0.1/cgi-bin/luci/;stok=75a9814db081a554732df25f1b8dd802/admin/system	/flashops/	

On the lower set of Tabs, click on the Backup/Flash Firmware tab and you will see the screen below...

🔇 iNavConnect - Backup / Fla ×		
← → C ☆ ③ 10.0.0.1/cgi-bin/luci/;stok=75a98	814db081a554732df25f1b8dd802/admin/system/flashops/	A 🔒 🔧
🔇 Yahoo Bookmarks 🛛 Digital Yacht 🔇 Digital Yacht Admi	n 🔬 MPL 🔇 Citrix 🔬 DY Project System	C Other bookmarks
YACHT		Changes: 0
Status System Network Logout		
System Administration Software Startup So	heduled Tasks LED Configuration Backup / Flash Firmware Re	boot
Flash operations		
Actions Configuration Backup / Restore Click "Generate archive" to download a tar archive of squashfs images).	the current configuration files. To reset the firmware to its initial state, click	د "Perform reset" (only possible with
Download backup:	Generate archive	
Reset to defaults:	Perform reset	
To restore configuration files, you can upload a previo	ously generated backup archive here.	
Restore backup:	Choose File No file chosen	
Flash new firmware image Upload a sysupgrade-compatible image here to repla compatible firmware image). Keep settings:	ce the running firmware. Check "Keep settings" to retain the current configu	iration (requires an iNavConnect
Image:	Choose File No file chosen IFlash image	

Click the Choose File button and the following window will appear...

	w tolder					100	
☆ Favorites	^	Name	Date modified	Туре	Size		
E Desktop		iNavConnect_Firmware_v1.0.0_v4_201203	24/03/2012 13:19	BIN File	3,840 KB		
 Downloads Dropbox Magic Briefca Recent Places 	se						
Desktop 🕞 Libraries							
Music							
Pictures							
Fictures Videos Homegroup Paul							

Select the Latest iNavConnect Firmware file (it will have a .BIN file extension) from whichever folder you downloaded and unzipped it to. Click the *Open* button and you will be returned to the previous page with the file Firmware file that you have selected displayed...

🔇 iNavConnect - Backup / Fla X			
← → C ♠ ③ 10.0.1/cgi-bin/luci/;stok=75a9814d	lb081a554732df25f1b8dd802	/admin/system/flashops/	g 🕹 🔧
🔇 Yahoo Bookmarks 🗾 Digital Yacht 🔇 Digital Yacht Admin 🍃	🖞 MPL 🔇 Citrix 🔬 DY Project S	ystem	🗀 Other bookmarks
YACHT			Changes: 0
Status System Network Logout			
System Administration Software Startup Schedu	led Tasks LED Configuration	Backup / Flash Firmware	Reboot
Elach operations			
Backup / Restore Click "Generate archive" to download a tar archive of the squashfs images).	current configuration files. To rese	t the firmware to its initial state	e, click "Perform reset" (only possible with
Download backup:	Generate archive		
Reset to defaults:	Perform reset		
To restore configuration files, you can upload a previously	generated backup archive here.		
Restore backup:	Choose File No file cho	osen Dyload arch	ive
Flash new firmware image Upload a sysupgrade-compatible image here to replace th compatible firmware image). Keep settings:	e running firmware. Check "Keep	settings" to retain the current c	onfiguration (requires an iNavConnect
Image:	Choose File iNavConne	ectfactory.bin 🔲 Flash imag	e
Powered by Digital Yacht Ltd.			

<u>IMPORTANT - Make sure you un-tick the "Keep Settings" box, which ensures that iNavConnect is reset to</u> <u>the factory defaults and avoids any strange/wrong settings being retained.</u>

Click the *Flash Image* button and the router will verify the file and display the following page...

j iNavConnet - Backup / Fla ×	
→ C f (\$ 10.0.1/cgi-bin/luci/;stok=75a9814db081a554732df25f1b8dd802/admin/system/flashops	ය a
/ahoo Bookmarks 🛛 Digital Yacht 🔇 Digital Yacht Admin 🔬 MPL 🔇 Citrix 🔬 DY Project System	C Other bookma
	Changes
Status System Network Logout	
System Administration Software Startup Scheduled Tasks LED Configuration Backup / Flash Firmware Reboot	
Flash Firmware - Verify	
Checksum: 6406732842b34366bb677bd67185c Size: 3757 MB (381M B4 available) Configuration files will be kept.	Cancel Proceed
	Cancel Proceed
vered by Digital Yacht Ltd.	

Click the Proceed button and the upload will start and display the following page.

/iNavConnect - Flashing ×	
→ C f (§ 10.0.0.1/cgi-bin/luci/stok=75a9814db081a554732df25f1b8dd802/admin/system/flashops	ය <mark>a</mark> -
(ahoo Bookmarks 📲 Digital Yacht 🔇 Digital Yacht Admin 🔬 MPL 🔇 Citrix 🔬 DY Project System	📋 Other bookma
stem - Flashing	
he system is flashing now. JO NOT POWER OFF THE DEVICE! I'vita form ainter will one to be accessed. It might be accessed to concern the address of user computer to each the during accise dama di	or on your cattings
van a tew minimes uum you u yo reconnect. It migin oe necessary to renew me address of your componer to reach me device again, dependin Valling for router	ig on your security.

Once the process has completed, the iNavConnect will reboot, which is indicated by the Windows Network icon changing from connected to disconnected and then back to connected again.

Assuming that your computer reconnects to the iNavConnect wireless network again automatically, the browser should display the **Log In** page again once the upload has completed and iNavConnect has rebooted. If the page has not refreshed itself automatically after 4-5 minutes, then type "10.0.0.1" in to the address bar again and press Enter. The Log In page below should then be displayed.

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TACHT					
iNavConne	ect Login				
Password		P			
					Reset Login
Powered by Dig	tal Yacht Ltd.				

The iNavConnect firmware is now updated.