

SeaSmart.net Firmware can be updated by FTP file transfer. This App Note describes how to use built-in Windows FTP client (XP/Vista/7) to upload new firmware files to target SeaSmart.net adapters.

Modification of adapter firmware files should not be performed while SeaSmart.net adapters are connected to an active NMEA 2000 bus. To ensure no NMEA 2000 data is being processed, disconnect the 4-pin NMEA 2000 drop cable. Since the adapters are self-powered from the NMEA 2000 bus, it will be necessary to connect the supplied USB cable to a suitable power supply for the adapter during the update. Normally this can be any PC/Laptop but a 5 Volt USB AC adapter will also work for this purpose. The update process does not require a USB data connection.

Once the adapter is powered by the USB port, enter the device address in the Browser to log into the Home page.



Select the **ADAPTER SETUP** link at the bottom of the page.



Favorites	SeaSmart.Net Web Man	• 🖄 🦘 ㅅ		▼ Page ▼ Safety ▼	
SeaSn	nart.Net			WiFi Adapter	
Status 🔂 Sea Smart Web	Device Status				
File Upload	Product Information				
Network Setup	Product Type:	SeaSmart WiF	i adapter		
System Doct Mode	Firmware Version:	5.2.0.0R23.11.	12.29.1		
Full Config	Build Date:	Feb 3 2011 (11	:11:04)		
	Serial Number:	07102317J7IU	GO		
	Uptime:	0 days 00:01:2	0		
	Permanent Config:	Saved			
	Region:	United States			
	Network Settings				
	Interface:	wlan0			1
	Link:	ESTABLISHED)		
	MAC Address:	00:20:4a:c0:d1	:a0	1	
	Hostname:	SeaSmartWiFi			
	IP Address:	192.168.0.66/2	4	1	
	Default Gateway:	<none></none>		1	
	Domain:	<none></none>		1	
	Primary DNS:	<none></none>		1	
	Secondary DNS:	<none></none>			
	MTU:	1500			
	VIP Conduit:	Disabled			
	Line Settings				
	SeaSmart:	RS232, 57600	None, 8, 1, None		
	Log:	RS232, 57600, None, 8, 1, None			L
	Tunneling	Connect Mode	Accept Mode		
	Tunnel 1:	Disabled	Disabled		
	Tunnel 2:	Disabled	Disabled		

Under Device Status - view current firmware information to determine if update is needed



New firmware file can be uploaded by FTP transfer. There are many applications that support FTP file transfer. This App not will use the built-in capabilities of Windows OS platforms (Windows XP/Vista/7).

Enter the SeaSmart Adapter IP Address



Enter ftp://[the adapter IP address]



Under PAGE – Open in Windows Explorer

Box 5359 Brookings, OR 97415 541-469-4783



SeaSmart Firmware Update via FTP

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Favorites	Suggested Sites ▼ als In FTP root at 192.1 ×	A ■ 00090	▼ Page ▼ Safety ▼
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Allow the Site to be Open in Explorer



Enter username "admin" and password "seasmart"



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Granze V V V	Organize Open Burn New folder Http FirmWare_52:00R23:12:11:4.bt FirmWare_52:00R23:12:11:4.bt wersion
1 item	matchport_bg_pro.romz Date modified: 1/12/2012 2:16 PM ROMZ File Size: 795 KB

The SeaSmart Update folder will contain a text file with release notes and firmware version information. It is not necessary to copy the Release Notes file.



The firmware file name will end with a .romz or rom.gz extension. This the file to be copied to the SeaSmart.net root folder

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SeaSmart Firmware Update via FTP



The Web Content folder does not need to be copied if only doing a firmware update. If also performing an update of the Web Content it is recommended to first reformat the SeaSmart.net adapter file system then FTP copy the complete Http folder from the update directory.



Right click the source firmware file and select COPY



SeaSmart Firmware Update via FTP

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Organize 👻	· •	0	Organize 🕶 📄 Open Burn	New folder	· · · · · ·
Http SeaSmart	View · Sort bw · Group by Refesh · Paste · Paste shortcut Uogin As New · Properties		Htp	FirmWare_5.2.0.0R2	23.12.1.124.bxt
Root Directo	ory				
			matchport_bg_pro.romz		
9 1 item			matchport_bg_pro.romz	Date modified: 1/12/2012 2:16 PN	1

Right Click the destination SeaSmart.net adapter folder and select PASTE

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Organize •	 ✓ ↔ Search 192.168.0.66 ✓ ✓ ✓ 	Organize •	≪ Files (O:) ► SeaSma Open Burn	rt • SeaSmart_WiFi_Update • New folder	
Root Directo	Copying Copying 'matchport_bg_prot From 'O\SeaSmart\SeaSmart_WiFi_U	pdate' to '/	ancel	FirmWare_520.0	R23121124.bt
		match	port_bg_pro.romz	7 Data modified: 1/12/2012 2:16	

A progress dialog will appear while the copy operation is performed

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Http	matchport_bg_pro.romz		Http		FirmWare_5.2.0.0R	23.12.1.12.4.txt
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2 items			ROMZ File	bg_pro.romz Date	modified: 1/12/2012 2:16 Pl Size: 795 KB	M

Once the copy is complete, the firmware file will temporally show at the destination site. It will automatically be deleted after the SeaSmart.net adapter has processed the file and rebooted. Refresh the SeaSmart.net Root Directory to verify the file has been processed.





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SeaSn	nart.Net			WiFi Adapter	
Status 🏼 🖓 Sea Smart Web	Device Status				
ile Upload	Product Information				
System	Product Type:	SeaSmart WiFi a	dapter		
Port Mode	Firmware Version:	5.2.0.0R23.12.1.	12.4		
ull Config	Build Date:	Feb 3 2011 (11:1	1:04)		
	Serial Number:	07102317J7IUG)		
	Uptime:	0 days 00:00:04			
	Permanent Config:	Saved			
	Region:	Region: United States			
	Network Settings				
	Interface:	wlan0			
	Link:	ESTABLISHED			
	MAC Address:	00:20:4a:c0:d1:a	0		
	Hostname:	SeaSmartWiFi			
	IP Address:	192.168.0.66/24			
	Default Gateway:	<none></none>			
	Domain:	<none></none>			
	Primary DNS:	<none></none>		1	
	Secondary DNS:	<none></none>			
	MTU:	1500			
	VIP Conduit:	Disabled			
	Line Settings				
	SeaSmart:	RS232, 57600, N			
	Log:	RS232, 57600, N	Ione, 8, 1, None		
	Tunneling	Connect Mode	Accept Mode		
	Tunnel 1:	Disabled	Disabled		
	Turned Dr.	Dischlad	Dicabled		

Once the adapter has rebooted, refresh the Browser with the adapter address and reload the home page Use the ADAPTER SETUP link to view the version information on the Status page and verify that it matches the information from the Release Notes file

Once FTP File up load has been successfully confirmed, remove the USB power and reconnect he 4-pin NMEA 2000 drop cable to reestablish connection to the NMEA 2000 bus.



Enter the adapter address in the Browser and select the gauge graphic to view live NMEA 2000 data (link time should be updating)

🧭 SeaSmart N	IMEA 2000 Single Engine Data - Windows Internet Explorer
🔶 Favorites	SeaSmart NMEA 2000 Single
	Single Engine 1
Home	Weather Single Single Dual Engine Batteries Fuel Info Switch Infi Engine 1 Engine 2
P	
LINK TIM	IE: 262272 seconds IE: Sat, 29 Jan 2000 04:58:23 UTC
)(•.•)
	Engine RPM Fuel Rate
	Engine Temp
149) (73)
	Oil PSI Fuel PSI
0.0	
·	
	Internet Protected Mode: On