

SAILOR 4300 for Iridium Certus

KVH Configuration and Activation Instructions



Important!

Before you begin, you must first install the SAILOR 4300 system as described in the Installation and Maintenance Manual. Download the latest version of this manual, along with the SAILOR 4300 firmware update and BDU configuration files from the KVH Partner Portal (www.kvh.com/partners).

The following supplemental instructions explain how to configure and activate the SAILOR[®] 4300 system for Iridium Certus[®] service from KVH.

Step 1 - Connect the Analog Phone

KVH provides an ATA (analog telephone adapter) with the system to allow you to connect a standard analog telephone. Follow these steps and refer to Figure 1 to connect the phone.

- Using the supplied Ethernet cable, connect the "LAN" port on the BDU to the "Internet" port on the ATA.
- Using an RJ11 phone cable, connect the analog phone to the "Phone 1" jack on the ATA.
- If the customer requires a second phone line, connect a second analog phone (not supplied) to the "Phone 2" jack on the ATA.
- Using the supplied adapter, connect the ATA to the vessel's AC power.

Step 2 - Connect to the KVH System

If the SAILOR 4300 will be used as a backup to a KVH TracNet[™] or TracPhone[®] system, connect any LAN port on the BDU to the designated Ethernet port on the TracNet system's Hub+ or Hub or the TracPhone system's ICM (see example in Figure 2). KVH's Field Service department may provide a network diagram showing the port number for your configuration. On the Hub+/Hub, Ethernet port 3 is normally assigned the "Backup WAN" connection in compatible port configurations (see Step 8 on [page 5](#)).

Figure 1: Analog Phone Connection

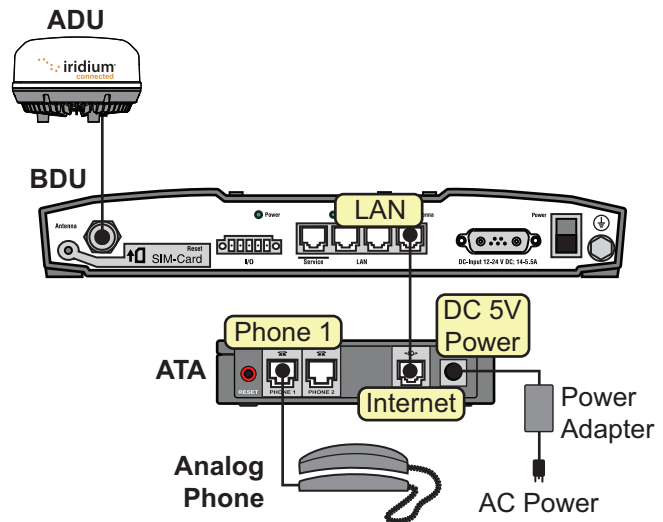
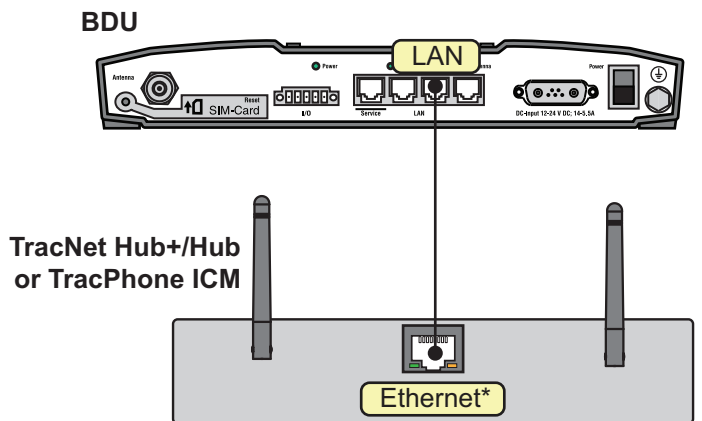


Figure 2: KVH Hub+/Hub or ICM Connection (Example)



* Normally port 3 on Hub+/Hub or port 4 on ICM

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Step 3 - Install the SIM Card

You can find the Iridium Certus SIM card in the Welcome Kit. Follow these steps and refer to Figure 3 to install it in the BDU.

- Pull back the cover from the SIM card slot.
- Make sure the slot's locking tab is slid all the way to the right.
- Insert the SIM card with the chip side facing down. Press gently until it clicks into place.
- Slide the locking tab to secure the SIM card. Then press the protective cover back into place.

Step 4 - Update the Firmware

Follow these steps to upload the latest firmware update you downloaded from the partner portal.

- Apply power to the system at the BDU power switch. Wait one minute for initialization (until Power and Terminal lights are lit green).
- Connect your laptop PC to the "Service" port on the BDU using an Ethernet cable (see Figure 4).
- In a web browser, enter <http://192.168.0.1>.
- At the service web interface, go to the **Administration > Login** page and log in as an administrator. The default user name is **admin**. The default password is printed on a label on the BDU.

Important!

Do not change the password. KVH records the default password for remote diagnostics.

- Go to the **Service > Firmware** page (see Figure 5).
- If the displayed current version is not the latest, click **Browse**. Then select the update file on your laptop (it has a .tiif extension).
- Click **Upload**. The system will import the new firmware and restart; the web page will reload.

Important!

Do not browse away from the Firmware upload page. Doing so will terminate the update.

Figure 3: SIM Card Slot

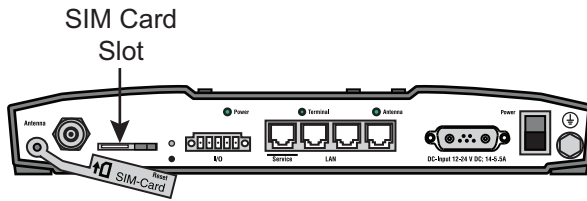


Figure 4: BDU Service Port

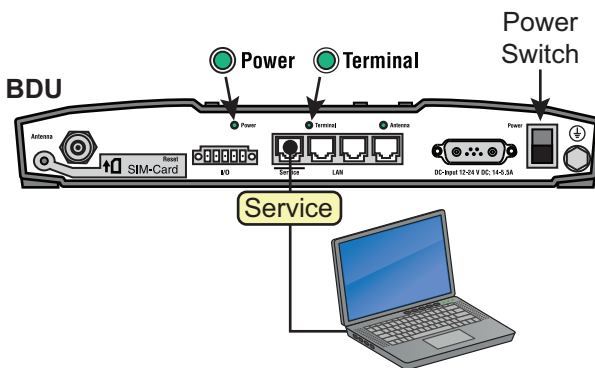


Figure 5: Firmware Page of Service Web Interface

DASHBOARD	FIRMWARE
SETTINGS	Current version: 1.03 build 322
SERVICE	Alternative version: 1.03 build 322 Switch to this version
Firmware	Upload firmware:
ADMINISTRATION	<input type="button" value="Browse..."/> No file selected. <input type="button" value="Upload"/>
HELPDESK	DISCLAIMER FOR DOWNLOADING AND UPLOADING SOFTWARE
SITE MAP	Thrane & Thrane A/S is trading as Cobham SATCOM. Downloading and installing software from the Cobham SATCOM web portal is at your own risk.

Step 5 - Upload the KVH Config File

If the SAILOR 4300 will be used as a backup to a TracNet/TracPhone system, follow these steps to upload the configuration file you downloaded from the partner portal.

- At the service web interface, go to the **Administration > Export/Import Config** page (see Figure 6).
- Click **Browse**. Then select the config file on your laptop (it has a .cfg extension).
- Click **Upload**. The system will import the new configuration settings.
- Turn off the SAILOR 4300 system at the BDU power switch. Then turn it back on. The new KVH settings will now take effect.

NOTE: The default network for Iridium Certus data and voice traffic will remain 172.16.0.0/24.

Step 6 - Customize the Hostname

Follow these steps to change the default hostname that is shown on the web interface and reported in the system log.

- At the service web interface, go to the **Settings > Network** page (see Figure 7).
- In the Hostname text box, enter the vessel name.
- Click **Apply**.

Figure 6: Export/Import Config Page of Service Web Interface

DASHBOARD	EXPORT/IMPORT CONFIG
SETTINGS	After importing, reboot terminal for the new configuration to take effect.
SERVICE	EXPORT TO FILE
ADMINISTRATION	Export
Login	IMPORT FROM FILE
Guest permissions	Browse... No file selected. Upload
• Export/import config	
Factory default	

Figure 7: Network Settings Page of Service Web Interface

DASHBOARD	The system will be rebooted when new settings are applied.
SETTINGS	NETWORK
• Network	NETWORK
Data	Hostname <input type="text" value="bdu"/>
Voice	SERVICE PORT
Reporting	Mode <input type="text" value="Static"/>
Services	IP address <input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="0"/> <input type="text" value="3"/>
	Netmask <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="0"/>
	DHCP server enabled <input type="checkbox"/>

Step 7 - Change the IP Address

Important!

This step only applies if the SAILOR 4300 will be used as a backup to a TracNet H-series system (it is connected to a Hub+ or Hub). Otherwise, skip this step.

If the SAILOR 4300 will be used in a TracNet H-series configuration, follow these steps to change the gateway IP address to 198.19.56.1.

- a. At the service web interface, go to the **Settings > Network** page (see Figure 8).
- b. Under Post-Paid Data Flow, change the first three octets of the following IP addresses to **198.19.56**:
 - DHCP server/gateway address
 - DHCP range start
 - DHCP range end
 - Web server address
- c. Click **Apply**.

Figure 8: Network Settings Page of Service Web Interface

SETTINGS	NETWORK
• Network	Hostname: bdu
Port setup	LAN PORTS
Data	Service Port User P
Voice	SERVICE PORT
Reporting	Mode: Static
Services	IP address: 192.168.0
SERVICE	Netmask: 255.255.255
ADMINISTRATION	DHCP server enabled: <input checked="" type="checkbox"/>
HELPDESK	DHCP range start: 192.168.0
SITE MAP	DHCP range end: 192.168.0
	POST-PAID DATA FLOW
	VLAN ID on Service Port: 3
	DHCP server/gateway address: 198.19.56
	Netmask: 255.255.255
	DHCP range start: 198.19.56
	DHCP range end: 198.19.56
	Web server address: 198.19.56
	Web Interface enabled: <input checked="" type="checkbox"/>

Step 8 - Configure the TracNet System

Important!

This step only applies if the SAILOR 4300 will be used as a backup to a TracNet H-series system (it is connected to a Hub+ or Hub). Otherwise, skip this step.

For the SAILOR 4300 to be used as a backup to a TracNet H-series system, the TracNet system must be set to a port configuration that includes a “backup WAN” port assignment. Go to the Port Configuration page of the TracNet system’s web interface or KVH Manager to view/change the port configuration. For more details, refer to the Help available at the web interface or KVH Manager.

Also make sure the SAILOR 4300 BDU is connected to the assigned “Backup WAN” port on the Hub+ or Hub.

Step 9 - Submit the Activation Form(s)

To activate the SIM card for Iridium Certus service, the owner needs to fill out the necessary form. If you are activating Iridium service in conjunction with a new KVH service account, simply fill out the Iridium Certus section of the Airtime Activation Service Order for the complete system. If you already have an active KVH service account, fill out the Iridium Airtime Activation Service Order available at www.kvh.com/iridium. Email the completed form to airtimeservices@kvh.com.

NOTE: You will need the system’s IMEI number to activate. You can find the IMEI on the Dashboard page of the service web interface (see Figure 10) or on the bottom of the ADU. You will also need the SIM card number, which is printed on the back of the SIM card itself, as well as the credit-card-sized card that carried it.

Figure 9: TracNet H-series Port Configuration (Example)

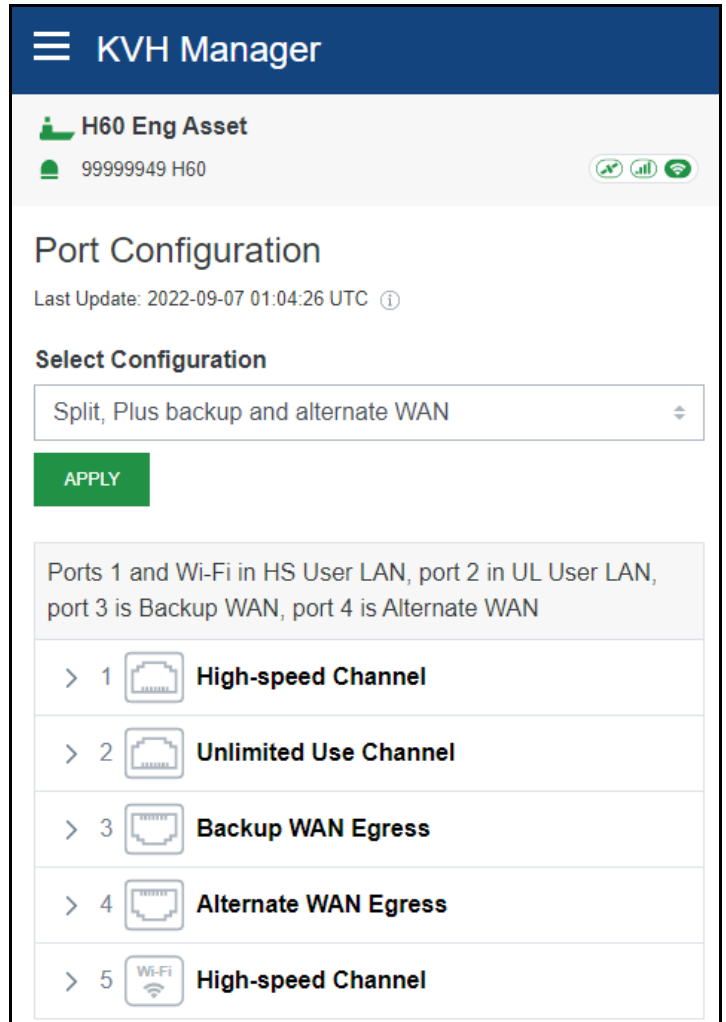


Figure 10: Dashboard of Service Web Interface

