

Before Converting a TracPhone V7IP to V7HTS Understanding the Network Configuration Changes



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When you convert a TracPhone V7-IP system to a TracPhone V7-HTS, you are effectively installing a new system on your vessel. Although the changes to the antenna are relatively minor, the V7-HTS ICM (Integrated CommBox Modem) differs significantly from the V7-IP. In particular, its network structure and configurations are entirely new. **Be sure you understand these differences prior to performing the conversion. You may need to modify your vessel network accordingly.**

NOTE: For complete details about the V7-HTS system, refer to the Installation Guide or the Help (www.kvh.com/v7htshelp).

Dual Channels for Internet Access

When you activate the V7-HTS, you will need to select one of the new hybrid airtime plans that delivers an unlimited use data channel running at the same time as a high-speed channel. To support these new plans, the ICM's Ethernet ports have been partitioned to provide your vessel with two local area networks (LANs) for Internet access (see Figure 1).

The V7-IP network configurations are not available on V7-HTS. You will need to select one of the new HTS configurations listed in Figure 3 and explained on the following pages.

IMPORTANT!

If your vessel needs a network configuration that is not shown here, such as a dual-dome setup or a custom CommBox configuration, contact KVH Network Services (networkservices@kvh.com) before you perform the conversion. KVH will need to build a new custom configuration for you.

Figure 1: ICM Networks for Dual Data Channels

LAN	Description
High-speed	Fastest speeds; High-speed airtime plan includes an allotment of data usage; overage charges apply
Unlimited	Speeds vary by plan; Unlimited airtime plan; bandwidth management control (BMC) applies

Figure 2: ICM Ethernet Ports and Wireless Access Point

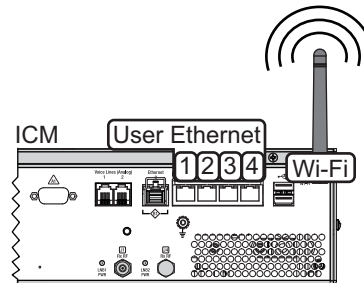


Figure 3: User Selectable Network Configurations

Option	Description
Standard HTS	Port 1: Unlimited LAN Ports 2-4, Wi-Fi: High-speed LAN with access control
Static IP HTS	Port 1: Unlimited LAN Ports 2-3, Wi-Fi: High-speed LAN with access control Port 4: Accessory LAN*
Open Access HTS	Port 1: Unlimited LAN Ports 2-3, Wi-Fi: High-speed LAN with unrestricted access Port 4: Accessory LAN*

* Accessory LAN reserved for optional service, such as Global Static IP, KVH Media Server for IP-MobileCast service, external MTA for additional phone lines, or Crew Calling.

Option 1 – Standard HTS Configuration

In a Standard HTS configuration, Ethernet port 1 provides unlimited Internet access with no user logins or controls. Ports 2 through 4 and the built-in Wi-Fi access point (WAP) require a user login and provide high-speed Internet access.

Option 2 – Static IP HTS Configuration

In a Static IP HTS configuration, Ethernet port 1 provides unlimited Internet access with no user logins or controls. Ports 2 and 3 and the built-in WAP require a user login and provide high-speed Internet access. Port 4 is reserved for an optional KVH service, such as Global Static IP, KVH Media Server for IP-MobileCast service, external MTA for additional phone lines, or Crew Calling.

Option 3 – Open Access HTS Configuration

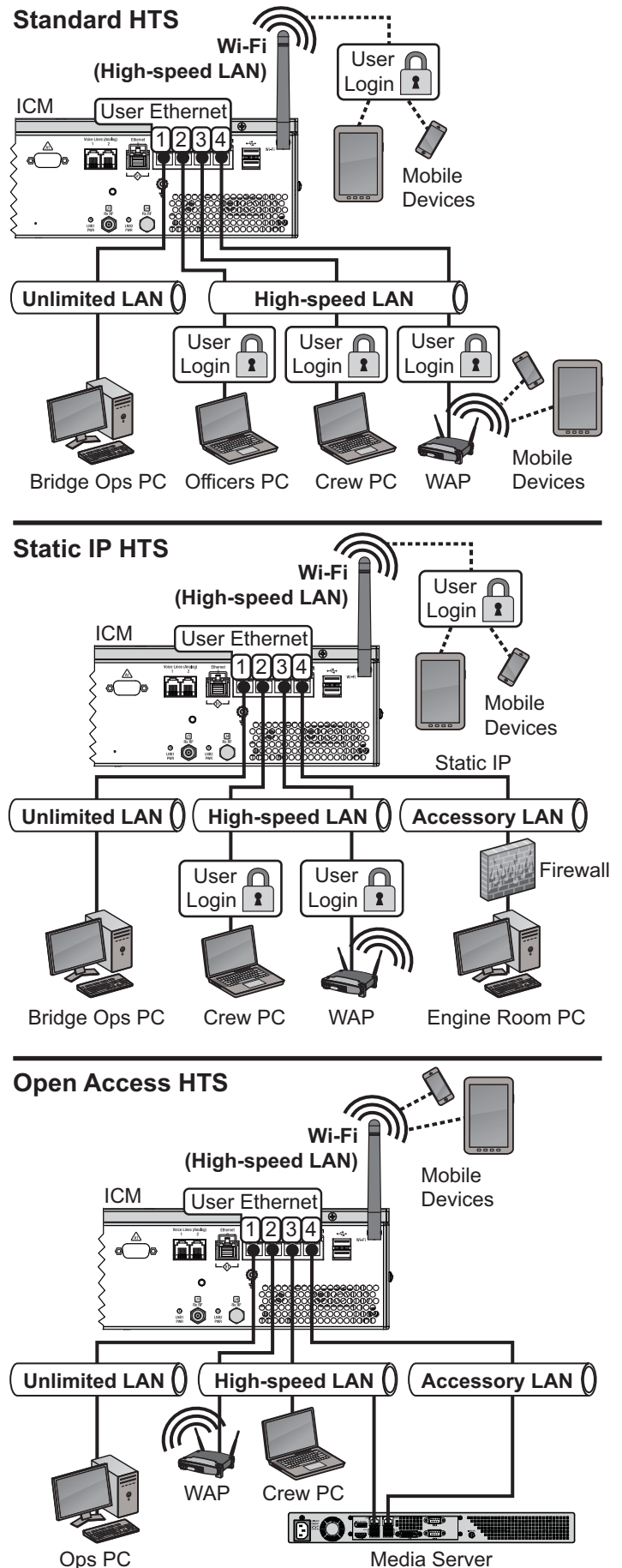
In an Open Access HTS configuration, Ethernet port 1 provides unlimited Internet access, and ports 2 and 3 and the built-in WAP provide high-speed Internet access, with no user logins or controls. Port 4 is reserved for an optional KVH service, such as Global Static IP, KVH Media Server for IP-MobileCast service, external MTA for additional phone lines, or Crew Calling.

This configuration is identical to the Static IP HTS configuration with one exception: user names/ passwords and data allocations are not enforced to control access to the High-speed LAN.

IMPORTANT!

With an Open Access HTS configuration, Internet access is unrestricted. Be sure all users with access to the High-speed LAN understand that usage is metered and overage charges will apply. KVH recommends that you set up email or text message alerts to notify key personnel when your vessel's data usage reaches certain thresholds, and prevent surprises on your airtime bill. You can set up alerts at the mini-VSAT Manager (www.mykvh.com)

Figure 4: Configuration Examples



Setting Up Users and Data Allocations for High-speed LAN Access

If you select either Standard HTS or Static IP HTS configuration, you will need to set up user names and passwords and allocate data for each High-speed LAN user at the mini-VSAT Manager (www.mykvh.com) (see Figure 5).

Global Static IP Service

Since the V7-HTS uses an entirely new satellite network, its Global Static IP service is completely different from V7-IP.

IMPORTANT!

When you convert to V7-HTS, any static IP address configured for the V7-IP will be rendered inoperable. You will need to reapply for a static IP address on the HTS network (visit www.kvh.com/staticIP).

LAN IP Addresses

The gateways for the LANs in all three network configurations have the following IP addresses:

- **Unlimited LAN:** 192.168.5.1
- **High-speed LAN:** 192.168.6.1

Each gateway will assign IP addresses to connected devices via DHCP.

IMPORTANT!

You can change the LAN settings for the High-speed LAN at the V7-HTS web interface (see Figure 6). However, the Unlimited LAN cannot be changed at the web interface. If 192.168.5.0/24 conflicts with an existing vessel network, contact KVH Technical Support for assistance.

Media Server for IP-MobileCast

If you have a Media Server for IP-MobileCast content, you can connect it to the new V7-HTS ICM. Be sure to select either the Static IP HTS or Open Access HTS network configuration on the ICM and connect the Media Server's WAN port to ICM port 4 (Accessory LAN). You can connect its LAN port to the High-speed LAN, Unlimited LAN, or a separate LAN just for IP-MobileCast.

Figure 5: Crew Data Allocations at mini-VSAT Manager

User Name ▲	First Name	Last Name	Allocation Profile
Isvensen	Lars	Svensen	Crew
jdoe	John	Doe	Crew

Figure 6: LAN Settings at V7-HTS Web Interface

IP Address: 192 . 168 . 6 . 1
Note: 192.168.0.1 is reserved for system use. Be sure to assign a different IP address.

Subnet Mask: 255 . 255 . 255 . 0

DHCP Mode: Enabled (default) Disabled

DHCP Start: 192 . 168 . 6 . 50

DHCP End: 192 . 168 . 6 . 150

Reset to Defaults Cancel Save