



HYPACK® Web Interface: WEBIF.dll

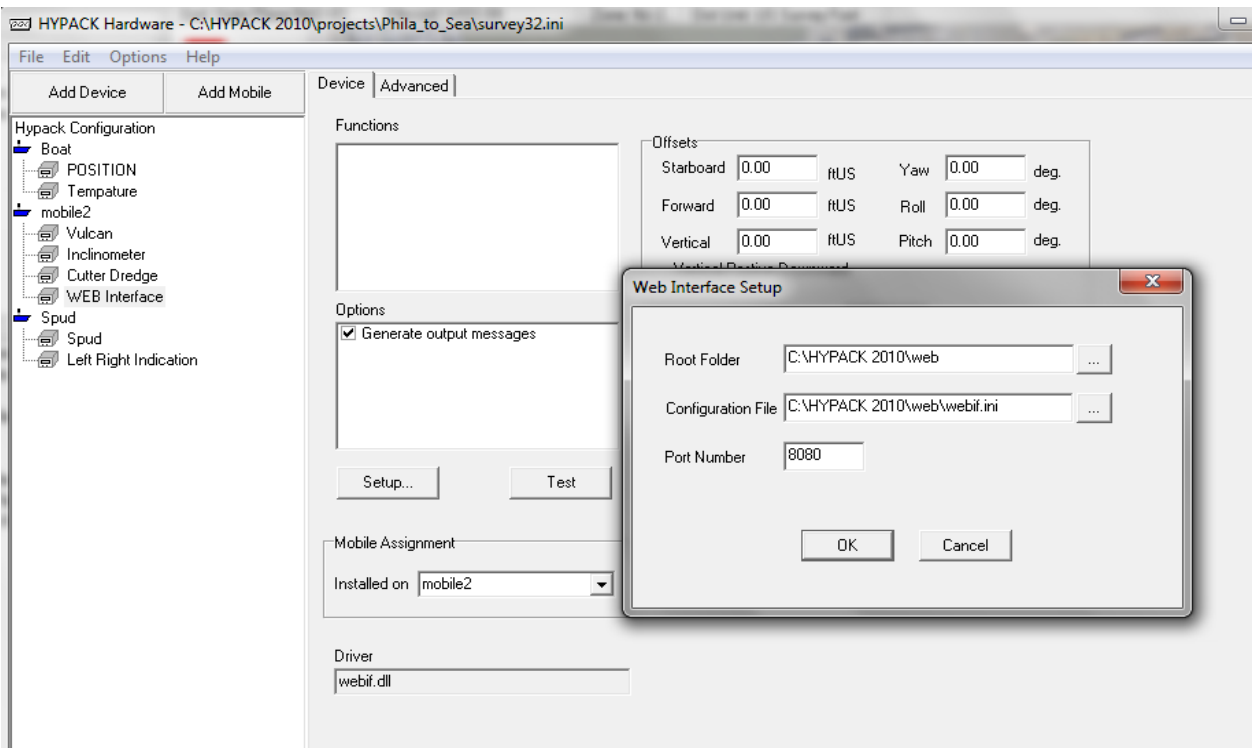
By Christian Shaw

HYPACK® has developed a replacement for our old, outdated SURVEY Viewer program. This program will let users view SURVEY over the network with a new web interface. By default, our new version of HYPACK® 2011 will install a WEB folder in the \HYPACK folder. This folder will contain the web viewing HTML and *.INI content. These files are available to be modified. If you have a web developer, your company may customize the SURVEY Interface HTML data to suit your company's needs. If you are a HYPACK® 2010 user and want this program for use, please contact help@hypack.com and we can send you a copy for HYPACK® 2010.

In HYPACK® HARDWARE:

The first thing that you will need to do is load the Webif.dll driver in HYPACK® HARDWARE under your mobile. Place this driver on the Mobile that you would like to track.

FIGURE 1. *Configuring the Webif Driver in HYPACK® HARDWARE*



In SURVEY:

Once SURVEY is launched, gain access to HYPACK® SURVEY over the network.

1. **Find the IP address of the survey computer.**
 - a. Click your Windows key and select Run.
 - b. Enter `cmd` to access the command prompt window.
 - c. Enter `ipconfig` and look for the IPv4 address.

2. **If you want to view the SURVEY interface over the wide area network, access the router setup and open the proper port to allow incoming communication.** Typically it is the default gateway address when you are in the command prompt. By default the port is 8080.
3. **On the remote computer where you want to do the viewing, open your favorite browser.** I choose Google Chrome for my tests.
4. **Type in your IP address along with the Port number in the address bar.** EX: 192.168.1.1:8080.

There will be 5 interface windows that you can view in your remote browser window.

FIGURE 2. WebIF Interface

You will have access to logging controls with the same commands found in SURVEY: Start Logging, End Logging, Pause Logging and Resume. You will also have Line control. This will let you switch lines, swap lines and manually select lines.

The following figures show other windows that are available for view over the network.

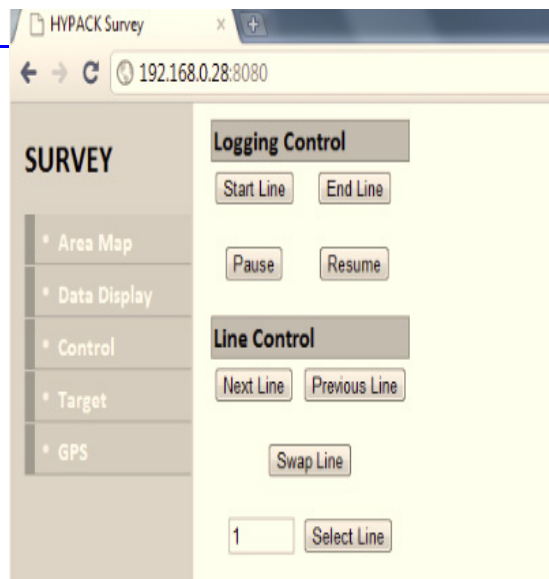


FIGURE 3. Map Refreshes Every 5 Seconds

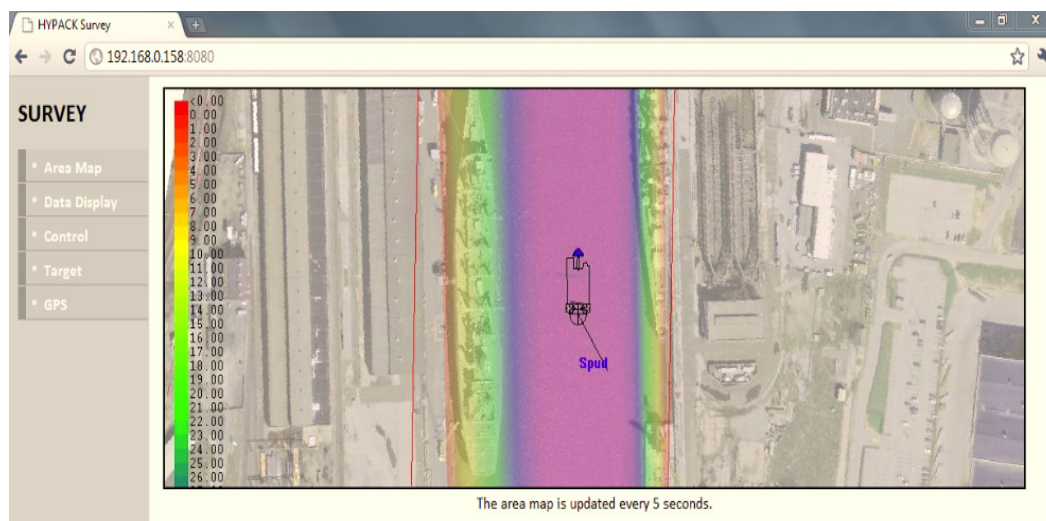


FIGURE 4. Targets - Create Targets Over The Network to Apply to The Map Window

The screenshot shows the HYPACK Survey web interface. On the left is a sidebar with a 'SURVEY' header and a list of menu items: Area Map, Data Display, Control, Target, and GPS. The main content area is divided into two sections. The top section, 'Target Information', displays the following data: Name: 18-30:13, X: 298949.65, Y: 386996.81, Distance: 0.00, and Bearing: 0.00. The bottom section, 'Mark Target', contains input fields for Name (filled with 'BUOY'), X (filled with '298949.65'), Y (filled with '386996.81'), Code (filled with '5'), and a text area for Notes (filled with 'MOVE BUOY TO RED SIDE'). A 'Mark' button is located at the bottom right of the 'Mark Target' section.

FIGURE 5. Data Display - Boat X/Y, DMG,DTG,XTE, Depths, Survey File Info and Current Matrix Cell Data Display

The screenshot shows the HYPACK Survey web interface with the 'Data Display' menu item selected. The main content area displays several data tables. The 'Boat Information' table shows: X: 298949.64, Y: 386996.82, Depth: 24.58, Heading: 0.0, Speed: 0.00, Tide: -10.00, and Draft: 0.00. The 'Navigation' table shows: DMG: 547.27, DTG: 1328.17, and XTE: 2.08. The 'Survey Information' table shows: Project: C:\HYPACK 2010\projects\Phila_to_Sea\Phila_to_Sea.ini, Filename: C:\HYPACK 2010\projects\Phila_to_Sea\Raw\2010__3231457_1.RAW, and Line: 1. The 'Current Matrix Cell' table shows: Survey Depth: 0.00 and Dredge Depth: 0.00.

FIGURE 6. GPS Information – Displays Information About the GPS

The screenshot shows the HYPACK Survey web interface with the 'GPS' menu item selected. The main content area displays a 'GPS Information' table with the following data: Satellites: 6, HDOP: 3.10, Lat: 40.056589, Lon: -74.144674, Ellipsoidal height: -23.83, Orthometric height: 30.00, Tide: 25.20, and Heading: 0.00.