

# HYDROpro configuration

26 July, 2001

MARINE SURVEY

## *Configuring Rig and AHT projects to include a user text service in the network messaging.*

These notes apply to HYDROpro Construction and HYDROpro Navigation v2.11 and onwards.

### Application

The features included in v2.11 were added to cater for additional text information to be included in the position and heading update service of the network handlers used in the TARP (Tug and Rig positioning) system. A text message including real time data fields can be generated by any vessel included in the fleet. The text message can be displayed in the Survey Text display of the Rig vessel or any other vessel in the fleet.

### Rig Project

- Open the Rig project in the Rig flavor
- Add the entire Tug fleet and configure equipment for each vessel, as you would normally do for a Rig project.
- Open the Advanced Equipment dialog and edit the Network controller equipment by adding a User Text service for each vessel in the Tug fleet. The Data source for each service should be the same as each Vessel number.
- Make Tug project.

### Tug Project

- Open the Tug project in the Advanced AHTug flavor.
- You will need to create a separate project for each vessel in the Tug fleet so select the first vessel as the Operating Tug.
- Open the Advanced Equipment dialog and edit the Network Station equipment.
  - Add an Echo sounder service (data source = 0) to the Network station equipment.
  - Turn the logging for this service OFF
- Add and configure the correct equipment for whatever additional sensors are required to populate the text service.
- Open the Configure Output Formats dialog.
  - Create the required text message including real time data fields and save as an output format.

*Note: Avoid the use of commas and control characters in your format as this may effect the decoding by the Network handlers.*

- Open the Configure Events dialog
  - Deactivate all events except the Time event
- Configure the Time event



Engineering and Construction  
Division  
Trimble Navigation Limited  
5475 Kellenburger Road  
Dayton, OH 45424-1099  
1-800-538-7800  
in North America  
1-937-233-8921  
outside North America  
1-937-233-9441 Fax  
<http://www.trimble.com>

© 2001 Trimble Navigation Limited. All rights reserved. The Globe & Triangle logo and Trimble are trademarks of Trimble Navigation Limited. All other trademarks are the property of their respective owners.

Page 1

- Turn Audio OFF (unless constant beeping is required)
- Set Time Interval to 2sec, Interval from Log On
- Set Data Logging to none
- Annotate E/S, 1 event per annotation
- Annotate with..... Select the output format you created from the list.
- Deselect Mark
- Select “Network station” as the echo sounder to annotate
- Change displays as required but only use 1 survey text display.
- Save this project for the vessel you selected as the Operating Tug.

#### Adapting Tug project for each vessel

The Tug project has been configured for the first vessel so now has to be copied and adapted for each of the vessels in the Tug fleet.

- Open a copy of the Tug project in AHT flavor.
- Select the next vessel in the Tug fleet as the Operating Tug.
- A new Survey Text display will be created based on the Operating Tug. The old Survey Text display can be closed.
- Open the Advanced Equipment dialog and edit the Network Station equipment.
  - Add a Demo Echo sounder service (data source = 0)
  - Turn the logging for this service OFF
- Activate and configure the equipment for the additional sensors. Reuse the existing equipment configurations but edit the vessel and offset.
- Configure the Time event
  - Turn Audio OFF (unless constant beeping is required)
  - Set Time Interval to 2sec, Interval from Log On
  - Set Data Logging to none
  - Annotate E/S, 1 event per annotation
  - Annotate with..... Select the output format you created from the list.
  - Deselect Mark
  - Select “Network station” as the echo sounder to annotate
- Save the project and send it to the appropriate vessel in the Tug fleet.
- Repeat this section for each remaining vessel in the Tug fleet.

*Note – If the **Operating Tug** is changed it will remove the E/S service from the Network Station equipment. This means that the event E/S annotation configuration will also be lost.*



Engineering and Construction  
Division  
Trimble Navigation Limited  
5475 Kellenburger Road  
Dayton, OH 45424-1099  
1-800-538-7800  
in North America  
1-937-233-8921  
outside North America  
1-937-233-9441 Fax  
<http://www.trimble.com>

© 2001 Trimble Navigation Limited. All rights reserved. The Globe & Triangle logo and Trimble are trademarks of Trimble Navigation Limited. All other trademarks are the property of their respective owners.