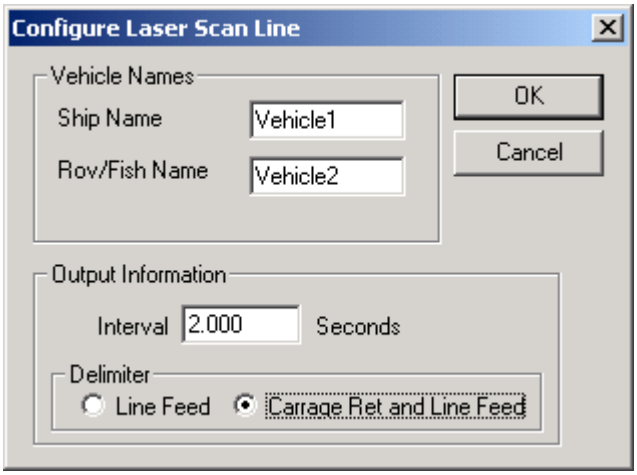
WinFrog Device Group:	**OUTPUT**
Device Name/Model:	**Laser Line Scan**
Device Manufacturer:	
Device Data String(s) Output to WinFrog:	None
WinFrog Data String(s) Output to Device:	0x16aa.a<CRLF> mm/dd/yy hhmm:ssbb bb bb.bX<CRLF> ccc cc cc.cY<CRLF> ddd.d ee.e<CRLF> ff.f 0x17 The telegram is fixed format 70 characters long. You may select only LF to be present in which case the telegram is 66 characters long. Where: 0x16 = One character hex 16. ASCII SYN aa.a = Ship speed in knots. mm/dd/yy hhmm:ss Date and time with leading zeros. bb bb bb.bX = Latitude X= N or S for the hemisphere Degrees minutes and seconds with leading zeros. ccc cc cc.cY = Longitude Y= E or W for the hemisphere Degrees minutes and seconds with leading zeros. ddd.dd = Heading in degrees with leading zeros. ee.e = Ship speed in knots. ff.f = Water depth in metres 0x17 = One character hex 17. ASCII ETB
WinFrog Data Item(s) and their RAW record:	No data recorded to the RAW file

DEVICE DESCRIPTION:
This device outputs the data as described above on a serial port.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:
Serial
Configurable Parameters

WINFROG I/O DEVICES > CONFIGURE DEVICE:
This device must be configured at the I/O Device window level. In the I/O Devices window, click the device name to select it, then right-click and select Configure Device. The Configure Laser Scan Line dialog box appears, as seen below.



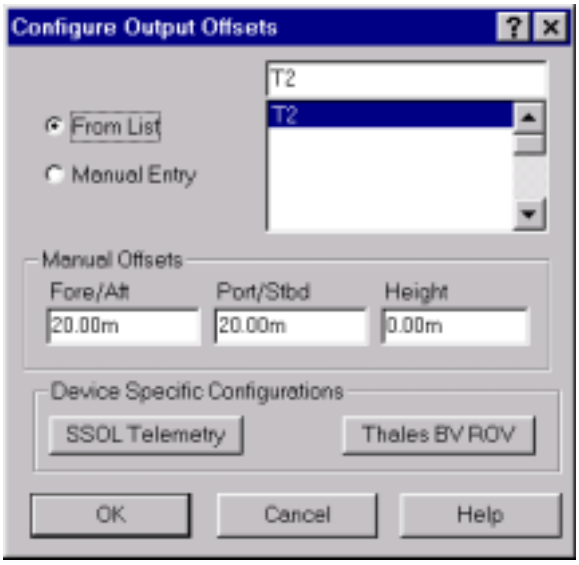
The dialog above allows you to enter the ship name and fish name. These must be entered so WinFrog can identify the vehicle from up to 25 potential vehicles. Their names must match exactly in spelling and in case. The coordinates are taken from the ROV/Fish vehicle – all other data is from the ship vehicle. Also enter the output rate. However, data will only be output if there is a valid position for the ROV/Fish, i.e. the vessel does not have a position alarm.

WINFROG VEHICLE > CONFIGURE VEHICLE DEVICES > DEVICE DATA ITEM > EDIT:
Adding the Laser Line Scan device creates the DATA OUTPUT data item. Once the data item has been added to the vehicle, it must be edited to suit the application.

Data item: OUTOUT, Laser Line Scan, DATA OUTPUT

Attach this data item to the ROV/Fish and to the ship. If the ROV/Fish selected does not have valid position, no data will be output.

When this data item is edited the following dialog appears:



Select the desired reference point for the coordinates that are to be placed in the telegram. If an offset point is not selected and the offsets are set to 0, the coordinate output will be the CRP or central reference point. The SSOL Telemetry and Thales BV ROV buttons are not used for this device.

TELGRAM SPECIFICATION:

See WinFrog Data String(s) Output to Device section above for details.