WinFrog Device Group:	**COMPASS**
Device Name/Model:	**Sonardyne Bundle Monitor**
Device Manufacturer:	Sonardyne International Ltd, Ocean House, Blackbushe Business Park, Yateley, Hampshire, GU46 6GD, UK. Tel: +44 (0)1252 872288 Fax: +44 (0)1252 876100 Email: caa@sonardyne.co.uk
Device Data String(s) Output to WinFrog:	
WinFrog Data String(s) Output to Device:	
WinFrog Data Item(s) and their RAW record:	BUNDLES 507 (compass readings) 508 (depth readings) 509 (analog data) DATA OUTPUT 450

DEVICE DESCRIPTION:

This device is designed to allow WinFrog to track a pipe bundle tow through an interface to a third party Bundle Tow software package. This interface allows you to view the pipe bundle in the Graphics and Profile windows, as well as to monitor its position while under tow.

Refer to the Pipe Bundle Tow Monitoring section in chapter 19 of the WinFrog User's Guide for a detailed description of how to use this device.

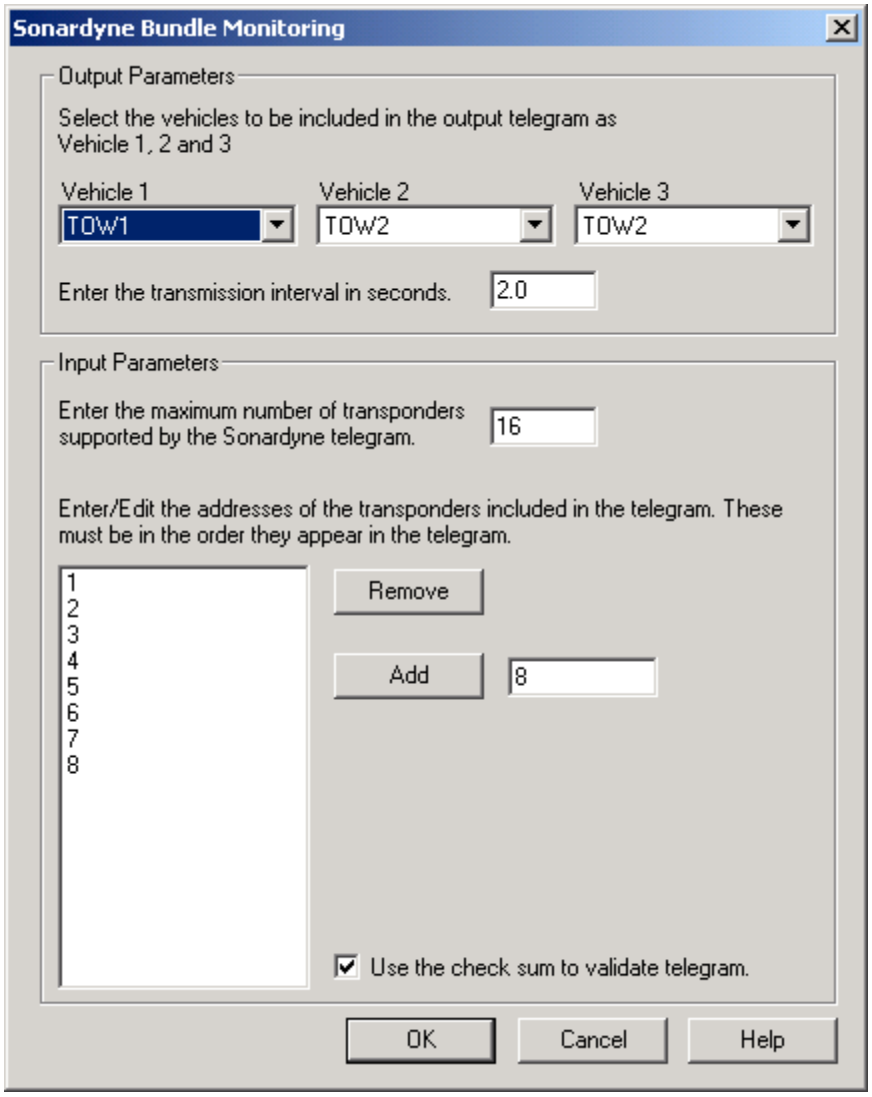
DEVICE CONFIGURATION INSTRUCTIONS

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 Sonardyne Bundle Monitoring dialog box appears, as seen below.



Output Parameters
Select the vehicles to be included in the output telegram from the dropdown lists and enter the interval, in seconds, for the data transmission.

Input Parameters
In this section you can configure the input data telegram from the pipe bundle software package. The order and number of transponders can be specified. You can select whether or not to use the check sum to validate the telegram.

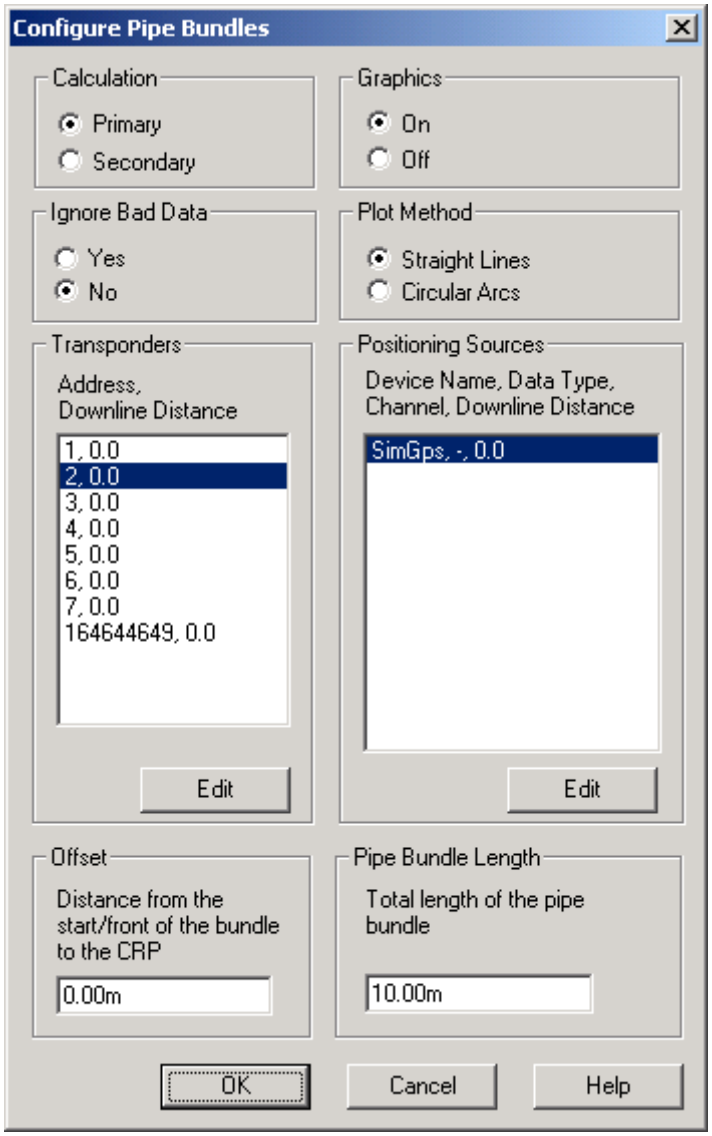
Refer to chapter 19 of the WinFrog User's Guide for more details on these configurations.

WINFROG VEHICLE > CONFIGURE VEHICLE DEVICES > DEVICE DATA ITEM > EDIT:

Adding the Sonardyne Bundle Monitor device creates two data items: BUNDLES and DATA OUTPUT. Once the data items have been added to the vehicle, they must be edited to suit the application.

Data item: COMPASS, Sonardyne Bundle Monitor, BUNDLES

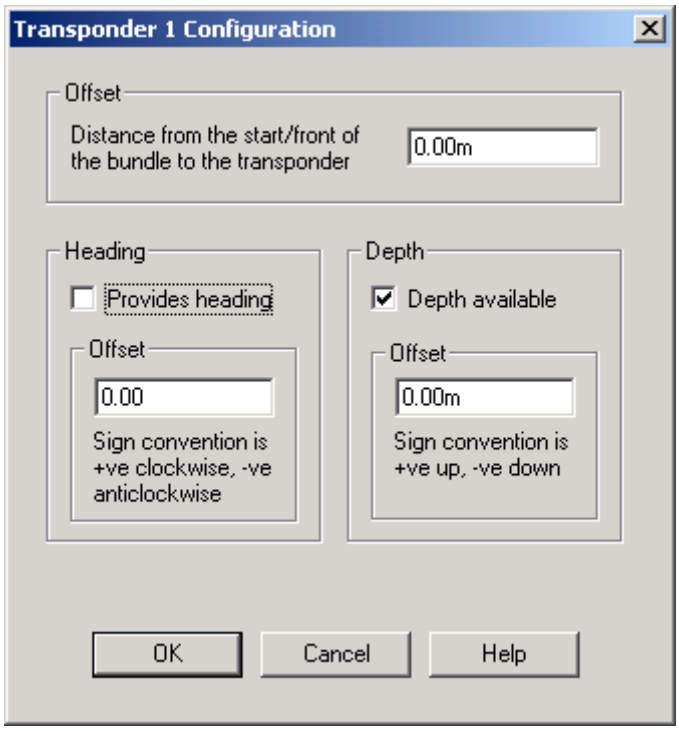
Highlight the data item in the vehicle's device list and click the Edit button. The Configure Pipe Bundles dialog box appears as seen below.



Set the Calculation mode to Primary in order to monitor the pipe bundle. Selecting the Graphics On option will allow WinFrog to display the transponder identifiers in the Graphics window. The Ignore Bad Data section gives you the option to either

use or ignore data that is flagged as bad. The Plot Method section gives you the option to plot the data as a series of straight lines or lines joined by circular curves.

All transponders added in the Sonardyne Bundle Monitoring window will appear In the Transponders section. Each transponder in the list must be configured. Highlight the transponder and click the Edit button to open the Transponder xx Configuration window as seen below.

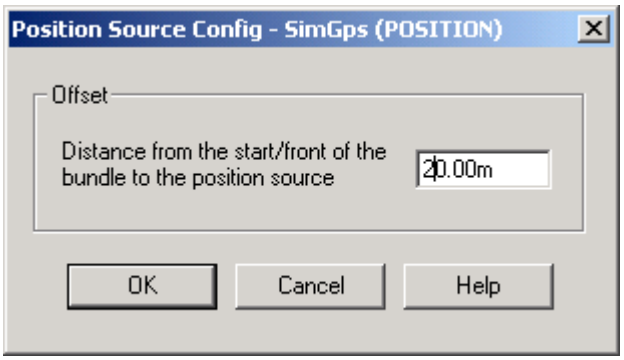


Offset
Enter the distance from the head of the pipe bundle to the transponder.

Heading
Select the Provides Heading option if the transponder provides heading data. In the Offset field enter any heading correction value required. Note that positive or negative values can be entered.

Depth
Select the Depth Available option if the transponder provides depth data. The Offset field refers to vertical offsets that are to be added to any depth data from that transponder.

(Configure Pipe Bundles dialog)
All data items that can be used as positioning sources and that are attached to the vehicle are listed in the Positioning Sources section. Each positioning source must also be edited. Highlight the positioning source from the list and click the Edit button to open the Position Source Config dialog as seen below.



Enter the distance from the head of the pipe bundle to the positioning source.

(Configure Pipe Bundles dialog)
In the Offset section enter the distance from the head of the pipe bundle to the CRP. Refer to chapter 19 of the WinFrog User's guide for details on assigning a CRP for the pipe bundle.

In the Pipe Bundle Length section enter the total length of the pipe bundle.