

WinFrog Device Group:	OUTPUT
Device Name/Model:	CMS IPL300
Device Manufacturer:	
Device Data String(s) Output to WinFrog:	NONE
WinFrog Data String(s) Output to Device:	See Telegram Specification section below.
WinFrog Data Item(s) and their RAW record:	DATA OUTPUT 450

DEVICE DESCRIPTION:

This device is designed to output positional and quality control data for specified targets to the CMS IPL300 system. Note that the vehicle to which this DATA OUTPUT data item is attached must have a valid (no alarms) position in order for the output function to work.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:

Serial
Configurable Parameters

WINFROG I/O DEVICES > CONFIGURE DEVICE:

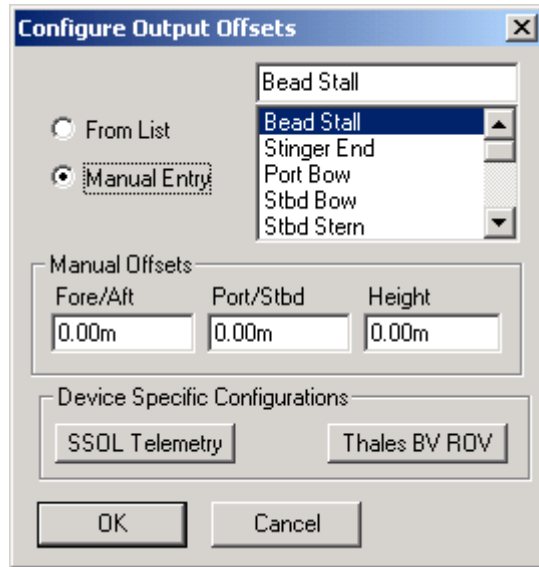
No configuration is required at the I/O Device window level.

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

Adding the CMS IPL300 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.

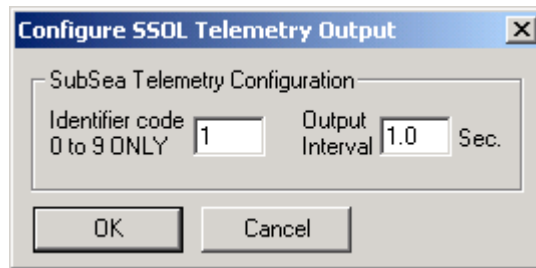
Data item: OUTPUT, CMS IPL300, DATA OUTPUT

Highlight the OUTPUT, CMS IPL300, DATA OUTPUT data item and click the Edit button to open the Configure Output Offsets dialog box as seen below.



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 Central Reference Point (CRP).

Click the SSOL Telemetry button to open the Configure SSOL Telemetry Output dialog box as seen below.



If you choose not to use this option, the identifier code should be left at the default value of -1. Inputting values of 0 to 9 will result in a code being attached to the data string. The code ranges from 1 to 10, and refers to the vessel the data string transmission is intended. The interval at which the data is output can also be configured.

The Thales BV ROV option is not used for this device.

TELGRAM SPECIFICATION:

The output data telegram contains the following data;

Field	Data
1	east //cm
2	north //cm
3	east //cm
4	north //cm
5	telemetry Output Code // identifier code
6	psnAlarm // 0 = good psn, 1 = psn > 15 sec old, 2 = psn > 30 sec old
7	stdDev // std dev of usbl derived position (from a usbl device)

Note that the Easting/Northing position output is the same offset position repeated. This position is of the offset selected in the DATA OUTPUT data item. Similarly, the telemetry output code is set in the Configure SSOL Telemetry Output dialog accessed from the DATA OUTPUT configure dialog.