RIVERTRACE ENGINEERING LTD



109309 IMO DATA DOWNLOAD PROCEDURE



UNIT P, KINGSFIELD BUSINESS CENTRE LTD PHILANTHROPIC ROAD REDHILL, SURREY, RH1 4DP

 TELEPHONE:
 +44(0)1737 775500
 FAX:
 +44(0)1737 775501

 WEB:
 http://www.rivertrace.com
 EMAIL:
 service@rivertrace.com

<u>Section 1</u> Introduction	2
<u>Section 2</u> Connection to a Computer	3
<u>Section 3</u> Setting Up Hyper Terminal	3
<u>Section 4</u> Downloading the IMO data	5
<u>Section 5</u> Setting up IMOLog	7

Chang	jes	
Rev A	Original issue	
Rev B	Correct Spelling & add detail	08.05.05
Rev C	Change phone nr. Add detail about RTE IMOLog	15.11.11
Rev D	Add information re USB	26.02.14
Rev E	Change description of micro b usb connector to mini b usb connector	26.02.15

Section 1 Introduction

This document will explain the procedure to download the complete IMO required data bank to a computer hosting either Windows hyper terminal program or Rivertrace's own downloader IMOLog. It is assumed that the user understands how to use a computer and is able to find how to the Device Manager facility in Windows to find out which COM port is in use.

Once downloaded the user can save the record as a text file (*.txt) thereby keeping a permanent record of all the data. Downloading the data **DOES NOT** erase the data on the Smart Bilge monitor.

Equipment:

 Laptop / personal computer hosting windows hyper terminal or RTE IMOLog application.

RTE part. 109165.

- Smart Cell Bilge Download Cable Or USB cable.
- Smart Cell Bilge monitor.

Fig 1.1 Required Equipment

Laptop computer with hyper terminal or IMOLog



Section 2 Connection to a Computer

There are two Smart - Bilge Control Unit variants, with and without an external USB connector.

Connection using the Smart Cell - Bilge 109165 Download Cable.

For use with no external USB connector.

Open the left hand side enclosure and make connection to the 3 pin connector J11 (top/right side).

WARNING Do not open or remove the tamper proof labels on the right hand module (Smart - Cell).

Connect the plug to either a computer serial port on the PC or to an RS232 convertor.

Connection using a USB cable.

For use with an external USB connector. The connection is on the outside of the left hand module. The module connector is a Mini B USB. Connect the Smart – Bilge Control module to the computer using the USB cable provided. Install the Drivers as required for either Windows or MAC from the list below. Drivers and installation instruction are supplied on the USB Flash Drive supplied.

Driver installation. Mac OS Windows 98 and ME Windows 2000 Windows XP Windows Vista Windows 7 Windows 8

Section 3 Setting Up Hyper Terminal

Launch hyper terminal from the Windows OS.

<u>Fig 2.1</u> Screen Shot – Hyper Terminal

Enter a name for the download session. For instance Smart Bilge Serial Number or MV Queen Mary 2. (Name of vessel that the bilge alarm is from). Ensure the leftmost icon in the window is selected in blue and click the OK button

New Connection - HyperTerminal Elle Edit View Call Iransfer Help		
	Connection Description	

Fig 2.2 Screen Shot – Hyper Terminal

-		
	Phone Number	
	Smart Cell	
	· · · · · · · · · · · · · · · · · · ·	
	Enter details for the phone number that you want to diat	
	Country code:	
	Arga code:	
	Phone number:	
	Cognect using: Direct to Com 1	
	OK Cancel	

Next, select the required COM port (serial port that download cable will be attached to). Click the OK button.

Fig 2.3 Screen Shot – Hyper Terminal

Smart Lell - HyperTerminal		
<u>File Edit View Call Iransfer Help</u>		
	COM1 Properties	?×
11	Port Settings	
11		
11		
11	Bits per second: 38400	
11		
11	Data bits: 8	
11	Parity Name	
11	Edity. None	
11	Stop bits: 1	
11		
11	Elow control: None	
11		
11		
11	Advanced <u>B</u> estore Defaul	ts
11		
11	OK Cancel 🛆	e via
11		
11		
Discourse and a deback	And drawn CCCDOLL CADE MUM Combine	V Drint anka
Disconnected Auto detect	JALIO DELECT JOCHOLIC JURIS JNUM JUAPIURE	I THE GUID

Set up the COM port settings as shown in the window left and click the OK button. Bits per second: 38400, Flow control: None.

Fig 2.4 Screen Shot – Hyper Terminal

Capture 1	fext	? ×
Folder:	C:\Program Files\Windows NT\HyperTermin	al
<u>F</u> ile:	dows NT\HyperTerminal\CAPTURE.TXT	<u>B</u> rowse
	Start	Cancel

Select Transfer on the toolbar then Capture Text. Select a location to store the data then select Start. Ensure that the file is saved as a .txt file.

<u>Section 4</u> Downloading the IMO Data

Fig 3.1 Connecting the cable



Ensure Power to the Smart Cell – Bilge is isolated before following procedure is carried out.

The supplied IMO download cable must now be connected between the serial port of the laptop / PC and J11 of the Smart Bilge PCB assembly (see manual for further location information). Or use the USB cable to the external USB Connector.

SMART - BILGE Escape View IMD data > Dump IMO data

Fig 3.2 Downloading the data

Turn the power to the smart Bilge on and select **View IMO data** followed by **Dump IMO data** from the user menu.

The complete IMO data bank will now be downloaded to the hyper terminal or IMOLog.

To save the data simply use the save command from the hyper terminal menu or from IMOLog.

Note:- Data will still remain on board – this can never be deleted by a user only overwritten by new IMO data once the data file is full.

Fig 3.3 Screen Shot – Hyperterminal



When using hyperterminal: At completion of the download select Transfer on the toolbar then Capture Text – Stop.

Open capture.txt file in notepad and confirm that all data has been downloaded correctly. Save data as (name of vessel.txt).

Section 5 Setting Up IMOLog

<u>Fig 4.1</u> Screen Shot – IMOLog

At 100 Section Access * If is the low from the low Section Access and the low Se	Launch IMOLog from the desktop (Supplied on the USB Flash Drive). Follow the instructions shown on the screen: Select the correct COM Port and select connect. At the Smart Bilge monitor use the up/down/enter keys to
CONTRA - Name 12 Car Open Mark Ro. Pert Contra - Name 12 Car Open Mark Ro. Pert Contra - Name 12 Car Open Mark Ro. Pert Pert Contra - Name 12 Car Open Mark Ro. Pert Pert Contra - Name 12 Car Open Mark Ro. Pert Pert Contra - Name 12 Car Open Mark Ro. Pert Pert Contra - Name 12 Car Open Mark Ro. Pert	enter the User Menu then select View IMO Data

Dump IMO Data

Fig 4.2 Screen Shot – IMOLog

When the IMO download has been completed select Save as Text File.

Rivertrace Engineering Smart Downloader	
Smart Bilge a/w: V4.08	
Develoades a/w1 V1.03 Cell a/w1 V2.04	
Time and Date : 16-08 16/11/11	
THD data follows to obvioulization ander	
AND ALL ALL AND AND THE Average Average	
40 00 0FF 0FF 0FF 18/37 18/31/31 Alasse or Puitches.	
40 OFF OFF OFF OFF 14-37 14/31/31 Warm Up Broked. 0 OH OH OFF OFF 14-37 14/31/31 Prove On.	
40 08 08 0FF 0FF 14:12 21/10/11 Alarma or Switches.	
DE ON OVY OVY DVY 14:11 12/10/11 ALKENS OF SUITCHES.	
40 OH OH OFF OFF 13:16 21/15/11 Alarma or Suiches.	
0 OFF OFF OFF OFF 3115 12/2011 ALEME OF FULCHER.	
40 CH CH CFT CFT D9:36 22/25/31 Alarma on Dulations	
0 OFF OFF OFF OFF OFF 19:35 22/20/21 Alarms of Buildches.	
40 DB CH CH CFF CFF DB113 21/10/11 klasse or Buildes.	
40 CFF CFF CFF CFF 0FF 08:10 21/10/11 Warm Op Ended.	
6 OH CH CFF CFF 00110 31/10/11 Parker Cm. 40 DH CH CFF CFF 14/33 30/10/11 Alarma or Duinchas.	
40 OH OFF OFF OFF 14:22 20/10/11 Alasma or Dwitches.	
40 OFF OFF OFF OFF 14122 2012/11 Parts OF DIME.	
40 08 08 077 077 11:21 20/10/11 Alarms or Subches.	
40 OFF OFF OFF OFF 11:20 20:31/11 Mam Up Ended.	
0 0	
40 OFF OFF OFF OFF 00:14 20/10/11 Harm Up Ended. Cell Rreach.	
0 08 08 0F 0F 0F 11:5 10:101 Power 08.	
0 OFF OFF OFF OFF 13:50 15/10/11 Warm Up Ended.	
15 08 08 07 077 13:15 15:10:10 08.	
15 OFF OFF OFF OFF 33/87 15/15/11 Mars Dp Doted. Cell Steach.	
0 ON ON OFF OFF 13:33 15/30/11 Cell Breach.	
0 DFF DFF DFF DFF 13/33 19/3D/11 Narm DF Kriefel. 0 DH DH OFF DFF 13/33 19/3D/11 Narm Dn.	
12 DH DFF DFF DFF 13:33 10/10/11 Marms or Mulcohes.	
40 OR OR OFF OFF 1311 10/10/14 Articles.	
40 OFF OFF OFF OFF 13:33 10/30/11 Narm Cp Evided. Comme Error.	
40 08 08 087 087 18:14 01/04/08 Call Breach.	
40 OFF OFF OFF OFF 14:14 01/04/06 Marm 0p Ended. Cell Sreech.	
0 0H 0H 0FF 0FF 14:10 01/04/04 Call Breach.	
View Views 1.00 Cear Save as Text File Print	
Terrorat	

Fig 4.3 Screen Shot – IMOLog



Save data as (name of vessel.txt).