

# RIVERTRACE ENGINEERING LTD



**109309**

**IMO DATA DOWNLOAD PROCEDURE**

**SMART CELL-BIDGE**

**UNIT P, KINGSFIELD BUSINESS CENTRE LTD  
PHILANTHROPIC ROAD  
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**Changes**

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

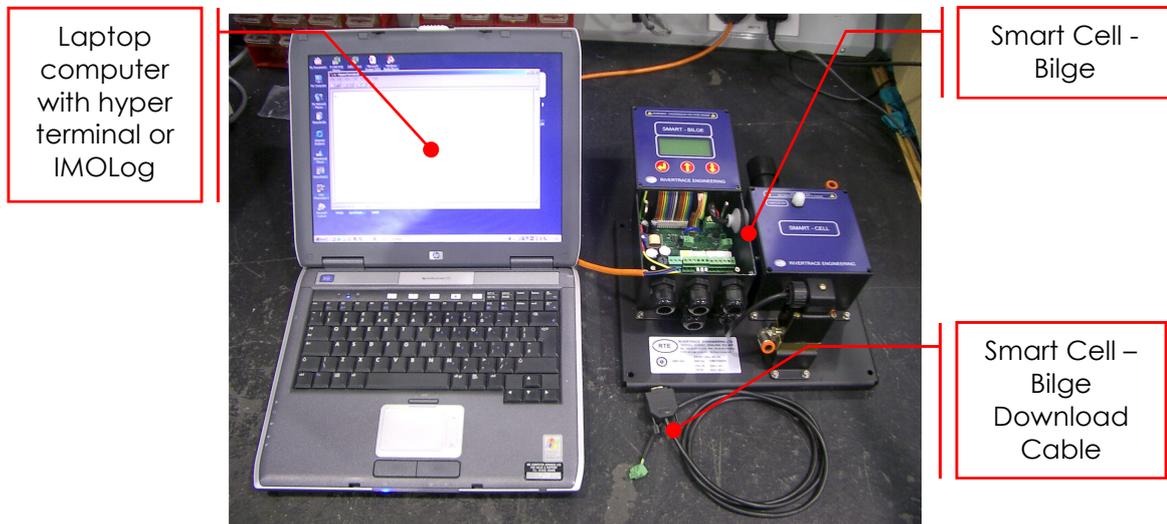
This document will explain the procedure to download the complete IMO required data bank to a computer hosting either Windows hyper terminal program or Rivertrace's own downloader IMOLog. It is assumed that the user understands how to use a computer and is able to find how to the Device Manager facility 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.
- Smart Cell - Bilge Download Cable RTE part. 109165.  
**Or USB cable.**
- Smart Cell - Bilge monitor.

**Fig 1.1**  
**Required Equipment**



## 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

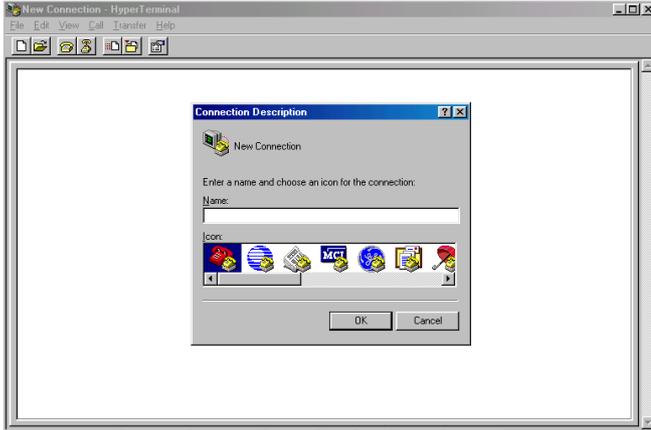
## Section 3

# Setting Up Hyper Terminal

Launch hyper terminal from the Windows OS.

**Fig 2.1**

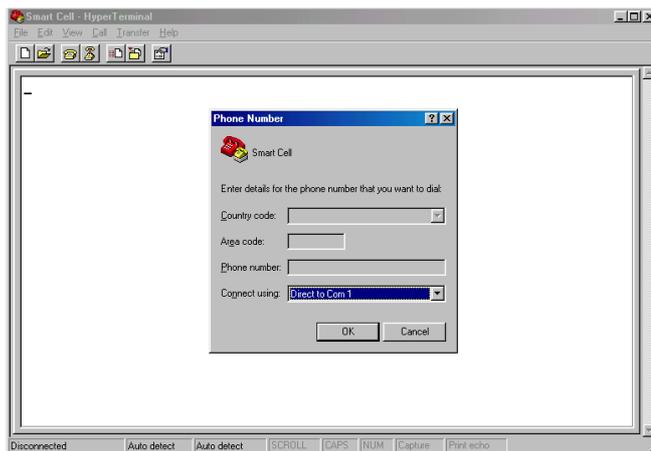
**Screen Shot – Hyper Terminal**



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

**Fig 2.2**

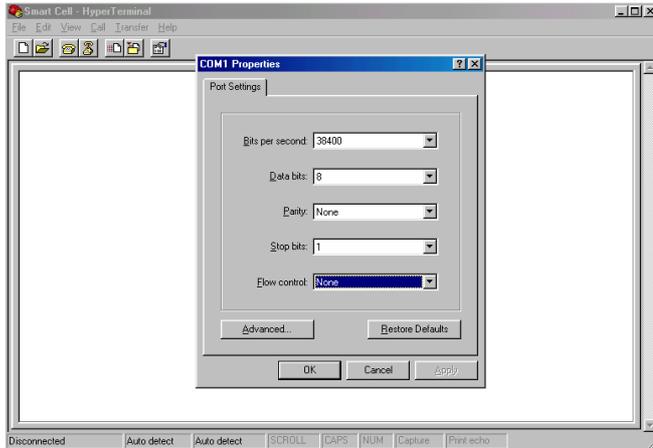
**Screen Shot – Hyper Terminal**



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

**Fig 2.3**

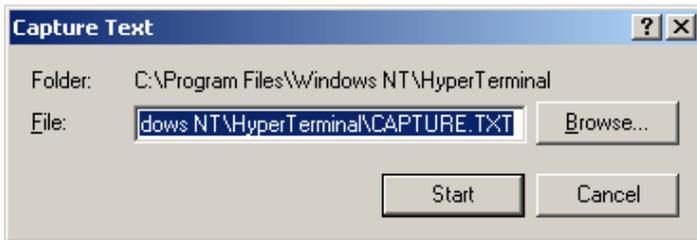
**Screen Shot – Hyper Terminal**



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**



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.

## Section 4

### 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.

**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.

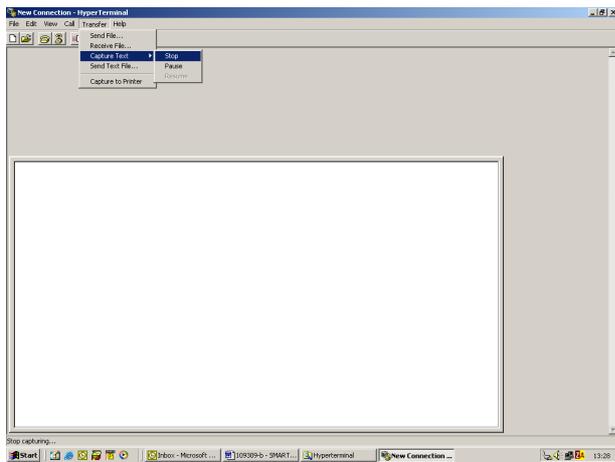
The complete IMO data bank will now be downloaded to the hyper terminal or IMOLog.

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**



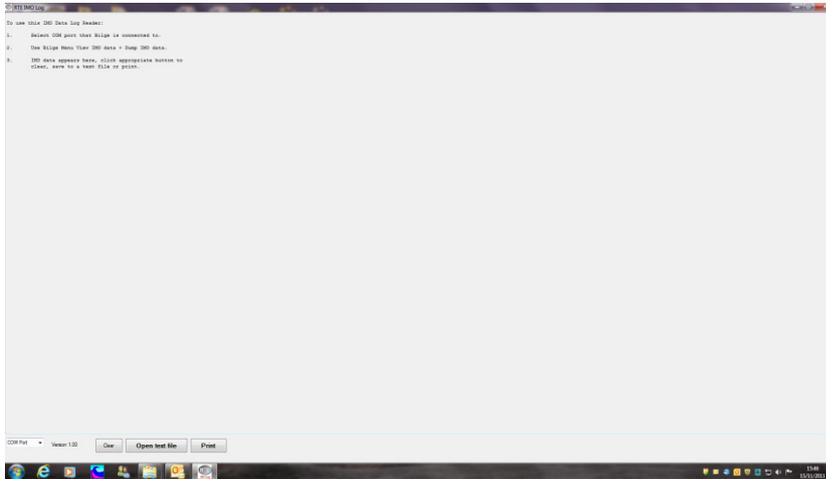
When using hyperterminal: At completion of the download select Transfer on the toolbar then Capture Text – Stop.

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

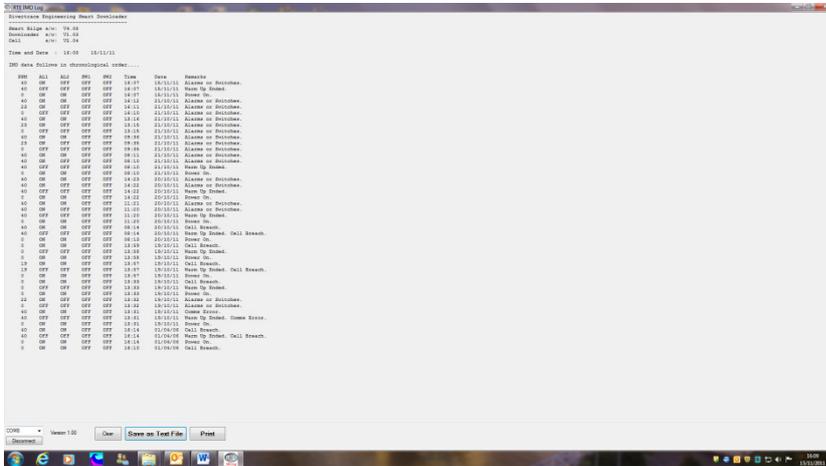
**Fig 4.1**  
**Screen Shot – IMOLog**



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 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.

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**Fig 4.3**  
**Screen Shot – IMOLog**

Save data as  
(name of vessel.txt).

