



### The First Electronic Oil Record Book Approved by a Major Flag State





# Challenges of Using Paper Oil Record Books

MARPOL, the ISM code and Port State Control have become stricter and emphasize recording every event onboard. As a result, this affects crew efficiency, adds administrative work, and calls for a more effective and efficient system.

#### Challenges

- Inaccurate recordkeeping of operations
- Erroneous entries
- Failure to properly maintain adequate records onboard
- False statements which cannot be verified
- Time consuming and inefficient process
- Heavy paperwork and administrative burden



## Consequences of Deficiencies in Oil Record Books

- Criminal and civil action by the U.S. Department of Justice against shipowners and crew
- Costly and lengthy court battles
- Fines for vessel managers and owners
- Career damage and seafarer criminalization
- Vessel detentions
- Potential pollution through illegal actions onboard
- Adverse effect on fleet trading abilities
- Damage to ship operator reputation



An electronic oil record book is a software application designed to replace the traditional paper oil record books (ORB) (Part I and Part II) and facilitate accurate ORB entries into an efficient electronic format, while complying with international conventions and flag State requirements.

The ε-ORB is designed in accordance with the MARPOL Annex I regulations 17 & 36 as well as IMO Circ 736/Rev 2.

The software is tested in order to establish

transparency, credibility & traceability



## Advantages of $\epsilon$ -ORB

|                       | Features                               |        | Advantages   |             | Benefits   |
|-----------------------|--|--------|--|-------------|--|
| ~                     | Automated calculations                 | ~      | Prevent vague entries and mistakes   | ×<br>×<br>× | Ease of mind pulling into ports knowing<br>your vessel maintains accurate<br>information<br>Prevent detentions, avoid delays at<br>ports<br>Prevent law suits and criminal charges |
| <ul> <li>✓</li> </ul> | User friendly software                 | ✓<br>✓ | Recordkeeping is efficient and<br>effortless<br>Paperless solution assists seafarers<br>in their duties  | ✓<br>✓      | Save man hours onboard and saving on<br>overtime costs<br>No chance of having oil record books go<br>missing onboard   |
| ~                     | Secured access                         | ~      | Ensured transparency and accountability  | ~           | Prevents unauthorized access or making copies without permission   |
| ✓                     | Unique e-signature required            | ✓<br>✓ | Recordkeeping is only performed by<br>authorized personnel<br>Ensure traceability of operations  | <b>√</b>    | Peace of mind that only authorized<br>officers are recording oil record book<br>entries onboard  |
| ~                     | Maintenance and support plan available | ✓<br>✓ | Mandatory software updates<br>provided in a timely manner and<br>ensure compliance with regulations<br>IT technical support to user in less<br>than 24 hours | ~           | Always have the Liberian Registry and<br>Prevention at Sea in your corner to step<br>in at any time should an issue arise<br>onboard regarding the software                        |

# Advantages of $\varepsilon$ -ORB Con't

|   | Features  |                       | Advantages  |          | Benefits   |
|---|---|-----------------------|---|----------|--|
| ✓ | Compliance with IMO regulations<br>and requirements | <ul> <li>✓</li> </ul> | Software designed using MARPOL and the<br>MEPC 66/7, as guidance, dated 20<br>December 2013 "Report of the<br>correspondence group on the use of<br>electronic record books under MARPOL" | ~        | Software meets flag State and<br>international regulatory<br>requirements  |
| ✓ | A 'piping diagram' module                           | ~                     | User is assisted in designing the ship's piping diagram, and recording operational entries by simply dragging/dropping icons  | ✓<br>✓   | Ship owner is confident in the<br>authenticity of a vessel specific<br>piping diagram<br>Easy and fast to make ORB<br>entries without errors |
| ~ | A 'sounding tables' module                          | ~                     | User is assisted in the rapid calculation of<br>the current content inside a tank by simply<br>inserting the height measurement, trim<br>and list   | ~        | Save man hours onboard   |
| ~ | ε-ORB cloud portal                                  | ~                     | Ship owners are able to access all their<br>vessels' ε-ORBs from ashore, run reports,<br>search and benchmark data across their<br>fleet  | ✓<br>✓   | Save time during internal audits<br>by pre-checking logbooks<br>Compare one vessel's activities<br>against others in your fleet              |
| ✓ | Backup system                                       | ✓<br>✓                | It is easy to archive and retrieve past data<br>Data security   | <b>~</b> | Convenient access to ε-ORB data ashore and at sea upon need  |

# Configuring the software

| _og-in to the ε-ORB        | ×  |                |                            |                                     |                   |   |
|----------------------------|--|----------------|----------------------------|-------------------------------------|-------------------|---|
| Username                   |  |                |                            |                                     |                   |   |
| Password                   |  |                |                            | /                                   |                   |   |
|                            | /Part I  | Welcome Vessel | Manager & Paramet<br>Owner | ters e-ORB Sludge Tan<br>Components | nk Date UTC Finis | h |
|                            |  |                | 1                          | Next                                |                   |   |
| Login Cancel               |  | Na             | me of Vessel *             |                                     | (8)               |   |
|                            |  | Ту             | oe of Vessel *             | Select •                            | (8)               |   |
|                            |  | Ve             | ssel IMO Number *          |                                     | ۲                 |   |
|                            |  | Cal            | I Sign *                   |                                     | (8)               |   |
|                            |  | Cla            | ssification Society *      | Select                              | ۲                 |   |
|                            |  | Fla            |                            | Select                              | (8)               |   |
|                            |  |                | rt of Registry *           |                                     | 8                 |   |
| Welcome Vessel Mana<br>Ow  | ager & Parameters e-ORB Sludge Tank Da<br>vner Components            | ate UTC Finish | Martin                     | 2                                   | of 8 Back Kest    |   |
| Congratulations!           |  |                |                            |                                     |                   |   |
| the functionalities of th  | completed the Setup Process and you are now ready to fu<br>he ε-ORB! | lly enjoy      |                            |                                     |                   |   |
| For any assistance you     | may require, don't hesitate to 'call me'!                            |                |                            |                                     |                   |   |
| In case you need more      | information, please Contact our Support Team at: suppor              | t@e-orb.com    |                            |                                     |                   |   |
| Click Finish to Save all I | Inserted Data.   |                |                            |                                     |                   |   |
| **                         | 8 of 8   | Back Finish    |                            |                                     |                   |   |
|                            |  |                |                            |                                     |                   |   |

## Inserting an Operation

| S Vessel Demo, IMO 00000  | 0000, Call Sign ABCD, z-ORB Part I, Mode Training - Running program: Insert Operation –   | - @ ×         |
|---|---|---------------|
| e-ORB Tank Tables e-Book Configuration Administration Help Support Advanced   |   | 0             |
| Insert<br>Operation<br>e-ORB MyNotes Tank e-Signature<br>Transactions   | Refresh   | Athena        |
| e-ORB Notifications (4)   |   | Autono        |
| 炎 🖒 🍜 👻 Gurrent Diagram Select Diagram 🔹 🖟 🖑 🧋  |   |               |
| <ul> <li>Current Diagram Select Diagram .</li> <li>Ret Diagram .</li> <li>Select Officer .</li> <li>Duvid Phillips .</li> <li>I. Select Officer .</li> <li>Duvid Phillips .</li> <li>I. Select Officer .</li> <li>Duvid Phillips .</li> <li>I. Iselect Officer .</li> <li>Duvid Phillips .</li> <li>I. Iselect Officer .</li> <li>Duvid Phillips .</li> <li>I. Non-polluting spill/leakage into the Room .</li> <li>C. Collection, transfer and disp residues (sludge) retained on board. The should be recorded weekly .</li> <li>I. Collection of all residues (sludge). Qui oil residues (sludge). Patients on board. The should be recorded weekly .</li> <li>I. Collection of all residues (sludge). Qui oil residues (sludge). Qui oil residues (sludge). Cua oil re</li></ul> | ko the Engine   sposal of oll   sposal of oll   comments (Optional)     wantities of   the quantity     wantities of   the quantity     wantities of   the quantity |               |
| 4. Quantity of residue collected by ma<br>(Operator initiated manual collection<br>residue (sludge) is transferred into the<br>(sludge) holding tank(s).)   | ions where oil  |               |
| This is a missed operational entry  | Date (UTC) of last e-ORB operation: 07-NOV-2016   |               |
| Replace the last operational entry  | Date (UTC) of next Weekly Inventory: 14-NOV-2016  | 1             |
| Operations MyNotes e-ORB Tank Transactions  | тине польто леха мееко шоевного: та-токуу-гото  |               |
| Server Instance: DESKTOP-3VP68EGVPAS Database: eORBDemo Company: Prevention at Sea Ltd. Product: e-ORB Version: 2.0.0.1 Edit  | itor, pasea License: Trial Version, You have 237 login(s) left to use the s-ORB. Server Date Time UTC: 13 Nov 3   | 2016 23:12:58 |



### $\epsilon$ -ORB Tab

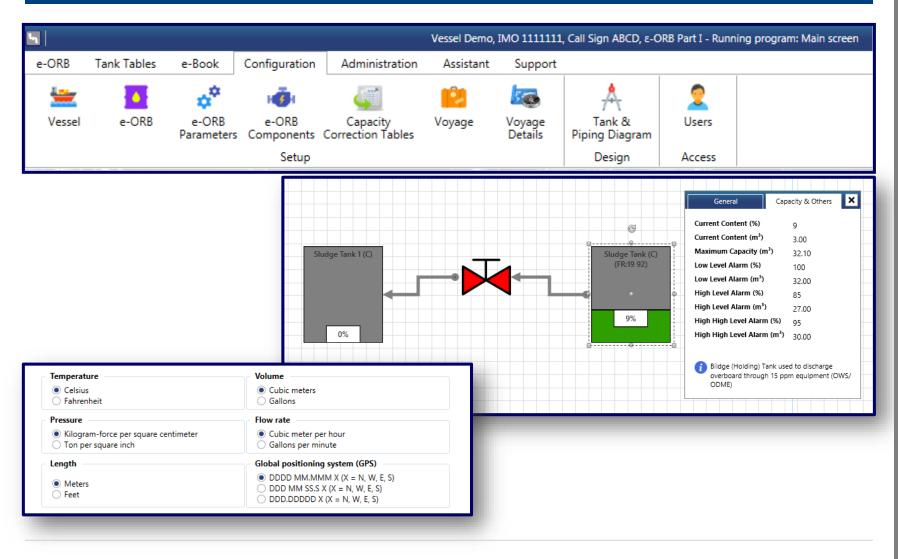
|   |             | 🔂 🌽 🔹 💡 Les     | s Columns 🔀 Sh  |            | •                             |          |                             |                  | (H) (+) (H) 2 of 2  |                                    |                                 |                        |                       |         |
|---|-------------|-----------------|-----------------|------------|-------------------------------|----------|-----------------------------|------------------|---|------------------------------------|---------------------------------|------------------------|-----------------------|---------|
| 1 | Date UTC    | Y Code Letter Y | Item Number 🔻   | Sub-Number | • Operat                      | ion      |                             |                  | т   |                                    |                                 |                        |                       |         |
| • | I4-JAN-2016 | н               | 26              | 2          | START:                        | 14-JAN-2 | 016 01:00 HR                | S, STOP:         | 14-JAN-2016 03:00 HRS   | , IMO 0000000, Call Sign ABCD, ε 4 | ORB Part I, Mode Training - Run | ning program: e-OR8    |                       |         |
|   | 14-JAN-2016 | н               | 26              | 3          |                               |          | D 3.00 %S BUI<br>DW CONTAIN |                  | N TANKS: 8 MT ADDED TO NO 1   |                                    | • <del>0</del>                  |                        |                       |         |
|   | 15-JAN-2016 | 1               |                 |            | QWDQ                          | ND       |                             |                  |   |                                    | Refresh                         |                        |                       |         |
| - | 19 JAN 2016 | Ð-              | <del>13</del>   |            |                               | BILGE W  |                             | ILGE TAN         | IK (C) CAPACITY 24:30 GALS., outfications (4)   |                                    | • *                             |                        |                       |         |
| 1 | 19 JAN 2016 | Ð-              | <del>14</del>   |            | START:                        | 19 JAN 2 | 016 13:00 HR                | S, STOP:         | 19 JAN 2016 18:00 HRS   | •                                  | -1                              |                        |                       |         |
|   | 19 JAN 2016 | Ð-              | 45-             | 3          | то сци                        |          | V (C) (EP-10.0)             | 2 00 G           | ALS. RETAINED   | Vindersigned (Officer)             | T Undersigned (C/E)             | T Undersigned (Master) | T e-Signature Status  | T Edito |
|   | 19 JAN 2016 | Ð-              | 13-             | 5          |                               | LGE WATI |                             |                  | C) CAPACITY 24.30 M <sup>3</sup> , 14.00 M <sup>3</sup>   | David Phillips                     | Sesus Fernandez                 | James Lawrence         | Verified              | pasea   |
|   | 19 JAN 2016 | Ð-              | 14-             |            |                               |          | 016 21:00 UP                |                  | 19 JAN 2016 23:00 HRS   | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   | 19 JAN 2016 | Ð-              | <del>14</del> - | 3          |                               |          | <del>K (C) (FR:19-9</del> 2 |                  |   | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   | 19-JAN-2016 | D               | 13              |            | 3 M <sup>a</sup> BI<br>RETAIN |          | ER FROM BILG                | SE TANK          | C) CAPACITY 24.30 M <sup>3</sup> , 17.00 M <sup>3</sup>   | David Phillips                     | lesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   | 19-JAN-2016 | D               | 14              |            | START:                        | 19-JAN-2 | 016 12:00 HR                | S, STOP:         | 19-JAN-2016 18:00 HRS   | Jesus Fernandiez                   | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   | 19-JAN-2016 | D               | 15              | 3          | TO SLU                        | DGE TAN  | K (C) (FR:19 92             | 2), 3.00 N       | <sup>3</sup> RETAINED   | Jesus Fernandez                    | Jesus Fernandez                 | James Lawrence         | Verified              | pasei   |
|   |             |                 |                 |            |                               | _        | _                           |                  | 7.00 M <sup>2</sup>   | Jesus Fernandez                    | Jesus Fernandez                 | James Lawrence         | Verified              | pasez   |
|   |             |                 |                 | + 8        | 19-OCT-2016                   | c        | 11                          | 1 2 3            | WASTE OIL TANK (P) (FR: 12-19)<br>5.00 M <sup>1</sup>   | Jesus Fernandez                    | lesus Fernandez                 | James Lawrence         | Verified              | pased   |
|   |             |                 |                 | + 9        | 19-OCT-2016                   | ¢        | 11                          | 1 2 3            | CHEMICAL CLEAN (C) (FR: 15-23)<br>15.00 M <sup>4</sup><br>5.00 M <sup>4</sup>   | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pasez   |
|   |             |                 |                 | + 10       | 19-OCT-2016                   | c        | "                           | 1<br>2<br>3      | INCINERATOR SLUDGE TANK (S) (FR: 15-26)<br>8.00 M <sup>8</sup><br>4.00 M <sup>8</sup>   | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   |             |                 |                 | + 11       | 19-OCT-2016                   | c        | 11                          | 1 2 3            | SLUDGE TANK (P) (FR: 16-25)<br>15.00 M <sup>1</sup><br>7.00 M <sup>3</sup>  | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   |             |                 |                 | + 12       | 19-OCT-2016                   | c        | 11                          | 1 2 3            | WASTE OIL TANK (P) (FR: 12-19)<br>8.00 M <sup>4</sup><br>5.00 M <sup>8</sup>  | David Phillips                     | Jesus Fernandez                 | James Lawrence         | Verified              | pase    |
|   |             |                 |                 | + 13       | 19-OCT-2016                   | c        | 12                          | 2                | 0.50 M <sup>4</sup> SLUDGE (OIL RESIDUES) TRANSFERRED FROM SLUDGE TAY   | vik (P) Pending                    |                                 |                        | Awaiting verification | pasei   |
|   |             |                 |                 | + 34       | 19-OCT-2016                   | C        | 13<br>14<br>15<br>11        | 3<br>1<br>2<br>3 | 1.00 M <sup>1</sup> BLGE OLY WATER FROM BLGE HOLDING TANK (P) (FR. 23<br>START: 19-OCT-2016 010 HRS, STOP: 19-OCT-2016 02:00 HRS<br>COLLECTE IN SULDGE TANK (P) (FR. 16-25) OF CAPACITY 15:00 M<br>SLUDGE TANK (P) (FR: 16-25)<br>15:00 M <sup>4</sup><br>7:50 M <sup>4</sup> |                                    |                                 |                        | Awaiting verification | paser   |
|   |             |                 |                 | + 15       | 19-OCT-2016                   | с        | 11                          | 4 1 2            | 1.00 M <sup>3</sup> COLLECTED FROM BILGE HOLDING TANK (P) (FR: 23-35)<br>CHEMICAL CLEAN (C) (FR: 15-23)<br>15:00 M <sup>3</sup>   | Pending                            |                                 |                        | Availing verification | pasei   |
|   |             |                 |                 | + 16       | 19-DCT-2016                   | c        | 11                          | 3<br>1<br>2      | 5.00 M <sup>4</sup><br>INCINERATOR SLUDGE TANK (S) (FR: 15-26)<br>8.00 M <sup>4</sup><br>4.50 M <sup>4</sup>  | Pending                            |                                 |                        | Awaiting verification | pase    |
|   |             |                 |                 |            | 10.007.2016                   | c        |                             | 3                | 4.50 MT   |                                    |                                 |                        |                       |         |



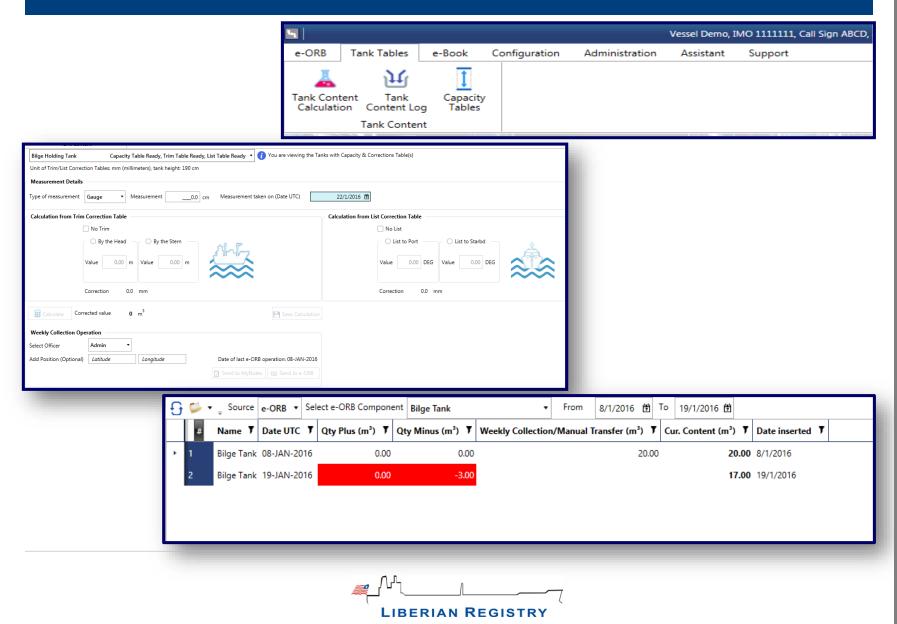
## ε-Book Tab

| Tanl | c Table             | es      | e-Bo    | ook Configuration Administration                                 | Assistant                              | Supp             | ort     |   |
|------|---------------------|---------|---------|--|--|------------------|---------|---|
| M    | MyNot               | tes     | Trans   | Tank Capacity Tank &<br>Tank Tables Piping Diagram               |  |                  |         |   |
|      |                     |         |         | Preview  |  |                  |         |   |
|      | Name :<br>Details : |         | emo     | 3 Part I (Machinery Space Operations)<br>Sign ABCD. Flag Liberta | Vessel Name<br>Vessel Details          |                  | Demo    | B.Part L (Machinery Space Operations) Sign ABCD, Flag Liberia   |
|      | Date                | Code    | Item No | Record of Operations/e-Signature of Officer in charge            | Date                                   | Code             | Item No | Record of Operations/e-Signature of Officer in charge   |
| 19-0 | CT-2016             | С       | 11.1    | CHEMICAL CLEAN (C) (FR: 15-23)                                   | 19-OCT-2016                            | с                | 11.1    | SLUDGE TANK (P) (FR: 16-25)   |
|      |                     |         | 11.2    | 15.00 M*   |  |                  | 11.2    | 15.00 M <sup>a</sup>  |
|      |                     |         | 11.3    | 5.00 M <sup>p</sup>  |  |                  | 11.3    | 7.00 M <sup>a</sup>   |
|      |                     |         |         | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016                |  |                  |         | SIGNED: JESUS FERNANDEZ, CHIEF ENGINEER, 26-OCT-2016  |
| 19-0 | CT-2016             | С       | 11.1    | INCINERATOR SLUDGE TANK (S) (FR: 15-26)                          | 19-OCT-2016                            | c                | 11.1    | WASTE OIL TANK (P) (FR: 12-19)  |
|      |                     |         | 11.2    | 8.00 M <sup>2</sup>  |  |                  | 11.2    | 8.00 M <sup>2</sup>   |
| -    |                     |         | 11.3    | 4.00 M <sup>2</sup>  |  | +                | 11.3    | 5.00 M <sup>2</sup>   |
|      | 07.0040             |         |         | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016                | 10.007.004                             |                  |         | SIGNED: JESUS FERNANDEZ, CHIEF ENGINEER, 26-OCT-2016  |
| 19-0 | CT-2016             | с       | 11.1    | SLUDGE TANK (P) (FR: 16-25)<br>15.00 M <sup>2</sup>              | 19-OCT-2016                            | c                | 11.1    | CHEMICAL CLEAN (C) (FR: 15-23)<br>15.00 M <sup>3</sup>  |
|      |                     |         | 11.2    | 7.00 M <sup>2</sup>  |  | +                | 11.2    | 5.00 M <sup>2</sup>   |
|      |                     |         | 11.0    | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016                |  | +                | 11.5    | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016   |
| 19-0 | CT-2016             | с       | 11.1    | WASTE OIL TANK (P) (FR: 12-19)                                   | 19-OCT-2016                            | c                | 11.1    | INCINERATOR SLUDGE TANK (S) (FR: 15-26)   |
|      |                     | -       | 11.2    | 8.00 M <sup>*</sup>  |  |                  | 11.2    | 8.00 M <sup>2</sup>   |
|      |                     |         | 11.3    | 5.00 MP  |  | +                | 11.3    | 4.00 M <sup>2</sup>   |
|      |                     |         |         | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016                |  |                  |         | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016   |
| 19-0 | CT-2016             | С       | 11.1    | CHEMICAL CLEAN (C) (FR: 15-23)                                   | 19-OCT-2016                            | C                | 11.1    | SLUDGE TANK (P) (FR: 16-25)   |
|      |                     |         | 11.2    | 15.00 M <sup>3</sup>   |  |                  | 11.2    | 15.00 M <sup>a</sup>  |
|      |                     |         | 11.3    | 5.00 M <sup>*</sup>  |  |                  | 11.3    | 7.00 M <sup>1</sup>   |
|      |                     |         |         | SIGNED: JESUS FERNANDEZ, CHIEF ENGINEER, 26-OCT-2016             |  | -                |         | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016   |
| 19-0 | CT-2016             | С       | 11.1    | INCINERATOR SLUDGE TANK (S) (FR: 15-26)                          | 19-OCT-2016                            | C                | 11.1    | WASTE OIL TANK (P) (FR: 12-19)  |
| -    |                     |         | 11.2    | 8.00 M <sup>2</sup><br>4.00 M <sup>2</sup>                       |  |                  | 11.2    | 8.00 M <sup>2</sup><br>5.00 M <sup>2</sup>  |
|      |                     |         | 11.3    | NOV M*<br>SIGNED: JESUS FERNANDEZ, CHIEF ENGINEER, 26-OCT-2016   |  | -                | 11.3    | SIGNED: DAVID PHILLIPS, 2ND ENGINEER, 20-OCT-2016   |
|      | rC/E<br>on : 16 N   | : 26-04 |         | z Name of Master : James Lawrence                                | C/E e-Signature<br>Name of C/E<br>Date | : Jesu<br>: 20-0 |         | Master e-Signature         United Lawrence           IZ         Name of Master         : James Lawrence |
|      | by : e-Of           |         |         | 1  | /8 Printed by : e-                     |                  |         | 2/8   |
|      |                     |         |         |  |  |                  |         |   |

## **Configuration Tab**



### Tank Tables Tab



## ε-Signature

### The e-Signature pad provides extra security

| Edit User<br>Username<br>User Type<br>Password<br>Re-type Password<br>User Account Active?<br>Name & Surname | Admin Master                  | e-Signature - 🗆 🗙  |   |
|--|-------------------------------|--|---|
| Vessel<br>User Group<br>e-Signature Authorizatior  | Vessel Demo   AllowAllActions | HID Devices         Device 1         Type: Sigma HID         Port: HID           Get Devices         Firmware: 1.22         Display: 320 x 160 Pixel           Serial: 1000112552         Serial: 1000112552 |   |
| Sign Off Date  | Enter date 🛱                  | Retry       Confirm         Admin       Master e-Signature         Master       Master   | x<br>uiring Master e-Signature<br>ed.<br>20/1/2016 10:34 III<br>Admin T |
| -  |                               | Password<br>Re-type Password   | •••••   |
|  |                               | signotec   | Confirm   |

# Minimum Requirements for the Software Installation

- Minimum Ram 2 GB. For remote stations on board minimum ram 1 GB
- Recommended screen: 15"
- Resolution: 1280 x 720
- Windows platform: Minimum Windows XP Service Pack 3
- Storage Size: 256 MB
- CPU 800 MHz

| <b>#</b>          |  |
|-------------------|--|
| LIBERIAN REGISTRY |  |

# Industry Associations & Governmental Organizations



### The Liberian Registry and P@S has met with:

- Intertanko/Intercargo (June 2016)
- USCG (September 2016, Jan. 2017, May 2017)
- IMO (October 2016)
- EMSA (October 2016)
- OCIMF (October 2016)
- German flag State & PSC (November 2016)
- Malta flag State (January 2017)
- Luxembourg flag State (January 2017)
- Paris MOU (February 2017)
- Japan flag State (March 2017)
- AMSA (March 2017)

N REGISTR

### Assistance & Support



### We provide assistance at 3 different levels:

- Updates to the software (IT and regulatory)
- Customization guidance
- Technical assistance on MARPOL regulations



### Software Pricing Plans

LIBERIAN REGISTRY

| OUTRIGHT PURCHASE |   |  |  |  |  |  |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|--|--|--|--|--|
|                   | PART I PART I & II  |  |  |  |  |  |  |  |  |  |  |
| \$1,600 \$1,750   |   |  |  |  |  |  |  |  |  |  |  |
| 1                 | Basic ε-ORB software<br>Piping diagram module: assists in designing the ship's piping<br>diagram and recording operational entries by using those<br>diagrams |  |  |  |  |  |  |  |  |  |  |
|                   | Sounding tables module: assists in the rapid calculation of contents inside a tank<br>12 months of software and regulatory support                            |  |  |  |  |  |  |  |  |  |  |

\* Buy the software upfront and pay only \$250/year for annual maintenance and support in future years

### PAY AS YOU SHIP PLAN

| PARTI           | PART I & II     |
|-----------------|-----------------|
| \$589/ship/year | \$619/ship/year |

\* Instead of buying the software outright, pay a yearly fee for the software (includes all the features of outright purchase version and future years' annual maintenance and support)

### **Additional Options**

### Customization

Customization Fee \$999/lead ship

\* Contact us for a full quote based on fleet size and characteristics

### **Cloud Portal**



\$144/ship/year

\* The cloud portal ensures secure back-up and access to your vessels' ε-ORBs from ashore, and gives you the ability to run reports, search and benchmark data across your fleet

#### Accessories

| INDIVIDUAL COMPONENTS                     | PRICE (\$) |
|---|------------|
| SIGNATURE PAD                             | 250        |
| SIGNATURE PAD BIOMETRIC DATA VERIFICATION | 110        |
| DISASTER RECOVERY BACK-UP DEVICE          | 350        |

\* Signature pad items are subject to the supplier's pricing list





Additional Information and trial version available: <u>www.liscr.com/eorb</u>

> Email eorb@liscr.com





Finally, an approved **Electronic Oil Record Book** that meets the needs of today's regulatory environment. The  $\varepsilon$ -ORB ensures accuracy and affords peace of mind.



