

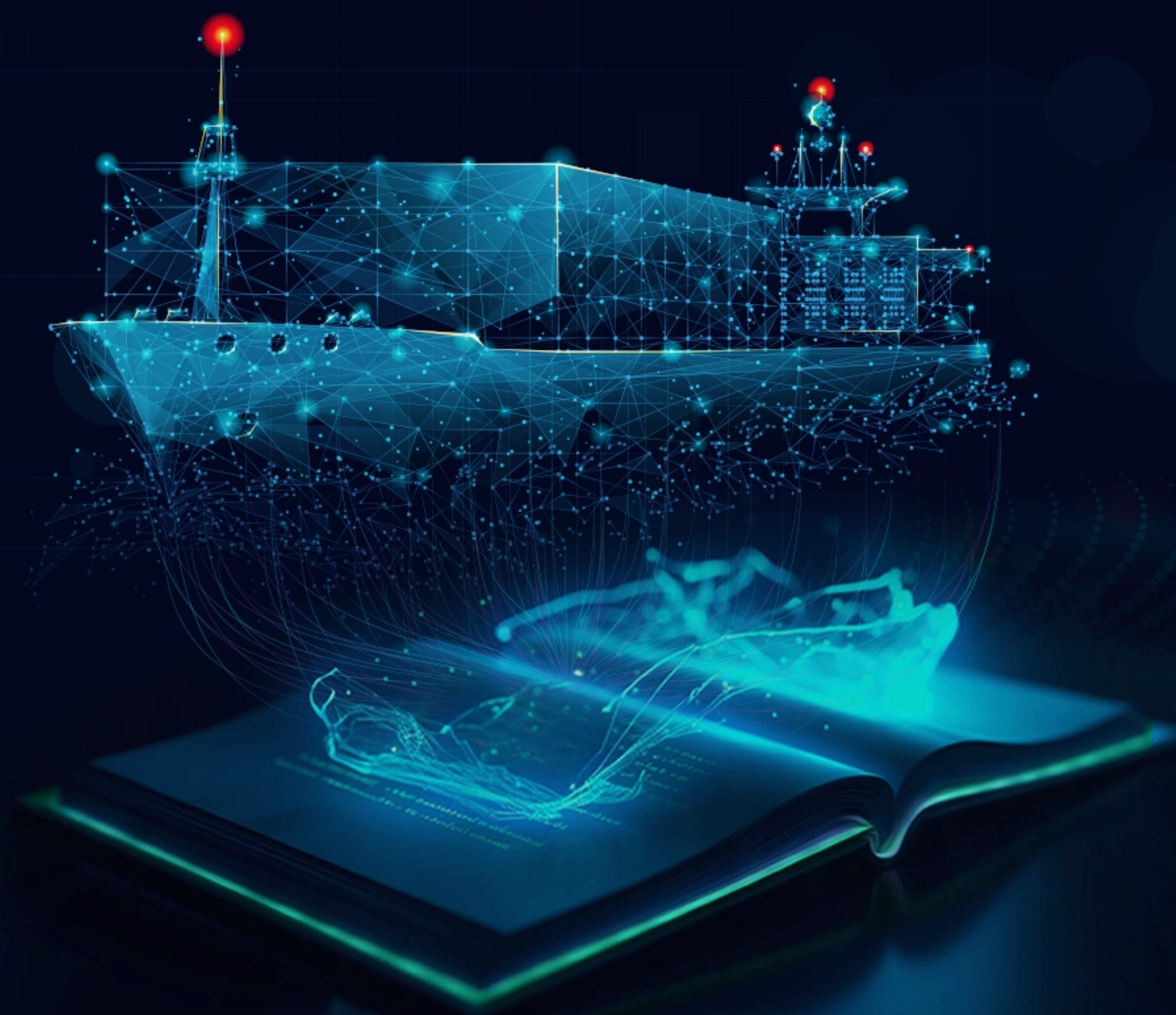
# MariApps Marine Solutions *smart*Logs



**eRBooks**



**eLogs**

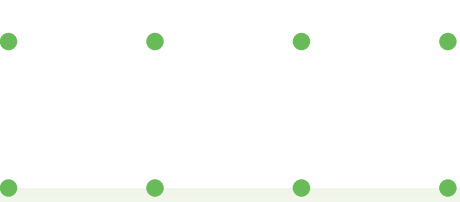






# eRBooks

Replacing traditional paper  
MARPOL record books





# Electronic Record Books (eRBooks)



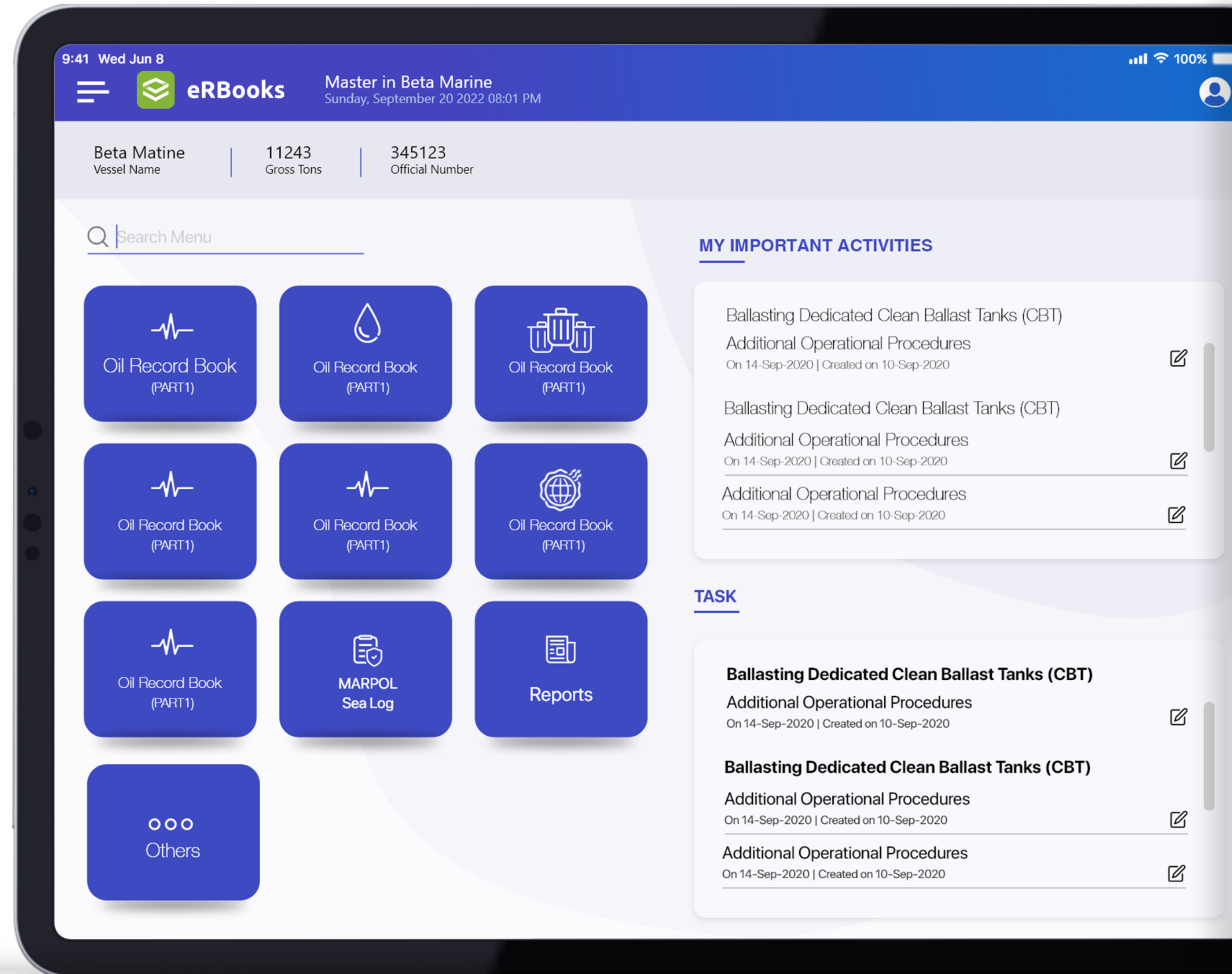
Replacing traditional paper record books

- ✓ Oil Record Book Part 1 (ORB Part 1)
- ✓ Oil Record Book Part 2 (ORB Part 2)
- ✓ Cargo Record Book 1 (Annex II)
- ✓ Emission Record Book (Annex VI)\*
- ✓ Ozone Depleting Substance Record Book (Annex VI)
- ✓ Ballast Water Record Book#
- ✓ Garbage Record Book Part 1 (GRB Part 1)
- ✓ Garbage Record Book Part 2 (GRB Part 2)
- ✓ Biofouling Record Book (Part 1 & Part 2)!
- ✓ MARPOL Seal Logs
- ✓ Bunker Sample History Log
- ✓ Sewage and Grey Water Record Book (Cruise)
- ✓ Sewage Management Record (Cargo)
- ✓ Sewage Treatment Plant (STP) Daily Log

\* Fuel Change and Tier Status Change Over Record

# New format from 2025

! New format since 2024





# Advantages of *smartPAL's* eRBooks



- ✓ User-friendly interface
- ✓ Web-based
- ✓ Maintenance & support plan
- ✓ Recordkeeping by authorized personnel
- ✓ Encrypted data with AES-256
- ✓ Reminders for pending tasks
- ✓ Overview of key operations on one display
- ✓ Automated analytical reports
- ✓ Increase transparency, reduce human error
- ✓ Mandatory software updates that ensure compliance with regulations







# Compliance with MARPOL and IMO



## MARPOL's Requirements

The International Convention for the Prevention of Pollution from Ships (MARPOL) is the main international convention governing prevention of pollution of the marine environment by ships from operational or accidental causes and currently includes six annexes.

## IMO Requirements

- ✓ Complies with RESOLUTION MEPC.312(74)
- ✓ Secured multi-step password protection
- ✓ Automatic validation of entries
- ✓ eSignature for authorization
- ✓ Feature to add attachments
- ✓ Facility to upload flag circulars and communicate to the vessel
- ✓ History achieved and without data storage limitations
- ✓ Easy back up, restore and audit options
- ✓ Export to compatible data formats
- ✓ Easily trackable audit log facility
- ✓ Continuous software updates and support
- ✓ Option to make entries across Dateline
- ✓ Multi level back up and restore facilities
- ✓ Time zone selection hence entries remain in local time





# Compliance and Legal Aspects



Complies with all criteria as per MEPC.312(74) and all other relevant IMO regulations



## Oil Record Book I & II (Annex I)

- ✓ MARPOL Annex I Regulation 17 - Oil Record Book, Part I (Machinery space operations)
- ✓ MARPOL Annex I Regulation 36 - Oil Record Book, Part II (Cargo/ ballast operations)
- ✓ MEPC.1 Circ.736 Rev.2 Guidance for The Recording of Operations in The Oil Record Book Part I Machinery Space Operations
- ✓ International Maritime Organization (IMO) Resolutions A.813(19)1 & A.916(22)2 and IMO Circular MSC/Circ.9823



## Garbage Record Book I & II (Annex V)

- ✓ MARPOL Annex V Regulation 9 Placards, garbage management plans and garbage record-keeping
- ✓ Resolution MEPC.277(70) adopted in Oct 2016
- ✓ Guidelines for the implementation of MARPOL Annex V MEPC. 219(63)
- ✓ Resolution MEPC 277(70) adopted amendment to MARPOL Annex V for the discharge of cargo residue containing substance that are harmful to marine environment (HME) and Format of Garbage record book.



## Emission Record Book (ORB-III)

- ✓ MARPOL Annex VI Regulation 12 (Ozone-depleting substances)
- ✓ MARPOL Annex VI Regulation 13 (Nitrogen Oxides NOx )
- ✓ MARPOL Annex VI Regulation 14 (Sulphur Oxides SOx)
- ✓ MARPOL Annex VI Regulation 15 (Volatile Organic Compounds VOCs)
- ✓ MARPOL Annex VI Regulation 16 (Shipboard Incineration)
- ✓ MARPOL Annex VI Regulation 17 (Reception Facilities)
- ✓ Resolution MEPC.176(58) adopted on 10th Oct 2008

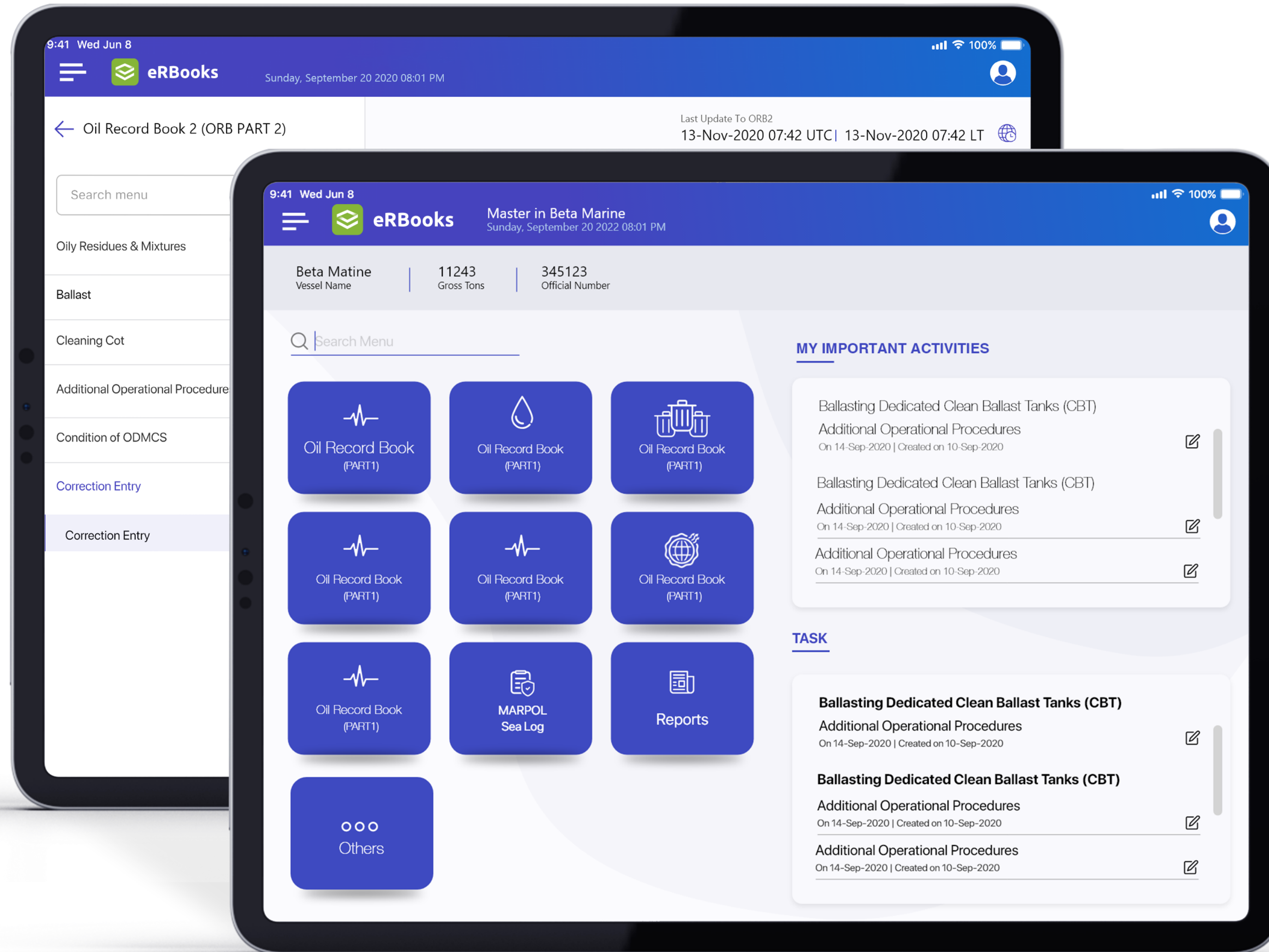


## Cargo Record Book (Annex I – Noxious liquid substances in bulk)

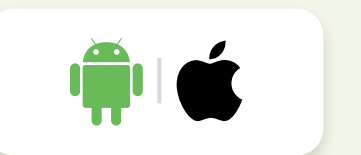
- ✓ MARPOL Annex II Regulation 15 Cargo Record Book
- ✓ RESOLUTION MEPC.118(52) adopted on 15th Oct 2004



# eRBooks On Handheld Devices



Available On





# Intuitive Data Entry



### Garbage Record Book 1 (GRB PART 1)

Discharge	Activities	Discharge to :
Exceptional Discharge	Search menu <input type="text"/>	Start Date & Time * 22-Sep-2020 11:08
Incineration	Discharge to Sea-Food Waste (In Special Area)	Start Position Latitud <input type="text"/>
Missed Activity	<b>Discharge to Sea-Food waste (Outside Special Area)</b>	Start Position Longitu <input type="text"/>
	Discharge to Sea-Animal Carcasses (Outside Special Area)	Stop Date Time * 22-Sep-2020 11:08
	Discharged to Other Ship/ Barge	Stop Position Latitud <input type="text"/>
	Discharged to Shore	Stop Position Longitu <input type="text"/>

Category & Code \*

B - Food waste

### Oil Record Book 1 (ORB PART 1)

Accident	Activities	Bilge Water Overboard :
Ballast/Cleaning of Fuel Oil Tanks	Search menu <input type="text"/>	Source * Select any
Bilge Water	<b>Bilge Water Overboard through 15 ppm</b>	Start Date & Time * 22-Sep-2020 13:42
Bunkering/Debunkering	Bilge Water to Shore Reception	Start Position Lat * <input type="text"/>
Equipment	Disposal Sludge Ashore	Start Position Long * <input type="text"/>
Incinerate/Burn	Disposal of Sludge Drums Ashore	Stop Date & Time * 22-Sep-2020 13:42
Initial Entry		Stop Position Lat * <input type="text"/>
Inventory		Stop Position Long * <input type="text"/>
Miscellaneous		
Missed/Correction Entry		
Sludge /Oily Water Residues		
Soot		
<b>To Sea/Shore Reception</b>		



### Ballast Water Record Book



Ballast Water Management & Other Operations	Activities	Ballasting of Tanks
<b>Ballasting</b>	Search menu <input type="text"/>	Destination * Select Any
Deballasting	<b>Ballasting of Tanks</b>	Start Date & Time * 22-Sep-2020 11:10
Accident		Port Or Latitude Longitude * <input type="text"/>
		Start Latitude <input type="text"/>
		Start Longitude <input type="text"/>
		Stop Latitude <input type="text"/>
		Stop Longitude <input type="text"/>
		Port * <input checked="" type="radio"/> In <input type="radio"/> Outside
		Remarks * <input type="text"/>



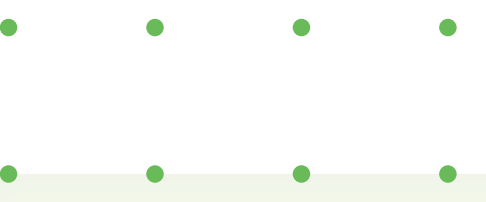
# Print Formats - Matching IMO requirements



Oil Record Book 1 (ORB PART 1)			
Name of Ship : Yuan		Official Number : XXXX	
IMO Number : 9532599			
Date	Code	Item	Record of operations/Signature of officer in charge
06-Sep-2020	G	22	06-Sep-2020 22:13Hrs
		23	Place or Position: Kochi
		24	Type: 1 and Quantity of oily residue : 1 m <sup>3</sup>
		25	Circumstances of the discharge: test
			Signature in Charge: 2nd Engineer, 06-Sep-2020 22:44  Soideville Jr. Tushar Pramod 2020 23:54 <small>MARKED INVALID BY ENGINEER (SOLDEVILLE TUSHAR PRAMOD)</small>
			Signature Chief Engg:
			*
06-Sep-2020	G	22	06-Sep-2020 22:14Hrs
		23	Place or Position: Koh Samui
		24	Type: 1 and Quantity of oily residue : 1 m <sup>3</sup>
		25	Circumstances of the discharge: test1
			Signature In Charge: 2nd Engineer , 06-Sep-2020 22:44  Soideville Jr. Tushar Pramod

GARBAGE RECORD BOOK RECORD OF GARBAGE DISCHARGES PART I - (All ships) For all garbage other than cargo residues as defined in regulation 1.2 definitions							
Name of Ship : Yuan		Official Number : XXXX		IMO Number : 9532599			
<b>Garbage categories</b> A-Plastic B-Food waste C-Domestic wastes(e.g. paper products, rags, glass, metal, bottles, crockery, etc) D-Cooking oil E-Incinerator ashes F-Operational wastes G-Animal carcasses H-Fishing gear I-Electronic waste							
<b>Operational discharges under MARPOL Annex V regulations 4 (Discharge of garbage outside special areas), 5 (Special requirements for discharge of garbage from fixed or floating platforms) or 6 (Discharge of garbage within special areas) or chapter 5 of part II-A of the Polar Code</b>							
Date/Time	Position of the ship (latitude/longitude) or port if discharged ashore or name of the ship if discharged to another ship	Category	Estimated amount discharged		Estimated amount incinerated (m <sup>3</sup> )	Remark: (e.g. start/stop time and position of incineration; general remarks)	Certification Signature
			Into Sea (m <sup>3</sup> )	To reception facilities or to another ship (m <sup>3</sup> )			
15-Jun-2020 14:08	Lat:1°2' N, Long:3°4' E	E	1,000 m <sup>3</sup>				 Master 22-Jun-2020 16:00
18-Jun-2020 16:49	Lat:1°2' N, Long:3°4' E	A	1,000 m <sup>3</sup>				 Chief Officer 18-Jun-2020 16:00

# Type Approvals







# Flag Approvals Received



MARSHALL ISLANDS



PANAMA



JAPAN



FINLAND



LIBERIA



GERMANY



SINGAPORE



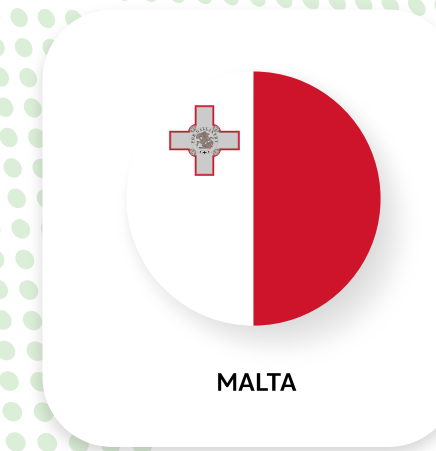
HONG KONG



CYPRUS



KOREA



MALTA



ISLE OF MAN



GIBRALTAR



PORTUGAL



SWEDEN



BARBADOS



BAHAMAS



MALAYSIA



USCG



**eLogs**

Paper Gone. Data On



# smartPAL's Electronic Logbooks (eLogs)

Paper Gone. Data On

## IMO Requirements

- ✓ Engine Logbook
- ✓ Deck Logbook
- ✓ GMDSS Radio Logbook
- ✓ Radar Log
- ✓ Compass Observation Log

## Upcoming Logbooks:

- ✓ Ship Security Logbook
- ✓ Controlled Drugs Register
- ✓ Key Register
- ✓ Medical Record Book
- ✓ Bridge Bell Book\*
- ✓ Engine Bell Book\*
- ✓ Marine Visitor Logbook\*
- ✓ Reefer Plant Logbook

\* Only Mobile App, one report in Web-based version



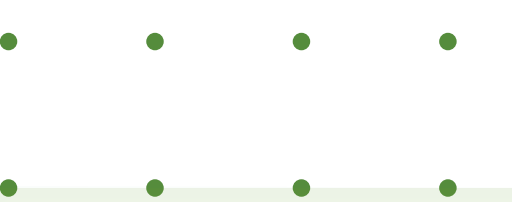
# Advantages of *smartPAL's* eLogs



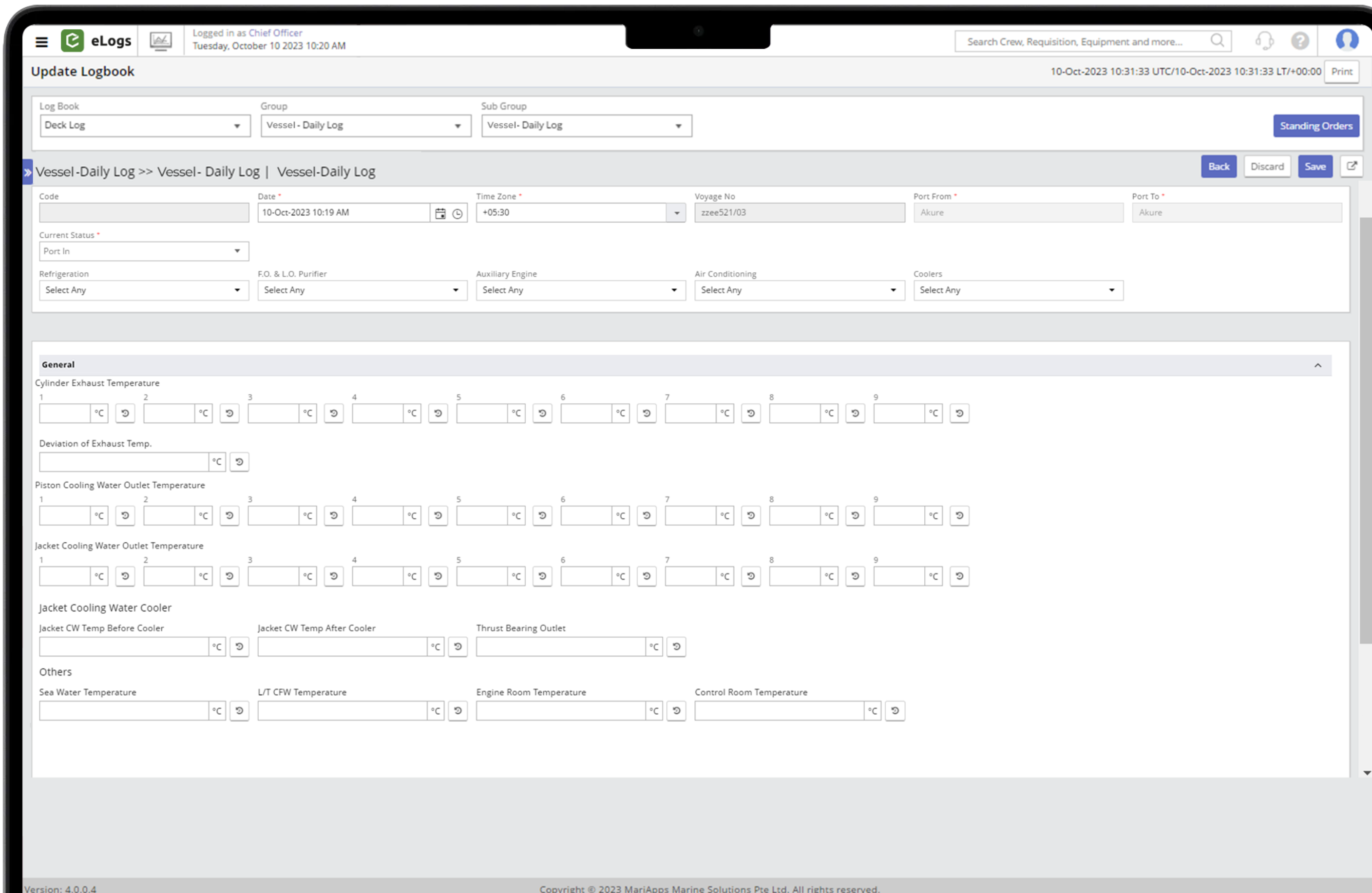
- ✓ Automated calculations & validations
- ✓ User-friendly interface
- ✓ Web-based
- ✓ Efficient record keeping
- ✓ Compliance with IMO regulations
- ✓ Maintenance & support plan
- ✓ Mandatory software updates that ensure compliance with regulations
- ✓ Recordkeeping by authorized personnel
- ✓ Secured access (Multi-layer security)
- ✓ eSignature facility
- ✓ Increase transparency, reduce human error

## Fully Integrated with:

- ✓ eRBooks
- ✓ *smartOps*
- ✓ Crewing
- ✓ HSEQ
- ✓ Maintenance



# Intuitive Data Entry Screen



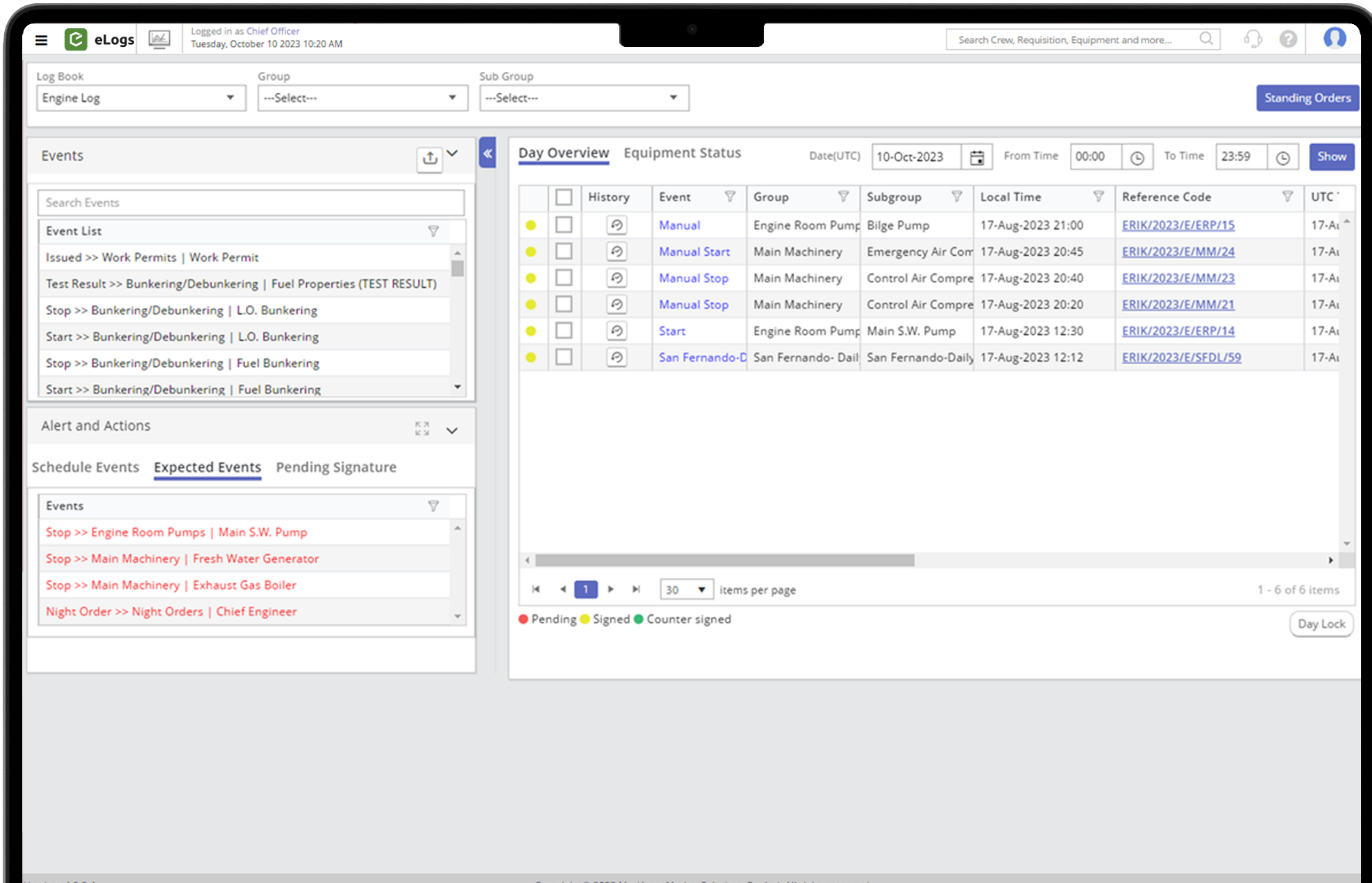
The screenshot displays the 'Update Logbook' interface in the eLogs application. The user is logged in as 'Chief Officer' on Tuesday, October 10, 2023, at 10:20 AM. The current date and time are 10-Oct-2023 10:31:33 UTC/10-Oct-2023 10:31:33 LT/+00:00. The interface includes a search bar for crew, requisition, and equipment. The main form is titled 'Vessel-Daily Log' and contains several sections:

- Log Book Selection:** 'Deck Log' (selected), 'Vessel - Daily Log' (Group), and 'Vessel - Daily Log' (Sub Group).
- Metadata:** Code, Date (10-Oct-2023 10:19 AM), Time Zone (+05:30), Voyage No (zee521/03), Port From (Akure), and Port To (Akure).
- Current Status:** 'Port In'.
- Equipment Status:** Refrigeration, F.O. & L.O. Purifier, Auxiliary Engine, Air Conditioning, and Coolers, all set to 'Select Any'.
- General Section:**
  - Cylinder Exhaust Temperature:** 9 input fields (1-9) for temperature in °C.
  - Deviation of Exhaust Temp.:** 1 input field for temperature in °C.
  - Piston Cooling Water Outlet Temperature:** 9 input fields (1-9) for temperature in °C.
  - Jacket Cooling Water Outlet Temperature:** 9 input fields (1-9) for temperature in °C.
  - Jacket Cooling Water Cooler:** Jacket CW Temp Before Cooler, Jacket CW Temp After Cooler, and Thrust Bearing Outlet, each with an input field for temperature in °C.
  - Others:** Sea Water Temperature, L/T CFW Temperature, Engine Room Temperature, and Control Room Temperature, each with an input field for temperature in °C.

At the bottom of the screen, the version is 4.0.0.4 and the copyright is © 2023 MariApps Marine Solutions Pte Ltd. All rights reserved.



# Intuitive Data Entry Screen

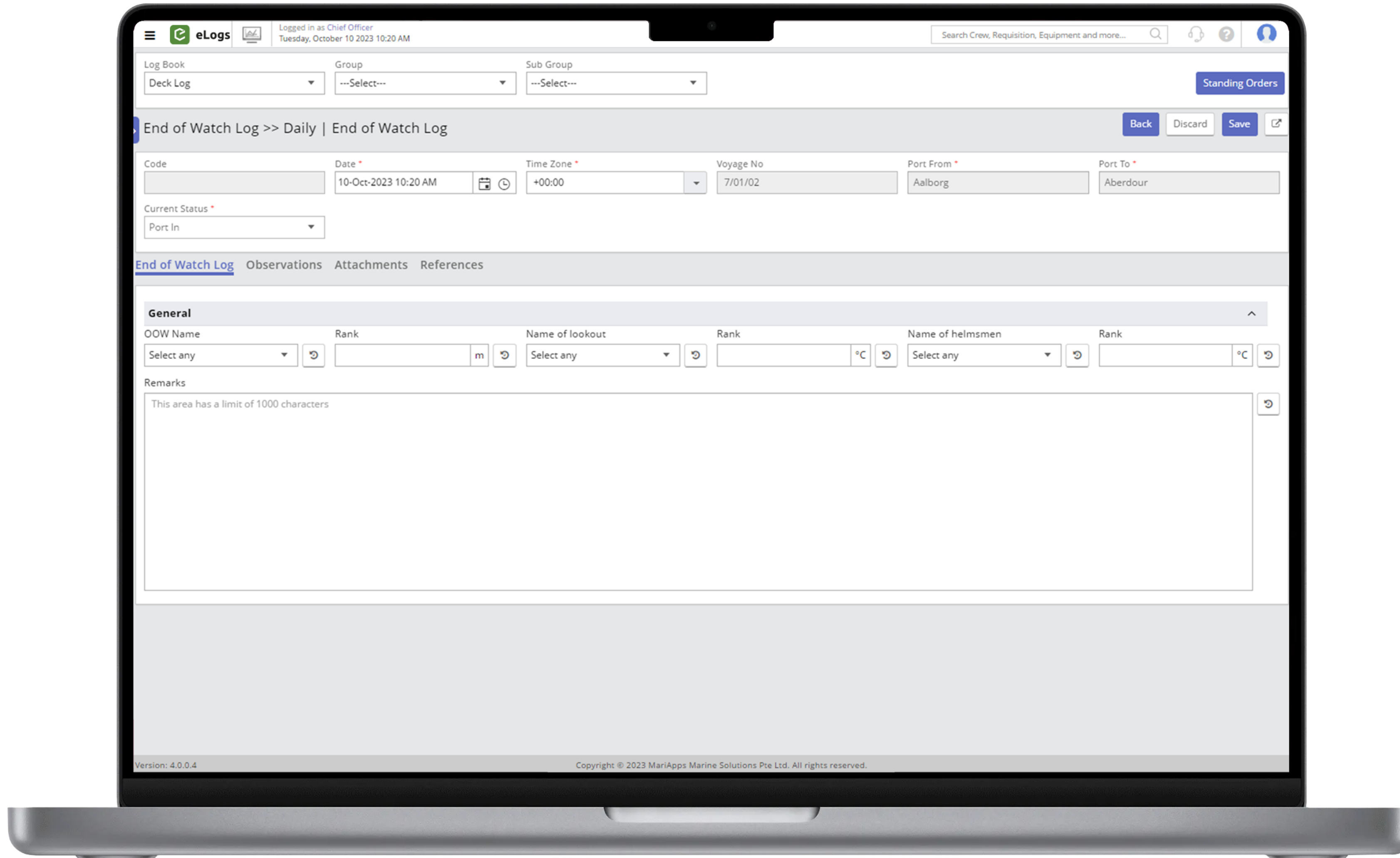


The screenshot displays the eLogs software interface on a laptop screen. The user is logged in as Chief Officer on Tuesday, October 10, 2023, at 10:20 AM. The interface is divided into several sections:

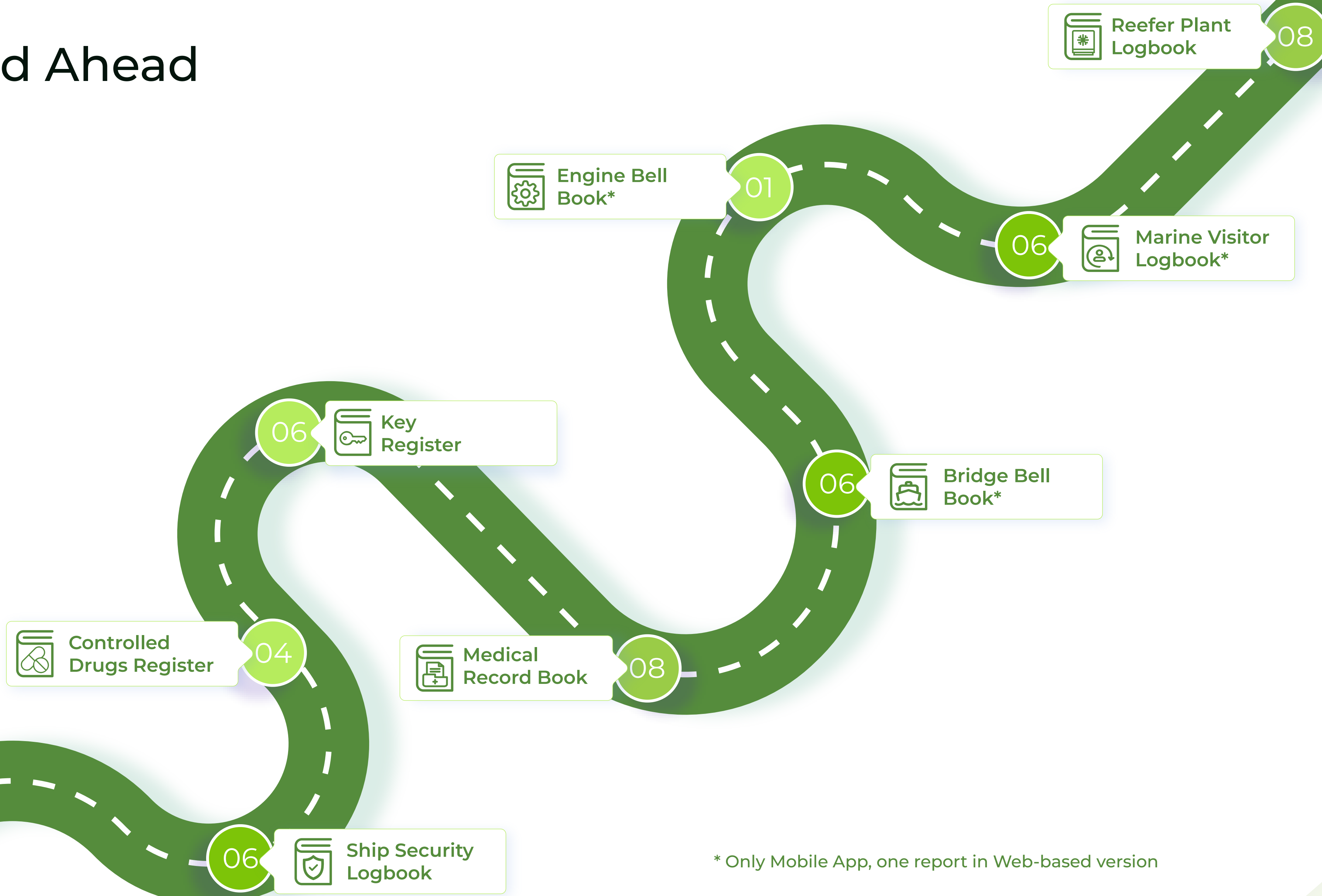
- Log Book:** Includes dropdown menus for Log Book (Engine Log), Group, and Sub Group. A "Standing Orders" button is visible on the right.
- Events:** A search bar and a list of event categories such as "Issued >> Work Permits | Work Permit", "Test Result >> Bunkering/Debunkering | Fuel Properties (TEST RESULT)", and "Stop >> Bunkering/Debunkering | L.O. Bunkering".
- Alert and Actions:** A section for "Schedule Events" with tabs for "Expected Events" and "Pending Signature". It lists events like "Stop >> Engine Room Pumps | Main S.W. Pump" and "Night Order >> Night Orders | Chief Engineer".
- Day Overview:** A table showing equipment status for the date 10-Oct-2023. The table includes columns for History, Event, Group, Subgroup, Local Time, Reference Code, and UTC. The data shows events for 17-Aug-2023, including Manual, Manual Start, Manual Stop, Start, and San Fernando-D.

At the bottom of the screen, the version number 4.0.0.4 and copyright information for MariApps Marine Solutions Pte Ltd. are displayed.

# Intuitive Data Entry Screen



The screenshot displays the eLogs application interface on a laptop. The top navigation bar includes the eLogs logo, user information (Logged in as Chief Officer, Tuesday, October 10 2023 10:20 AM), and a search bar. Below the navigation bar, there are dropdown menus for 'Log Book' (Deck Log), 'Group' (---Select---), and 'Sub Group' (---Select---). A 'Standing Orders' button is located to the right of these menus. The main content area is titled 'End of Watch Log >> Daily | End of Watch Log' and includes buttons for 'Back', 'Discard', 'Save', and a share icon. The form contains several input fields: 'Code', 'Date' (10-Oct-2023 10:20 AM), 'Time Zone' (+00:00), 'Voyage No' (7/01/02), 'Port From' (Aalborg), and 'Port To' (Aberdour). A 'Current Status' dropdown is set to 'Port In'. Below the form, there are tabs for 'End of Watch Log', 'Observations', 'Attachments', and 'References'. The 'General' section is expanded, showing fields for 'OOW Name' (Select any), 'Rank', 'Name of lookout' (Select any), 'Rank', 'Name of helmsmen' (Select any), and 'Rank'. A 'Remarks' text area is also present, with a note that it has a limit of 1000 characters. The footer of the application shows 'Version: 4.0.0.4' and 'Copyright © 2023 MariApps Marine Solutions Pte Ltd. All rights reserved.'



\* Only Mobile App, one report in Web-based version



# Client List



VENTURE GLOBAL



# Global Presence



## Germany

Vorsetzen 54 20459 Hamburg,  
Germany

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## India

MariApps House, Plot No A2-09, SmartCity Kochi SEZ,  
Kakkanad, Ernakulam, Kerala Kochi – 682042

---



## USA

9700 S. Dixie Highway #810,  
Miami, FL 33156, USA

---



## Japan

Fukokuseimei Building 17F, 2-2, Uchisaiwaicho 2 Chome,  
Chiyoda-ku, 100-0011 Tokyo, Japan

---



## KSA

P.O. Box 79800, Al Khobar 31952,  
Kingdom of Saudi Arabia

---



## Singapore

108 Middle Road, #09-00,  
Bernhard Schulte House, Singapore 188967

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## Cyprus

Hanseatic House, 111 Spyrou Araouzou,  
St. 3036 Limassol, Cyprus

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## UAE

#205, JBC 2, Cluster V, Jumeirah Lake Towers,  
Dubai, UAE

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## France

Quai d'Arenc CS 10571 – Sky Center,  
La Marseillaise 13001, Marseille

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