Certificate no.:
TAA00003TD

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Electronic record book (ELRB)

with type designation(s)
Log version X

issued to
NauticAi Oy
Espoo, **Finland**

is found to comply with
Resolution MEPC.312(74)
Resolution MEPC.372(80)
IMO Resolution MSC.302(87) Performance standards for Bridge Alert Management
DNV rules for classification – Ships

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2026-01-08**
This Certificate is valid until **2031-01-07**.
DNV local unit: **Finland CMC**

for **DNV**

Approval Engineer: **Tommi Juhani Rifaat**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

This Type Approval Certificate (TAC) covers software (SW) for electronic recording, storing and presentation of data for the below listed *Electronic Record Book* (ELRB). The SW may either be installed on a dedicated server, alternatively on client(s)/server in the vessels (existing) computer network system. The SW enables automatic storage of recorded entries to an offline storage device.

ELBR	Type, reference	Covered by this TAC
MARPOL - MEPC.312(74) ISO 21745*	Oil Record Book, parts I (MARPOL Annex I, reg. 17.1)	Yes
	Oil Record Book, parts II (MARPOL Annex I, reg. 36.1)	Yes
	Cargo Record Book (MARPOL Annex II, reg. 15.1)	Yes
	Garbage Record Book, parts I (MARPOL Annex V, reg. 10.3)	Yes
	Garbage Record Book, parts II (MARPOL Annex V, reg. 10.3)	Yes
	Ozone-depleting Substances Record Book (MARPOL Annex VI, reg. 12.6)	Yes
	Recording of the Tier and on/off status of marine diesel engines (MARPOL Annex VI, reg. 13.5.3)	Yes
	Record of Fuel oil Changeover (MARPOL Annex VI, reg. 14.6)	Yes
	Record Book of Engine Parameters (NOx Technical Code, paragraph 6.2.2.7)	Yes
Ballast water – MEPC.372(80)	Ballast Water Record Book (Appendix II Form of ballast water record book, as amended by MEPC.369(80)) according to ballast water convention.	Yes
Engine Record Book	ISO 21745*	Yes
Radio Record Book	SOLAS V. Reg.28, ISO 21745*	Yes
Deck Record Book	ISO 21745*, IMO Res. A.916(22), and as amended for logbooks in: SOLAS II, SOLAS III, SOLAS V	Yes

*SW application only, excluding HW.

Software version: 1.x.x

Application/Limitation

To accept the subject SW for Electronic Record Book in lieu of the traditional paper-based record book on DNV classed vessels, and further to issue the corresponding *Declaration of MARPOL Electronic Record Book*, the following is required:

- The subject TAC is accepted by the vessels Flag Administration.
- Installation onboard has been successfully tested and verified as per manufacturers documentation.
- If a Central Alert Management system (CAM) is installed on the bridge, the ELRB shall be interfaced to the CAM.
- The ELRB shall be interfaced to the VDR for Logbook entries as described in MSC.333.(90)
- The below listed system requirements and HW/installation requirements are complied with:

  - System server is to be installed in accordance with ISO 21745:2019, IMO MEPC.312(74) and MEPC.372(80) and as per manufacturers documentation.
  - System clients are to be installed in Windows PC environment.
  - End user organisation shall have a valid system support subscription with the manufacturer or their appointed representative.
  - Where eIDAS QES signing is required, the End User must obtain a compatible QES signature token from an eIDAS TSP (Trust Service Provider)

Type Approval documentation

DNV No	Drw No	Rev	Title
18	TAA00003EF		Certificate: DNV, Guangzhou Robustel MG460 Gateway
16		2	Drawing: NauticAi, System Block Diagram
22		5	Manual: NauticAI Log version X - System manual Annex A
23			Report: NauticAi, DNV Test procedure for type testing – IEC 62288
24			Report: NauticAi, DNV Test procedure for type testing – CAM/BAM functions

DNV No	Drw No	Rev	Title
25			Report: NauticAi, DNV Test procedure for type testing – ISO 21745, IMO MEPC.312(74), MEPC.372(80) and IMO Res.916(22), DNV-CP-056 and TAP 863.10.
26			Report: NauticAi, DNV Test procedure for type testing – IEC 61162

Tests carried out

Performance testing: ISO 21745 (2019)
Interface testing: IEC 61162-1 (2024)*
Interface testing: IEC 61162-450 (2024)*
Presentation testing: IEC 62288 (2021)
Bridge Alert Management testing: IEC 62923-1, IEC 62923-2 (2018)

* SW application only, excluding HW.

Logbook tested to fulfil requirements for record books as required in ISO 21745, MEPC 312(74), MEPC.372(80), IMO Res.916(22), DNV-CP056 and TAP 863.10

Marking of product

NauticAi Log version X Sw version: 1.x.x

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

A renewal assessment will be performed at renewal of the certificate.

Manufactured by:

NauticAi Oy: Ylätie 6 B 02300, Espoo, Finland