Certificate no.:
TAA00003Z1

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Data Collection Infrastructure

with type designation(s)
K-IMS Data Integration Platform

issued to
Kongsberg Maritime AS
Kongsberg, Norway

is found to comply with

DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security

Application:

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

This type approval covers security capabilities in accordance with DNV security profile 1 and IACS UR E27, subject to conditions stated in this certificate.

Issued at **Høvik** on **2026-10-29**

This Certificate is valid until **2028-10-28**.
DNV local unit: **East & South Norway CMC**

Approval Engineer: **Mai H. Tran**

for **DNV**
Digitally signed by: Jarle Coll Blomhoff
Location: DNV Høvik, Norway

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

Kongsberg Information Management System (K-IMS) is a data integration platform designed to collect, view, analyse, report and transfer time series and event data via the Kongsberg Global Secure Network (K-GSN).

The details of the hardware and software components may be found in the type approved document F071 K-IMS - Asset Inventory, 110-0060694 Rev. D.

Changes to the type approved system shall be managed in accordance with document KM-PROC-0080. Major changes shall be documented and submitted to DNV for verification of compliance with applicable requirements, witness new type test and revise this TA certificate. Minor changes are covered by this type approval.

A log of all change reports shall be submitted upon renewal of this TA certificate.

Approval conditions

If the type approved system is part of scope (SuC) for class notation Cyber Secure(Essential, +) it shall be delivered with a vessel-specific Product Certificate (PC). The product certificate shall be issued based on the following verification as per DNV-RU-SHIP Part 6 Chapter 5 Section 21:

1) It shall be demonstrated that the architecture of each delivery is documented in a project-specific system topology (F030) and that is consistent with type approved document 110-0060707, Rev. C, K-IMS System topology.
2) It shall be demonstrated that each delivery is correctly represented by a vessel-specific asset inventory (F071) and that this inventory is consistent with type approved document 110-0060694, Rev. D, K-IMS Asset inventory.
3) It shall be demonstrated by a test report (Z262) that each delivery has been configured and hardened as per the type approved document 110-0081381, Rev. C, K-IMS Security Configuration Guideline. Document 110-0153087, Rev. A, Cyber security IACS SL1 (E27) Configuration Checklist should be used as a template for test report (Z262).

Certification testing of cyber security capabilities is not required if the delivery is fully covered by this TA certificate.

If a delivered system differs from the type approved system, this shall be described and submitted for approval.

Application/Limitation

The following conditions shall be satisfied when the system is installed and used on a vessel where the class notation Cyber Secure applies:

K-IMS may be integrated with other systems and equipment as per below:
- Third party systems and equipment may connect using serial communication, PI, MQTT or OPC UA.
- The virtualised operator station (Cabin OS) is approved for view-only functionality
- K-IMS constitutes a separate security zone and shall be connected to the Kongsberg K-GSN router/firewall as per type approval TAA00003F4.

All the above connected systems and equipment shall be allocated to a security zone onboard.

K-IMS may also be integrated with the below systems and equipment:
- Kongsberg Remote Services may connect to K-IMS as per type approval TAA00003F4.

Communication with untrusted systems and equipment using other protocols shall be documented for each delivery, subject to case-by-case approval.

Type Approval documentation

- 110-0060694, Rev. D, K-IMS Asset inventory
- 110-0060708, Rev. D, K-IMS Description of security capabilities
- 110-0060707, Rev. C, K-IMS System topology
- 110-0060710, Rev. B, K-IMS Test procedure
- 110-0082037, Rev. A, K-IMS Operational security information
- 110-008203778, Rev. A, Operational security information – K-IMS
- 110-0081381, Rev. C, K-IMS Security Configuration Guideline

- 110-0153087, Rev. A, Cyber security IACS SL1 (E27) Configuration Checklist
- 110-00568267, Rev. C, Connect Light Configuration manual
- 430614, Rev. T, KOGNIFAI Connect Plus and Basic 5.34.0 Configuration Manual Dell R350, TR440, TR430 and Lenovo MC330, MC340, MC360, SR250
- KM-GUI-0118, Rev. B, Guideline for Secure Development Lifecycle
- KM-PRO-0120, Rev. C, Configuration Management Procedure
- KM-PROC-0080, Rev. C, Change management

Tests carried out

Tested according to test procedure 110-0060710 Rev. A carried out June 20-21, 2024.

Manufactured by:

- Kongsberg Maritime Kirkegårdsveien 45, 3616 Kongsberg, Norway
- Kongsberg Maritime AS Bekkajordet 8A 3189 Horten, Norway
- Kongsberg Maritime 9-7, Sandan 3-ro, Jeonggwan-Eup, Gijang-gun, 46027, Busan, Korea
- Kongsberg Maritime China Ltd., No. 136 North Fute Road, Choma (Shanghai), Pilot Free Trade Zone, 200131, China
- Kongsberg Maritime 81 Toh Guan Rd East, #04-01/02 Secom Centre 608606 Singapore, Singapore
- Kongsberg Maritime Skonnertveien 1, 7053 Ranheim, Norway

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

Renewal assessment

A renewal assessment will be performed at renewal of the certificate. The scope of the renewal 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 version, components and/or materials. The main elements of the assessment are:

- Ensuring that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Reviewing 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.
- Reviewing of possible changes in design of systems, software version, 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 type approval certificate
- Reviewing documented evidence of adherence to secure development lifecycle processes

END OF CERTIFCATE