



Certificate no.:
TAA00003F4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Network and Communication Components**

with type designation(s)
Kongsberg Remote Services

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 **2024-11-12**

This Certificate is valid until **2026-11-11**.

DNV local unit: **East & South Norway CMC**

Approval Engineer: **Knut Omberg**



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 300,000 USD.



Form code: TA 251

Revision: 2023-09

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Product description

Kongsberg Remote Services is a tool for Kongsberg certified engineers worldwide to connect to an installation upon customer request and provide remote support. In addition to remote support, the system also provides network segmentation and zone boundary protection of Kongsberg security zones and 3rd party security zones as specified in documents 408486 and 110-0001414. The system also includes the MPS (malware protection system) for scanning and cleaning operator stations and USB storage devices.

The product consists of hardware and software components listed in document 110-0072408.

At the time of issuance of this TA certificate the system consists of the following main versions:

- GSN router, version 2.2.1.0
- MPS, version 4.3.1
- Remote assist, version 1.1.0

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

This TA certificate covers:

Type approval of cyber security capabilities and system architecture in accordance with security profile 1 as specified in DNV-RU-SHIP Pt.6 Ch.5 Sec.21.

For each delivery of the system to vessels with DNV class notation Cyber secure(Essential), the following documents shall be submitted for assessment:

- System topology (F030), demonstrating consistency with type approved document 110-0072444.
- Inventory/equipment list (F071), demonstrating consistency with type approved document 110-0072408.
- Signed delivery checklist (F262) demonstrating that security capabilities have been configured as per document 110-0072445.

In addition to the documents above, any differences in the delivered system compared with the type approved system shall be documented and submitted for approval.

A Product Certificate (PC) shall be issued for each delivery based on the above document assessment. Certification test is not required as long as the system is correctly represented by this type approval.

Modifications to delivered systems shall be managed in accordance with DNV-RU-SHIP Pt.7 Ch.1 Sec.2 [1.5].

Application/Limitation

The MPS computer, GSN network equipment and interfaced systems shall be connected as per Connection diagram 110-0001414.

Type Approval documentation

- Kongsberg Remote Services Asset Inventory. Doc. No. 110-0072408/C
- Kongsberg Remote Services - System Topology. Doc. No. 110-0072444/D
- Kongsberg Remote Services Security Capabilities. Doc. No. 110-0072443/E
- Kongsberg Remote Services Test Procedure. Doc. No. 110-0072446/A
- Kongsberg Remote Services Configuration Guideline. Doc. No. 110-0072445/B
- Auto-deployment from Self Service Portal for GSN. Doc. No. 457402/C Ver.2.4.5.0.
- Malware Protection System, Installation manual. Doc. No. 110-0012523/A
- Malware Protection System, Operator manual. Doc. No. 110-0012518/F
- Release Notes MPS Version 4.3.1. Doc. No. 110-0018811/F
- Remote Assist User Manual. Doc. No. 110-0068747/A
- Release Notes Remote Assist 1.1.0. Doc. No. 110-0068764/B
- MPS Malware Protection System, Operator Manual, Release 4.3. Doc. No. 110-0012518/E
- GSN Guideline, Use of Security Zones and router releases, 2.2.1.0. Doc. No. 408486T/1.0
- Router Port Layout. 8 port and 24 port configuration, Connection Drawing. Doc. No. 110-0001414/E

- Configuration management procedure. Doc. No. KM-PRO-0120/A
- Change management. Doc. No. KM-PROC-0080/A
- Guideline for Secure Development Lifecycle (SDLC). Doc. No. KM-GUI-0118/A

Tests carried out

Tests according to test procedure 110-0072446/A carried out June 20-21., 2024

Place of manufacture

- 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, China (Shanghai), Pilot Free Trade Zone, 200131, China
- Kongsberg Maritime 81 Toh Guan Rd East, #04-01/02 Secom Centre608606 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

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
- Review documented evidence of adherence to Secure Development Lifecycle processes

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

END OF CERTIFICATE