



Certificate no.:
TAA00003GW

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Cyber security solution**

with type designation(s)
XT-CSP Cyber Security Platform

issued to

XTronica AS
Flatåsen, 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 for DNV Cyber security profile level 1 (SP1) and IACS UR
E26/E27, subject to conditions stated in this certificate.

The first application of this software is Loading Computer System (Cload).

Temperature

Humidity

Vibration

EMC

Enclosure

Issued at **Høvik** on **2024-11-12**

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

for **DNV**

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

Approval Engineer: **Qitao Gan**

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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

The type approval of cyber security capabilities is for **XTronica AS's Cyber Security Platform (XT-CSP)**, model XT-CSPW, that is a generic software platform developed by XTronica AS suiting for on board software and control monitoring applications running on Windows 10/11 (or later over Linux Ubuntu 20.04 or equivalent). The first application of this generic software platform **XT-CSPW** is the Loading Computer System (**Cload**).

The following components are covered in this type approval:

Component Description	Type Designation /HW version	OS/Platform/Firmware SW version	Application SW version
Computer & Software	HP G9 series PC	Windows 10 Pro 21H1 (build 19043.1826 or newer) Windows 11 Pro 21H2 (build 22000.1098 or newer)	Windows Security Application, XT-CSPW cfg v1.0.z (where z is 0 or newer)
Loading Computer & Software	Windows Application, Cload		Cload build 6.1.z (where z is 1 or newer)
Other Software	Remote Desktop Software		TeamViewer Version 15.0.z (where z is 0 or newer)
UPS	APC BP1000CH	-	-

Approval conditions

The following documentation of the actual application is to be submitted for approval in each case:

- Reference to this Type Approval Certificate
- Inventory list
- System block diagram (topology)
- Report from test at manufacturer.

Any modifications in the system to be delivered compared with the type approved system covered by this certificate shall be documented and submitted for approval in each case.

Major changes of the type approved system affecting future deliveries shall be informed to DNV. If the changes are considered to affect functionality for which rule requirements apply, a new functional type test may be required, and the certificate may have to be renewed to identify the new version. Minor changes are covered by this type approval.

Application/Limitation

The verified security capabilities may be implemented in the product which provides services to XTronica's customers. Customer data/application is not necessarily subject to the same security functions.

All hardware devices and accessible interfaces in the system shall be installed in areas with means to prevent unauthorized access and/or with physical access restrictions.

The approval is valid when the internal network interface is connected to a trusted security zone.

Type Approval documentation

Tests carried out

All hardware and software versions were tested in Oct. 9th ~ 10th 2024 at **XTronica** site in Shanghai, China, in accordance with requirements for DNV security profile 1 (SP1) for

- Cyber Secure (Essential), ref. DNV-RU-SHIP Pt.6 Ch.5 Sec.21 (2024-07 Edition)
- Cyber resilience of on-board systems and equipment, ref. IACS UR E27 (Rev.1, 2023-09)

Marking of product

The type designation and the manufacturer name and contact address shall be affixed visibly, legibly and indelibly to the product. In addition, the product shall be marked with:

- model name
- serial number
- power supply rating

Place of manufacture

XTronica site in Shanghai, China

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.

END OF CERTIFICATE