



Certificate number: 57708/A1 BV

File number: MPA1901525

Product code: 0002I

This certificate is not valid when presented without the full attached schedule composed of 7 sections. Full certificate is to be requested to the manufacturer

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

Navis Engineering Oy
Vantaa - FINLAND

for the type of product

SOFTWARE FOR MARINE APPLICATION
NAVIS NavDP 4000

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.
Bureau Veritas Rules NR659

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 12 Jul 2026

For Bureau Veritas Marine & Offshore,
At BV TURKU (ABO), on 24 Jul 2026,
Miika KOKKO

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=aoyootm5z7>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **NAVIS NavDP 4000** is a DP control system which providing an all-weather vessel motion control in different ways with the associated hardware.

The **NAVIS NavDP 4000** system consists of DP control station and independent joystick control station used in case of DP system failure. It has the following types:

- Stand-alone single DP control system (DP-0): DP Control Station;
- Single DP system with intergated joystick system (DP-1): DP Control Station + IJ Control Station;
- Dual-redundant DP system with intergated joystick system (DP-2): Redundant DP Control Station + IJ Control Station.

Operation Modes: DP Mode, IJ Mode, Bridge(or Manual) Mode.

Associated hardware:

Operator Station: Control Computer, LCD Touchscreen, Main Control Panel, Alarm Speaker, Communication Box.
Control Unit, Power Unit, I/O Unit, 3-axis joystick, Portable control panel,
Portable control panel Junction box and Alarm printer.

Onboard Version:

Software version: 3.3.xx
Programming Language: C++
Computer OS: Windows 7 PRO

2. DOCUMENTS AND DRAWINGS :

- Software Quality Assurance Plan, No. JDP-SQAP-e, Rev.1.2, dated 12-04-2017.
- Failure Mode and Effects Analysis, No. OCEA_OSV190_MKII, dated 24-05-2019.
- Configuration Mangement Plan, No. JDP-CM, dated 24-05-2018.
- NAVIS NavDP 4000 Technical Description ver. 1, dated May. 2019.
- Test Organization in "SpiraTeam" Environment, No. NAV-35A-SWTest SpiraTeam-e, Rev.1.3, dated 25-11-2019.
- Processes and Roles in SW Change Request Management, No. NAV-51A-SCR-Workflow-e, Rev.2.0, dated 22-11-2019.
- Software Testing Report, No. 03.03.14--2400.\$--Release-18A, dated 06-05-2019.
- NAVIS NavDP 4000 Factory Acceptance Test Procedure, No. OCEA OSV190N, dated May. 2019.
- NAVIS NavDP 4000 Operation Manual, No. 000.JDP-10000-OME, dated May. 2019.
- NAVIS NavDP 4000 Onboard Maintenance and Service Manual, No. OM-OMS-NavDP 4000, dated Oct. 2018.
- NavDP 4000 Cyber Security Policy, No. JDP-CyberSecurity-Policy Rev.2.0, dated 15-05-2019.
- NavDP 4000 Cyber Security Risk Analysis and Assessment, No. JDP-CyberSecurity-RiskAssessment Rev.2.0, dated 15-05-2019.
- DP Branching and Versioning Policy, Rev.1.01, dated 22-11-2019.

3. TEST REPORTS :

- Factory Acceptance Test Report witnessed on 04-06-2021.

4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval also valid for ships to be granted with the notations: **DYNAPOS AM/AT R**

4.3 - The approved software **Navis NavDP 4000** is acceptable for use onboard BV classed vessels.

This certificate is valid for:

- tested Software Version 3.3.xx and provided that alterations of functionality remain in line with the Rules in force.

4.4 - The software has been approved in accordance with Category III requirement.

4.5 - The associated hardware in above product description should be case by case approved or be covered by a valid type approval certificate issued by the Society.

4.6 - Onboard installation and maintenance requirements:

- The system is to be installed and used according to the manufacturer's recommendations;
- The system is to store history of reported jobs, equipment breakdowns and damages for at least 5 years;
- Access rights are to be set in order to avoid unexpected or spiteful editing or deleting job planning, maintenance histories and maintenance logs.

- 4.7 - This certificate demonstrates the compliance of this equipment with the requirements of UR E27 Rev.1 Sep 2023.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **Navis NavDP 4000** software is to be manufactured, examined and tested by **Navis Engineering Oy** in accordance with the type described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, **Navis Engineering Oy** has declared to Bureau Veritas the following production site(s):

Navis Engineering Oy Saint-Petersburg branch

5A Detskaya str.

199106 Saint-Petersburg

RUSSIAN FEDERATION

6. MARKING OF PRODUCT :

Identification is:

- Maker's name or trade mark: **Navis Engineering Oy**

The identification is displayed in the main window. It is to be available in the software manual.

7. OTHERS :

7.1 - The approval only concerns the functionality and does not certify that the software is free from anomalies.

7.2 - Bureau Veritas Marine & Offshore disclaims any warranty, expressed or implied, in regard to this type approval certificate, including any implied warranty of merchantability, fitness for a particular purpose or non-infringement.

7.3 - **Navis Engineering Oy** should notify **BUREAU VERITAS** of any modification or changes to the software in order to maintain the validity of the Type Approval Certificate or to renew it, as relevant.

7.4 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the installed softwares at any time and that **Navis Engineering Oy** will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the software and the conditions of this approval.

7.5 - **Navis Engineering Oy** website is <https://navisincontrol.com/>.

7.6 - This certificate supersedes the Type Approval Certificate N° 57708/A0 BV issued by the Society.

***** END OF CERTIFICATE *****

**BUREAU
VERITAS**

Attestation number: 84062/A0 BV

File number: TCF10_272

Product code: RA-CYBER

This attestation is not valid when presented without the full attached schedule composed of 7 sections. Full certificate is to be requested to the manufacturer

REVIEW ATTESTATION

This attestation is issued to

Navis Engineering Oy

Vantaa - FINLAND

for

CYBERSECURITY REVIEW

Navis NavDP 4000

Requirements:

NR659 Bureau Veritas Rules on cyber security for the classification of marine units.

IACS UR E27 Rev.1 Sep 2023 Cyber resilience of on-board systems and equipment.

This document is issued to attest that BUREAU VERITAS Marine & Offshore reviewed the technical documentation submitted for the equipment identified above. Details of this review are to be found in the "Schedule of Review" in the subsequent pages of this attestation.

For Bureau Veritas Marine & Offshore,

At BV TURKU (ABO), on 09 Jul 2026,

Miiika KOKKO

This attestation was created electronically and is valid without signature



This attestation will not be valid if the applicant makes any changes or modifications to the product which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. This attestation is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

SCHEDULE OF REVIEW

1. PRODUCT DESCRIPTION :

The Navis NavDP 4000 is described in the certificate 57708/XX BV.

2. DOCUMENTS AND DRAWINGS :

Filename	Reference
1_Navis DP_CBS Asset Inventory List	Dated 23/04/2026
Control System Topology Diagram	Revision 2
Navis NavDP 4000 Description of Security Capabilities	Revision 3
Navis NavDP 4000 Test Procedure for Security Capabilities	Revision 3.1
Security Configuration Guidelines	Version 2.0
Navis NavDP 4000 Security Development Lifecycle Requirements	Revision 2
Maintenance and Verification Plan	Version 2.0
Information supporting Response to Cyber Incidents and Recovery Plan	Version 2
Configuration check report	Dated 23/04/2026
Screenshot of port scanning	Dated 23/04/2026
Change requests management	Revision 1
Software management	Revision 1
Software configuration management	Revision 1

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS :

Test report 'Navis NavDP 4000 Test Procedure for Security Capabilities' dated 16/06/2026 was reviewed and approved for this attestation.

The following subjects were addressed:

1. Protect against casual or coincidental access by unauthenticated entities
 - IEC 62443-3-3/SR 1.1 : Human user identification and authentication
 - IEC 62443-3-3/SR 1.3 : Account management
 - IEC 62443-3-3/SR 1.4 : Identifier management
 - IEC 62443-3-3/SR 1.5 : Authenticator management
 - IEC 62443-3-3/SR 1.7 : Strength of password-based authentication
 - IEC 62443-3-3/SR 1.10 : Authenticator feedback
2. Protect against casual or coincidental misuse
 - IEC 62443-3-3/SR 2.1 : Authorization enforcement
 - IEC 62443-3-3/SR 2.3 : Use control for portable and mobile devices
 - IEC 62443-3-3/SR 2.5 : Session lock
 - IEC 62443-3-3/SR 2.8 : Auditable events
 - IEC 62443-3-3/SR 2.9 : Audit storage capacity
 - IEC 62443-3-3/SR 2.11 : Timestamps
3. Protect the integrity of the CBS against casual or coincidental manipulation
 - IEC 62443-3-3/SR 3.3 : Security functionality verification
 - IEC 62443-3-3/SR 3.6 : Deterministic output

- 5. Monitor the operation of the CBS and respond to incidents
IEC 62443-3-3/SR 6.1 : Audit log accessibility
- 6. Ensure that the control system operates reliably under normal production conditions
IEC 62443-3-3/SR 7.1 : Denial of service protection
IEC 62443-3-3/SR 7.3 : System backup
IEC 62443-3-3/SR 7.4 : System recovery and reconstitution
IEC 62443-3-3/SR 7.5 : Alternative power source
IEC 62443-3-3/SR 7.6 : Network and security configuration settings
IEC 62443-3-3/SR 7.7 : Least Functionality

4. APPLICATION / LIMITATION :

- 4.1 - This attestation is an intermediate document and does not constitute by itself a BV Type Approval Certificate. This attestation is limited to cyber resilience of product described in 1. as per UR E27 Rev. 1 dated Sept.2023.
- 4.2 - Only hardware and firmware / software successfully tested together in compliance with the rules as referred to in page one, according to the declaration of the manufacturer are covered by this attestation.
- 4.3 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.
- 4.4 - It is manufacturer's responsibility to inform the Society of any modification or changes which could impact the validity of this attestation.
- 4.5 - This attestation is only valid when attached to the valid Type Approval Certificate 57708/XX BV.
- 4.6 - This attestation has been issued based on the review of documentation provided for the Type Approval Certificate 57708/A1 BV.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - This product is to be supplied by **Navis Engineering Oy** in compliance with the type described in this attestation.
- 5.2 - For information, **Navis Engineering Oy** has declared to Bureau Veritas the following production site(s):

Navis Engineering Oy
Tuupakantie 3-5
01740 Vantaa
FINLAND

6. MARKING OF PRODUCT :

N/A

7. OTHERS :

- 7.1 - It is **Navis Engineering Oy** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF ATTESTATION ***