



Marine &amp; Offshore

Certificate number: 70552/A2 BV

File number: TCA12\_129

Product code: 4603H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Navarino Single Member S.A.**

Piraeus - GREECE

*for the type of product*

**CYBER MONITORING SYSTEM**

Spectrum is a solution providing onboard asset inventory, visualization and management.

### Requirements:

NR467 Bureau Veritas Rules for the Classification of Steel Ships

NR659 Bureau Veritas Rules on Cyber Security or the Classification of marine units

UR E27 Cyber Resilience of on-board systems and equipment (Apr 2022)

*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: 29 Mar 2027**

**For Bureau Veritas Marine & Offshore,**

At BV PIRAEUS, on 23 Aug 2023,

Spyros KONTOULIS

***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](http://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: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=2xdnmzz7d0>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

Spectrum is a toolkit comprising a suite of software designed to list onboard assets and aimed at IT departments. It relies on Infinity.

### **2. DOCUMENTS AND DRAWINGS :**

<b>Filename</b>	<b>Reference</b>
Infinity solution diagram v1.2.pdf	V2 Nov 2021
SystemList.pdf	VF- Nov 2021
ServicesList.pdf	VF- Nov 2021
Interconnexion table.pdf	VF- Nov 2021
NetworkManagement.pdf	VF- Nov 2021
NetworkMaintenance.pdf	VF - Nov 2021
NetworkList.pdf	VF Nov 2021
NetworkResilience.pdf	VF Nov 2021
DetailedRepository.pdf	VF Nov 2021
CriticalityLevels.pdf	VF Nov 2021
Spectrum-Manual-v-1-1.pdf	VF
www-Navarinoco-uk-spectrum-.pdf	11 March 2021
Infinity Administration-Manual-Ver-2-5-R00-Navarino-2020-09-10.pdf	VF
Navarino Interview conclusions final.pdf	VF

*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 N° TCA12-129 Navarino TAC survey report was witnessed by a BV Surveyor:**

**The following subject were investigated :**

- Visual Compliance
- USB Physical Access
- Account Management
- Interface Control
- Firewall Configuration
- Audit Log
- Installation
- Asset Management
- Information validity
- Vulnerability Patch

### **4. APPLICATION / LIMITATION :**

BV rules NR659 chap 6 sec 1

- Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.
- Equipment is to be installed, used and maintained in accordance with "**Spectrum-Manual-v-1-1.pdf**" document.

This certificate also demonstrates this equipment is compliant with the requirements of IACS UR E27, Apr 22 version

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - This system product is to be supplied by Navarino Single Member S.A. in compliance with the type described in this certificate.

5.2 - This system product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - Navarino Single Member S.A. has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, Navarino Single Member S.A. has declared to Bureau Veritas the following production site(s):

**Navarino Single Member S.A**  
**3, Akti Miaouli street**  
**18535 Piraeus**  
**Attica**  
**GREECE**

**6. MARKING OF PRODUCT :**

N/A - Software.

**7. OTHERS :**

7.1 - It is Navarino's 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.

7.2 This certificate supersedes the Type Approval Certificate N° 70552/A1 BV issued by the Society .

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