



TYPE APPROVAL CERTIFICATE
No. ELE310824XH/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	_NAVARINO QUAZAR - A cyber secure, managed ICT infrastructure platform for the maritime industry_
<i>Type</i>	NAVARINO ICT MANAGEMENT & CYBER SECURITY SERVICES
<i>Applicant</i>	INFINITY-SPECTRUM-QUAZAR-ANGEL
<i>Manufacturer</i>	NAVARINO S.A.
<i>Place of manufacture</i>	Akti Miaouli 3
	18535 Piraeus
	Greece
	NAVARINO S.A.
	AKTI MIAOULI 3
	18535 Piraeus
	GREECE
<i>Reference standards</i>	IACS UR E27 "Cyber resilience of onboard systems and equipment", Sep 2023

Issued in RINA GREECE MARINE on July 31, 2024. This Certificate is valid until July 31, 2029




RINA Services S.p.A.

Michael Vrettos
Sm Cyber Security Expert

This certificate consists of this page and 1 enclosure



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NAVARINO IT MANAGEMENT & CYBER SECURITY SERVICES

Product Description

NAVARINO ICT Management & Cyber Security Platform is designed to provide:

- Network and SOC support along with a personal IT manager who manages each fleet. Quazar's underlying ICT infrastructure includes network equipment, servers, storage devices, endpoints and peripherals, which all are governed by an operational framework built around industry best practices and standards including (IACS, IMO regulations, CIS, NIST, ISO27001).
- Remote monitoring, maintenance and management of IT infrastructure onboard vessels, including network devices, operating systems, applications and security measures. including network segregation .
- Cyber Security capabilities including, 24/7 SOC (Security Operation Center) support, based on advanced firewalling and network segregation, intrusion detection & prevention systems, web filtering, antivirus protection (EDR - Endpoint Detection Response), application control, OT and IOT systems monitoring.

E26 Readiness

NAVARINO certified solution, when installed onboard as a full package can assist a shipping company comply with IACS UR E26 requirements towards achieving vessel certification.

Testing

RINA witnessed online demonstration of Navarino Suite and Services in compliance with IACS UR E27 and in particular the following:

1. User identification & authentication	22. Information confidentiality
2. Account management	23. Use of cryptography
3. Identifier management	24. Audit log accessibility
4. Authenticator management	25. Denial of service protection
5. Wireless access management	26. Resource management
6. Password Strength	27. System backup
7. Authenticator feedback	28. System recovery and reconstitution
8. Authorization enforcement	29. Emergency power
9. Wireless use control	30. Network and security configuration settings
10. Portable devices	31. Least functionality
11. Mobile code	32. Multifactor authentication
12. Session lock	33. Software & device authentication
13. Auditable events	34. Unsuccessful login
14. Audit storage capacity	35. System use notification
15. Response to audit processing failures	36. Access via Untrusted Networks
16. Timestamps	37. Access request approval
17. Communication integrity	38. Remote session termination
18. Malicious code protection	39. Cryptographic integrity protection
19. Security functionality verification	40. Session integrity
20. Input validation	41. Session termination
21. Deterministic output	

Navarino Submitted Documents

- 1: Cyber security design description Requirements.xlsx
- 2: Incident Response Playbook.pdf

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NAVARINO IT MANAGEMENT & CYBER SECURITY SERVICES

- 3:Infinity_Master's Welcome Letterv2.docx
- 4:Mariners-IT Operations and Security Instruction.pdf
- 5:Navarino-Quazar Assessment Report 5_12_2022.pdf
- 6:Quazar Cyber Handbookv2 CV_RN.docx
- 7:Quazar Policies and Proceduresv3 CV_RN.docx
- 8:Quazar Services - Description and Operations.pdf
- 9:Quazar-Activation-&-Assets-v02.xlsx
- 10:Quazar-Criticality and Risk assesmentv2 CV.docx
- 11:Quazar-Installation Service Report CV.docx
- 12:Quazar-Mariners Instructionsv3 CV.docx
- 13:Quazar-QHLD-Cyber Repository.docx
- 14:Quazar-Remote Access Policy.pdf
- 15:Quazar-Security-Incident-Response-policy.pdf

**RINA GREECE MARINE July 31,
2024**