CMA CGM FLEET SECURITY IMPLEMENTATION PLAN

EFFECTIVE DATE: March 1, 2024

DOCUMENT NUMBER: DSS-SEC-2024-031

VERSION: 1.0

CLASSIFICATION: CONFIDENTIAL

1. INTRODUCTION

1 This Fleet Security Implementation Plan ("Plan") is prepared by DeepShield Systems, Inc. ("DeepShield") for CMA CGM Group ("Client") pursuant to Master Services Agreement DSS-2023-456 dated December 15, 2023.

2 This Plan details the comprehensive deployment of DeepShield's Maritime-Shield(TM) cybersecurity platform across Client's fleet of container vessels and associated maritime infrastructure.

2. DEFINITIONS

1 "Critical Systems" means vessel operational technology (OT) systems including but not limited to navigation systems, propulsion controls, cargo management systems, and vessel safety systems.

2 "Security Architecture" means DeepShield's proprietary deep-layer security framework incorporating AI-driven threat detection, real-time monitoring, and automated incident response capabilities.

3 "Implementation Period" means the 18-month period commencing on the Effective Date.

3. SCOPE OF IMPLEMENTATION

1 Geographic Coverage

- North Atlantic Fleet: 47 vessels

- Asia-Pacific Routes: 63 vessels

- Mediterranean Operations: 38 vessels

- Americas Service: 42 vessels

2 System Coverage

- Bridge navigation systems

- Engine control and monitoring

- Cargo handling systems

- Communications infrastructure

- Shore-based support systems

- Satellite connectivity systems

4. IMPLEMENTATION PHASES

1 Phase I: Initial Assessment (Months 1-3)

- Fleet-wide cybersecurity vulnerability assessment

- System architecture mapping

- Critical asset inventory

- Risk prioritization matrix development

- Baseline security metrics establishment

2 Phase II: Core Implementation (Months 4-12)

- DeepShield Security Architecture deployment

- OT network segmentation

- Endpoint protection installation

- Security monitoring infrastructure setup

- Initial crew training programs

3 Phase III: Advanced Features (Months 13-18)

- AI-driven threat detection activation

- Automated response protocols implementation

- Advanced analytics integration

- Performance optimization

- Compliance validation

5. SECURITY CONTROLS

1 Network Security

- Multi-layer firewall implementation

- VLAN segregation

- Encrypted communication channels

- Network access control

- Port security management

2 System Hardening

- Operating system security baseline

- Application whitelisting

- USB port control

- Remote access protocols

- Patch management system

3 Monitoring and Response

- 24/7 Security Operations Center (SOC) coverage

- Real-time threat detection

- Incident response automation

- Performance monitoring

- Compliance reporting

6. TRAINING AND DOCUMENTATION

1 Crew Training Requirements

- Basic cybersecurity awareness

- System operation procedures

- Incident response protocols

- Emergency procedures

- Annual refresher training

2 Documentation Deliverables

- System architecture diagrams

- Operating procedures

- Emergency response playbooks

- Maintenance guides

-        Compliance documentation

7. COMPLIANCE AND REPORTING

1 Regulatory Compliance

-        IMO Resolution MSC.428(98)

-        BIMCO Guidelines

-        Class society requirements

-        Flag state regulations

-        Port authority requirements

2 Performance Reporting

-        Monthly security status reports

-        Quarterly performance reviews

-        Incident response reports

-        Compliance audit reports

-        Annual security assessment

8. CONFIDENTIALITY

1 All information contained in this Plan and generated during implementation shall be treated as strictly confidential and subject to the confidentiality provisions of the Master Services Agreement.

9. AMENDMENTS

1 This Plan may be amended only by written agreement between DeepShield and Client, subject to change control procedures specified in the Master Services Agreement.

10. EXECUTION

IN WITNESS WHEREOF, the authorized representatives of the parties have executed this Fleet Security Implementation Plan as of the Effective Date.

DEEPSHIELD SYSTEMS, INC.

By:

Name: Dr. Marcus Chen

Title: Chief Executive Officer

Date:

CMA CGM GROUP

By:

Name: [Authorized Representative]

Title: [Title]

Date: