ISA/IEC 62443 Security Level Assessment Report

DeepShield Systems, Inc.

Assessment Date: January 11, 2024

Document Reference: DSS-SL-2024-001

1. Executive Summary

This document presents the formal security level assessment of DeepShield Systems, Inc.'s Industrial Control System (ICS) security platform and associated products according to the ISA/IEC 62443 series of standards. The assessment evaluates compliance with Security Levels (SL) as defined in ISA/IEC 62443-3-3 and determines the achieved security level for each fundamental requirement.

2. Scope of Assessment

1. Products Assessed:

- DeepShield ICS Security Platform v4.2
- DeepShield Maritime Protection Module v2.1
- DeepShield SCADA Defense Suite v3.5
- DeepShield OT Network Monitor v4.0

2. Assessment Parameters:

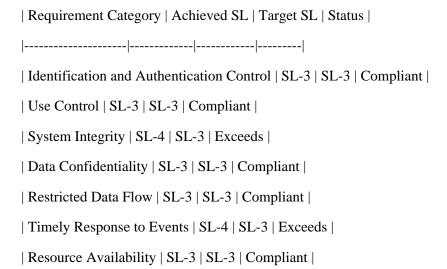
- System Requirements (SR) as defined in ISA/IEC 62443-3-3
- Component Requirements (CR) as defined in ISA/IEC 62443-4-2
- Development Requirements (DR) as defined in ISA/IEC 62443-4-1

3. Security Level Definitions

- 1. Security Level 1 (SL-1): Protection against casual or coincidental violation
- 2. Security Level 2 (SL-2): Protection against intentional violation using simple means
- 3. Security Level 3 (SL-3): Protection against intentional violation using sophisticated means
- 4. Security Level 4 (SL-4): Protection against intentional violation using sophisticated means with extended resources

4. Assessment Results

1. Fundamental Requirements Assessment:



5. Detailed Findings

1. Areas of Excellence:

- Advanced threat detection algorithms exceed SL-3 requirements
- Real-time monitoring capabilities surpass standard response time metrics
- Multi-layer authentication protocols provide enhanced security
- AI-driven anomaly detection demonstrates superior system integrity

2. Areas for Monitoring:

- Continuous validation of cryptographic implementations
- Ongoing assessment of supply chain security controls
- Regular review of access control mechanisms
- Periodic evaluation of backup and recovery procedures

6. Compliance Statement

Based on the comprehensive assessment conducted, DeepShield Systems, Inc.'s products meet or exceed the Security Level 3 (SL-3) requirements as specified in ISA/IEC 62443. This assessment confirms the platform's capability to protect against sophisticated cyber threats targeting industrial control systems and critical infrastructure.

7. Validity and Conditions

- 1. This assessment is valid for twelve (12) months from the date of issuance.
- 2. The assessment remains valid provided that:
- No significant changes are made to the assessed products
- All security patches and updates are properly implemented
- Regular security maintenance procedures are followed
- No major security incidents occur that compromise the system

8. Legal Disclaimers

- 1. This assessment represents the security level status at the time of evaluation and does not guarantee future performance or security levels.
- 2. DeepShield Systems, Inc. maintains responsibility for:
- Maintaining the assessed security levels
- Implementing security updates and patches
- Monitoring and responding to security threats
- Adhering to all applicable security standards and regulations

9. Authorization



DeepShield Systems, Inc.

Date: January 11, 2024

Location: Wilmington, Delaware

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