GRIDSMART GS2 Processor and Camera Security Assessment

Engagement Summary Letter

Praetorian performed an evaluation of GRIDSMART's GS2 Processor and Camera that was informed by MITRE CAPEC and the IIC's Industrial Internet of Things Security Framework

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Product Security Evaluation Performed by Independent Experts

This document confirms the results of the recent security evaluation undertaken by GRIDSMART and performed by Praetorian. Between the dates of August 25, 2020 and August 31, 2020, Praetorian performed an evaluation on the security posture of GRIDSMART's GS2 Processor and Camera's that was informed by MITRE CAPEC and the IIC's Industrial Internet of Things Security Framework. Praetorian identified 0 critical-risk issues, 0 high-risk issues, 0 medium-risk issues, 5 low-risk issues, and 2-informational issues. During the assessment, GRIDSMART remediated discovered vulnerabilities so that 0-critical risk issues, 0-high risk issues, 0-medium risk issues, 1-low risk issue, and 1-informational issue remained at the end of the assessment.

As the code base of the GRIDSMART GS2 Processor continues to change, so too will its overall security posture. Such changes will affect the validity of Praetorian's findings and this letter. Therefore, any statements made by Praetorian only describe a "snapshot" in time. Praetorian would like to thank GRIDSMART for this opportunity to help the organization evaluate its current security posture.

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Guided by OWASP Application Security Verification Standard (ASVS)

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Praetorian Grading Report Card

The grade below is a representation of the GRIDSMART GS2 Processor and Camera's current, post-remediation security posture. Praetorian calculates grades based on the "Existing Vulnerability Measure" (EVM) formula described in the reference below[1]. EVM is used to quantify the collective risk of the findings identified during this assessment. The letter grade leverages EVM to benchmark risk posture against Praetorian's client-base.

Product	Security	Grade
GRIDSMART's GS2 Processor and Camera	Excellent	A

Grade	Security	Criteria Description
A	Excellent	The EVM of the assessed components placed within the top 5-10% of Praetorian's client-base. The overall security posture was found to be excellent with a minimal amount of low and informational risk findings identified.
B	Good	The EVM of the assessed components was above average when benchmarked against Praetorian's client-base. Only a handful of low/informational risk shortcomings were identified in the testing time period.
C	Fair	The EVM of the assessed components was aligned closely to the average EVM of Praetorian's client-base. The current solutions protect some areas of the target from security issues, but moderate changes are required to elevate the discussed areas to acceptable standards.
D	Poor	The EVM of the assessed components fell below the average EVM, with significant security deficiencies present. Immediate attention should be given to the discussed issues to address exposures identified.
F	Inadequate	Serious security deficiencies were present in the assessed components and the EVM placed within the bottom 5-10% of Praetorian's client-base. Shortcomings were identified throughout most of the security controls examined and improved security will require significant resources.

[1] https://dl.acm.org/citation.cfm?id=1179505

