

Challenge: Firmware Integrity across IT, IoT & OT Devices Solution: Trapezoid's Firmware Integrity Verification Engine

Commercial Value:

- ✓ Firmware is 50% of the code in your organization and it is not being monitored.
- ✓ Today organizations have "Zero Visibility" into firmware vulnerabilities.
- ✓ Vulnerabilities Below the OS (VBOS) are increasing and are a clear and present danger to all organizations.
- ✓ Firmware monitoring is a requirement of every major risk-based Cyber Security Framework but until now has been ignored. Patching does not solve the problem.
- ✓ Enterprise-wide, device integrity monitoring solution.
- ✓ Best in Class Vulnerability Research OEM Databases, National Vulnerability Database, Independent Research Firms & Custom Research.
- ✓ Cybersecurity Maturity Model Certification (CMMC) allows government contactors the
 ability to meet all levels of CMMC compliance.

Federal Government Value:

- ✓ DOD Certified COTS solution Commercial Item Designation.
- ✓ DHS-CISA CDM Only authorized enterprise firmware monitoring solution.
- ✓ **Vendor Agnostic** Monitors any infrastructure, network or virtual device (IT, OT, IoT).
- ✓ Compliance Reporting NIST 800-53, FEDRAMP, FISMA, HIPAA, HITRUST CSF, PCI, 20 CIS Controls and GDPR.
- ✓ Big Data Analysis Runs data science tools directly; no ETL required.
- ✓ **Single Pane of Glass** Alerts sent to your SEIM or logging tool or drill down into built in UI for investigation.
- ✓ **Lightweight and agentless** Avoids invasive code distribution by polling systems on user defined frequency without degrading performance.
- ✓ Flexible Deployment On Prem, in the Cloud, or as a Managed Security Service.

Technology:

- ✓ **Firmware Compromise/Vulnerability management –** Monitors / Alerts to any critical vulnerabilities and firmware compromises any IT, IoT & OT device in real time.
- ✓ Able to connect to <u>ANY</u> device Connector's can access <u>ANY</u> IT, IoT & OT devices via either REST APIs or SDK or basic SSH CLI sessions.
- ✓ Supply Chain Integrity & Compliance Tool.
- ✓ Device "Evidence Record" is extracted and saved in an "insert only" database.
- ✓ "Evidence Record" is compared to the last record and all changes in device state are identified and logged for the forensic lifecycle of the device.
- ✓ Device state changes are run through an Analysis layer to identify anomalies based upon the 4 quadrants of integrity.
- ✓ Resulting Events and Critical Alerts are sent to organization's security tools as well as are available in T5 User Interface for further deep dive analysis.

Company Background:

- ✓ Founded 2015 HQ Denver Colorado with multiple offices across the USA.
- ✓ CAGE CODE 7EYS9 Certified Woman / Minority Owned Small Business.
- ✓ Core Competencies Cybersecurity, Managed IT Services, IT Consulting & IT Recruiting.
- ✓ Clients Include we have work with Airforce, Army, Navy, CBP, FBI, VA, SOCOM, NETCOM and Army Corps of Engineers,





Trapezoid is the only vendor and device agnostic solution that provides visibility by continuously monitoring, detecting and alerting for compromised firmware and device integrity

