OCTAVE

EBOOK

Accelerating your journey to smarter industrial facilities: Protect



Are you data rich, but information poor?

Risk is inherent across the industrial project and asset lifecycle, but risk acceptance doesn't have to be.

With the ability to secure industrial facilities from operational and cybersecurity risks having a direct impact on asset performance and profitability, it is more critical than ever to increase your digital maturity in a way that enhances your security and risk profile.

This requires an in-depth, contextual analysis of your data to effectively generate actionable insights. This elevated perspective of potential threats and disruptions across your assets enables you to prioritize and address risk more efficiently. And, as cyber or operational incidents inevitably occur, this data-rich approach can help speed recovery and a return to production.

This is easier said than done, since assessing OT/ICS risk is a three-dimensional challenge where multiple sources of information need to be united to create a holistic view. The "risk triangle" must consider environmental, vulnerability and temporal context to effectively assess risk.

Environmental information includes a comprehensive inventory that shows the entire industrial environment and the connections between assets, which must then be grouped logically to "see" how a particular vulnerability could impact other assets within the same environment.

Those vulnerabilities are the second contextual inputs to consider. As threats evolve and new vulnerabilities emerge in the wild, having an automated process to ingest that information, match it to your asset inventory to determine if the vulnerability is present, and assess the associated risk is imperative to determining what mitigation or remediation is appropriate.

The third area of context needed to develop a richer risk score are the impact factors that are specific to your OT/ICS environment. Risk is not a one-size-fits-all scenario, and impact factors may increase or decrease the associated risk based on multiple variables like data sensitivity, criticality and safety impact.

"Octave empowers you to reduce operational and cybersecurity risk in your industrial facility."

More security based on context

Octave helps automation engineers and OT cybersecurity personnel mitigate risks by providing the critical data and insight needed to make industrial operations safer, more profitable and resilient.

Octave Cyber Integrity (formerly PAS Cyber Integrity®) is a foundational element for proactive and reactive security — enabling a more complete asset inventory of endpoints running in your industrial facility, identifying and prioritizing vulnerabilities, employing configuration management to increase asset performance, improving incident response and strengthening business continuity.

Our approach utilizes configuration analysis as a proven method of preventing and shortening unplanned downtime — decreasing operational risk and improving business resiliency. Specific to each industrial environment, there are certain types of configuration changes that have a high probability of causing an operational or cyber incident.

These changes can be seen by automating the process of comparing configuration files and alerting appropriate personnel about those specific changes. The visibility and reliability improvements provided by this approach can substantially reduce the consequences of a cyber or operational incident, lowering overall risk and increasing safety within the industrial facility.



Elevate your operational integrity and security

With solutions that work seamlessly and flexibly across the entire industrial asset lifecycle, Octave's ability to deliver digital your way unlocks increasing value in the processes you need to modernize the most — so you can achieve the priority outcomes your business needs to succeed.

Gain a complete asset inventory of OT and IT endpoints

- Achieve scalable and expansive OT and IT asset discovery (L0-L3.5) including hardware, software/firmware, and communication module data
- Support isolated and transient assets common in OT environments
- Improve software updates, including patching, as well as obsolescence planning

Reduce the attack surface and cyber risk by knowing and managing your vulnerabilities

- Develop a full understanding of your attack surface by asset location, device type, patch status and CVE
- Improve vulnerability remediation though visual representation and scoring of critical areas
- Enable faster documentation of mitigation efforts with automated, built-in workflows

Employ configuration management for asset and system performance improvement

- Baseline the "known good" configuration of critical assets
- Know when undocumented control logic changes occur in your critical assets, including safety systems
- Audit against industry best practices (defect checks) to improve asset reliability

Improve incident response with deep forensic analysis of configuration changes

- Enable incident responders to fully understand the composition of an incident
- Pinpoint logic changes made during an incident for more informed analysis
- Integrations with leading CMDB, SIEM, SOC Software and Log Management platforms

Ensure business continuity by having a complete backup and restore point

- Save time and money by improving Mean Time to Recovery
- Increase operational resiliency following a natural disaster, operational or cyber incident

Bringing it All Together

Maximizing the value of these new digital capabilities is your low cap Smart Digital Reality, where Octave delivers a unified, role-based view of the physical and digital realities across your industrial facilities.

This integrated view delivers improved real-time visibility into asset performance, safety, security and quality, to enable better-informed decisions that increase productivity, operational integrity, profitability and sustainability of your industrial facilities.



About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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