



CASE STUDY

Global energy company uses digitalization to fuel growth

Octave Cyber Integrity and Octave Tempo Automation Integrity provide value to cybersecurity and digital transformation initiatives

Key facts:

Industry: Cyber Integrity

Octave products used: Cyber Integrity (PAS Cyber Integrity), Tempo Automation Integrity (PAS Automation Integrity)

Key benefits:

- Foundational cybersecurity capabilities enable OT system hardening and cyber risk reduction
- Increased confidence in OT data quality when making business decisions
- Data foundation for digital transformation and operational excellence initiatives
- Enterprise-wide visibility into both production and safety cybersecurity risk
- Enterprise scalability, performance and platform independence

About the company

A global, integrated oil and gas company operating across five continents is using digital transformation to grow its business, enter new markets, and be more competitive. Critical to this effort is a cloud-based digitalization initiative to enable advanced analytics and decision-making, fueling greater efficiency, flexibility and innovation.

Challenge

Digitalization, big data and data lakes are used to boost operational productivity, drive efficiencies across global production assets, and enable better, faster decision-making. The digitalization team at this global energy provider knew their multi-vendor industrial control systems (ICS) contained large amounts of valuable data to collect and analyze. This data comes from complex industrial automation systems across Europe, North America, and Asia. Obtaining required control system inventory and configuration data and ensuring data integrity as data flowed from Level 0, 1 and 2 devices to their cloud-based data lake was a significant challenge.

Initially, the digitalization team evaluated working with multiple automation vendors to obtain the required data feeds. However, each vendor collected and labeled data differently. This made understanding OT asset inventory, configurations, and interconnections difficult.

Concurrently, the company's cybersecurity team was searching for an enterprise-wide cybersecurity solution that could harden its heterogeneous OT assets against internal and external cyber threats, meet internal and external compliance requirements and reduce cyber risks to acceptable levels.

Solution

During conversations with Octave, the cybersecurity team quickly realized that Cyber Integrity and Tempo Automation Integrity's ability to deliver detailed inventory data, display topological views of asset and site connections, monitor configuration baselines and manage change across more than 120 different types of OT assets could provide value to not only the cybersecurity team, but also to the digitalization team. After careful evaluation, the company selected Octave. The cybersecurity team now uses Cyber Integrity to obtain comprehensive visibility into OT asset inventory, vulnerabilities, configurations and risks across their fleet of refining and chemical plants. The company's digitalization team uses Automation Integrity to obtain deep visibility into OT asset inventory, configurations, control strategies and interdependencies — from the field sensor to the cloud. Automation Integrity collects and sends data securely to the digitalization team's cloud-based data lake. The digitalization team then uses this data to optimize global production. If data integrity questions arise, the team can trace the data flow back to its source in just a few clicks. Both teams are pleased by the level of multi-vendor inventory, vulnerability, and configuration data provided.

As one executive said, "Cyber Integrity and Tempo Automation Integrity give both teams the data and insight needed to make business decisions that improve production safety, reliability and profitability."



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.

© 2026 Octave