



Operational risk management: From sensor to cloud minimizing risk, maximizing performance

Automation is a key factor in plant safety, environmental compliance and cost performance. But automation, processes and operating procedures have become very complex:

- Data lives in different systems
- Systems protect, but they are expensive and can create unplanned shutdowns
- Human error diminishes effectiveness, particularly with ineffective technology



A three-pillar approach: The complete solution

Octave supports a unified OT integrity framework that connects automation, cybersecurity and process safety disciplines, helping operators maintain visibility across the plant.

Octave Tempo Automation Integrity *(formerly PAS Automation Integrity)*

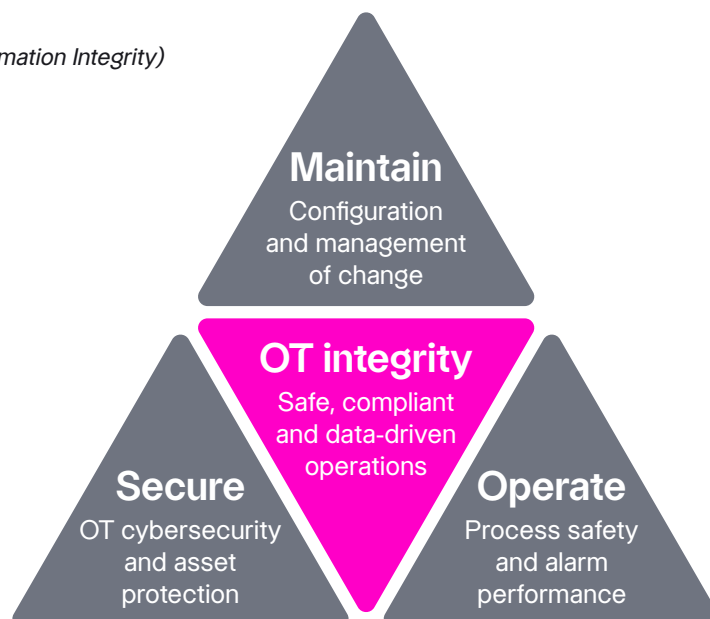
Keep configurations accurate and operations running smoothly.

- Multi-vendor asset management
- Automated change tracking
- Control map visualization
- Faster investigation and recovery
- Optimize inventory and spare capacity

Octave Cyber Integrity *(formerly PAS Cyber Integrity)*

Enhance cyber resilience while staying effortlessly compliant.

- Asset discovery
- Inventory management
- Vulnerability management
- Configuration management
- Compliance management
- Patch management
- Backup and recovery



Octave Tempo Control System Effectiveness *(formerly PAS PlantState Integrity)*

Drive safe, reliable operations from one connected platform.

- **Tempo Alarm Management** *(formerly PAS Alarm Management)* – Implement industrywide best practices to optimize alarm systems and improve operator effectiveness
- **Tempo Control Loop Tuning** *(formerly PAS TuneWizard)* – Calculate optimal proportional–integral–derivative (PID) controller and filter settings for optimal process operation
- **Tempo Control Loop Performance** *(formerly PAS ControlWizard)* – Monitor, analyze and assess control loop performance to detect issues early and improve process safety
- **Tempo Safety System Performance** *(formerly PAS IPL Assurance)* – Optimize resources by automating visibility into the health and performance of independent protection layers (IPLs) within safety systems
- **Tempo Boundary Analytics** *(formerly PAS InBound)* – Centralize and validate all boundary and operation limits in one place for a complete operational view

ARC Advisory Group's Annual Report ranked Tempo Control System Effectiveness as the leading global provider of alarm management software for more than a decade validating its proven role in improving safety, compliance and operational performance.



A solution that can drive significant benefits



Operational efficiency and performance

- Up to 70% reduction in nuisance alarms through bad actor identification and resolution
- 60% alarm rate improvement and 65% fewer stale alarms, improving operator focus and responsiveness
- Over 50% fewer control loops in manual, with improved loop performance and process stability



Safety and reliability

- Up to 90% reduction in safety instrumented function (SIF) bypasses, strengthening protection layers
- Improved situation awareness and faster response to abnormal conditions
- Reduced process variation and enhanced control loop stability for safer, more predictable operations



Cybersecurity and compliance

- Enhanced security posture and reduced cyber risks across OT environments
- Simplified compliance and audit readiness through standardized governance
- Automated identification of potential violations to prevent costly delays or shutdowns

The measurable impact

Organizations that implement Octave solutions see powerful results:

DSM

- **Improved awareness:**
Enhanced situation awareness and operator effectiveness
- **Safer operations:**
Enabled safer and more profitable plant performance
- **Alarm reduction:**
Alarms were reduced by up to 70% in the initial phase
- **Faster response:**
Improved speed and accuracy in responding to abnormal situations

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Contact Energy

- **Alarm assessment:**
Automated performance reports provided a clear baseline across all sites
- **Improved efficiency:**
Achieved a 60% improvement in alarm performance and a 65% reduction in stale alarms within four months
- **Unified management:**
Consolidated alarm systems from four platforms into a single, streamlined solution across 10 sites

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Pulp and paper company

- **Remote data access:**
Engineers could securely access essential operations data from home to ensure safety and reliability
- **Operator excellence:**
Enabled quick identification of process anomalies and review of operator changes to critical settings
- **Cyber risk management:**
Gained automated visibility into all OT and IT assets and their cybersecurity risks

[| Read the case study](#)



Ensure safe, reliable and compliant industrial operations.

Contact us to explore Octave solutions →