

Alarm Audit & Enforce DCS Synchronization

Implement automated Audit and Enforcement of on-line alarm configuration and settings via the Master Alarm Database.



The Puffer Alarm Audit & Enforcement DCS Synchronization Solution

The Master Alarm Database, developed through the Rationalization process, serves critical functions, particularly for alarm auditing and enforcement. Alarm Audit and Enforcement software is essential for automatically and periodically checking for deviations from the correct alarm settings (as defined by the D&R process and stored in the Master Alarm Database). The AgileOps™ Database module is an online tool that continuously monitors the control system for changes, detects new or removed devices and alarms, and supports the rationalization process for alarms and control settings. It allows users to audit alarm changes, maintain detailed operator and engineer records, and ensure continuous synchronization between the DCS and the Master Alarm Database. Since DCS alarm settings are easy to modify, without such a mechanism, the system can quickly degrade into a suboptimal state. AgileOps™ offers real-time capabilities to:

- View control system configurations.
- Recommend and collaborate on design changes.
- Implement changes in the control system.
- Audit configurations against the design.

KEY COMPONENTS

- **Scan existing DeltaV DCS configurations and alarm settings (Auto Discovery)**
- **Connect to the Master Alarm Database developed through alarm rationalization.**
- **Configure and integrate the AgileOps Master Alarm Database with the DeltaV control system for real-time synchronization.**
- **Enable automated alarm audit and enforcement permissions to automatically detect, report, (and optionally) enforce deviations from the Master Alarm Database settings.**
- **Set up real-time monitoring of DCS for changes in alarms, devices, and configurations to ensure ongoing synchronization.**
- **Configure reporting tools for tracking alarm setting deviations and un-authorized changes.**
- **Establish a maintenance plan to regularly verify synchronization between the DCS and the Master Alarm Database, ensuring long-term reliability.**

Alarm Management Packages

CORE

- Alarm Management Philosophy
- Baseline Benchmarking
- Bad Actor Alarm Resolution

ESSENTIAL

All Core features, plus:

- DeltaV AgileOps™ Software
- Steady State Documentation and Rationalization
- Audit and Enforce / Synchronization

BEST PRACTICE

All Advanced features, plus:

- Dynamic Alarming Rationalization, Design & Implementation
- Alarm Shelving



Call Puffer-Sweiven at 281-240-2000 for more information today!

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Systematically ASSESS, DESIGN, IMPLEMENT, MONITOR, AND OPTIMIZE Process Control Alarm Systems to Enhance Operator Effectiveness in Identifying and Responding to Critical Abnormal Situations, Ensuring Improved Safety and Operational Efficiency.



Alarm Management Solutions

The Puffer program is a structured approach designed to optimize alarm systems in process control environments by reducing alarm overload, eliminating nuisance alarms, and ensuring that only critical alarms are presented to operators. Our program involves comprehensive static and dynamic alarm rationalization, prioritization, and continuous monitoring to enhance operator response and decision-making. By improving the effectiveness of alarm systems, the program aims to increase safety, compliance, and operational efficiency.

Alarm Management Packages	CORE	ESSENTIAL	BEST PRACTICE
Alarm Management Philosophy	■	■	■
Baseline Benchmarking	■	■	■
Bad Actor Alarm Resolution	■	■	■
Documentation and Rationalization – Steady State		■	■
Audit and Enforce Synchronization		■	■
DeltaV AgileOps™ Software Implementation		■	■
Dynamic Alarming Rationalization, Design & Implementation			■
Alarm Shelving			■



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