



Experience Industrial Innovation



Alarm Management Solutions

Stop alarm floods. Improve operator focus.

spartancontrols.com

Spartan Alarm Management Services provide a platform for managing abnormal and normal situations by eliminating alarm floods and meeting recommended metrics.

Alarm Management Solutions



Know & improve Alarm Performance



Increase operator efficiency



Integrate completely with DeltaV™ and non-DeltaV control systems



Comply with regulatory and industry standards



Leverage Spartan's 20+ years of expertise and Canada's largest APC Team

The Value of Alarm Management

For process facilities, a disciplined alarm system is a frontline layer of protection and a key driver of operator efficiency.

When alarms are properly rationalized, prioritized, and monitored against industry KPIs, operators can focus on what matters—preventing alarm floods that obscure critical conditions.

Why it matters

Safety and compliance: Lowers incident risk and supports ISA-18.2 / IEC 62682 alignment.

Operator performance: Reduces nuisance alarms, improving situational awareness and response time.

Production and quality: Supports steadier operations, less off-spec product, and measurable throughput gains.

Benefits of Alarm Management

- ✓ **Know and improve your alarm performance.** Measure your current alarm performance and compare your alarm KPIs against the industry standard.
- ✓ **Integrate completely with your control system.** Alarm service remediation leverages AgileOps™ Alarm Management Software features, capabilities, and solutions to address alarm floods and improve alarm performance deficiencies identified in alarm reports.
- ✓ **Increase operator efficiency.** Alarm rationalization can significantly calm the control room, allowing operators to focus on production. Operators can respond to alarms more quickly and effectively, instead of being inundated with alarm floods and nuisance alarms.

Alarm Management Standards

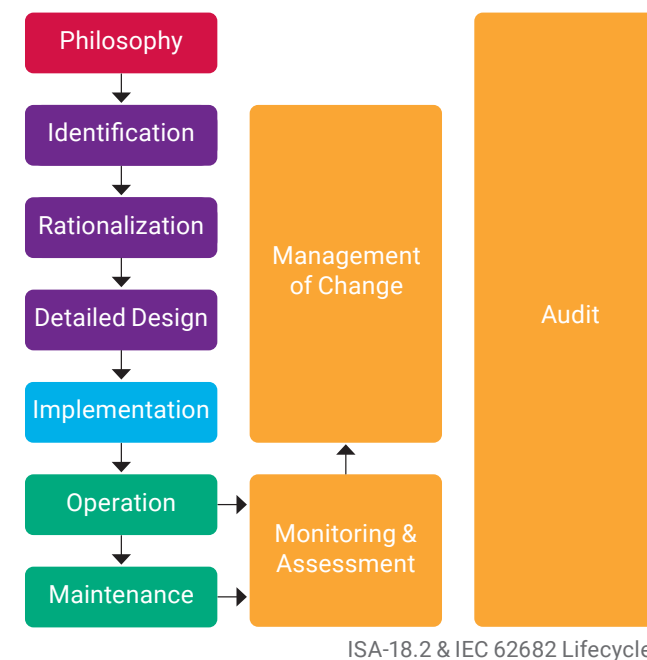
Alarm standards in industrial processes are defined by ISA-18.2 and IEC 62682. These standards are recognized by many regulatory organizations worldwide, including the Occupational Safety and Health Administration (OSHA). Non-compliance with these standards can lead to hefty fines and even the loss of operating permits.

Any alarm flood—defined by ISA-18.2 and IEC 62682 as more than 10 alarms occurring within a 10-minute period on a single alarm screen—should be treated as a safety near miss.

With effective Alarm Management and a well-maintained alarm system, you can avoid alarm floods and transform the alarm system from a nuisance during process upsets into a valuable tool for operations staff. Alarm information can be presented to operators in ways that support correct responses, reduce operator fatigue, and decrease the likelihood of operator error.



Spartan's Alarm Management Services focus on the complete Alarm Management Lifecycle. From alarm philosophy through alarm rationalization and implementation, we deliver alarm systems that comply with ISA-18.2 and IEC 62682 requirements and recommendations.



Alarm Philosophy Services

Spartan performs both corporate and site Alarm Philosophy reviews. Alarm Management standards require a documented process that defines the objectives of the alarm system and governs the work processes and standards for alarming.

Alarm Assessments

Spartan analyzes alarm data to identify areas for improvement. A report is provided with recommendations based specifically on your site's alarm performance. Event chronicle data is processed to produce an alarm analysis. From this analysis, Spartan develops a report detailing current alarm KPIs against industry standards. The report also provides methodologies to remediate poor alarm performance, such as alarm rationalization and nuisance alarm elimination.

Alarm Rationalization

Alarm Rationalization is the step used to design an effective alarm system. Spartan reviews every alarm point within your control system.



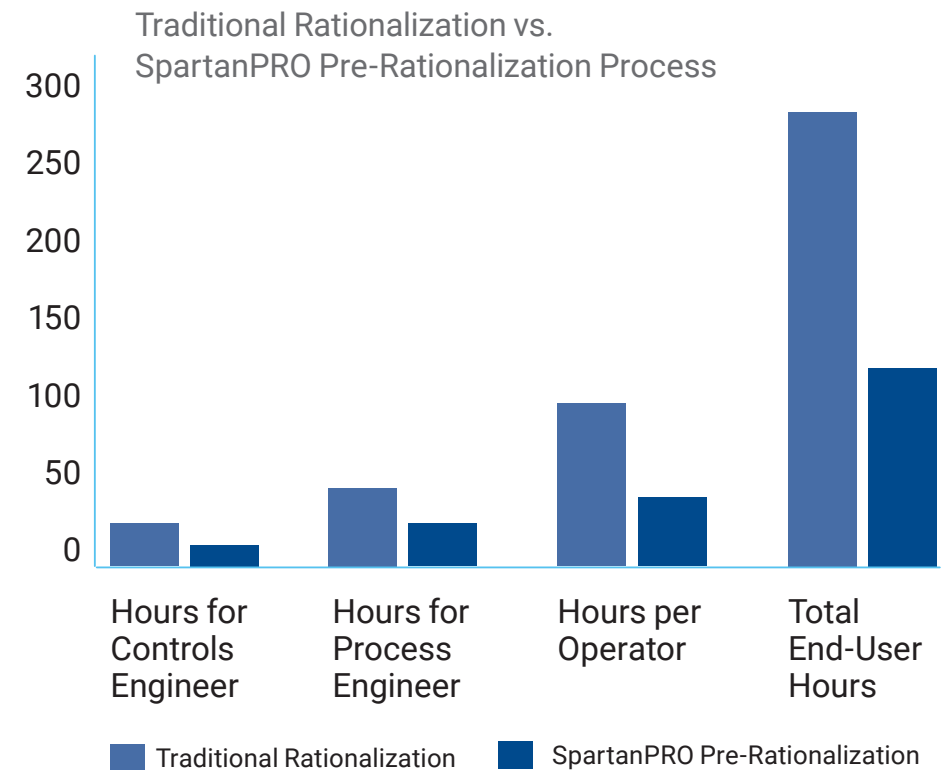
Alarm Rationalization consists of the following activities: **Alarm Management System Preparation and Training:** Spartan reviews the Alarm Philosophy Document and the Alarm Management database, which together form the foundation for developing alarm systems. A kickoff meeting is conducted, including preparatory training for the design team, ensuring all members understand the philosophy, objectives, and capabilities of the Alarm Management Systems to be implemented.

Alarm Management System Development and Deployment: As part of the alarm design process, Spartan applies its engineering expertise to update the existing alarm configuration on the current alarm software or deployment of new alarm software such as AgileOps™ Database. Alarm parameters are defined including, causes and consequences, and recorded in the alarm software. Spartan uses a Pre-Rationalization process that covers steady state, conditional, and state-based rationalization to design and document effective alarm systems.

Alarm Rationalization Implementation
Using the final Alarm Rationalization report from the previous phase, Spartan performs on-site Alarm Management system configuration, professionally implementing AgileOps. Client personnel are actively involved in verification and approval of the alarm design.

Operator Training
Spartan provides operator training covering Alarm Management fundamentals, software usage, and an overview of the alarm configuration developed during the rationalization process.

SpartanPRO™ Pre-Rationalization Process



Spartan is sensitive to the limited availability of operations and process engineering personnel at many plants. We have a proven methodology to speed the rationalization process and reduce your staff time by rationalizing off-site. This optional approach allows Spartan’s experienced process engineers to complete the alarm rationalization process in our office, rationalizing all alarms prior to on-site engagement. Preliminary results are then delivered and reviewed collaboratively with plant operations and process engineering personnel.

Customers benefit from a complete SpartanPRO Pre-Rationalization solution that supports

consistent and effective alarm management. Each project begins with the review or development of an Alarm Management Philosophy Document, followed by an upfront review of the alarm database and the definition of systems, boundaries, and case logic.

Using the SpartanPRO Pre-Rationalization process, Spartan dynamically rationalizes each alarm point to achieve results that meet ISA-18.2 performance metrics, while saving customers significant time during the rationalization phase.



Experience Industrial Innovation



Call us or request a quote online
24/7

+1 (877) 278-6404 | +1 (403) 207-0700 | info@spartancontrols.com



LEARN MORE