



MENA Energy Terminal Case Study

Transforming Alarm Management at a Major MENA Energy Terminal

Client Overview

A major energy terminal and crude oil tank farm serves as a critical hub for crude oil storage and distribution. With a complex network of automation and control systems - including Schneider Electric's Modicon PLC, Wonderware SCADA, Rockwell's Allen-Bradley PLCs, and safety systems from HIMA and Honeywell - the facility required a robust alarm management solution to improve safety, ensure compliance, and enhance operational efficiency.

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The Challenges

Prior to implementing an advanced alarm management system, the terminal faced several operational challenges:

- **Alarm Flooding:** Operators were overwhelmed with excessive alarms, particularly during plant upsets, startups, and shutdowns.
- **Lack of Prioritization:** All alarms were displayed in the SCADA system without differentiation, reducing response effectiveness.
- **Compliance Gaps:** The absence of a structured alarm philosophy and rationalization process hindered alignment with international standards such as IEC 62682, ISA-18.2, and EEMUA 191.
- **Operational Risks:** Critical alarms were often obscured by less significant alerts, increasing the risk of delays in responding to safety-critical incidents.

The Solution

To address these challenges, the terminal selected Precast FZCO, an Industrial Automation Solutions Provider, and implemented ProcessVue Alarm Intelligence - a comprehensive alarm management suite designed to enhance situational awareness, streamline alarm rationalization, and improve operator effectiveness.

The Impact

- **50% Reduction in Alarm Flooding:** Operators now receive only critical and actionable alarms, enabling faster response times.
- **Improved Compliance & Audit Readiness:** The newly adopted alarm management philosophy ensures adherence to regulatory and safety standards.
- **Boost in Operational Efficiency:** Enhanced alarm prioritization has increased plant uptime, reducing production losses caused by missed alerts.
- **Data-Driven Decision-Making:** Historical alarm data analysis supports proactive maintenance and continuous improvement of safety protocols.

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The ProcessVue Alarm Intelligence suite has completely transformed how we manage alarms at the terminal. Our operators are now more effective, our plant is safer, and we have full control over our alarm lifecycle. This implementation has set a new standard for alarm management at our facility.

Operations Manager ★★★★★

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Conclusion

The successful deployment of **ProcessVue Analyser** and **ProcessVue Guardian** highlights the essential role of intelligent alarm management in improving industrial safety and operational efficiency. This project not only mitigated alarm flooding but also established a proactive, data-driven approach to alarm management - ensuring sustainable operational excellence.

About Precast

Precast is a leading provider of industrial automation and digital transformation solutions, committed to driving innovation and delivering value through its expert System Integrators and Channel Partners. With over 20 years of industry experience and a strong local presence across seven MENA countries, Precast has earned the trust of customers and partners alike.

Precast's end-to-end solutions span the entire value chain - from field-level sensors and devices to enterprise-level IT systems. The company brings deep domain expertise across a wide range of industries, including Manufacturing, Infrastructure, Utilities, Airports, Chemicals, Oil & Gas, Power, and Energy.



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Let's talk

We're here to help

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