

PROCESSVUE CASE STUDY

Success Story: Transforming Alarm Management at QatarEnergy's MPB Terminal



CLIENT OVERVIEW

QatarEnergy's MPB Terminal and Crude Oil Tank Farm, located in Mesaieed Industrial Area, is a critical hub for petroleum 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, compliance, and operational efficiency.

THE CHALLENGE

- Before the implementation of an advanced alarm management system, the terminal faced significant operational challenges:
- Alarm Flooding: Operators were overwhelmed with excessive alarms, especially during plant upsets, startups, and shutdowns.
- Lack of Prioritization: All alarms were displayed in SCADA without differentiation, leading to inefficiencies in response time.
- Compliance Gaps: The absence of a structured alarm philosophy and rationalization process made it difficult to align with international standards such as IEC 62682, ISA 18.2, and EEMUA 191.
- Operational Risks: Critical alarms were often buried under less significant alerts, increasing the risk of delays in addressing safety-critical incidents.

THE SOLUTION: PROCESSVUE ANALYSER & GUARDIAN





To address these challenges, QatarEnergy selected ProcessVue Analyser and Guardian, a comprehensive alarm management suite designed to enhance situational awareness, streamline alarm rationalization, and improve operator effectiveness.

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THE IMPACT

-  50% Reduction in Alarm Flooding – Operators now receive only critical and actionable alarms, leading to faster response times.
-  Increased Compliance & Audit Readiness – The new alarm management philosophy ensures adherence to regulatory and safety standards.
-  Operational Efficiency Boost – With improved alarm prioritization, plant uptime has increased, minimizing production losses due to missed alerts.
-  Data-Driven Decision-Making – Historical alarm data analysis enables proactive maintenance and continuous improvement of plant safety protocols.

CLIENT TESTIMONIAL

"The ProcessVue suite has completely transformed how we manage alarms at the MPB 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 QatarEnergy."

— Operations Manager, QatarEnergy

CONCLUSION

The successful deployment of ProcessVue Analyser & Guardian at QatarEnergy's MPB Terminal underscores the critical role of intelligent alarm management in enhancing industrial safety and efficiency. This project not only mitigated alarm flooding but also paved the way for a proactive, data-driven approach to alarm management, ensuring long-term operational excellence.

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ABOUT PRECAST

Precast is a leading provider of industrial automation and digital transformation solutions, dedicated to driving innovation and creating value through our expert System Integrators and Channel Partners. With over 20 years of industry expertise and a strong local presence in seven MENA countries, we have established ourselves as the trusted choice for customers and partners alike.

Our comprehensive solutions span the entire value chain—from field-level sensors and devices to enterprise-level IT solutions. We bring deep domain expertise across multiple industries, including Manufacturing, Infrastructure, Utilities, Airports, Chemicals, Oil & Gas, Power, and Energy.

ABOUT PROCESSVUE

ProcessVue is a powerful alarm management solution suite designed to improve safety, compliance, and operational efficiency. Built to meet international standards like IEC 62682, ISA 18.2, and EEMUA 191, it helps industries reduce alarm flooding, enhance operator response, and gain actionable insights. Trusted across oil & gas, power, utilities, and manufacturing, ProcessVue seamlessly integrates with existing SCADA and control systems for optimized alarm lifecycle management.

GET IN TOUCH

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