Alarm Analysis and Bad Actor Cleanup Service

Optimize alarm relevance to create a more efficient, reliable and safer process

NOVASPECT
Emerson Impact Partner

EMERSON

Too many industrial control system alarms overwhelm plant operators, often causing critical and important alarms to be missed. Novaspect designs and implements steady state and dynamic alarm management to improve alarm quality. This enables operators to safely focus on optimizing their process and production.
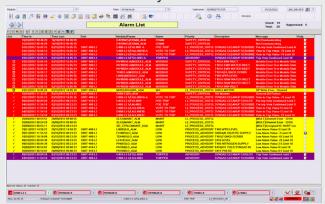
That's why Novaspect introduced its Alarm Analysis and Bad Actor Cleanup Service—an incremental improvement approach comparing current alarm levels with ISA 18.2 best practices, collaboration with our clients on which bad actor nuisance alarms to address, followed by design and configuration changes to improve alarm quality. This improves the operator's ability to focus on production.

- **Nuisance Alarm Identification:** One or more of our experts spend a day on-site to gather up to 3 months of alarm and event data from your DeltaV DCS and spend time with your operations team to better understand current operational challenges associated with the current alarm management system set-up. We generate a report comparing the current alarm levels to best practices and identify the top 10 bad actors. This list is reviewed to determine which bad actors to focus on as part of the clean-up service.

- **Enhanced Alarm Quality:** We focus on evaluating and revising the chosen bad actors by improving the quality of those alarms – ensuring each one should indicate an abnormal condition, requiring the operator to take action, have a consequence, be relevant, and be unique (only one for each issue). We have found improving alarm quality reduces nuisance alarms – improving the ability to operate safely, optimize production, and streamline operations.

- **ISA 18.2 & IEC 62682 Compliance:** DeltaV meets the ISA 18.2 and IEC 62682 alarm management standards as they relate to requirements for control systems. We leverage any applicable alarm philosophy document as the guide for any of the alarm modifications—enabling you to achieve greater consistency and reliability.

Experience improved operator performance with intentional alarm management focus

Highlights

- Empower plant operators to focus on their core tasks by reducing alarm overload

- Improve system reliability with alarms that are accurate, relevant, and unique to the root cause

- Meet plant production targets and maintain plant safety by keeping the process within normal operating limits

- If your alarm summary page looks like the image below, you may benefit from the Alarm Analysis and Bad Actor Cleanup Service

Alarm Summary w/ Stale Alarms