

aeAlarm™ Rationalization Tool

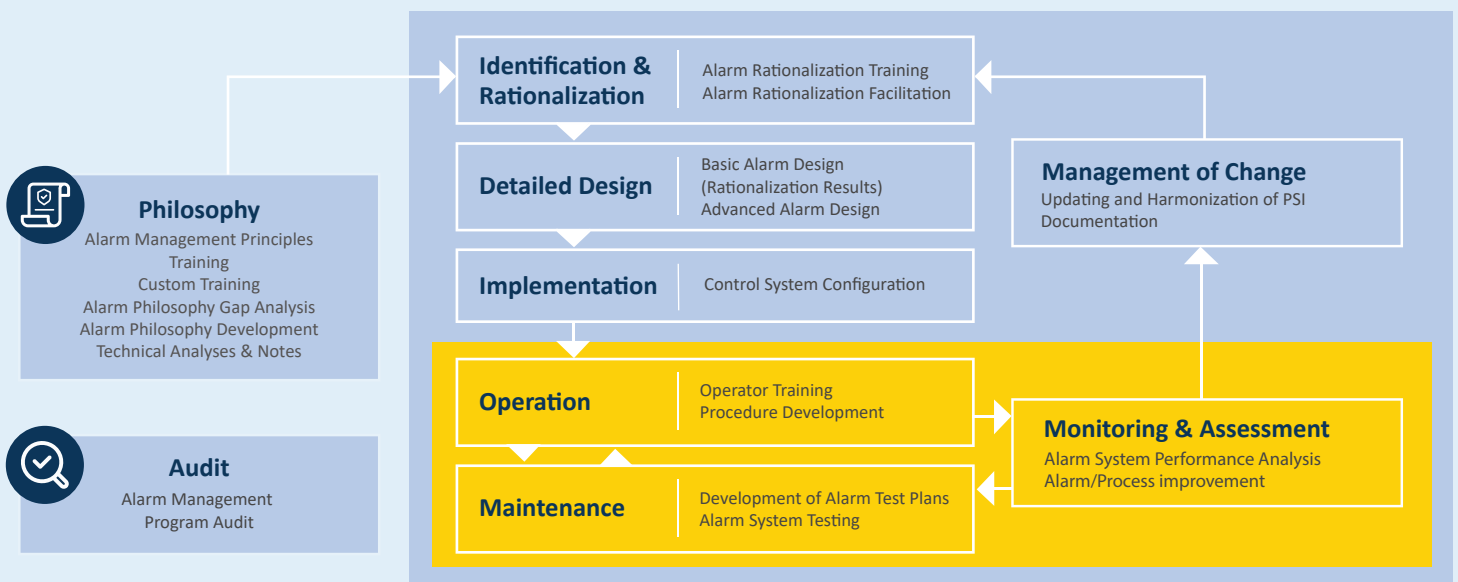
aeSolutions' alarm management services help clients improve the performance of their alarm systems and increase the situational awareness of their operators. aeSolutions' clients recognize there is a direct relationship between the implementation of effective alarm management techniques and the process safety performance of their plant.

Both IEC 62682 and ISA/ANSI 18.2 define the requirements for a sustainable Alarm Management Lifecycle. One of the most resource intensive steps in this lifecycle is the documentation and rationalization of potential alarms. To aid in the execution of this step, aeSolutions developed our aeAlarm Rationalization Tool, which delivers the ability to execute alarm rationalization efficiently and consistently. This unique tool provides customizable templates and drop downs for severities and maximum time to respond, with automatic population of alarm priority. The tool along with our suite of services support a



culture of sustainable alarm management as an important component to our clients' overall process safety strategy.

Typical Alarm Management Lifecycle



*Modified Lifecycle from ISA 18.2

The aeAlarm™ Rationalization Tool processes unique tags one by one and allows the user to fill in consequences, causes and operator actions. There is also the ability for user defined data fields to be added to incorporate site specific requirements while keeping the recommended documentation described in IEC 62682 and ISA/ANSI 18.2.

The template feature allows the user to create a rationalization spreadsheet with fields similar to the site’s alarm list. These fields can be filtered to expedite a consistent rationalization of similar points such as Fire and Gas, rate of change alarms, safety showers, etc.



Key Features of the Tool

Designed to help an experienced facilitator rapidly and efficiently conduct alarm rationalization workshops

- ✓ Bulk insert Safety Rated Alarms from Process Hazard Analysis (PHA) or Layers of Protection Analysis (LOPA) studies
- ✓ Create consequence severities from client specific Risk Matrix definitions
- ✓ Bulk insert alarm tags from control systems
- ✓ Export a rationalized Master Alarm Database to support alarm configuration/updates within the control system(s)

Alarm Rationalization Services

aeSolutions provides an integrated team of professionals versed in all aspects of the Alarm Management Lifecycle. Please contact us to learn more about our services including the functionality of the aeAlarm Rationalization Tool and our expertise in Alarm Philosophy Development, Gap Assessment of existing Alarm Philosophy, Alarm Management and Rationalization Training, and Alarm Management Program Gap Assessments.