

## Product Information Note

### Experion Alarming



Experion alarm management delivers improved safety, efficiency and reliability to your plant by presenting operators with actionable information and analysis tools to better prevent and respond to abnormal situations. Experion® PKS – The Knowledge to Make it Possible.

#### Experion Alarm Management Benefits

Experion alarm management represents a tremendous step forward in human factors design. The Experion advanced alarm system provides the following major benefits:

- Powerful and intuitive built-in operator interface supporting ASM Consortium guidelines enabling process operators to avoid or minimize the impact of abnormal situations such as process upsets.
- Easy to configure and use suppression and shelving capabilities to minimize the impact of nuisance alarms, fully integrated into the Experion alarm summary display.
- Full integration with Alarm Configuration Manager for help data.

#### Key Alarm Management Capabilities

Experion alarm management represents the state of the art in optimal operator alarming workflow. Some key capabilities include:

- A complete built in, and customizable, alarm management user interface with rich features to filter, sort, and add comments to alarms.
- Experion provides the groundbreaking Alarm Tracker to represent current alarms in a spatial view arranged by process asset, capitalizing on innate human pattern matching abilities.
- Fast filtering and sorting to dramatically improve management capability during alarm flood situations.
- Unnecessary alarms originating from any source can be automatically suppressed using powerful Dynamic Alarm Suppression.
- Alarms can be selectively and efficiently shelved with using built in features that are fully integrated into the natural alarm management workflow.

- Integrated alarm help details immediately advise process operators on the action to take when an alarm occurs, while also providing details and the consequences of not reacting to alarms



#### Alarm Tracker

Alarm Tracker is the next generation of alarm interface, providing a step change improvement from the traditional tabular alarm summary interface. It was developed based on advanced human factors research by the Abnormal Situation Management (ASM) Consortium. Alarm Tracker dramatically reduces the time needed to diagnose and resolve process upsets especially in alarm flood situations. Relationships between alarms in any process unit are immediately apparent through spatial pattern recognition. Alarm Tracker features include:

- A window in the top of the Alarm Summary Display that shows all current alarms as ICONS with an optional label that moves across the screen.



Alarm Tracker

- Real time region on the right where all new alarms appear and a historical region on the left where users can set the time base Ability to use a single click on a track or cluster to filter the tabular alarm list for more detailed analysis.
- Advanced logic to optimally position and order alarms with the highest priority on top.

**Reduced Operator Alarm Load**

The ability to deal with abnormal situations can be greatly hampered by nuisance alarms which clutter the alarm summary but do not require action. Such alarms include those generated by out of service equipment, faulty instrumentation or those that follow on alarms generated as a direct result of an initiating alarm. The Experion alarm system offers intuitive controls including alarm shelving and dynamic alarm suppression to remove these types of alarms from the alarm display, enabling the operator to focus on the current alarm situation.

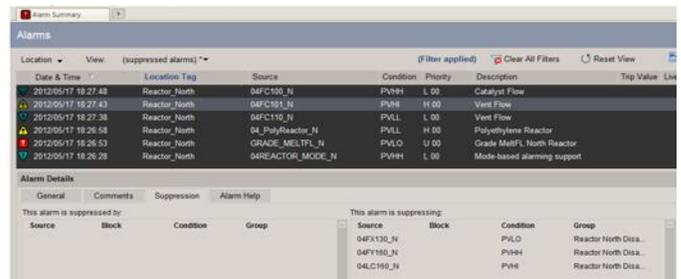
**Alarm Shelving**

Alarm Shelving enables operators to temporarily remove nuisance alarms from the alarm summary. Alarm Shelving is fully integrated with the Experion Alarm Summary Display. A list of

currently shelved alarms is available in a separate view. A shelved alarm is manually un-shelved or un-shelves automatically when the configurable timer expires.

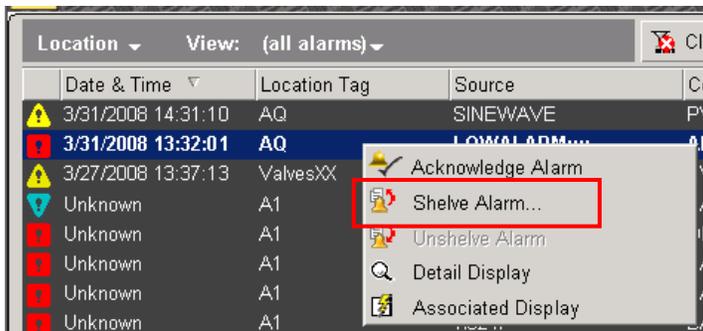
**Dynamic Alarm Suppression**

Dynamic Alarm Suppression provides an easy to engineer method of suppressing alarms based on preconfigured rules. It is fully integrated with the Experion Alarm Summary with a tab showing suppressed and suppressing alarms.



Alarm Summary Dynamic Alarm Suppression Tab

- Dynamic alarm suppression removes unnecessary alarms from the alarm list on via continuous monitoring of a pre-configured set of conditions.
- Each alarm or group of alarms to be suppressed is allocated a trigger event by the engineer which may be an initial alarm or a process trip.
- The trigger alarm is shown in the alarm summary but the suppressed alarms such as follow on alarms from the trigger are not shown.
- The suppression is cleared when the trigger returns to normal.

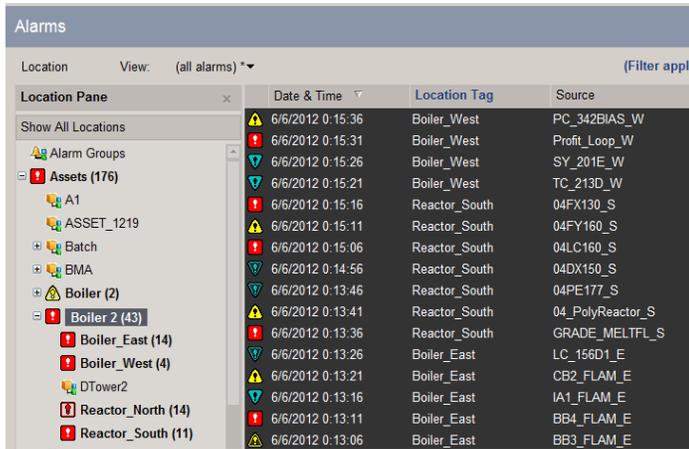


Alarm Shelving Right Click Menu

### Experion Alarm Summary Display

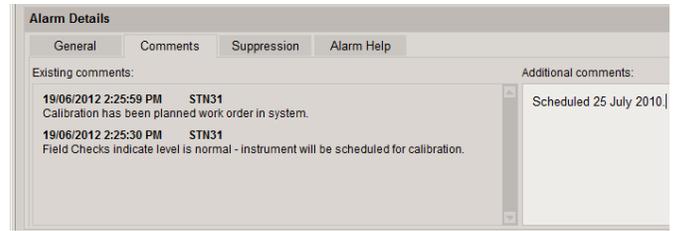
The Experion Alarm Summary Display allows operators to focus on the process problem. Much more than just a summary display, the Experion Alarm Summary ensures that operators can logically navigate and interact with the broad alarm system capabilities through simple efficient workflows. These key capabilities include:

- A location pane that supports one click filtering and a count of active alarms.



Location Pane

- Detail pane showing extensive alarm condition details
- Alarm summary columns that can be customized to suit individual site or operator requirements. Fields can include any parameter associated with the alarm including the actual trip value and current live value
- Ability to create and save custom operator alarm views.
- Alarms filtering by priority, time, category and other alarm data
- Repeat alarm handling mechanisms to ensure the alarm a single entry that includes details of the first and last time the alarm occurred and the number of alarm instances
- Comments section for each alarm enabling operators to easily add comments

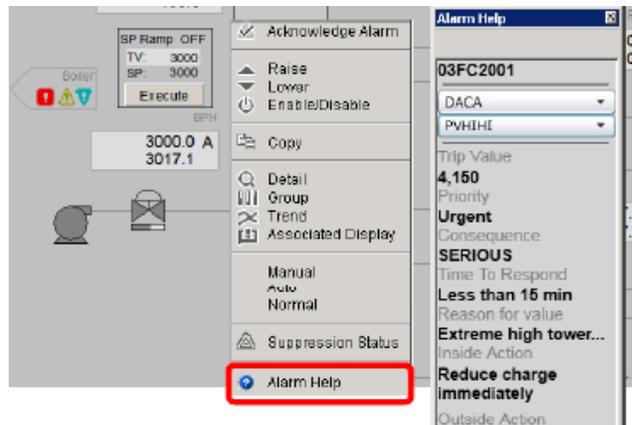


Alarm Comment

### Alarm Help

Alarm help functionality provides quick access to information on the cause of the alarm, the alarm impact potential and the recommended actions to address the alarm. This help information is managed in Honeywell's Alarm Configuration Manager (ACM) which is fully integrated with the Experion alarm system. Includes:

- Alarm Help tab on the alarm summary which includes links to ACM for additional information
- Right click context menu for use with custom process displays which calls up an Alarm Help faceplate with summary information and a short cut menu to further information
- Ability for operators to easily add comments to the alarm help information



ACM Alarm Help

### For More Information

Learn more about Honeywell's Experion Alarming visit our website [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

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