

# Alarm & Event Management

## for Improved Safety at Tank Farms, Terminals & Refineries



**Continuously monitor your facility to check for conditions that may require your immediate attention.**

## Real-time Operational Alerts

*FuelsManager constantly monitors your system to check for conditions that may require your immediate attention. If an alarm is triggered, FuelsManager provides the tools to help identify the problem and manage the situation in real time.*

### Easy Setup and Configuration

Unlike a general SCADA system, FuelsManager provides preconfigured alarm settings for each tank; all you need to do is enable them to start monitoring your facility. FuelsManager can integrate with, and notify other systems (PLC or DCS) of events, so that the other systems may take appropriate control and automation actions. Alarms can be shown on SCADA and tank displays using graphics and animations. The system supports up to 32 alarm groups and four alarm priorities, each with its own color and audible attributes. Predefined tank-specific alarms include:

- Tank Level, Temperature, and Density (Low-Low, Low, Maximum Operating, High and High-High)
- Tank Transfer (Pre-Stop Gauge and Stop Gauge)
- Idle Tank (an unauthorized movement alarm will be triggered if the level changes outside of a configurable deadband)
- Other standard alarms include Flow, Pressure, No Flow, Reverse Flow, Estimated Time of Arrival (ETA), and Leak Rate.

### An Audit Trail of Every Event

FuelsManager creates a historical record of every event, allowing your operators to view and print a detailed report that includes a description, time stamp, status, priority, and which operator acknowledged the event.

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When an alarm situation occurs, you are notified regardless of which display is active. If FuelsManager Oil & Gas or the alarm tool bar is minimized, an alarm pop-up messages provides immediate alarm indication. The alarm tool bar provides audible and visual indication of the highest priority alarm, including priority, date and time, alarm details, and type of alarm. Icons in the tool bar provide easy access to more detailed tools, including a graphic or help file associated with this specific alarm or the active alarm summary and alarm history displays.

FuelsManager also creates a historic file of all alarms and events. You can use the Log File Browser to access this history, add comments for individual alarms, or print logs for any selected day.

**Alarm Management Tools**

**Alarm Summary**

Date & Time	Tag, Description & Variable	Status
6/24/2005 2:41:19 PM	TankFarm.TankLD-100.Tank TankLD-100. Digital Alarms	Strap Error
6/24/2005 2:41:19 PM	TankFarm.TankLD-101.Tank TankLD-101. Digital Alarms	Strap Error
6/24/2005 2:41:19 PM	TankFarm.TankLD-102.Tank TankLD-102. Digital Alarms	Strap Error
6/24/2005 2:41:19 PM	TankFarm.TankLD-103.Tank TankLD-103. Digital Alarms	Strap Error
6/24/2005 2:41:19 PM	TankFarm.Tank 5.Tank Tank 5. Digital Alarms	Strap Error
6/24/2005 10:53:22 AM	TankFarm.Tank 3.Tank Tank 3. Level	High-High
6/25/2005 4:48:00 PM	TankFa	

**Alarm Log File Browser**

Log Files To Open: System: \EXAMPLE, Date: March 26, 2004, Day Displayed: March 26, 2004 on system \EXAMPLE

Date	Time	Tag, Description & Variable	Status
3/26/2004	2:12:19 AM	Tanks.Tank8.Gauge Tank 8	High Level
3/26/2004	2:12:19 AM	Tanks.Tank8.Gauge Tank 8	High-High Level
3/26/2004	2:12:19 AM	Tanks.Tank8.Gauge Tank 8	Command Level = 31.83.13 (ft-in-16th). By: Administrator
3/26/2004	2:12:19 AM	Tanks.Tank8.Gauge Tank 8	Strap Error Digital Alarms
3/26/2004	2:12:25 AM	Tanks.Tank8.Gauge Tank 8	Temperature = 52 (F). By: Administrator
3/26/2004	2:12:32 AM	Tanks.Tank8.Gauge Tank 8	Level High Limit = 38.00.06 (ft-in-16th). By: Administrator

**Alarm Line**

Alarm Tool Bar: \*\* NO ACTIVE ALARMS \*\*

Instant Pop-up Notification: North.TankFarm.Tank1, 3/26/2005 8:45:44, User: Brent, Critical Oil Tank 1 High Level Low, 3/27/2005 11:51:24 AM

