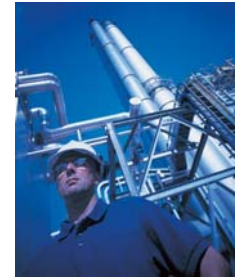


Integrating Alarm Management and Performance Supervision



Overview

Alarm management emphasizes consistent design and targeted activation of process alarms. Performance monitoring assesses the behavior of control assets and their contribution to or hindrance of plant performance.

Combining alarm and performance supervision data speeds diagnosis of plant and operations troubles and helps identify opportunities to improve alarm quality, control room clarity, and overall plant performance..

Using Integrated Data

Continuous and Discrete Performance Assessment

Combining discrete event and continuous process data offers unique insight into plant behavior and creates an opportunity to more accurately identify the root-cause of performance issues and upsets.

Poor Control - No Alarms

If a data assessment finds that control configurations are not performing as intended yet there are no alarm activations, it becomes clear that adjustments are needed in both areas. You certainly want operators to be aware when a unit is not behaving as expected and you also want your control assets to be fully utilized.

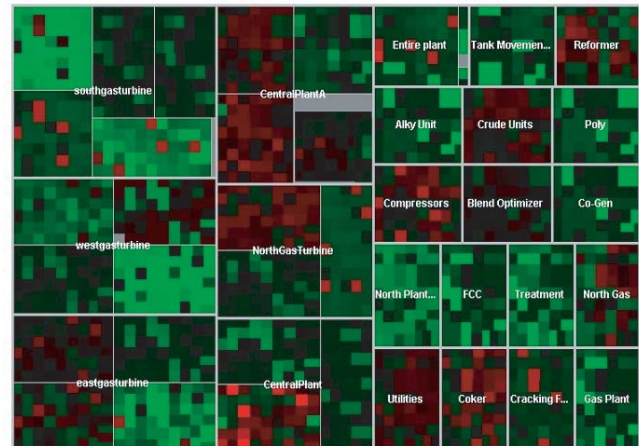
High Alarm Rate - Good Control

This is a clear indication that the alarm system needs adjustment. There is no need to trigger alarms when the unit is behaving as expected.

High Alarm Rate - Bad Control

This scenario generally indicates poor control configuration. While alarm settings may need adjustment you will not know until basic control is working properly.

Tree Map Integration



Alarm data from LogMateAMS and plant performance data from ExperTune PlantTriage is combined to create a visual display that clearly identifies units and assets not behaving as expected or as designed. The resulting "tree map" graphic is interactive, linking you directly to the detail data that will help you fix operation performance issues.

How Data is Integrated

The LogMateAMS and PlantTriage integration uses standard OPC technology to bridge the gap between discrete event data and continuous performance data. While the separate families of data remain in their respective databases, they seamlessly come together in a common interface for combined evaluation.

The OPC HDA communications allow for two-way data sharing. LogMateAMS data can be used in PlantTriage performance calculations and PlantTriage metrics can be plotted and monitored in LogMateAMS.

Combined LogMateAMS and PlantTriage Architecture

