



AgileOps - Event KPI Overview

AgileOps Event KPI (EKPI) allows the calculation and reporting of key performance indicators on events occurring in your facility. EKPI works specifically with alarm metrics and analysis based on data it collects from the alarm system. Metrics can be analyzed on a minute, hour, day, week, month, or year basis. EKPI is designed as a local facility to enterprise application providing the necessary detailed information to local facility level personnel and high-level cross facility views to the enterprise.

EKPI provides the necessary information to support improvements and maintenance on Alarm Management and Operator Load applications. This is key for organizations focused on a Six-Sigma or other continual improvement methodology for the maintenance of Alarm Management or Operator Loading.

EKPI comes standard with the following dashboards with accompanying metrics:

- **Annunciated Alarm Dashboard**
 - Total Alarms in the report period
 - Average Alarms per 10 minute, hour, and day
 - Maximum Alarms per 10 minute, hour, and day
 - Top 10 frequent alarms as count, percent of total alarms, and percent of accumulative
 - Percentage of time alarms per 10 minute, hour, or day exceeds target maximum value
 - Alarm priority distribution of annunciated alarms
- **Event Dashboard**
 - Total events in the report period
 - Average Events per 10 minute, hour, or day
 - Maximum Events per 10 minute, hour, or day
- **Active Condition Dashboard**
 - Maximum/Minimum active alarms at an instantaneous time in the report time period.

Maximum/Minimum unacknowledged alarms at an instantaneous time in the report time period

- **Operator Action Dashboard**

Total actions in the report period

Average Actions per 10 minute, hour, or day

Maximum Actions per 10 minute, hour, or day

- **Stale Alarm Dashboard**

Average Stale Alarms per day

Maximum State Alarms per day

Each stale alarm Count, Total Stale Time (hours), Average Stale Time (hours), Maximum Stale Time (hours)

- **Standard Flood Analysis Dashboard**

Percentage of time in flood

Number of alarm events in each flood

Start time, end time, total flood duration for each flood

Each alarm and its time stamp details in a flood

Average Flood count per day

Maximum Flood count per day

- **Weighted Flood Analysis Dashboard**

Percentage of time in flood

Number of alarm events in each flood

Start time, end time, total flood duration for each flood

Each alarm and its time stamp details in a flood

Average Flood count per day

Maximum Flood count per day

- **Chattering Alarm Dashboard**

Top Ten Chattering alarms by count or duration

Total alarms due to chatter

Percentage of total alarms due to chatter

Average duration of chattering periods

Maximum duration of chattering periods

Average chattering alarms per week

Maximum chattering alarms per week

- **Shelved Alarm Dashboard**

Number of times each alarm was shelved and Total, Average, and Maximum time on shelf

Average Shelved Alarms per week

Maximum Shelved Alarms per week

- **Suppressed Alarm Dashboard**

Number of times each alarm was suppressed and Total, Average, and Maximum time on shelf

Average Suppressed Alarms per week

Maximum Suppressed Alarms per week

- **Dependent Alarms Dashboard**

Each Primary/Dependent alarm combination

Occurrences of each combination

Correlation of each combination

- **Related Alarms Dashboard**

Each Primary/Related alarm combination

Occurrences of each combination

Correlation of each combination

EKPI provides the metrics in-line with the following guidelines, standards, and regulations: EEMUA 191, ISA 18.2, API RP1167, 49CFR192.631, and 49CFR195.446.

In addition to the standard dashboards and reports, analyst users can create ad-hoc reports or generate new reports and publish them to all users. Standard users can trigger report to be run and emailed to them if certain criteria are met or periodically.

Whether at your desk or on your mobile, EKPI gives you the capability to monitor your alarm system performance and operator loading, archive events, or analyze detailed event data.