Release Note #86

Topic: PressureMAP Alarm Validation

General Information:

This release note explains the process that PressureMAP uses to validate an alarm condition that is detected during the polling of monitoring devices in an office, or in response to an incoming CPAMS (cable pressurization automatic monitoring system) alert. The validation function was implemented in PressureMAP to confirm potentially system-damaging alarm conditions, prevent dispatching on non-critical device reading changes, and eliminate unnecessary and time consuming manual reading of device information.

Alarm Validation Specifics:

Once PressureMAP has identified a device reading change that indicates a possible alarm condition, either by contacting a CPAMS ("Call") or by receiving an alert ("Receive Alarm"), it will hold the alarm for approximately 10 to 15 minutes. This brief delay allows time for any conditions or reading aberrations that may have inadvertently triggered the alert to clear, if applicable. PressureMAP then attempts to validate the alarm via the following process:

- If the device in alarm is cable-related (as opposed to one that monitors an air pipe), PressureMAP will take a realtime reading on the device in ALARM and all other cable-related devices sharing the same Location Code (LOC), other than CO. PressureMAP will then take realtime readings for all cable-related devices that are at location codes referenced in the devices' Office1 and Office2 data fields, as well as Field1 and Field2.

  Please note that cable-related alarms pertain to *P (Pressure), *F (Flow), *V (Volume), or *C (Contactor) devices with one of the following designations as the first character of the Device Type: I, F, A, G, Q, B, H, U, J, W, L, D, M, T, O, X, and $. Examples would be UP, BP, MF, etc.

- If the device in ALARM is pipe-related, PressureMAP will take realtime readings for the device, plus other pipe-related devices. It then compares the realtime readings with the original "ALARM" reading and associated device readings to identify changes, i.e. drops in pressure or increases in flow. If the "ALARM" reading and the realtime reading are the same or have escalated in severity (higher flow/lower pressure), the ALARM is "Validated" and processed by "Send Alarm."

  Please note that cable-related alarms pertain to *P (Pressure), *F (Flow), *V (Volume), or *C (Contactor) devices with one of the following designations as the first character of the Device Type: I, F, A, G, Q, B, H, U, J, W, L, D, M, T, O, X, and $. Examples would be UP, BP, MF, etc.

In both cases above, if the realtime reading shows that the ALARM reading was in error or has been restored, the "Alarm" is cancelled before it is processed by Send Alarm.

System Studies Incorporated

2-1340 East Cliff Drive
Santa Cruz, CA 95062
(831) 475-5777
(800) 247-8255
www.airtalk.com