Standard Alarm Notification
Software for
Automatic E-Mail and SMS

A. General Features

The System shall consist of Microsoft Windows based software capable of accomplishing the following tasks:

1) **Upon alarm events: facilitate the display, sorting, and filtering (e.g. by date and time range) of alarm information to the screen of a Windows based computer system.**

2) **Upon alarm events: facilitate the compilation and transmission of alarm information via SMTP as HTML or plain text email. TLS/SSL is supported.**

3) **Upon alarm events: facilitate the compilation and transmission of alarm information to mobile devices as SMS via SMTP (carrier gateway required).**

4) **Upon alarm events: facilitate the compilation and transmission of alarm information to mobile devices as SMS/EMS/MMS (CDMA/GSM/HSPA/LTE cellular modem required).**

5) **Following notification: provides for acknowledgement of alarms via Windows GUI Application. Such acknowledgements shall pass identifying information regarding the actor to the SCADA where possible, including the actor's ack comments where possible.**

6) **The notification software allows for software licensing**

7) **The notification software communicates natively with Wonderware InTouch, Wonderware System Platform, GE iFIX, GE CIMPLICITY, and Rockwell Automation FactoryTalk View A&E Servers or in a generic manner via OPC DA Classic 2.0 to other applications.**

8) **The notification software supports filter-based subscriptions to alarms from Wonderware InTouch, Wonderware System Platform, GE iFIX, GE CIMPLICITY, and Rockwell Automation FactoryTalk View A&E, eliminating the need for tag imports and resulting maintenance of redundant configuration.**

9) **The notification software may be used in Hot Backup or Redundant SCADA applications. The SCADA software can put the notification software in "Standby" or "Active" mode through script.**

10) **The notification software supports the creation of "Watchdog Alarms" for monitoring the status of SCADA/HMI connectivity.**

11) **The notification software shall support connection schedules, including schedules with arbitrary recurrence e.g. "6 days on, 4 days off".**

12) **The notification software shall allow for monitored alarmable objects to be grouped, including non-hierarchical groupings.**

13) **The notification software shall associate each monitored alarmable object with a notification strategy allowing for:**

   • **The notification of individual connections**
   • **Arbitrary delays for escalation.**

14) **The notification software shall allow the actions of a notification strategy to be executed a configurable number of times and/or with a configurable frequency.**

15) **The notification software shall allow for the assignment of a "Do Not Notify" strategy during maintenance downtime thus eliminating unnecessary or undesired notification attempts.**

16) **The notification software shall log alarm state changes and strategy actions, including notification attempts, notification results, acknowledgement attempts, and acknowledgement results.**

17) **The notification software shall provide a browser based configuration utility accessible across the network and supporting multiple languages and cultures including Chinese, English, French, German, Hebrew, Italian, and Spanish.**