

WIN-911/ME Alarm Notification Software
or
E-Mail and Web-based Alarm Notification System
For Windows XP, Server 2003, 7, Server 2008, 2008 R2

A. General Features

The Alarm Management System shall consist of a true 32 bit or 64 bit Microsoft Windows based software, which shall be compatible with Windows XP, Server 2003, 7, Server 2008, and Server 2008 R2. The Alarm Management System shall be capable of bi-directional communication with other Rockwell Automation FactoryTalk View Machine Edition. Software must be capable of accomplishing the following tasks:

- 1) Upon Alarm condition: facilitate the compilation and transmission of alarm information to general E-Mail and Internet software which can use commercially available wireless cellular messaging systems.
- 2) Upon Alarm condition: facilitate the compilation and transmission of alarm information over Internet, provide for text based messaging of alarm information and allow for the password secured remote acknowledgment of such alarms.
- 3) The software must allow for the following features:
 - Keyless Licensing
 - Manual configuration of up to 50 alarms from FactoryTalk View Machine Edition database
 - Text-to-Speech engine automatically creates voice files to be generated for local audio and telephone applications
 - Direct Database Connection to FactoryTalk View Machine Edition
 - Viewing alarm history with the capability to sort, group, analyze, and print activity between user defined dates and times.
 - Ability to add notes to any alarm record to record unusual events, circumstances, miscellaneous information, or corrective activities.
 - The ability to be used in Hot Backup or Redundant SCADA applications. The SCADA software can put the automatic dialing software in "Standby" or "Active" mode with the use of "Scripting controls".
- 4) Allow for the creation of "Watchdog Alarms". A Watchdog Alarm is a special monitoring function, which makes it possible to test the connection and functionality of the communication link to device drivers. Detection includes faulty or cut cabling to the device as well as loss of the connection. Upon the activation of any Watchdog Alarm, facilitate the compilation and transmission of an alarm to any valid output media identical to either analog or digital alarms.

B. Software

Shall be 32 bit or 64 bit Microsoft Windows XP / Server 2003 / 7 / Server2008 /Server 2008 R2 based in both configuration and execution modes. The installation process shall occur in the Windows environment and automatically install all required software onto the destination computer and create all necessary Windows groups, icons and all necessary drivers and DLLs.

1) Configuration Software

a) Shall allow for the configuration of E-Mail SMTP Account Information and POP3 Server Name, SMTP and POP3 Ports, User Login Name and Password.

b) Shall allow for the creation and maintenance of a "phone book" of destinations for alarm transmissions. The phone book shall be independently configurable and shall maintain day of the week, time of the day and type of transmission eligibility for each phone book entrant. The quantity of eligibility entries in the phone book shall be unlimited. Schedules can be customized and can accommodate non 7 day work duty cycles such as "6 days on, 4 days off".

c) Shall also be able to establish and maintain links to one or multiple PanelView Plus systems.

d) Shall provide for the creation of "Groups" consisting of selected entries from the Phone Book. A "Group" may be considered to be a logical grouping of alarms, based upon the type of transmission desired as a result of any alarm condition. Group configuration shall allow for:

- The selection of recipient list for alarm transmissions along with recipient priority determination.
- The creation of user configurable delays prior to commencement of alarm transmissions.
- The user selection of "single pass" or "continuous loop" modes through recipient list until alarms are acknowledged.
- The user enable/disable of: printer output, data logging to disk file.
- The selection of Pop Up controls for alarms to "Pop up" over the current application allowing for immediate visualization or mandatory user acknowledgment of alarms.

e) Shall provide for Digital Alarm handling up to 50 alarms, and allow a textual description field for each Digital Alarm. Standard alarm acknowledgments require personal involvement. Each alarm can be selected to "acknowledge upon return to normal state", or allow for automatic acknowledgment of any alarm generated.

f) Shall allow for the creation and maintenance of "text reports" or organized collections of tags. Such reports may be MobileView accessed via Internet connection and web browser employing a mandatory password protection system. The report feature shall make it possible to inquire and receive a text based description of the tag requested, along with the current value.

2) Execution Software

a) Shall allow for "On-Line" changes to "Override" a user's duty schedule to accommodate sick days and unscheduled vacation days.

b) Shall be capable of maintaining a group by group activity log which may capture: Any alarms that may occur (along with user configurable time and date stamp), any return to normal transactions, any email notifications, any inbound and outbound

Mobile-911 transactions, any self-acknowledging alarms, or acknowledgements from other software applications. All error messages must also be managed.

c) Shall be capable of managing the log file at any time. User entered notes may be added to any alarm record. Functionality shall also include viewing, sorting, and printing the log file.

d) Shall have the ability to be used in Hot Backup or Redundant SCADA applications. The SCADA software can put the automatic dialing software in "Standby" or "Active" mode with the use of "Scripting controls".