

Product Details

OPERATING SYSTEMS

Windows 7SP1 / 8.1 / 10 / 11 (64 bit)

Windows Server: 2008R2SP1 / 2012 / 2012R2 / 2016 /

2019 / 2022 (64 bit)

DATA SOURCES (MONITORED DATA):

- OPC/SCADA: OPC Classic (DA/HDA) or OPC UA (DA) Servers. Available for most PLCs, SCADA Systems, DCS's, and Historians. SCADA Sync option for popular SCADA Systems to import alarm tags
- OPC Alarms and Events: OPC A&E Servers including Emerson DeltaV, ICONICS, GE iFIX, Honeywell Experion, and others
- PI/PIAF: AVEVA PI tags and AF attributes
- MQTT: MQTT events from one or more brokers
- SQL Lookup: ODBC and OLEDB databases
- SQL Events: ODBC SQL-based event logs
- · PerfMon: Performance Counters and Network Ping

GENERAL

- Runs interactively or as a Windows Service
- Multi-level tag/alarm grouping for categorizing, filtering, and notification of alarms
- · Verbose Application, Alarm and Notification logs
- Alarm comments/annotations
- Monitor and alarm result of calculation/expression
- Audit change log, detailed change reports, and automatic backup to files and SQL Server
- · Failover/redundancy for alarm Engine and clients
- Performance & health monitoring with notification
- Programmatic configuration API

ALARM/EVENT FEATURES

- Configurable value, status, timestamp-age, value flat-line, change, trend up/down alarm conditions
- Complex alarm conditions involving multiple tags and conditions
- Alarm logic and function scripting with VB.Net and optional access to external libraries
- Monitor and detect abnormal alarm activity (active alarm counts, frequency, flooding)
- Delay of alarm unless condition is active for a period
- Expiration of alarm after a period of time
- · Alarm limit value dead bands
- · Blackout period for alarm frequency filtering
- Suppress alarm detection if associated equipment not running or alarm inhibited
- · Suppress alarm detection if status of tag not good
- Flexible alarm condition scheduling (days/time-of-day, exclude date ranges)
- Fixed and dynamic limits (e.g. tag values as limits)

- Define alarm and notification settings once for multiple tags (templates and inheritance)
- · Tag groups/Alarm groups for notification and filtering
- · Alarm priority and priority range colors
- · Alarm time zones for accurate time reporting
- Custom alarm and return to normal messages
- Notification escalation of unacknowledged or persistent alarms
- Disable and snooze alarms (alarm shelving)
- Synchronize alarm acknowledge with monitored system (e.g., SCADA)
- Suppression of startup alarm notifications
- Programmatic API and command-line/scripted configuration changes to tags, alarm conditions, and alarm limits

NOTIFICATION

- · Audible text-to-speech and WAV file alarms
- · Notify on alarm, return-to-normal and acknowledge
- Email notification: SMTP, reply acknowledge (POP3/IMAP), SSL, attachments and failure retry. OAuth support (sign in with Google/Microsoft)
- SMS Notification: SMS/text messages with reply alarm acknowledge via cellular modems/devices or Twilio (hosted SMS)
- Messaging notification: with reply alarm acknowledge via Microsoft Teams, WhatsApp, Pushover or SIP Instant Messaging (IM)
- Voice notification: audible text-to-speech to any phone using VOIP. VOIP-to-analog line and VOIP-to-cellular support
- Redundancy: email, SMS, messaging and voice
- Custom notification: can be developed by users
- MQTT: publish alarms and current state messages
- SNMP traps: send alarms as v1 and v2 SNMP traps
- · Custom message content and email subjects
- Message templates for detailed message content and formatting (text or HTML)
- Escalate persistent or unacknowledged alarms
- Prioritized message delivery
- Output/write to tags upon alarm, return-to-normal and alarm acknowledgment events
- Launch other applications/scripts upon alarm/RTN
- Contact database with flexible recipient scheduling and notification enable/disable
- Active directory support for contact information
- Dynamic recipients (use tag values as recipients)
- · Local/remote Windows notification area icons

BI-DIRECTION EMAIL/SMS COMMUNICATION

- Reply to email/SMS to acknowledge alarms
- Request reports or state information via email/SMS

REPORTS, FEEDS AND EVENTS

- Alarm actions: details of each alarm state, acknowledge and notification actions
- · HTML snapshot reports of current values/alarms with local file output, publishing and email
- · Ad-hoc and scheduled alarm history reports with local file output and/or email
- Alarm RSS feed generation and publishing
- "EventHooks" for user-written event handling

REMOTE ACCESS AND ACKNOWLEDGE

- Mobile Web App for Apple iOS, Android, any browser
- Remote Viewer client for Windows Desktop
- 2-way email/SMS/messaging communication for alarm acknowledge and current state information
- Voice dial-in (VOIP) to hear and acknowledge alarms
- · Notification direct-link to acknowledge web page

REMOTE VIEWER ALARM CONSOLE

- · Alarm monitoring, alarm management, audible alarms and alarm acknowledgment in a rich, yet thin client.
- User-specific, customized views of alarm activity

- · Query and filter alarm history, create alarm reports
- Interactive alarm analytics (tables and graphs)
- Permissions to view and acknowledge alarms

MOBILE WEB APP

- Apple iOS, Android, tablets and desktop browsers
- · Monitor values and alarms, acknowledge alarms
- · Query alarm history and identify bad actors
- Real-time alarm/value updates pushed to clients
- · Optional user logon security and permissions

CONFIGURATION AND MANAGEMENT

- · Intuitive configurator for users of all levels
- Web (local/remote) and desktop (local) configuration tools
- · Bulk configuration through CSV files
- Administrative tools for real-time monitoring of alarms, notification queues, performance and logs
- · Built in engine health warning and reports

SQL SERVER OUTPUT (OPTIONAL)

- · Alarm logging (alarms table) enables alarm comments/ annotations and provides better reporting performance and external access
- Current values/alarms (snapshot table) provides current state information to external applications

TOPVIEW

- Alarm and notification engine
- · Audible alarms
- · SQL server alarm logging (optional)
- Manage alarms and events
- Monitor value and alarm events
- Alarm
- acknowledge
- Perform operations, logic
- Heartbeat
- Alarm acknowledge

DATA SOURCES

- OPC/SCADA
- PI/AF Servers (OSIsoft)
- ODBC/OLEDB (SQL)
- OPC A&E
- MQTT Broker
- Performance Counters

ALERTS

EMAIL

- Notify and reply acknowledge
- · Outgoing (SMTP with OAuth)
- · Incoming (IMAP/POP with OAuth)

TEXT/SMS & MESSAGING

- Notify and reply acknowledge
- Cellular modem SMS
- Cloud SMS
- MS Teams
- WhatsApp
- Pushover

PHONE (VOIP)

- Notify and acknowledge
- · ON-prem or hosted VOIP
- · Analog line support

MANAGE

REPORTING

- Alarm reports
- Alarm snapshots
- Health warnings
- · Audit/change log

HEALTH MONITORING

- Built-in monitoring
- · Notification of health warnings
- · Monitor via admin tools

REAL-TIME VIEWERS

- · Mobile Web App for current alarms, values, tag details, acknowledgment
- Desktop app for audible alarms, acknowledgment, history, reports, analytics