

## EXELE TopView Software Data Sheet

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### 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 Connect/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:** OSIsoft 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:** Microsoft Windows System Performance and Network Ping Response

### 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
- E-mail 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 acknowledgement 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

- 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 actions: details of each alarm state, acknowledge, and notification actions
- Alarm RSS Feed generation and publishing
- "EventHooks" for user-written event handling

## Remote Access and Acknowledge

TopView offers multiple options for remotely accessing TopView and acknowledging alarms:

- 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 Alarm Console

- TopView *Remote Viewer* provides alarm monitoring, alarm management, audible alarms, and alarm acknowledgement 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)

Provides additional features and easy integration

- 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

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ALARM AND NOTIFICATION SOFTWARE

