



SCADA FEST

ORLANDO | 2026

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VTScada
Trihedral
A Delta Group Company



Mastering Alarm Alerts: The Key to Situational Awareness

Alan Hudson – US Sales Manager



Who is Alan...and Should I be Alarmed?

- US Sales Manager, VTScada software
- 36 years in SCADA and Automation
- System Integration, engineering, programming, communications, operations
- RTU / Telemetry / SCADA / Power System manufacturing, and “smart city” integration
- Specialized in applying proven technologies
- Electrical Engineering, Auburn University
- Mathematics, Samford University



2016 to 2026, without AI !





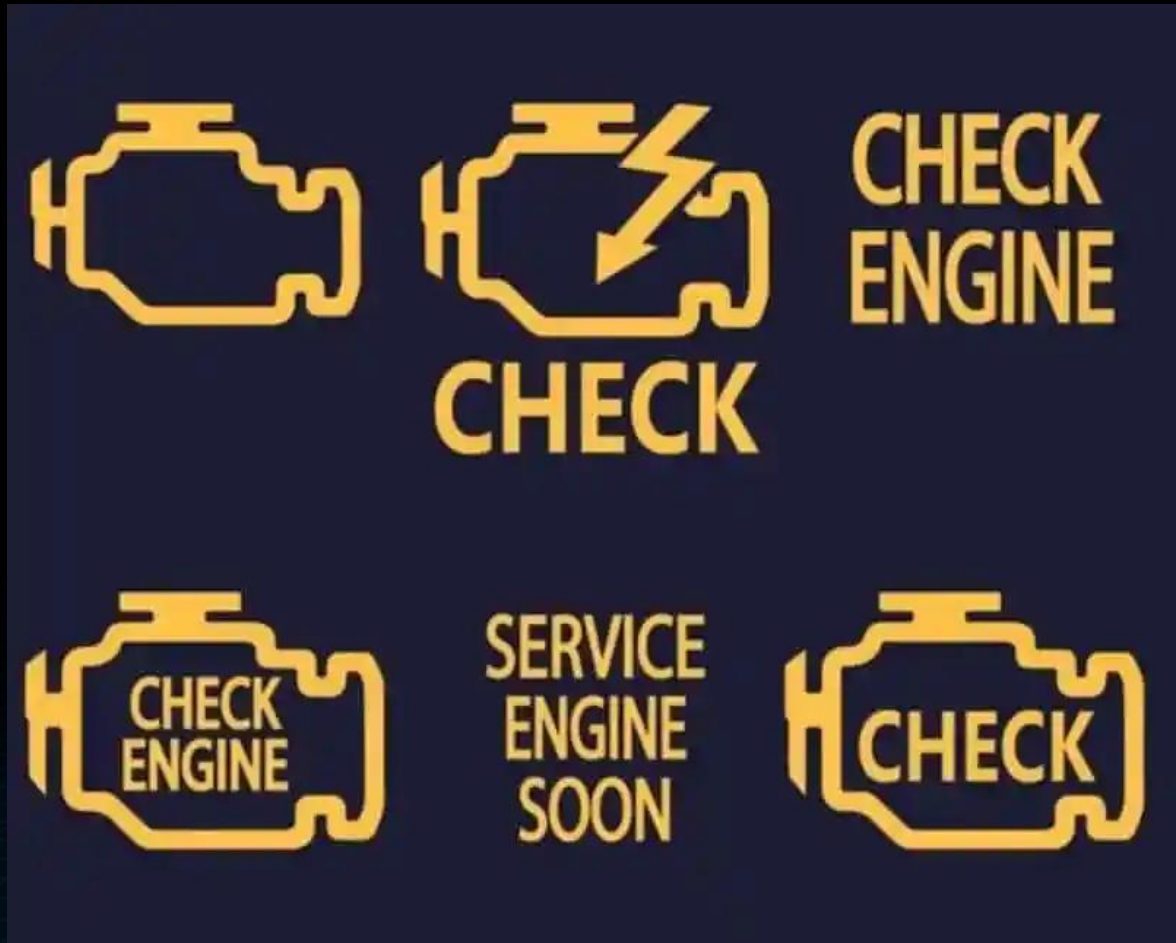
I like to tell stories...

Let's begin with something we can all relate to.

(and yes, I know I just ended the sentence with a preposition)



You and I have a common problem...



... the dreaded
Check Engine light!



The Solution to our Problem!



The OBD2 scanner / reader

Quick Poll:

- Who goes to the auto repair shop or the auto parts store to have it checked?
- Who has a scanner of their own?
- Who has more than one scanner?



My current answer to the problem



A Wireless OBD2 Scanner in every car!

- Bluetooth
- Apps for any smart phone
- Provides real-time monitoring, diagnostics
- Gives quick info anyone can use

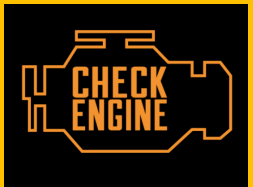




What does this



have to do with this?



VT Water Industry Demo

VTScada Alarm Page

System Alarm DB

Database Alarm Actions Reports & Analysis History Filter View Sounds

History	Active	Unacked	Current	Shelved	Disabled	Configured					
	Time		Event	Area	Name	Description	Value	Setpoint	Units	Workstation	Device
2	2019-01-15 07:06:20	▲	Normal	LM Pre-Mix	....\HiWar	Raw Water Tui	0.212	0.289	NTU	ALAN-PC	
2	2019-01-14 07:07:29	▲	Active	LM Pre-Mix	....\HiWar	Raw Water Tui	0.295	0.289	NTU	ALAN-PC	
◆	2019-01-14 07:07:27	Ⓢ	Unshelve	LM Low Lift Pump Station	...Level	Low Lift Pump		4.9	m	ALAN-PC	
2	2019-01-10 14:05:26	▲	Normal	LM Pre-Mix	....\HiWar	Raw Water Tui	0.287	0.289	NTU	ALAN-PC	
2	2019-01-10 14:04:30	▲	Active	LM Pre-Mix	....\HiWar	Raw Water Tui	0.29	0.289	NTU	ALAN-PC	
◆	2019-01-10 14:04:23	▲	Normal	Default	Default C	Disables Call C	0	1		ALAN-PC	
◆	2019-01-10 14:04:21	▲	Active	Default	Default C	Disables Call C	1	1		ALAN-PC	
2	2019-01-10 14:02:25	▲	Normal	LM Pre-Mix	....\HiWar	Raw Water Tui	0.287	0.289	NTU	ALAN-PC	
2	2019-01-10 14:02:24	▲	Active	LM Pre-Mix	....\HiWar	Raw Water Tui	0.294	0.289	NTU	ALAN-PC	
2	2019-01-09 13:17:25	▲	Normal	LM Pre-Mix	....\HiWar	Raw Water Tui	0.286	0.289	NTU	ALAN-PC	
2	2019-01-09 13:16:30	▲	Active	LM Pre-Mix	....\HiWar	Raw Water Tui	0.291	0.289	NTU	ALAN-PC	
◆	2019-01-09 13:15:43	Ⓢ	Shelve	LM Low Lift Pump Station	...Level	Low Lift Pump		4.9	m	ALAN-PC	
2	2019-01-09 13:14:36	Ⓢ	Unshelve	LM Pre-Mix	....\HiWar	Raw Water Tui	0.289	0.289	NTU	ALAN-PC	
◆	2019-01-09 13:14:19	✓	Acknowledge	LM Low Lift Pump Station	...Level	Low Lift Pump		4.9	m	ALAN-PC	

We must Make the Most of our Alarms!



Legacy Alarm Systems: Extremely Basic

Relying on Mrs. Smith's phone call to let us know the tank is full.





1980s - The Next Evolution: Alarm Annunciators

Lights, a horn, and some buttons

Think Star Trek, Star Wars and MacGyver





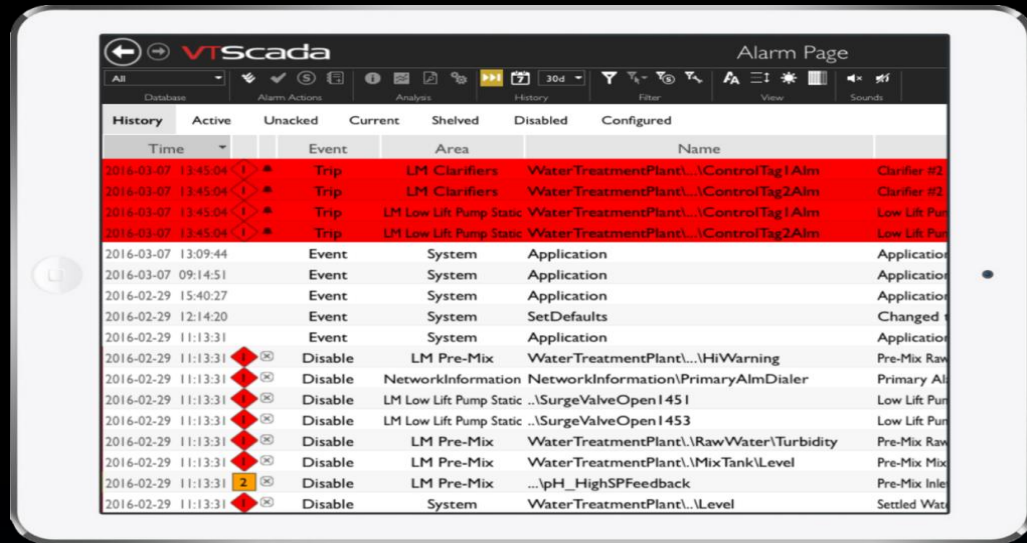
1990s: The Digital Age began!



- The printer recorded every alarm.
- Some systems printed the Acknowledge.
- The printed paper folded into a box.
- The box was stacked in a closet.
- Often, the paper was out or the printer ribbon was used up.
- And since space was “unlimited,” the quantity of alarm points was often excessive!



Now: Making alarms easy, useful, intuitive



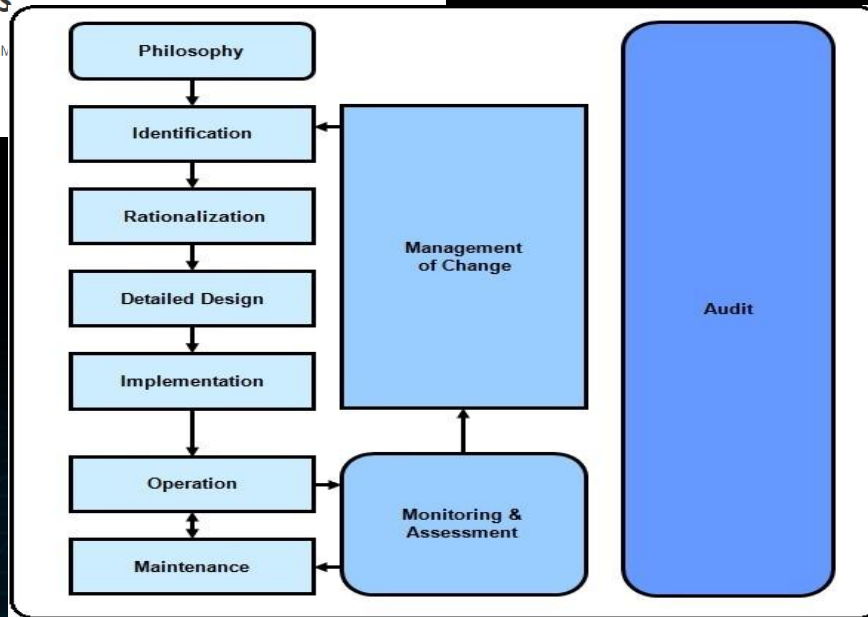
- For Operations
- For Maintenance
- For Operational Adjustments
- For Planned Procedures
- For Management Decisions
- ...and many other uses.



Adoption of Guidelines like ISA 18.2 Standards

ISA 18.2: Management of Alarm Systems

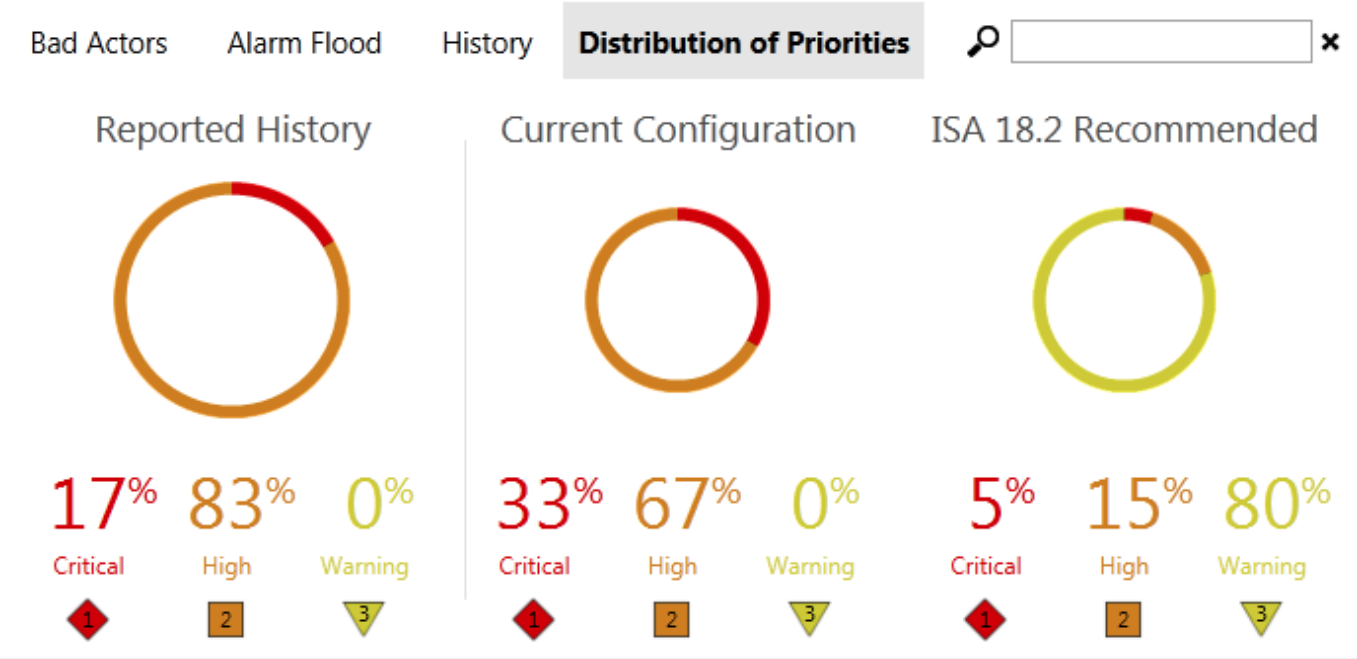
- Definitions
- Requirements
- Class
- Roles
- Rationalizations
- Priority definitions
- Shelving / Suppression





Applying the ISA 18.2 Alarm Standards

Classification of Alarm Priorities



Five Levels of Alarms

- Critical
- High
- Warning
- Notice
- Event



Alarm Management and Action Logging

Tools Based on ISA 18.2 Alarms Management Standard

Separate Databases for Alarms and Events

The screenshot shows the VTScada Alarm Page interface. At the top, there's a navigation bar with 'VTScada' and 'Alarm Page'. Below it is a toolbar with icons for 'Alarm Actions', 'Reports & Analysis', 'History', 'Filter', 'View', and 'Sounds'. A dropdown menu for 'System Alarm DB' is open, showing options for 'All', 'System Alarm DB', and 'System Event DB'. Below the toolbar is a table of alarms with columns for 'Time', 'Event', 'Area', and 'Name'. The table contains several rows of alarm data, with some rows highlighted in red and others in yellow. A red arrow points from the text 'Separate Databases for Alarms and Events' to the dropdown menu. Another red arrow points from the text 'Easily filter down to only the Alarms you need.' to the 'Filter' icon in the toolbar.

Easily filter down to only the Alarms you need.

Use color, symbols, and sound to meet visual needs

The 'Advanced Filtering' dialog box is shown, allowing users to search for alarms based on various criteria. It includes fields for 'Find Alarms and Events', 'with this description', 'with this name', 'in this area', 'with this priority', 'by this user', 'as this event', 'in this month', and 'in this date range'. There are also checkboxes for 'Case sensitive' and 'Include children', and a radio button for 'Or higher priority'. The dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom.



Let's look at some VTScada ISA 18.2 Tools

Tools Based on ISA 18.2 Alarms Management Standard

Use color, symbols, and sound to meet visual needs

VTScada Alarm Page

System Alarm DB | Alarm Actions | Reports & Analysis | History | Filter | View | Sounds

All | System Alarm DB | System Event DB

Unacked | Current | Shelved | Disabled | Configured

Time	Event	Area	Name
2016-12-22 11:19:07	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-22 11:18:29	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-22 11:18:24	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\
2016-12-22 10:22:49	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\Pumps\Pump0\
2016-12-22 10:22:43	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank3\tar
2016-12-22 10:14:21	Unshelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank1\tar
2016-12-22 10:14:19	Unshelve	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\tanks\
2016-12-22 10:14:08	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\tanks\
2016-12-22 10:14:00	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank1\tar
2016-12-22 10:04:16	Unshelve	IT	ITResources\Workstation_Barry\PercentCPUUsed

AlarmPriority0	Event	Alarm Priority
AlarmPriority1	Critical Alarm	Alarm Priority
AlarmPriority2	High Alarm	Alarm Priority
AlarmPriority3	Warning Alarm	Alarm Priority
AlarmPriority4	Notice	Alarm Priority



My Favorite...Alarm Shelving

Tools Based on ISA 18.2 Alarms Management Standard

VT Shelve Selected

Shelve the selected alarm

for 5 minutes

until 2016-05-04 12:00

indefinitely

OK Cancel

VTScada Alarm Page

System Alarm DB

System Alarm DB

System Event DB

Unacked Current Shelved Disabled Configured

	Time		Event	Area	Name
1	2016-12-22 11:19:07	✓	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-22 11:18:29	▲	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-22 11:18:24	▲	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\
2	2016-12-22 10:22:49	⊙	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\Pumps\Pump0\
2	2016-12-22 10:22:43	⊙	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank3\tar
2	2016-12-22 10:14:21	⊙	Unshelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank1\tar
3	2016-12-22 10:14:19	⊙	Unshelve	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\tanks\
3	2016-12-22 10:14:08	⊙	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\tanks\
2	2016-12-22 10:14:00	⊙	Shelve	Water Treatment Plant	WaterTreatmentPlantDemo\WaterTreatPlantSim\tanks\tank1\tar
	2016-12-22 10:04:16	⊙	Unshelve	IT	ITResources\Workstation_Barry\PercentCPUUsed
		⊙	Shelve	IT	ITResources\Workstation_Barry\PercentCPUUsed
1	2016-12-14 16:26:41	✓	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-14 16:26:37	▲	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-14 16:26:32	▲	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-14 15:54:13	⊙	Unshelve	IT	ITResources\Workstation_Dave\BatteryLevel
1	2016-12-14 15:53:49	⊙	Shelve	IT	ITResources\Workstation_Dave\BatteryLevel
1	2016-12-06 12:00:06	✓	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-06 12:00:00	▲	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
1	2016-12-06 11:59:55	▲	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl

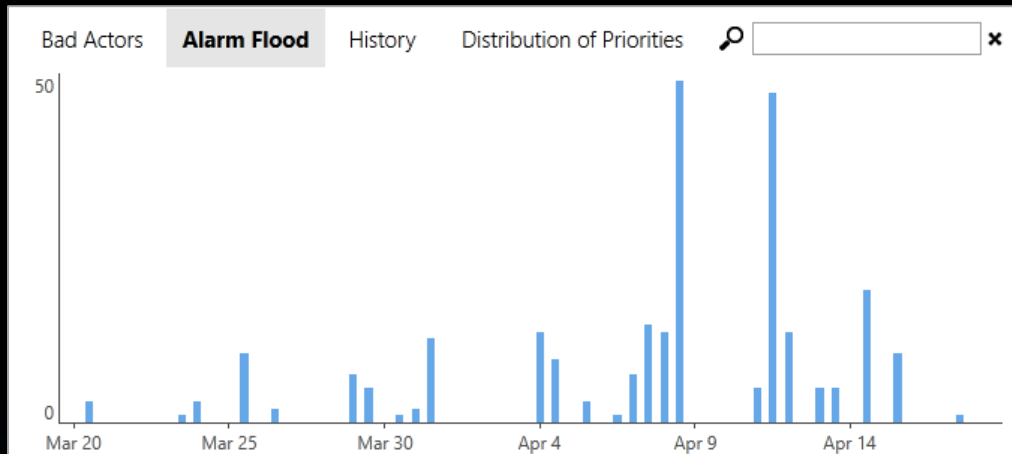
Shelved Alarms won't distract operators but are recorded in the Alarm historian.



Alarm Tuning for Maximum Effectiveness

Bad Actors Report

Summary of alarm occurrences within a specific period, sorted by the number of activations.



History Report

All active and trip alarm events within a specific period.

All		Database	Analysis	Filter	View
Bad Actors		Alarm Flood	History	Distribution of Priorities	
		Area	Name	Description	Count
1	2	Zone 1	Local TCP Port\PLCSim\Tank 1\Tank Level	Monitor tank level HIGH	14
2	1	Zone 2	Local TCP Port\PLCSim\Tank 2\Tank Level	Monitor tank level HIGH	5
3	2	Zone 3	Local TCP Port\PLCSim\Tank 3\Tank Level	Monitor tank level HIGH	2

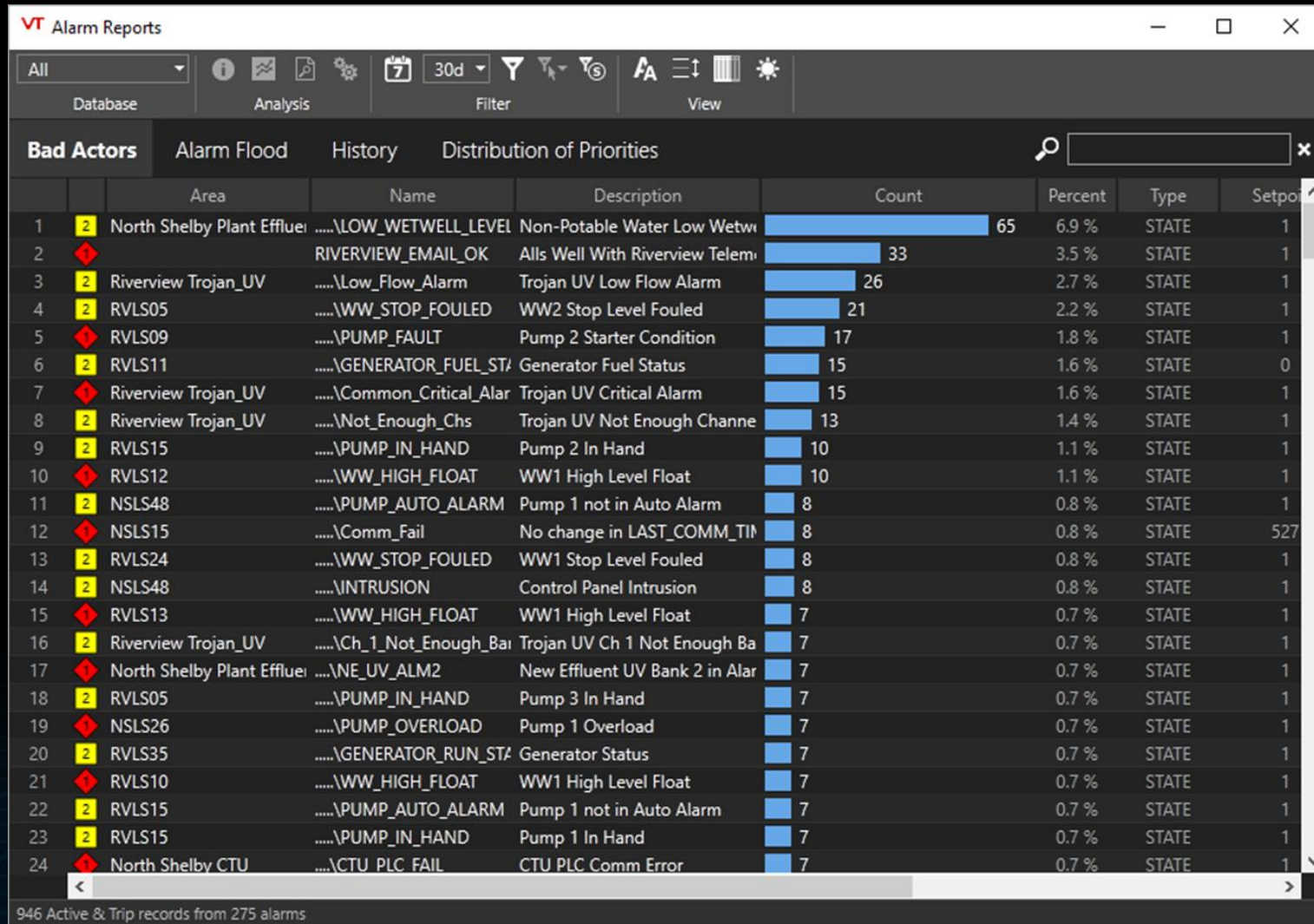
Alarm Flood Report

Count of alarms tripped within equal time slices. Click a bar to zoom into that period.

All		Database	Analysis	Filter	View
Bad Actors		Alarm Flood	History	Distribution of Priorities	
Date Time	Event	Area	Name	Description	User
2016-04-07 12:03:29	Active	Zone 1	Local TCP Port\PLCSim\Tank 1\Tank Level	Monitor tank level HIGH	
2016-04-07 11:00:50	Active	Zone 1	Local TCP Port\PLCSim\Tank 1\Tank Level	Monitor tank level HIGH	
2016-04-07 10:55:36	Active	Zone 2	Local TCP Port\PLCSim\Tank 2\Tank Level	Monitor tank level HIGH	
2016-04-07 10:54:05	Active	Zone 1	Local TCP Port\PLCSim\Tank 1\Tank Level	Monitor tank level HIGH	



Real-Time Alarm Analysis





Remote Alarm Notification and Management

Critical Alarms Find You Anywhere!



- Integrated to enhance the system
- Create rosters for shift cycling, vacations, etc.
- Numerous rosters based on staff rotations
- Alarm actions put back into the Alarm Historian
- Should support Voice Dial, SMS Text, and email... through traditional phone lines and VOIP

Diagnostics Page for VoIP Callout Status

VT Roster (GreeleyApplicationSettings\Rosters\TestRoster) Properties

ID		Contacts		Settings		
Method	Name	Phone Number / Email Address	Username	Time Zone	Enabled	
▶ Start of roster						
Text Message	Alan	2056126665	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
Voice	Tim	6178776660	Tim	Server Time Zone	<input type="checkbox"/>	✕
Repeat 2 times with 1 minute delays						
Email	Alan	walanudson@gmail.com	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
Delay for 10 minutes						
Email	Dan Naughton	dan.naughton@trihedral.com	dan	Server Time Zone	<input type="checkbox"/>	✕
Voice	Dan Naughton	2313607309	dan	Server Time Zone	<input type="checkbox"/>	✕
Text Message	Bryan	4074033785	bryan	Server Time Zone	<input type="checkbox"/>	✕
◻ End of roster						



Remote Alarm Notification and Management

Diagnostics Page for VoIP Callout Status

VT Roster (GreeleyApplicationSettings\Rosters\TestRoster) Properties

ID		Contacts		Settings		
Method	Name	Phone Number / Email Address	Username	Time Zone	Enabled	
▶ Start of roster						
Text Message	Alan	2056126665	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
Voice	Tim	6178776660	Tim	Server Time Zone	<input type="checkbox"/>	✕
Repeat 2 times with 1 minute delays						
Email	Alan	walanhudson@gmail.com	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
|| Delay for 10 minutes						
Email	Dan Naughton	dan.naughton@trihedral.com	dan	Server Time Zone	<input type="checkbox"/>	✕
Voice	Dan Naughton	2313607309	dan	Server Time Zone	<input type="checkbox"/>	✕
Text Message	Bryan	4074033785	bryan	Server Time Zone	<input type="checkbox"/>	✕
✖ End of roster						

Critical Alarms Find You Anywhere!



ISA 19.2 Alarm Notification Parameters

Application Configuration: Greeley CO

Modify the properties of your application

Make changes to your application settings here. Some settings are not enabled unless the application is running. The "Apply" button is enabled when there are outstanding changes. Clicking the "Apply" button applies your changes to the application.

Display Alarms Historical Data Viewer Other

Require note when unshelving alarm 0 Minimum length of unshelve note

Alarm Notification

Notification priority:

- Do not notify on alarms
- Notify on Critical (priority 1) alarms only
- Notify on Critical (priority 1) or High (priority 2) alarms

Delay before notifying Critical (priority 1) alarms: 5 seconds

Delay before notifying High (priority 2) alarms: 5 seconds

Delay between contact notifications: 5 seconds

Spoken name in phone greeting: Greeley Demo Application

Initial section: Main Menu

Echo phone through speaker

Answer inbound calls

Notify when alarm triggers

Notify when alarm clears

Cancel notification when alarm is acknowledged

Cancel notification when alarm clears

Speak digit on phone key press

Time format in notifications: 12 hrs (11:00 PM)

Date format in notifications: 2013-01-31

Outgoing Alarm Emails

Advanced Mode Apply

Notify on Critical and High Alarms ONLY!



What is VoIP (Voice over IP)?

It's basically making calls over the internet.

- “Land lines” are basically obsolete
- SMS Text and emails are easy
- Voice dial can be tougher and may require 3rd party service providers
- Security becomes even more important
- Recipient actions are logged in the Alarm/Event Historian



VoIP will require some different parameters

The screenshot shows the 'Application Configuration: Greeley CO' window. The left sidebar contains various configuration options, with 'Edit Properties' selected. The main area is titled 'Modify the properties of your application' and contains a 'VOIP Settings' section. The 'Alarms' tab is active, showing a 'Registered Number' dropdown menu. Below this, the 'VOIP Settings' section includes a 'Workstation' dropdown menu set to 'Default', two checkboxes for 'Enable VOIP Calls' and 'Enable VOIP SMS' (both unchecked), and several text input fields for SIP-related parameters: 'SIP identity' (Dan < sip:172350@chicago1.voip.ms >), 'SIP server' (chicago1.voip.ms), 'SIP proxy' (empty), 'SIP domain' (chicago1.voip.ms), 'SIP login user ID' (172350), and 'SIP password' (masked with dots). There is also a 'Prefix for phone numbers' field and a 'Dial pause length' field with a descriptive note: 'To dial an external line or extension insert a comma to indicate a pause. E.g. "9," to dial 9 followed by a pause.' At the bottom of the settings, there are two checked checkboxes: 'Use SIPs' and 'Enable IP address rewrite'. The window has 'Advanced Mode' and 'Apply' buttons at the bottom right.



VoIP will also require different hardware

Cellular SMS Modems

MultiConnect microcell MTCM-L1G2D-B03-KIT

MultiConnect microcell MTCM2-L4G1D-B03-KIT





And may require email setup

Application Configuration: Greeley CO

Modify the properties of your application

Make changes to your application settings here. Some settings are not enabled unless the application is running. The "Apply" button is enabled when there are outstanding changes. Clicking the "Apply" button applies your changes to the application.

Outgoing Alarm Emails

Protocol: SMTP

Email server (name or IP): smtp.gmail.com

Email server port number: 587

Email encryption method: Use SSL/TLS if available

Email "From" address: vtscadademo@gmail.com

Username (if required): vtscadademo

Password (if required): ••••••

Use OAuth 2.0

OAuth 2.0 Grant Selection

Grant: No Grant selected

Grant Status: Unknown

Consent Revoke

Incoming Alarm Email Acknowledgments

Protocol: POP3

Email server (name or IP): pop.gmail.com

Email server port number: 995

Email encryption method: Use SSL/TLS

Username (if required): vtscadademo

Password (if required): ••••••

Advanced Mode Apply



Secure, Remote Access from Anywhere

SCADA Application With *SECURE* Internet Service Enabled



SCADA HTML-5 Client
HTML-5 compliant devices.
Consistent across all devices.
No reporting or file export.



PC / Laptop Clients
Full workstation experience.
Full reporting and file export.



Mobile Client
HTML5-compliant devices.
Smaller screens, data plans.
Full monitoring and control.





Let's Try Alarm Notification over VoIP



Anywhere Client

username / password
demo / demo

VT Greeley CO

VTScada VoIP 09:21 PM Jan 26 alan

Roster Alarm Test Please check the contacts list before you start calling people

Diagnostics Page for VoIP Callout Status

Call Manager Status

Name	Workstation	Type	Status	Call Attempts	Incoming Calls	Failures	Working
VOIP_WWW	WWW	VOIP	Registered	0	0	0	Configured

System Event DB

Database Alarm Actions Reports & Analysis History Filtering View Sounds

History

Time	Area	Name	Description	Workstation	Device	User
2025-01-26 21:20:37	Security	Security Manager	Signed in	ALAN-PC2		alan
2025-01-26 21:17:42	Security	Security Manager	Signed in	WWW	174.209.99.213	alan
2025-01-26 21:14:59	System	Application	Application Started (1 min 56 sec)	ALAN-PC2		
2025-01-24 14:41:11	Report	GreeleyApplicationSettings\BoydLake15MinuteTurbidityYesterday	The definition file for this report cannot be opened.	WWW	155.190.8.4	
2025-01-24 14:41:11	Report	GreeleyApplicationSettings\Bellevue15MinuteTurbidityYesterday	The definition file for this report cannot be opened.	WWW	155.190.8.4	
2025-01-24 14:40:19	Security	Security Manager	Signed in	WWW	155.190.8.4	demo
2025-01-24 14:39:58	Security	Security Manager	Signed in	WWW	155.190.8.4	demo
2025-01-24 14:39:20	Security	Security Manager	Signed in	WWW	155.190.8.5	demo

History: 472 records. History has been limited to the last 30 days.

System Alarm DB

Database Alarm Actions Reports & Analysis History Filtering View Sounds

History Active Unacked **Current** Shelved Disabled Suppressed Configured

Time	Ack	Status	Area	Name	Description
2025-01-26 21:18:31	Ack	Normal	System	GreeleyApplicationSettings\Rosters\TestRoster	



Let's Try Alarm Notification over VoIP



Anywhere Client

username / password
demo / demo

Diagnostics Page for VoIP Callout Status

Please check the contacts list you start calling people

VT Roster (GreeleyApplicationSettings\Rosters\TestRoster) Properties

ID			Contacts		Settings	
Method	Name	Phone Number / Email Address	Username	Time Zone	Enabled	
Start of roster						
Voice	Tim	6178776660	Tim	Server Time Zone	<input type="checkbox"/>	✕
Repeat 2 times with 1 minute delays						
Text Message	Alan	2056126665	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
Email	Alan	walanhudson@gmail.com	alan	Server Time Zone	<input checked="" type="checkbox"/>	✕
Delay for 10 minutes						
Email	Dan Naughton	dan.naughton@trihedral.com	dan	Server Time Zone	<input type="checkbox"/>	✕
Voice	Dan Naughton	2244098221	dan	Server Time Zone	<input type="checkbox"/>	✕
Text Message	Bryan	4074033785	bryan	Server Time Zone	<input type="checkbox"/>	✕
End of roster						

System Event DB Database History

System Alarm DB Database History Active Unactive

2025-01-26 21:24:54

OK Cancel Apply

+ Add contact + Add delay/repeat



BUT... Always Address the Security Concerns

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY AMERICA'S CYBER DEFENSE AGENCY

Search

Topics Spotlight Resources & Tools News & Events Careers About

REPORT A CYBER ISSUE

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SHARE: Facebook X LinkedIn

Cybersecurity Alerts & Advisories

What are you looking for?

Sort by (optional)
Release Date

APPLY

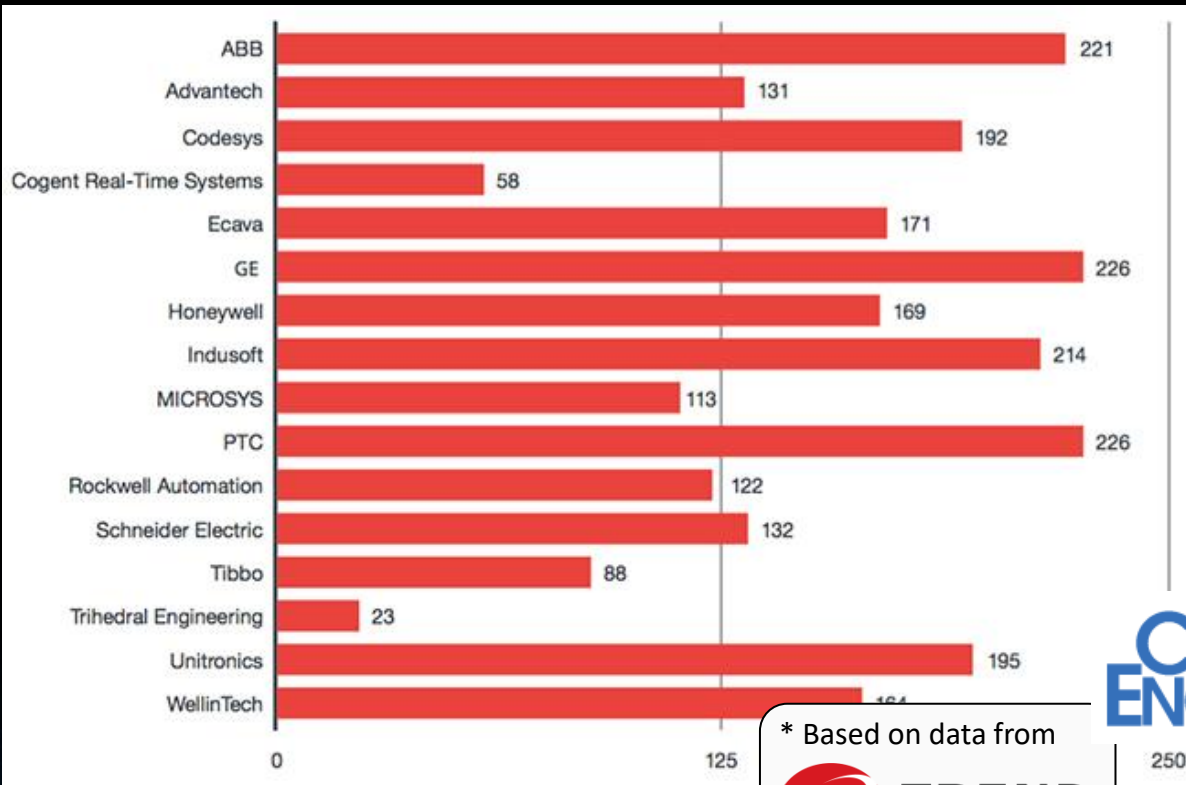
Advisory Type +

Release Year +

Vendor +

FEB 15, 2024 ■ ALERT
[CISA Adds Two Known Exploited Vulnerabilities to Catalog](#)

FEB 15, 2024 ■ ALERT
[CISA Releases Seventeen Industrial Control Systems Advisories](#)



* Based on data from



The importance of focusing on cybersecurity for SI projects

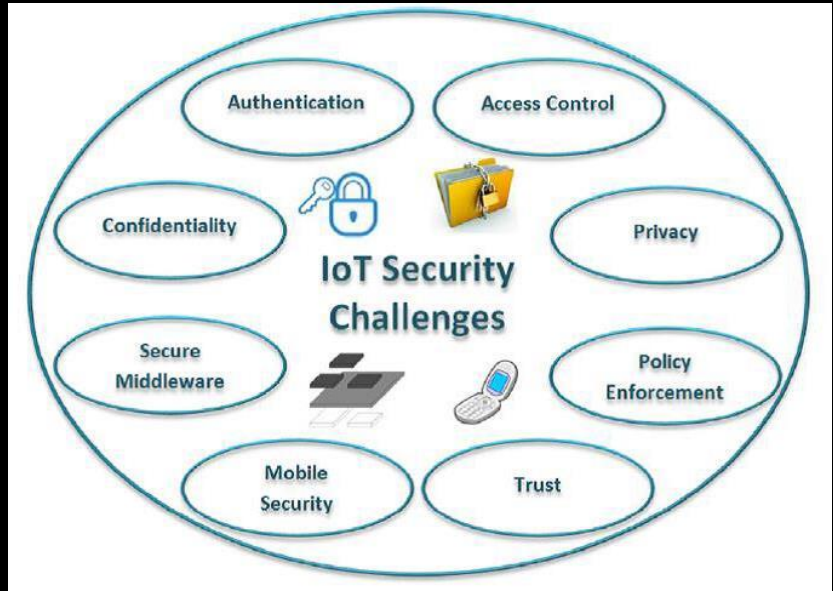
Industrial control system (ICS) cybersecurity is increasingly important. From the start, involve the right people from operational technology (OT) and information technology (IT) to collaborate on OT cybersecurity needs.

BY DAN MALYSZKO DECEMBER 13, 2022



And Follow the Security Standards


Homeland Security
 Topics News In Focus How Do I? Get Involved
 Home » Topics » Cybersecurity
 Topics **Cybersecurity**



ISA Standards and Publications / ISA Standards / ISA/IEC 62443 Series of Standards
ISA/IEC 62443 Series of Standards
The World's Only Consensus-Based Automation and Control Systems Cybersecurity Standards

Information Technology Laboratory
COMPUTER SECURITY RESOURCE CENTER **NIST**
 PUBLICATIONS
SP 800-53 Rev. 5
Security and Privacy Controls for Information Systems and Organizations

Home » Technical Topics » Cybersecurity » Cybersecurity Resources
Cybersecurity Resources
Protecting industrial automation and control systems
 ISA's suite of standards, training, and technical resources is the key.
 Patrick Gouhin, Executive Director & CEO, International Society of Automation, speaks about ISA Cybersecurity expertise in the following short video:

 ISA/IEC 62443 Series of Standards
Cybersecurity-Related Resources from ISA



In Conclusion

So what can you do?

Make sure your alarms are:

- **Relevant**
- **Meaningful**
- **Searchable**
- **Manageable**





Thank you !

Questions ?



Thank you for attending this session!

- Fill out the 2-question feedback survey via the App! *Ukova*
- Especially if you need a Continuing Education Credit or Professional Development Hours certificate.
- Don't have the app, fill out the paper form included in your conference kit and hand into Natasha.

SAVE THE DATE FOR SCADAFEST 2027!
MARCH 8-12, 2027 | ORLANDO, FL