

The background of the slide is a detailed, futuristic industrial landscape. It features large blue cylindrical storage tanks, wind turbines, a dam with water cascading over it, and a small boat on a body of water. In the distance, there are industrial structures, a control tower, and a small airplane flying in the sky. The top of the slide has a red header with white wavy lines. The logo 'VTScada' is prominently displayed in the upper center, with 'VT' in red and 'Scada' in dark blue. Below it, 'by Trihedral' is written in a smaller, dark blue font.

VTScada[®]

by Trihedral

Version 12.1

The industry's most **powerful** SCADA software[™]
for **critical** systems of any size.

Slides updated January 22, 2025

Be Productive in No Time

Use these online resources to start building applications right away.

VTScadaLIGHT™



Download

VTScadaLIGHT

Watch the 15-minute Quick Start Guide

VTScada®
by Trihedral



Quick Start Video

15-MINUTE TUTORIAL

*Create an application
Connect to a device
Add values to a screen*



Online Learning

VTScada ACADEMY

Learn what you need at your own pace in this free on-line learning environment.

INSTRUCTOR-LED COURSES

In-house or Online

Operation & Configuration - Advanced Configuration - Advanced Scripting

VTScada.com/START

What's New

VTScada®



MATURITY LEVEL 3

IEC CYBERSECURITY CERTIFICATION UPGRADED TO MATURITY LEVEL 3

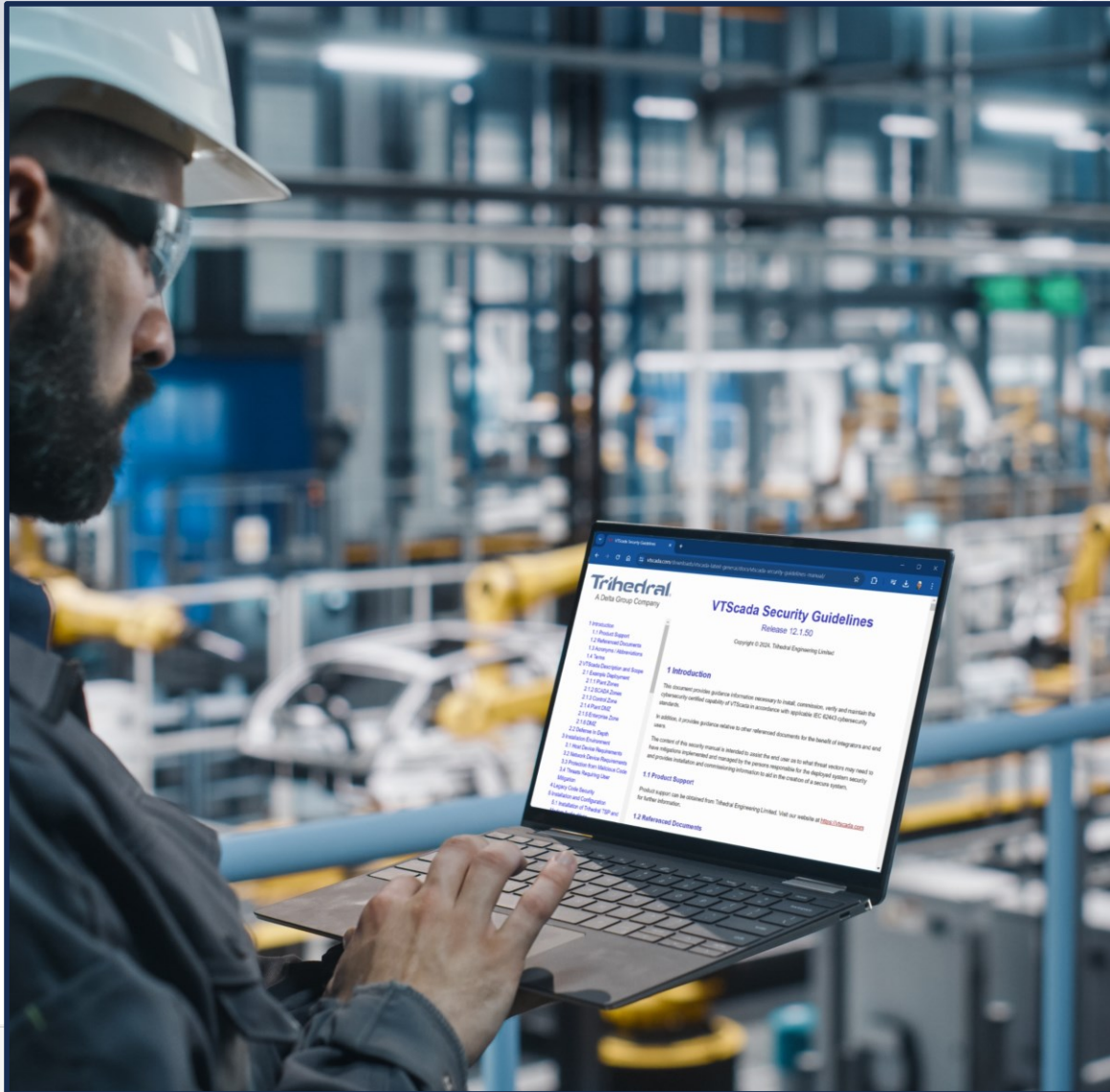
Issued by exida

VTScada's Software Development Environment is certified compliant with the IEC 62443-4-1 Security Standard For Industrial Automation and Control Systems.

In July 2024, this was upgraded to Maturity Level 3.

This recognizes that not only does Trihedral have procedures that meet the IEC 62443 4-1 standard, but they are also consistently using and improving upon them.

What's New



VTScada SECURITY GUIDELINES MANUAL

Harden Your SCADA System Against Cyber Threats

This document provides guidance information necessary to install, commission, verify and maintain the cybersecurity certified capability of VTScada in accordance with applicable IEC 62443 cybersecurity standards.

Included with every VTScada license and available to everyone here:

[VTScada.com/SecurityManual](https://www.trihedral.com/SecurityManual)



New in Version 12.1



VOIP-BASED VOICE ALARMS

Part of the Optional Alarm Notification System

In addition to physical modems, VTScada now supports three additional ways to send text-to-speech alarm notifications.

- VoIP to phone lines via analog telephone adapter (ATA).
- VoIP to PBX via internal digital phone service.
- VoIP to online VoIP Service (Voice only).

New in Version 12.1.35

- Use the above as well as Twilio Programmable Voice® and voice modems as redundant backups for voice alarm calls.
- VoIP now allows encrypted call setup and encrypted audio.



LOCK OUT EQUIPMENT OR DESIGNATE A SINGLE OPERATOR

Control Lock System - Prevents operation of selected equipment via the VTScada screens.

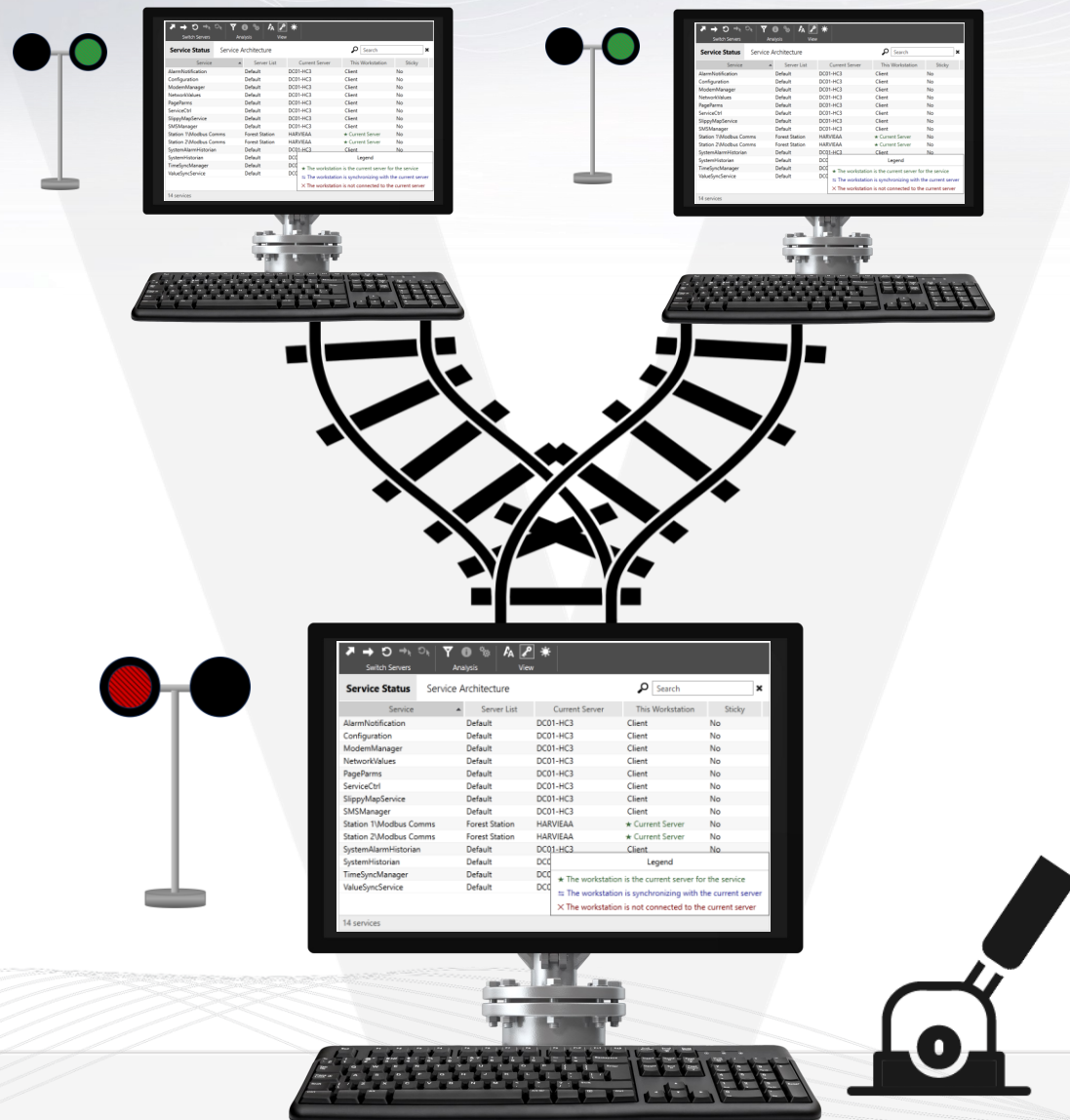
Control Tokens - Permits only one operator at a time to have control over a tag or set of tags.

Typical uses:

- Ensuring safe operation of critical systems and infrastructure.
- Preventing remote use of dangerous equipment during maintenance.



New in Version 12.1



MONITOR THE STATUS OF ANY SERVICE, SWITCH SERVICES TO OTHER SERVERS

Use the **Service Status Page (or Widget)** to view the status and the architecture of services in multi-server applications.

Manually transfer services before taking servers offline.

With just a click...

- Switch any or all services to their next designated servers
- Switch any or all services back to their Primary servers

New in Version 12.1

ENHANCED PERFORMANCE

VTScada has always had the power for massive and modest systems. Version 12.1 takes performance to the next level.

- **Multiple PLC Ports** - Network-based PLCs can open dozens of ports, increasing throughput up to ten times.
- **PLC Deadbands** – Improve CPU and network performance by filtering insignificant changes.
- **Script Bubbles** - Running parallel script code across PC cores is like running multiple copies of VTScada.
- **Enhanced Rockwell Driver (Formerly CIP)** - Alternates Rockwell device protocols/modes for best performance.
- **Faster VTScada Installer** - 27% smaller and 18% faster.



New in Version 12.1



Honeywell

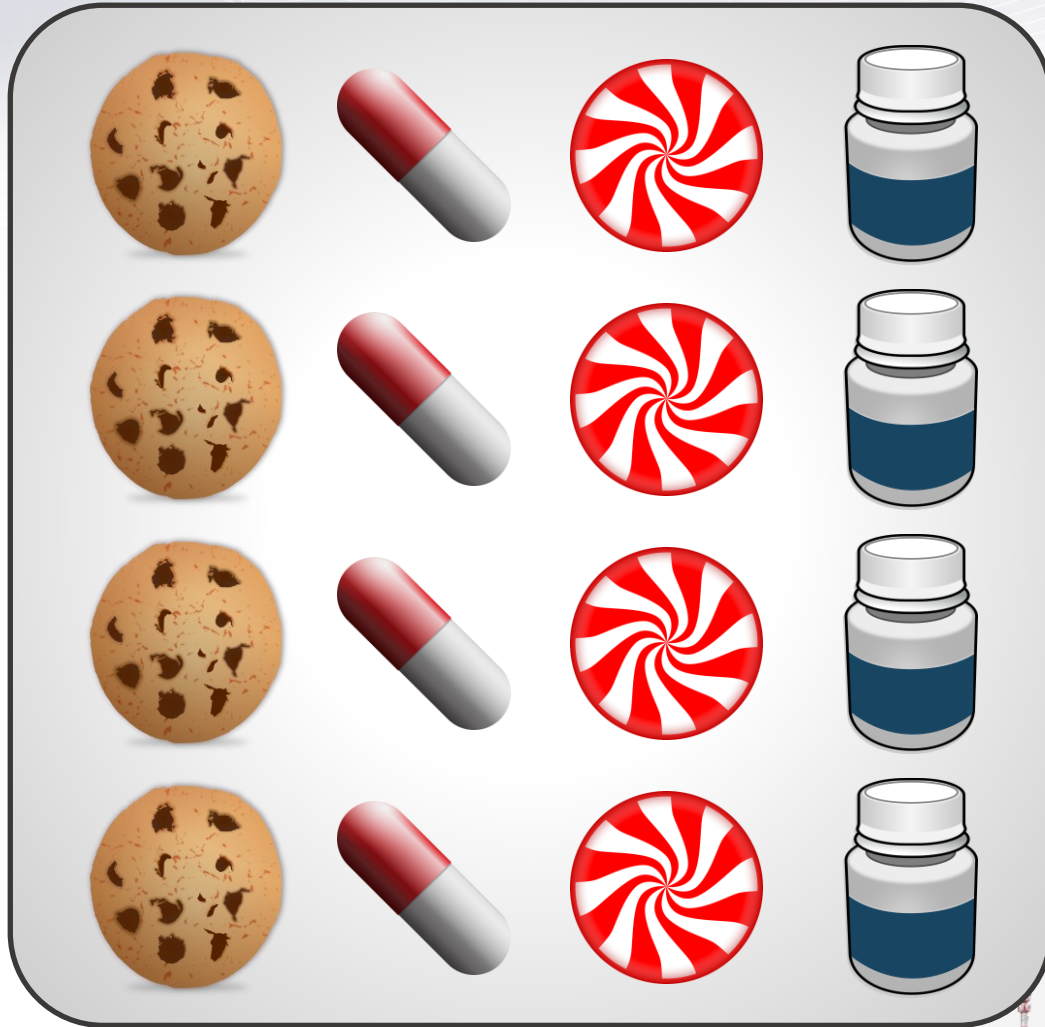
**Rockwell
Automation**



SNMP

New and Updated Drivers

- **Delta®** – For Delta's Modbus-based PLCs and VFDs. To maximize throughput, this driver supports multiple PLC port connections.
- **Ocpp** – For chargers such as Delta AC MAX Smart EV and others. Acts as a Charge Station Management System and allows chargers to initiate connections to VTScada.
- **Rockwell®** – This major update to the CIP/ENIP Driver now supports most Rockwell/Allen Bradley PLCs, including Control/CompactLogix, MicroLogix, SLC-500 and PLC-5. It improves performance by supporting multiple simultaneous CIP connections.
- **Honeywell Mercury®** – This driver can communicate with several types of Honeywell Mercury Flow Computer devices.
- **Updated Modbus Compatible Device** – I/O reads now run on a separate core for greater performance, particularly in large applications.
- **Mitsubishi®** – Supports Mitsubishi iQ-R PLCs. Uses the MELSEC protocol, supporting binary and ASCII 3E and 4E frame types.
- **Updated SNMP Agents** – Expanded SNMP V3 support improves security. Now, specify read/write and notification credentials for each driver.



BATCH & RECIPE MANAGEMENT

Standard Component

Batching is critical in industries like Food & Beverage and Pharmaceuticals where repeatability and traceability are key.

- Create any number of Ingredients, Recipes, and Recipe Books.
- Automatically trigger batches to run multiple recipes in series.
- Scale or modify batches to create revisions.
- Changes are recorded and distributed across all servers.
- Recipes can be imported and exported as spreadsheets.
- Utilities can even use Batching to prepare for bad weather.



New in Version 12.1

EMBEDDED VIDEO WIDGET

Adding live video feeds to HMI screens helps to protect operators and build their trust in their system.

- Supports MJPEG streams over HTTP.
- Easily dragged-and-dropped from the Idea Studio.

EMBEDDED BROWSERS

Provide operators with just-in-time resources by adding browsers to your screens. Easily add weather maps, YouTube® training videos, online Help files, or even Thin Clients from other VTScada applications.



New in Version 12.1



MULTI-MONITOR THIN CLIENTS

Internet Client users can operate and configure even faster using multiple monitors.

- Set up monitors on a per Realm basis.
- Not supported on Anywhere Clients.

ENHANCED ON-SCREEN KEYBOARD

VTScada seamlessly supports the Windows onscreen keyboard.

- Use as an alphanumeric and numeric input.
- Configure default keyboards on a per device basis.



New in Version 12.1



INTEGRATED FUNCTION LIBRARY

Standard

Easily choose from over 700 prebuilt functions to add to expressions to provide advanced functionality.

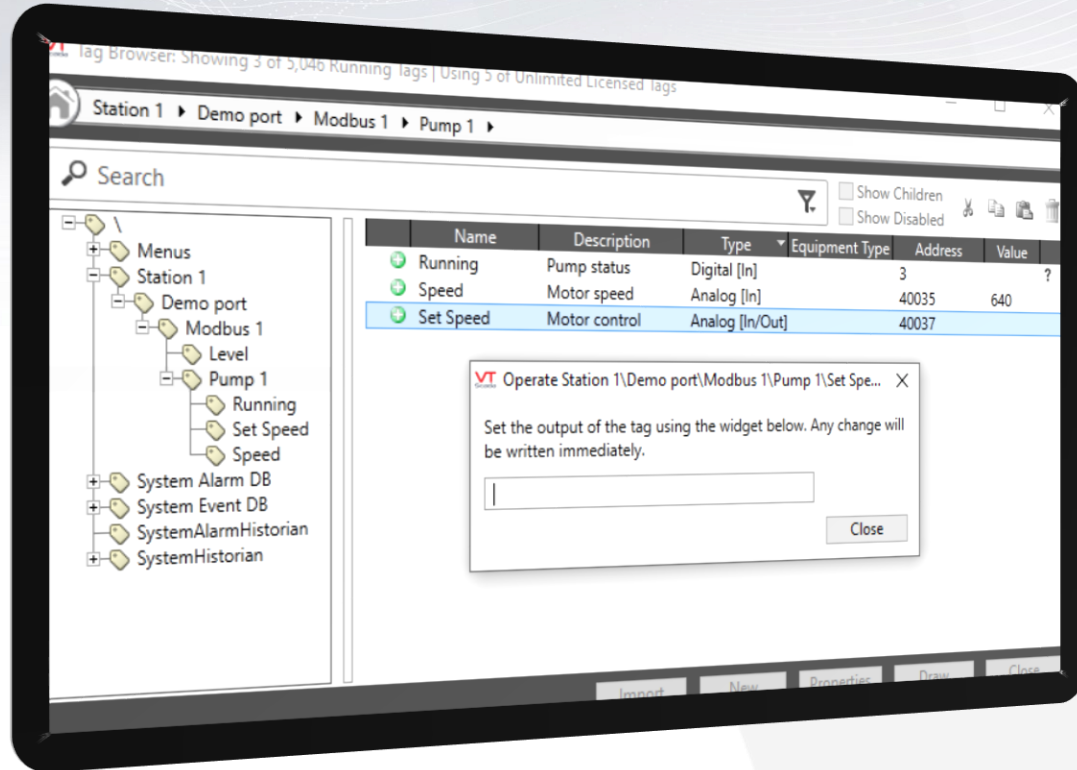
EXPRESSION EDITOR

Standard

Includes complex pre-built expressions and allows you to create your own functions and add them to the library.



New in Version 12.1



TAG BROWSER ENHANCEMENTS

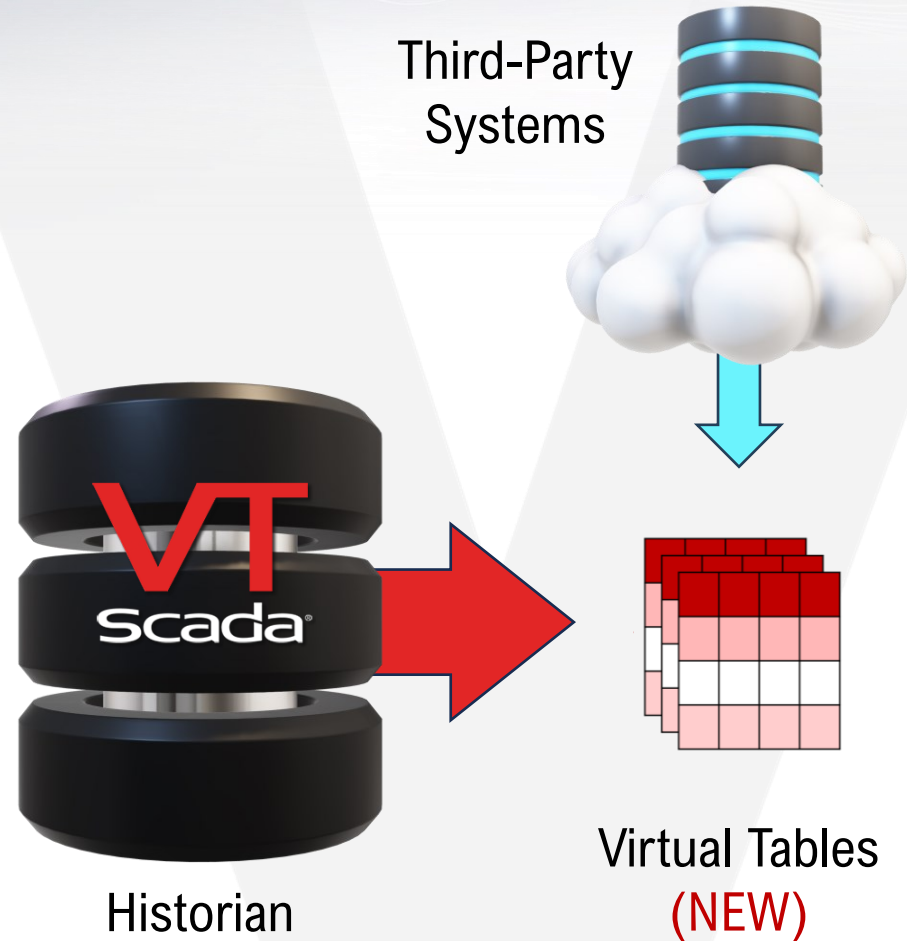
Standard

The VTScada Tag Browser now includes new tools to accelerate application development.

- **Operate PLC Tags** – Test your control tags directly from the Tag Browser without adding a single widget.
- **Filter on Tag Attributes** – Now filter on tags flagged “Questionable” for efficient commissioning or filter on Manual Data.
- **Import tags from OPC UA/DA Servers** – Simply select a server, choose I/O, and VTScada will create the tags for you.
- **Driver Discovery for BACnet (12.1.27) and Delta (12.1.46) Devices** - New button checks specified network locations for available devices.



New in Version 12.1



SQL TABLE VIEWS

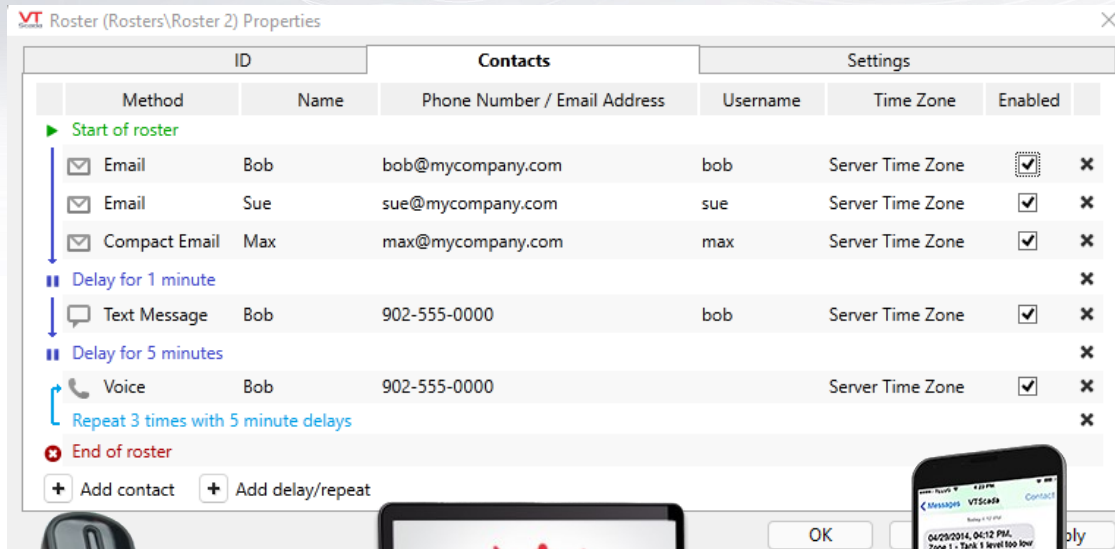
Standard

The SQL View Tag increases efficiency and reduces bandwidth by letting third-party business systems query virtual tables of pre-selected tags.

- Add SQL Views and Tables for outside data access.
- Choose all tags in an area or tags that start with a tag name.
- Select columns from selected tag tables.



New in Version 12.1



ALARM NOTIFICATION - ROSTER ENHANCEMENTS Standard

The Roster Properties dialog has been revamped to make it even easier to ensure your critical alarms find you anywhere.

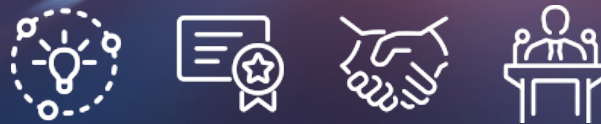
- **Easy Reordering** – Use the arrows to arrange roster contacts.
- **Custom Callout Delays** – Set a custom wait time for each contact.
- **Notification Bursts** – Notify multiple contacts at once.
- **Repeat Roster Contacts** – No need to re-add them multiple times.





Our annual VTScada users' conference.

This two-day event is packed with a wide variety of seminars and hands-on labs to help you get the most from VTScada. Speak directly with the people who keep VTScada on the leading edge and connect with professionals from around the world.



Learn about this year's event

ScadaFest.com