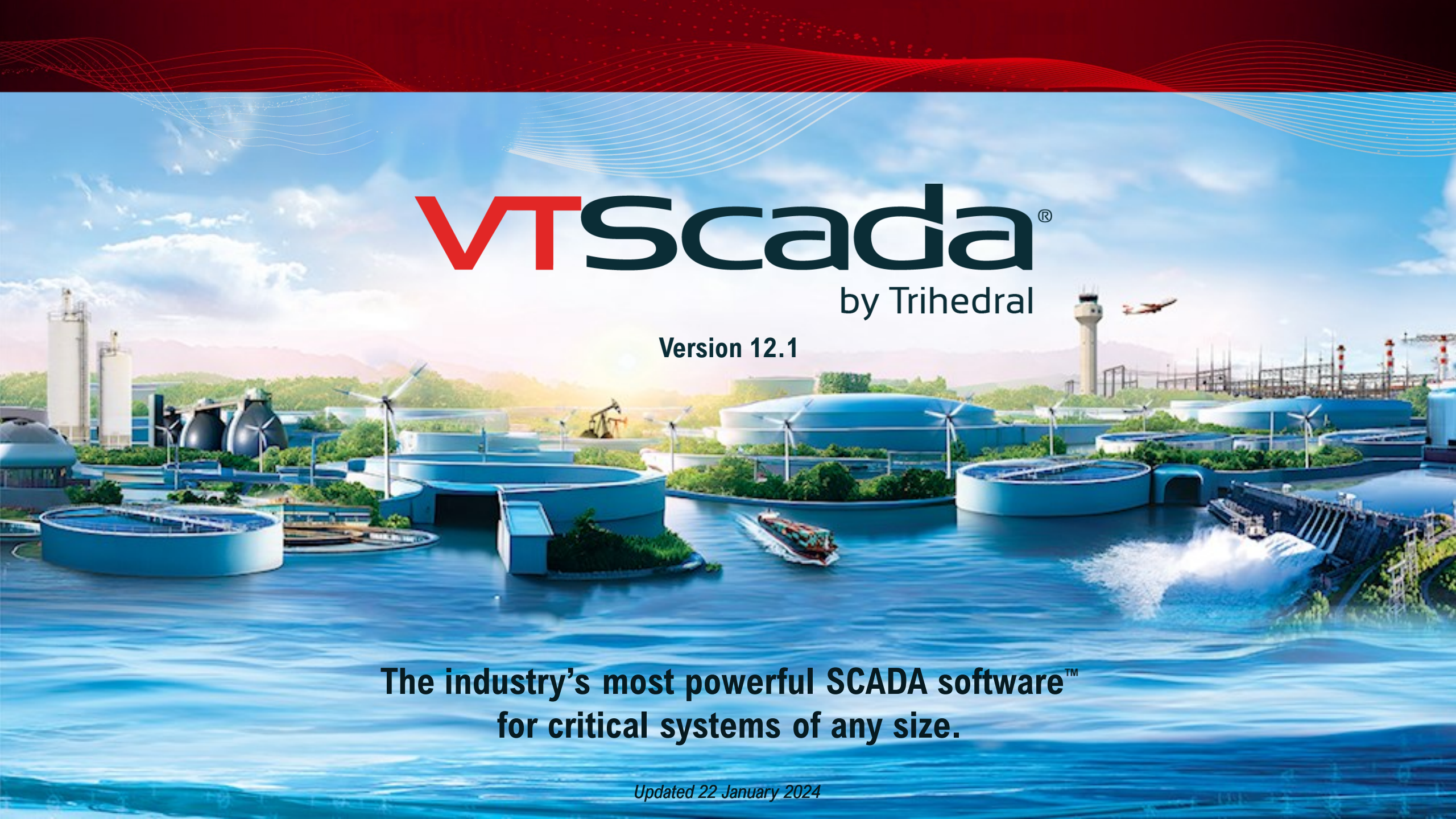
VTScada®
by Trihedral
Version 12.1
The industry's most powerful SCADA software™
for critical systems of any size.
Updated 22 January 2024

Be Productive in No Time

Use these online resources to start building applications right away.

VTScadaLIGHT™

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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.

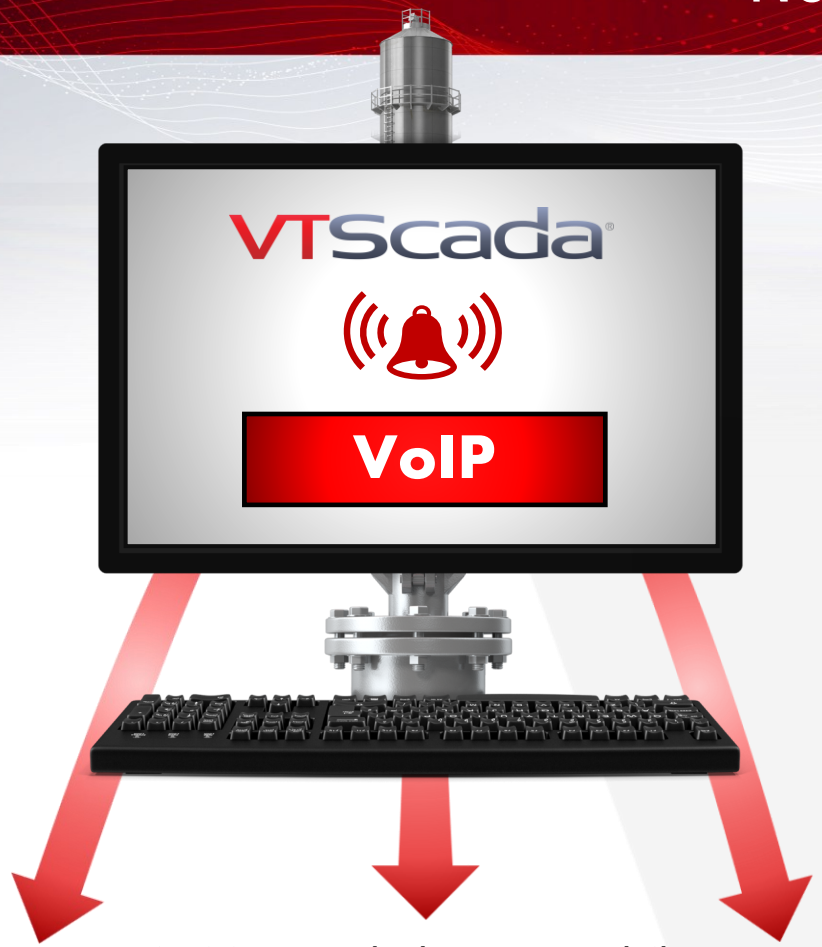
INSTRUCTOR-LED COURSES

In-house or Online

Operation & Configuration - Advanced Configuration - Advanced Scripting

VTScada.com/START

New in **Version 12.1**



text-to-speech alarm annunciation

VoIP-BASED ALARM ANNUNCIATION, NO MODEM OR INTERNET

Part of the Optional Alarm Notification System (ANS)

While VTScada supports voice modems for text-to-speech alarm annunciation, these devices are increasingly hard to source.

Use an analog telephone adapter (ATA) or your existing VoIP phone system to send voice alarm notifications to operators.

- No web-based third-party service required.
- No need to expose your SCADA system to the Internet.

New in Version 12.1.35

- Use VOIP, Twilio®, and voice modems as redundant backups for voice alarm calls.
- VOIP now allows encrypted call setup and encrypted audio.

New in **Version 12.1.28**

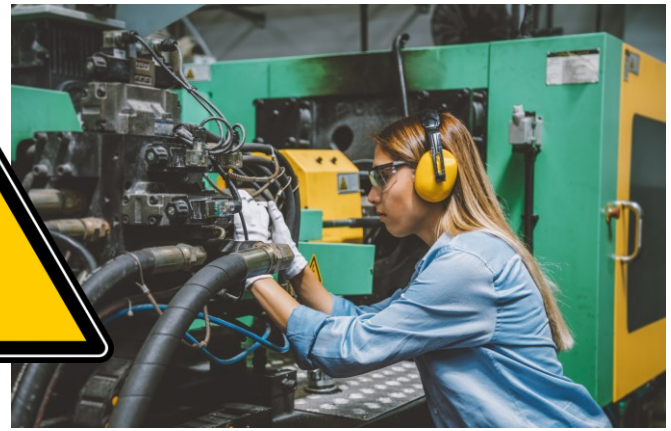
LOCK OUT EQUIPMENT OR DESIGNATE A SINGLE OPERATOR

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

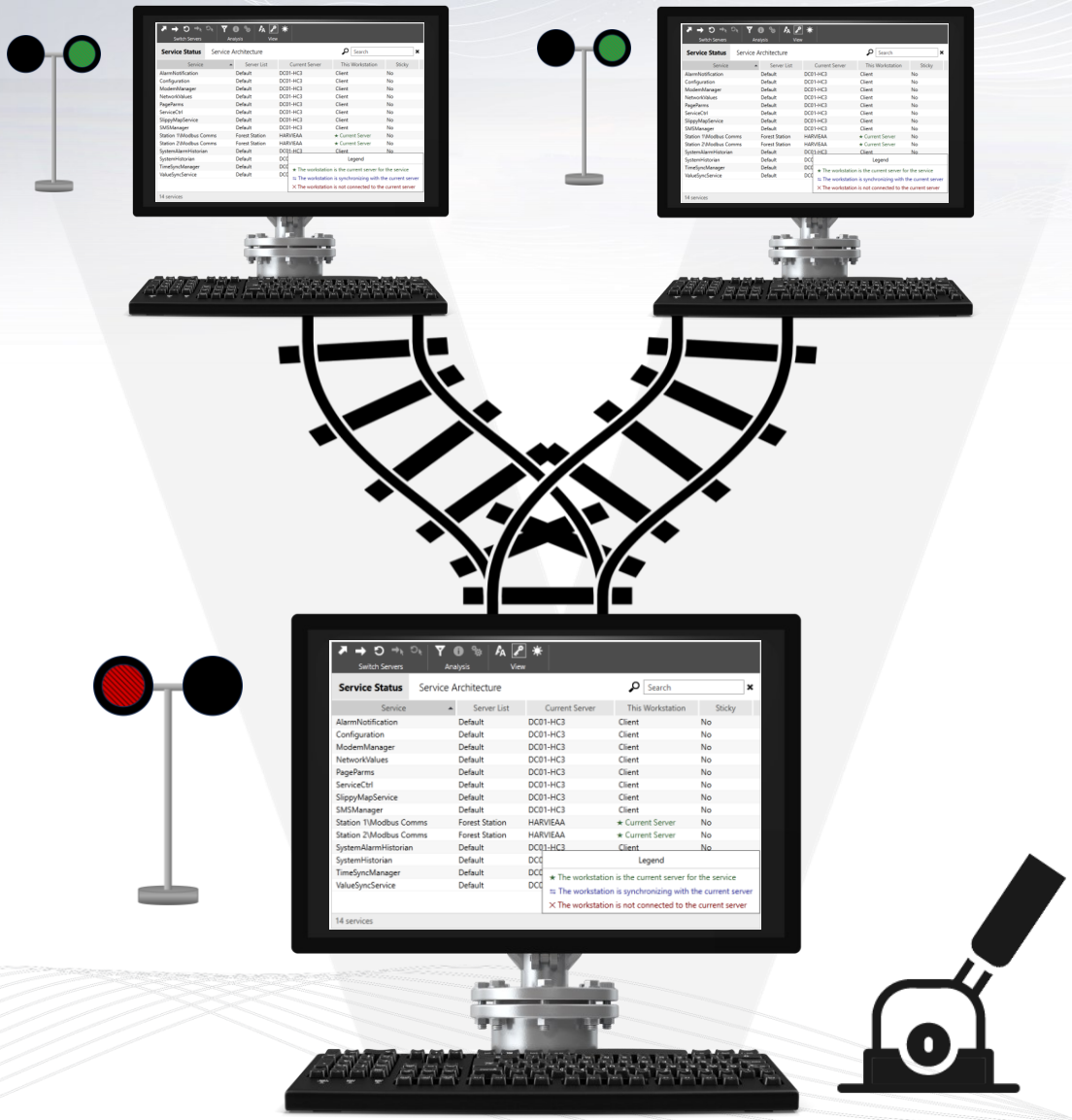
Control Tokens - Permits only one operator at a time to have control over a tag or set of tags.

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 tacking 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

Here's what's new in 12.1

IEC-62443-4-1-ML 2 CYBERSECURITY CERTIFICATION

Issued by exida

VTScada's Development Environment is certified to be compliant with IEC 62443-4-1 Maturity Level 2 Security For Industrial Automation and Control Systems.

This defines secure development life cycle (SDL) requirements for products used in industrial automation and control systems.

exida is a world leader in product certification specializing in automation safety, alarm management, cybersecurity, and availability.

New in **Version 12.1**

ENHANCED PERFORMANCE

While VTScada has always had the power to satisfy both massive and modest systems, 12.1 takes performance to the next level.

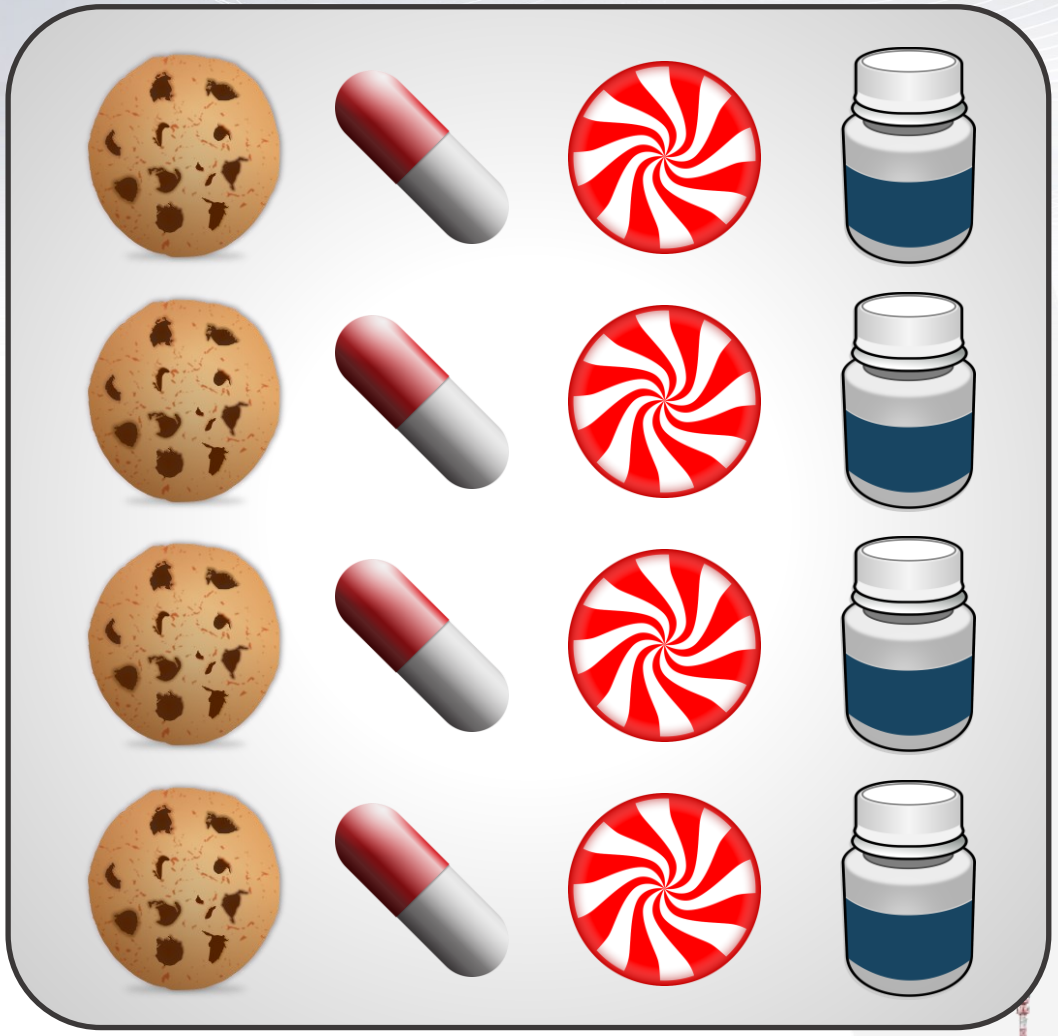
- **Multiple PLC Ports** - Network-based PLCs can open dozens of ports, increasing throughput up to ten times.
- **PLC Deadbands** – Improve CPU and network performance by filtering insignificant changes.
- **Script Bubbles** - Running parallel script code across PC cores is like running multiple copies 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**

New and Updated Drivers

- **Delta®** – For Delta's Modbus-based PLCs and VFDs. To maximize throughput, this driver supports multiple PLC port connections.
- **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.

New in **Version 12.1**



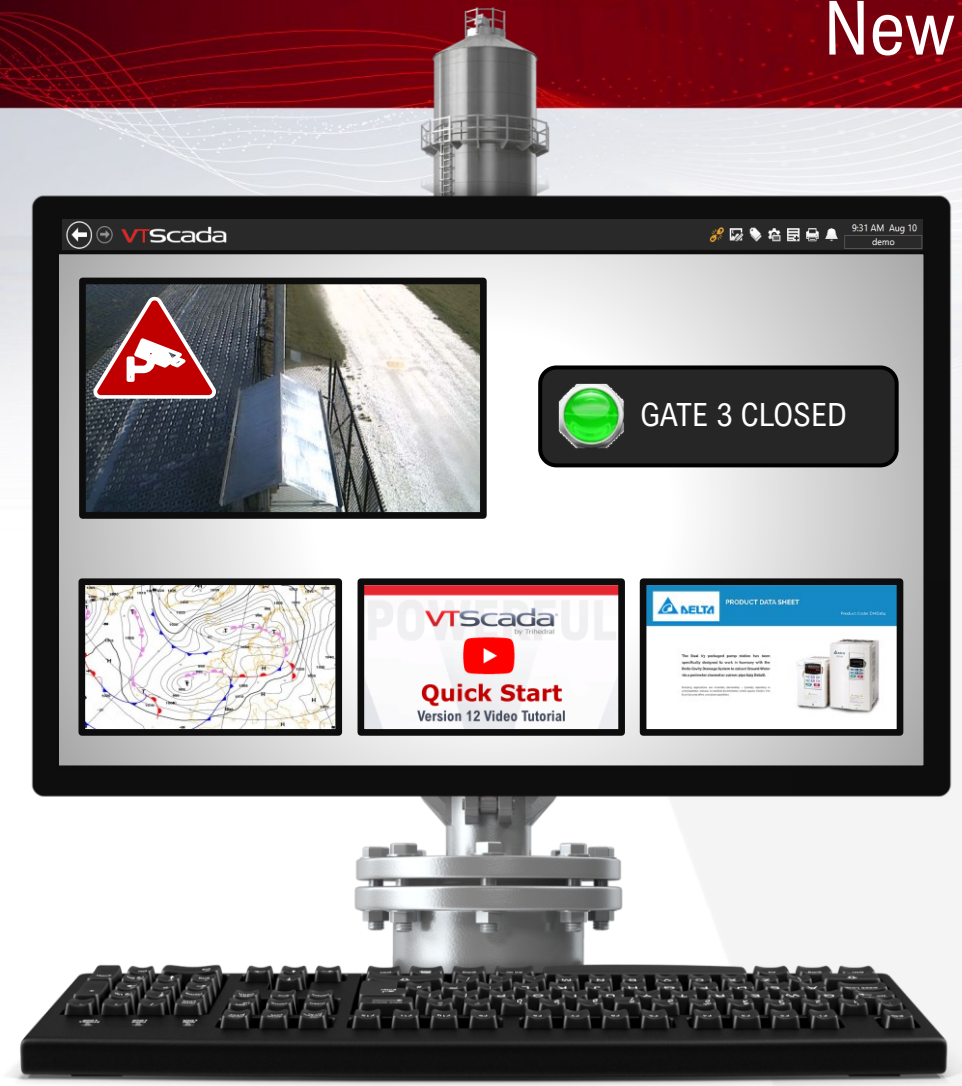
BATCH & RECIPE MANAGEMENT

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

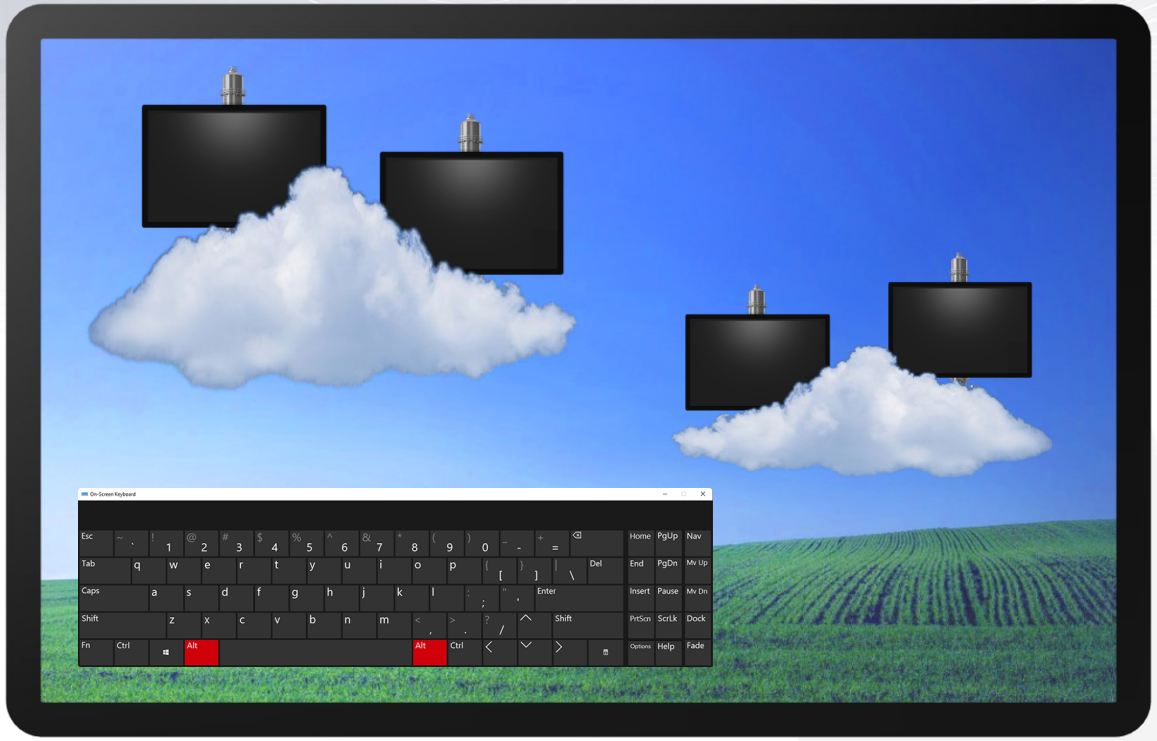
Adding live video feeds to HMI screens helps to protect operators and build their trust in their system.

- Supports MJPEG streams over HTTP.
- The Video Widget is easily dragged-and-dropped from the VTScada 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

VTScada Internet Clients (VICs) support application configuration. Now, VIC users can work faster by using multiple monitors.

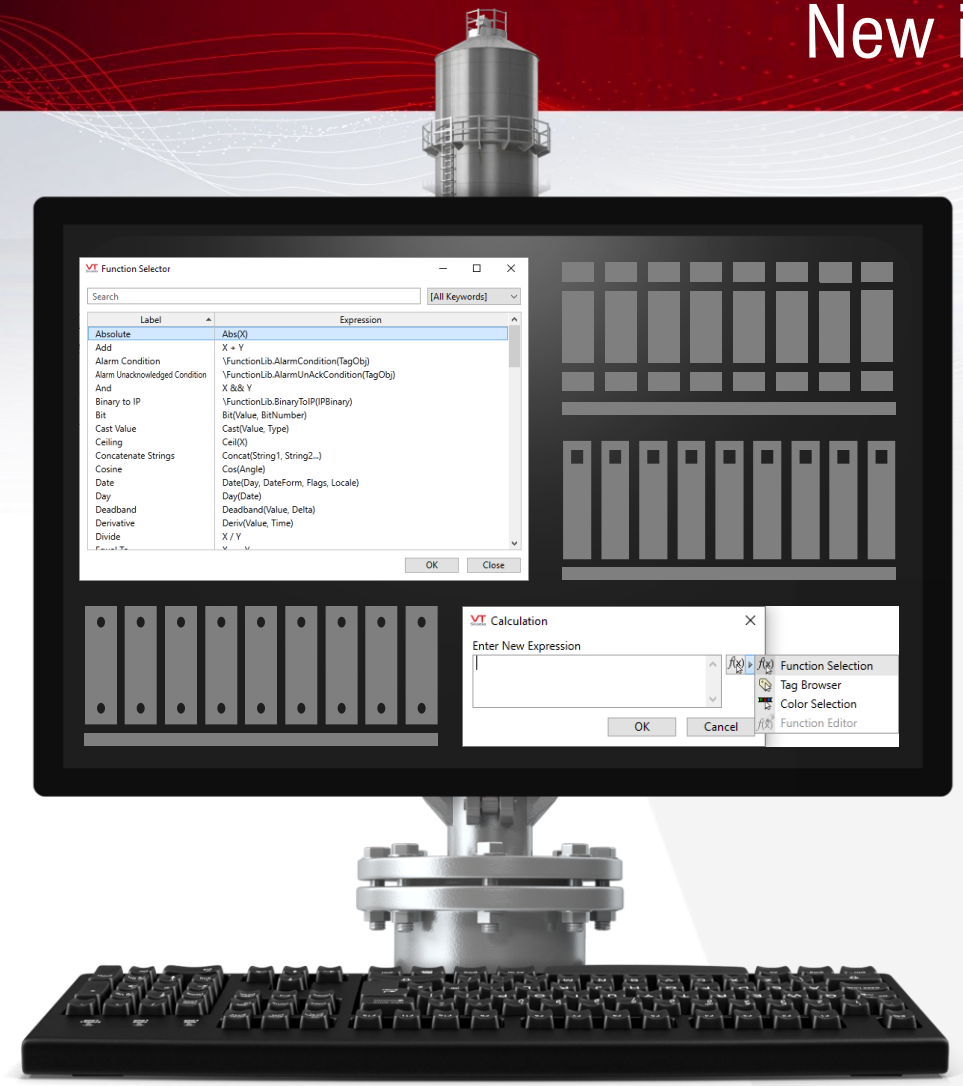
- Set up monitors on a per Realm basis.
- For VICs Only – Not supported on Anywhere Clients.

ENHANCED ON-SCREEN KEYBOARD

Touchscreen PCs are commonplace. VTScada now seamlessly supports the native Windows onscreen keyboard.

- Switch between numeric and alphanumeric options.
- Configure default keyboards on a per device basis.

New in **Version 12.1**



INTEGRATED FUNCTION LIBRARY

Standard

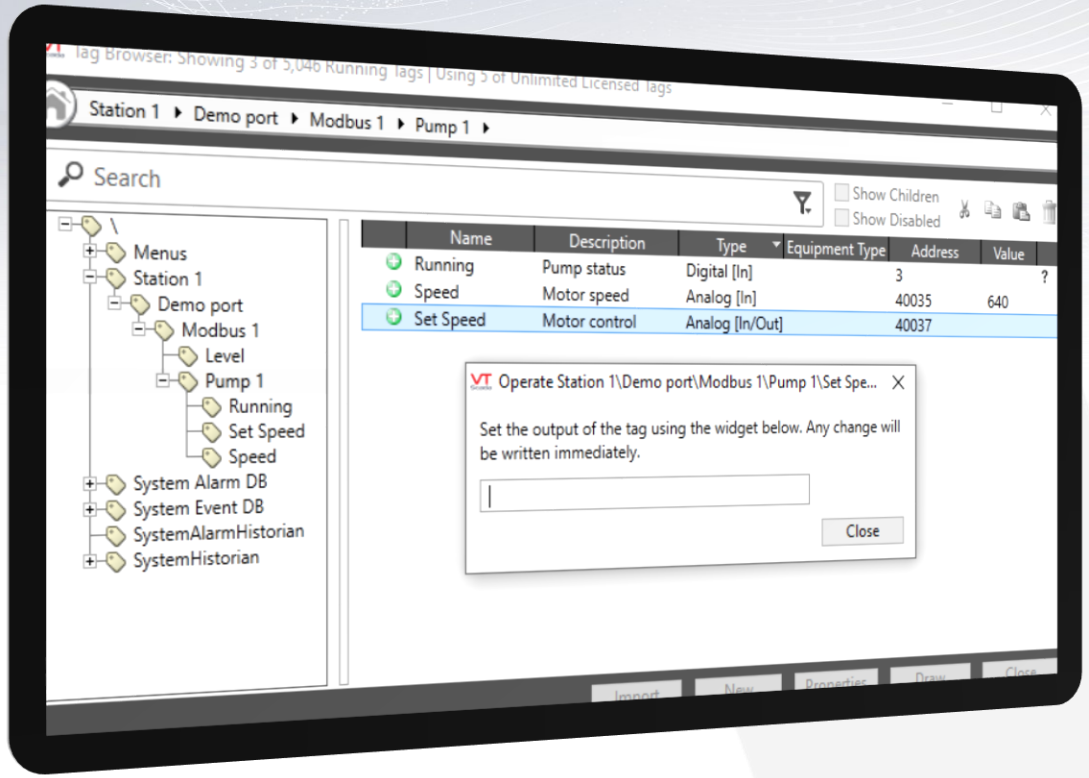
Easily choose from over 700 prebuilt functions to add to expressions to provide advanced functionality.

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**



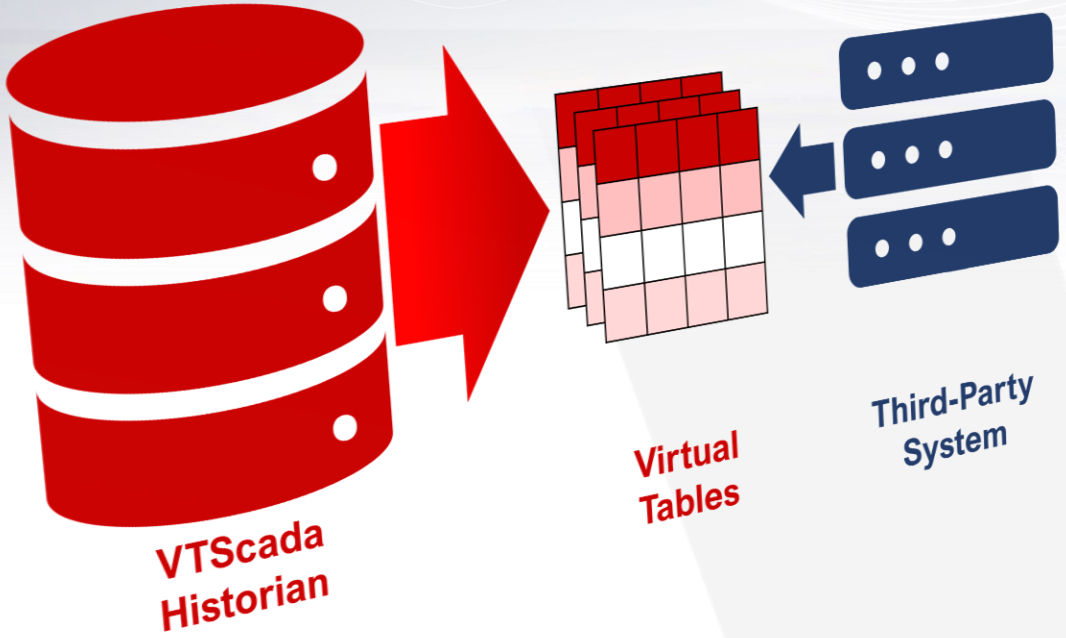
TAG BROWSER ENHANCEMENTS

Standard

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

- **Operate PLC Tags** – Test your control tags directly from the Tag Browser without needing to draw a single widget.
- **Filter on Tag Attributes** – Now filter on tags flagged “Questionable” for efficient commissioning or filter on Manual Data.
- **Tag Import from OPC Servers** – Save time by pulling in tags from OPC UA and DA servers. Select a server, choose I/O, and VTScada will create the tags for you.
- **BACnet Driver Discovery (New in 12.1.27)** – This button checks specified network locations for available devices.

New in **Version 12.1**



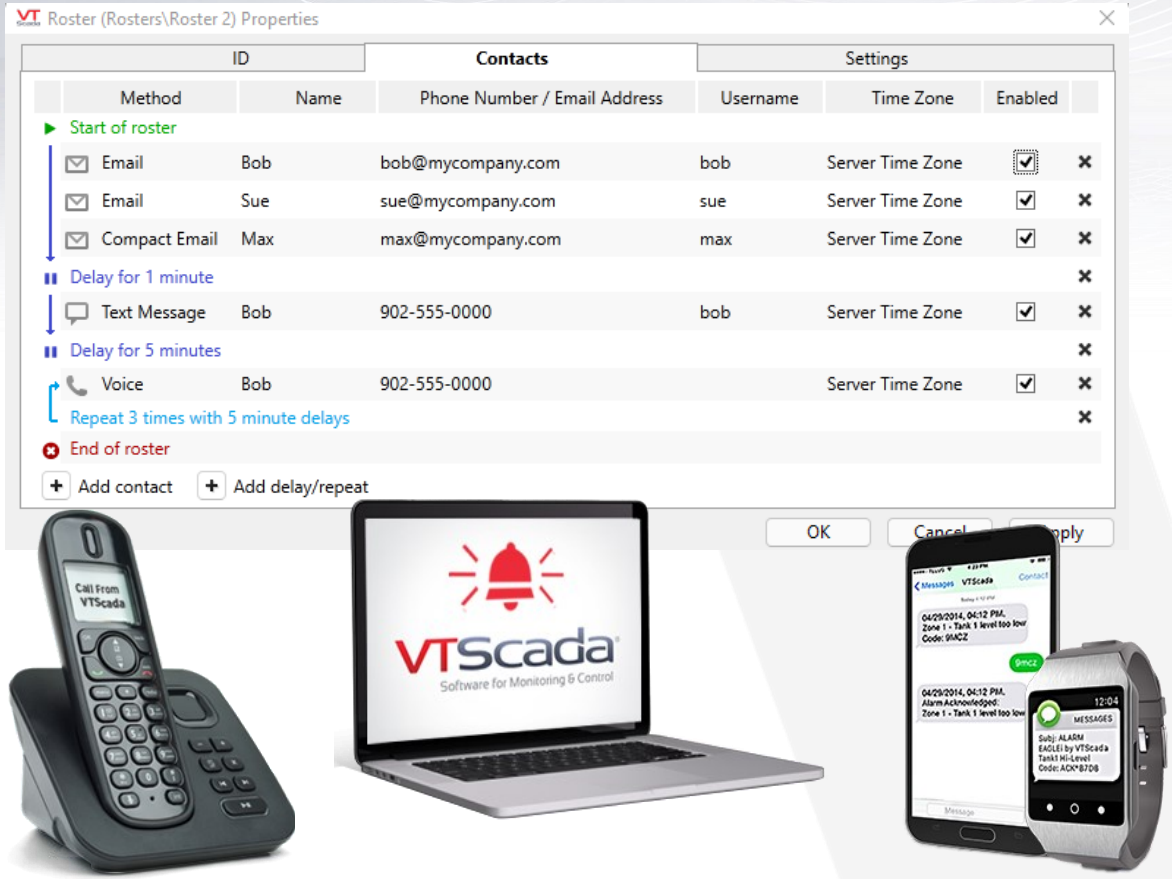
SQL TABLE VIEWS

Standard

The SQL View Tag increases efficiency and reduces bandwidth by letting third-party business systems query virtual tables of 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 by not specifying delays between them.
- **Repeat Roster Contacts** – No need to re-add them multiple times.

The best place to find all the latest VTScada features.

SCADA FEST

Orlando, Florida
March 21-22, 2024

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Explore the world of industrial automation through the powerful lens of VTScada. Speak directly with the people who keep it on the leading edge and connect with professionals from around the world.

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