Trihedral®

VTScada
Software for Monitoring & Control

Version 11.3

Instantly Intuitive

VTScada removes frustration
from every stage of the HMI / SCADA lifecycle;
from pricing and licensing, to development, support, and upgrades.

Starting Shortly

Housekeeping

Using the Interface

- Raising hands
- Downloading Handouts
- Submitting questions

File View Help

Audio

Sound Check

- Computer audio
- Phone call

MUTED

Microphone Array (Realtek Audio)

Headphone (Realtek Audio)

Handouts: 4

- Brochure-VTScada-NewFeatures11-3.pdf
- Brochure-VTScada-WhatMakesItDifferent.pdf
- Brochure-VTScadaLIGHT.pdf
- Datasheet-VTScada.pdf

Questions

Hi! The webinar will be begin soon.

[Enter a question for staff]

Send

Intro to VTScada 11.3 – Cutting edge Features, Classic Benefits

Webinar ID: 912-494-979

GoToWebinar

2018 Training Schedule

2018	Course Type	Location	Registration Form
February 12 – 15, 2018	Operation & Configuration	Houston, TX	[Express An Interest](#)
February 26 – March 1, 2018	Operation & Configuration	Orlando, FL	[Express An Interest](#)
March 26 – 29, 2018	Operation & Configuration	Bedford, NS	[Express An Interest](#)
April 16 – 19, 2018	Operation & Configuration	Orlando, FL	[Express An Interest](#)
May 7 – 10, 2018	Advanced Configuration	Bedford, NS	[Express An Interest](#)
May 21 – 24, 2018	Operation & Configuration	New Orleans, LA	[Express An Interest](#)
July 16 – 19, 2018	Operation & Configuration	Bedford, NS	[Express An Interest](#)
August 13 – 16, 2018	Operation & Configuration	Orlando, FL	[Express An Interest](#)
August 20 – 23, 2018	Operation & Configuration	Dallas, TX	[Express An Interest](#)
September 24 – 27, 2018	Advanced Configuration	Orlando, FL	[Express An Interest](#)
October 9 – 12, 2018	Operation & Configuration	Bedford, NS	[Express An Interest](#)
November 5 – 8, 2018	Advanced Configuration	Houston, TX	[Express An Interest](#)
November 19 – 22, 2018	Advanced Configuration	Bedford, NS	[Express An Interest](#)
December 3 – 6, 2018	Operation & Configuration	Orlando, FL	[Express An Interest](#)

www.trihedral.com/training-courses

VTScada Support Forum
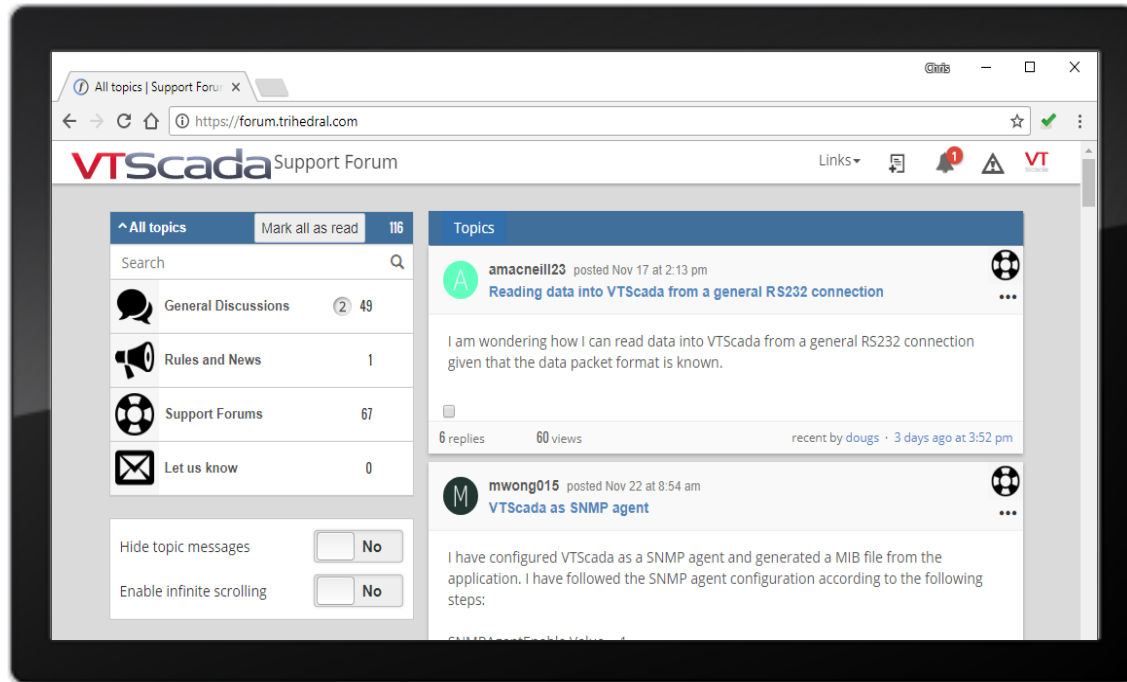
Tap the knowledge of our support and development teams as well as our international community of users.

A repository for:

- Frequently asked questions.
- Solutions to specialized problems.

Anyone can read it. Create a free account to share questions and solutions.

https://forum.trihedral.com

A Different Kind of Roadmap

31 years. One product.

VTScada®
Software for Monitoring & Control

NO DEAD ENDS

Always a Path Forward

We never discontinue versions forcing you to start over.

- Install new version directly over old.

- Licensing and options remain unchanged.

- No changes for applications built on standard features.

- Custom features may require alteration and testing.

- Upgrade to the latest version anytime while support is current.

VTScada 11.3
VTScada 11.2
VTScada 11.1
VTScada 10
VTScada 9
VTScada 8
VTScada 7
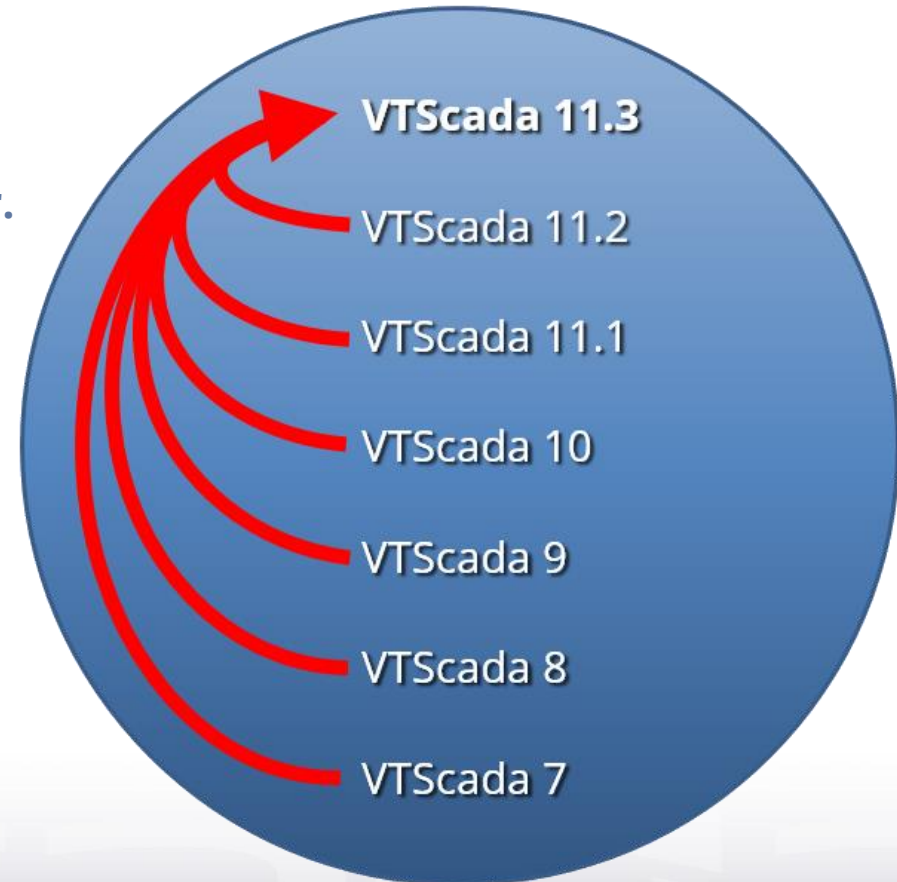
One Installation
One License Agreement

We develop and own all the technologies that make up VTScada.

The fully-integrated design improves integration and scalability.

Built in features remain tightly integrated for the life of the system.
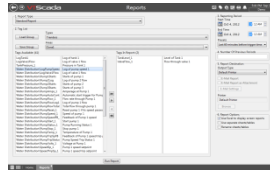
Reporting Trending Security Alarming Version Control
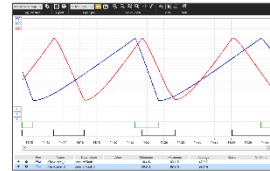
Under 200 MB Installer

VTScada
Software for Monitoring & Control

Mapping

Enterprise Connectivity Driver Library Monitoring and Control Graphic Development Mobile Connectivity
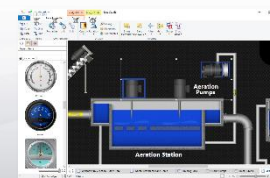
Our Development and Release Philosophy

Incremental updates pose less risk of disruption than starting over.

- No feature holdback to force customers to re-buy like Microsoft Windows® used to do.

- New features, support, and fixes released together.

- Optional support & update costs frozen at original price while support maintained.

- Upgrades are a budgetary expense not a capital cost.

- VTScada versions never depreciate to zero value, regardless of age.

- You own the version you have.
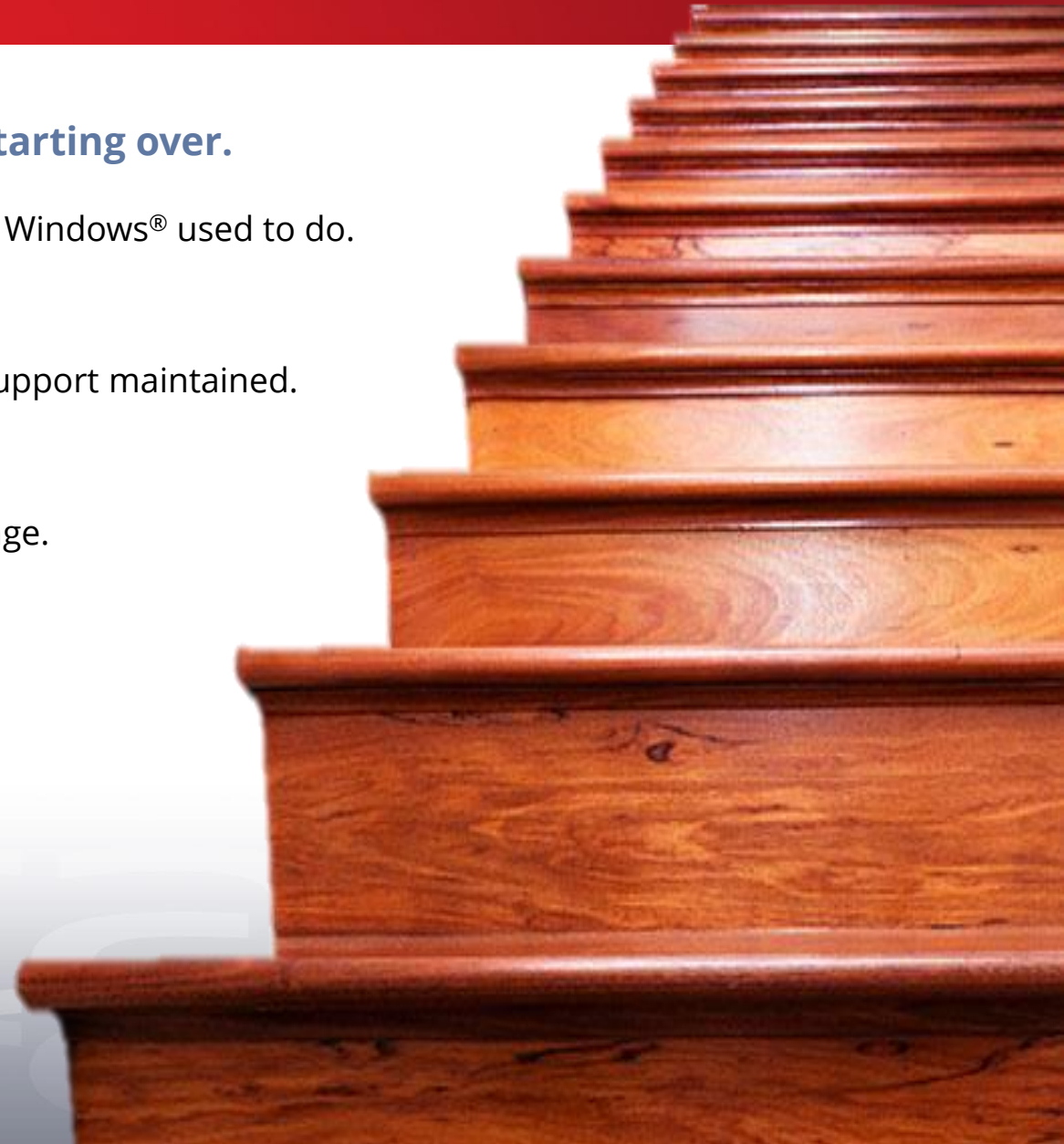
New Features

VTScada
Software for Monitoring & Control
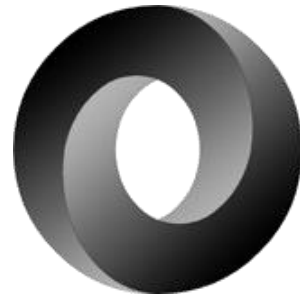
JSON/XML Driver

JavaScript Object Notation
EMCA-404 The JSON Data Interchange Standard

Definition from the JSON Organizan (http://www.json.org)

> *It is based on a subset of the JavaScript Programming Language,Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.*

Benefits to VTScada Users:

- Permits easy acquisition of 3rd party information from the internet including weather, traffic, commodity pricing, etc.

- More advanced implementations can include control interfaces.

- Live examples.

Twilio Support

This paid cloud-based service is an alternative to voice modems.

VTScada continues to supports voice modems for applications where Internet connectivity is not an option.

Benefits to VTScada Users:

- Solves problem of voice-lines in data centres.

- An alternative to diminishing selection of voice modem hardware.

Requirements:

- A VTScada server connected to the Internet.

- A Twilio account. Visit https://www.twilio.com/try-twilio.

- At least one VTScada security account with Internet Client privilege.

- We recommend creating a Twilio-only account with no other privileges.
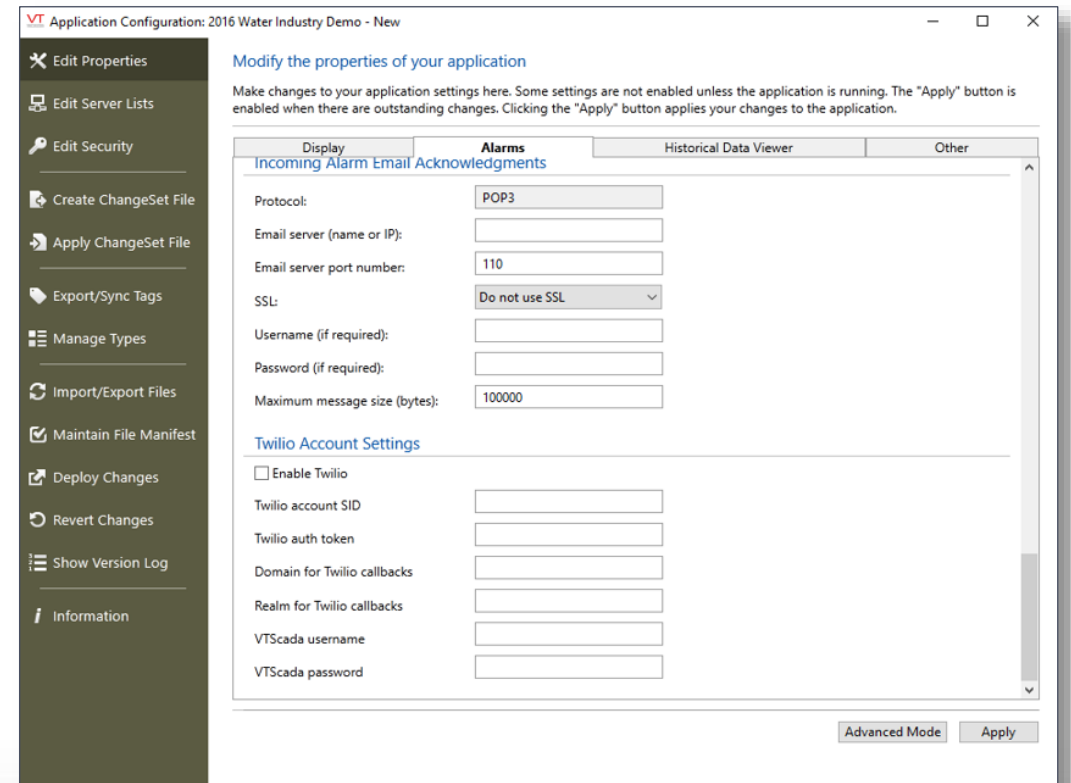
OpenID Connect

Definition from the OpenID Organization (http://openid.net/connect)

OpenID Connect allows clients of all types, including Web-based, mobile, and JavaScript clients, to request and receive information about authenticated sessions and end-users. The specification suite is extensible, allowing participants to use optional features such as encryption of identity data, discovery of OpenID Providers, and session management, when it makes sense for them

Benefits to VTScada Users:

- Permits integration of VTScada Security with 3rd party Authentication servers on Anywhere Client.

- Single sign-in (one Password access to many systems)

- Two-factor authentication (i.e. Google Authenticator or Apple Touch sensor or Apple Face recognition)

IPV6 Support

IPv4 Addresses are Running Out

- 4,294,967,296 addresses available

- ISPs, like Verizon, announced a year ago that IPv4 addresses are running out.

- Affects Cell modems and connected devices that use Public IP's.

IPv6 is the Next Standard

- 340,282,366,920,938,463,463,374,607,431,768,211,456 addresses available

- Next standard able to handle IIoT connectivity.

- A significant code change for VTScada but users are unaware of change

- Seamlessly supported alongside IPV4 within VTScada.

An IPv4 address (dotted-decimal notation)

172 . 16 . 254 . 1

10101100 .00010000 .11111110 .00000001

One byte =Eight bits

Thirty-two bits (4 x 8), or 4 bytes
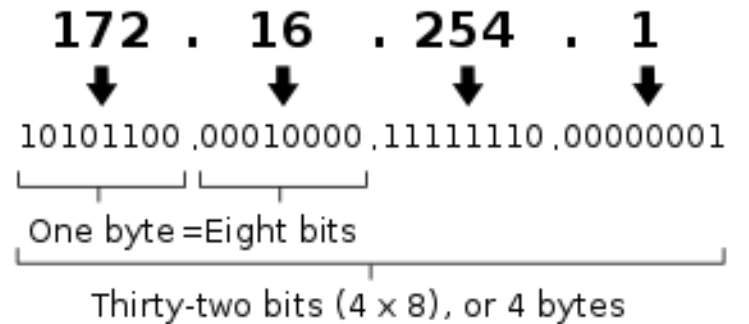
An IPv6 address   (in hexadecimal)

2001:0DB8:AC10:FE01:0000:0000:0000:0000

2001:0DB8:AC10:FE01::   Zeroes can be omitted

0010000000000001:0000110110110111000:1010110000010000:1111111000000001:

0000000000000000:0000000000000000:0000000000000000:0000000000000000
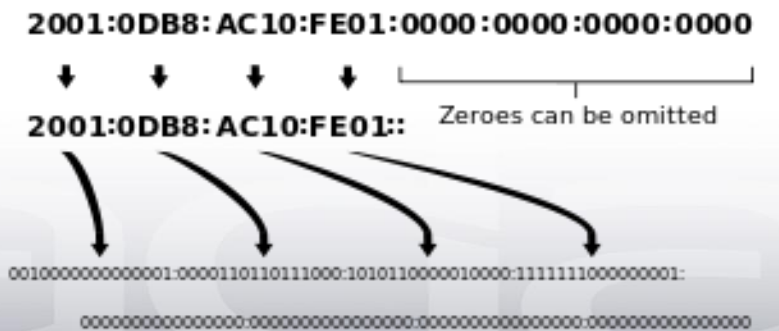
IEC Driver

IEC 60870-5

A collection of standards by the [International Electrotechnical Commission](#) for the transmission of SCADA telemetry control and information via a broad class of devices from around the world.

- Includes time stamping and Report by Exception.
- VTScada can also act as an IEC slave (virtual PLC) with this driver.

Benefits to VTScada Users:

This driver provides increased flexibility when choosing monitoring and control hardware for our growing number of European customers.

Download Files From Anywhere Clients

Save files from the VTScada Anywhere Client including:

- Reports generated by the VTScada Report Page or Tag.

- Exported data from the HDV.

Benefits to VTScada Users:

Anywhere Clients are now equivalent in every way to standard runtime workstations.
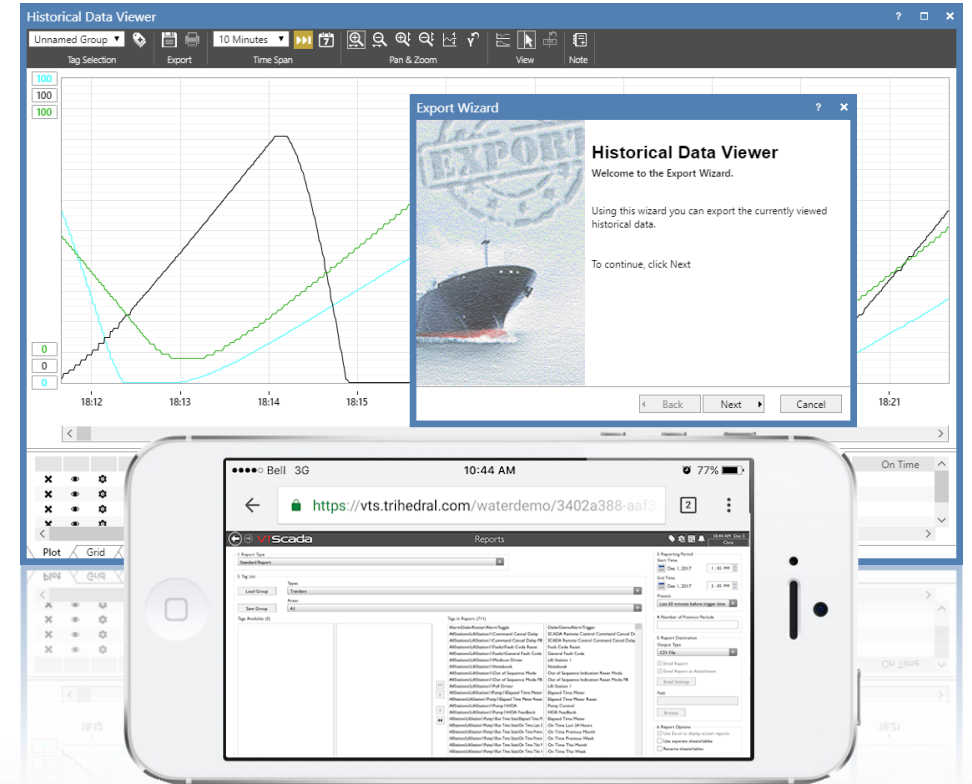
VTScada Operational Features

Built-in Historian - No Cost or Configuration

VTScada Historian
Standard Component *

- A native database in every application.

- Configure synchronized redundant databases in seconds.**

- Configure additional database formats as needed.**

Oracle®

Native SCADA

MySQL®

Historian

MS SQL Server®
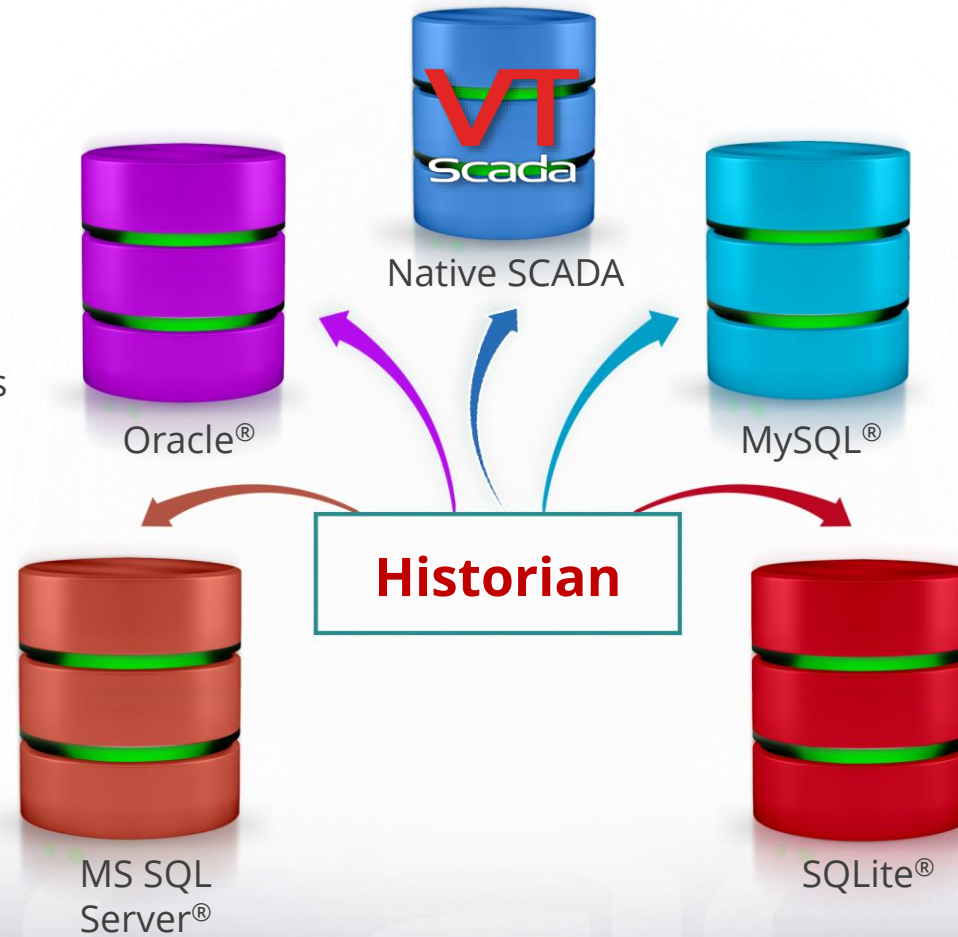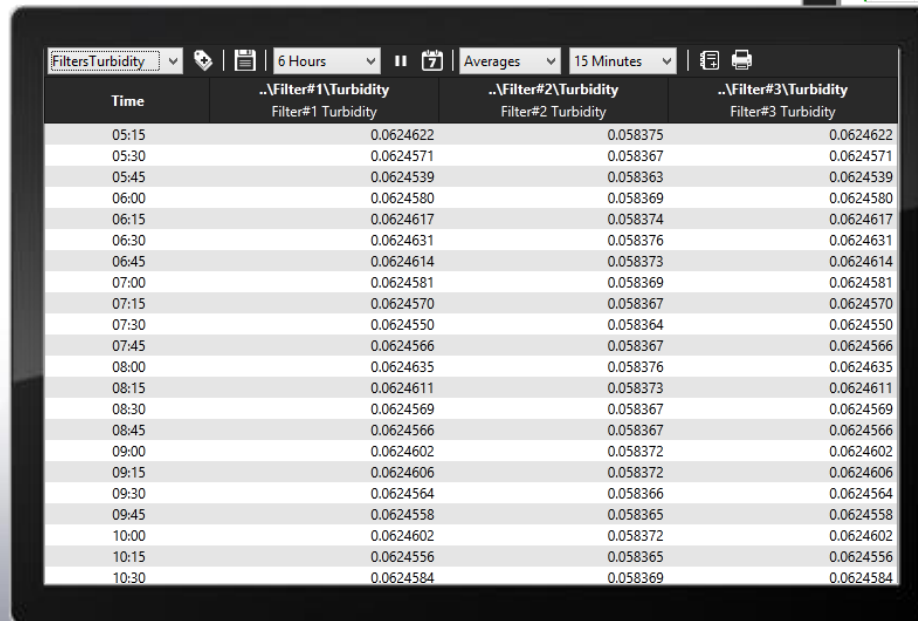
SQLite®

SQL Server, Oracle, MySQL and SQLite are trademarks of their respective owners.
* Other database formats licensed and installed separately.   ** Requires additional VTScada licenses.

Operator-Created Trending

Historical Data Viewer (HDV)
Standard Component

- Click values to open custom trends.

- Easily save trend groups for future use.

- Add encrypted notes to add context.

Alarm Management and Action Logging

New Tools Based on ISA 18.2 Alarms Management Standard
Standard Component

Separate encrypted databases for all Alarms and Events.

Use colour, symbols, and sound to meet the visual needs of your operators.

Shelved Alarms won't distract operators but are recorded in the Events database.

Easily filter down to only the Alarms you need.

Alarms Tuning Reports

Quickly identify and eliminate nuisance alarms.

Bad Actors Report
Summary of alarm occurrences within a specific period, sorted by the number of activations.
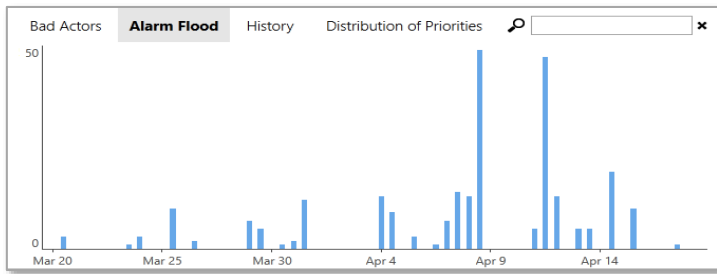
Alarm Flood Report
Count of alarms tripped within equal time slices. Click a bar to zoom into that period.

History Report
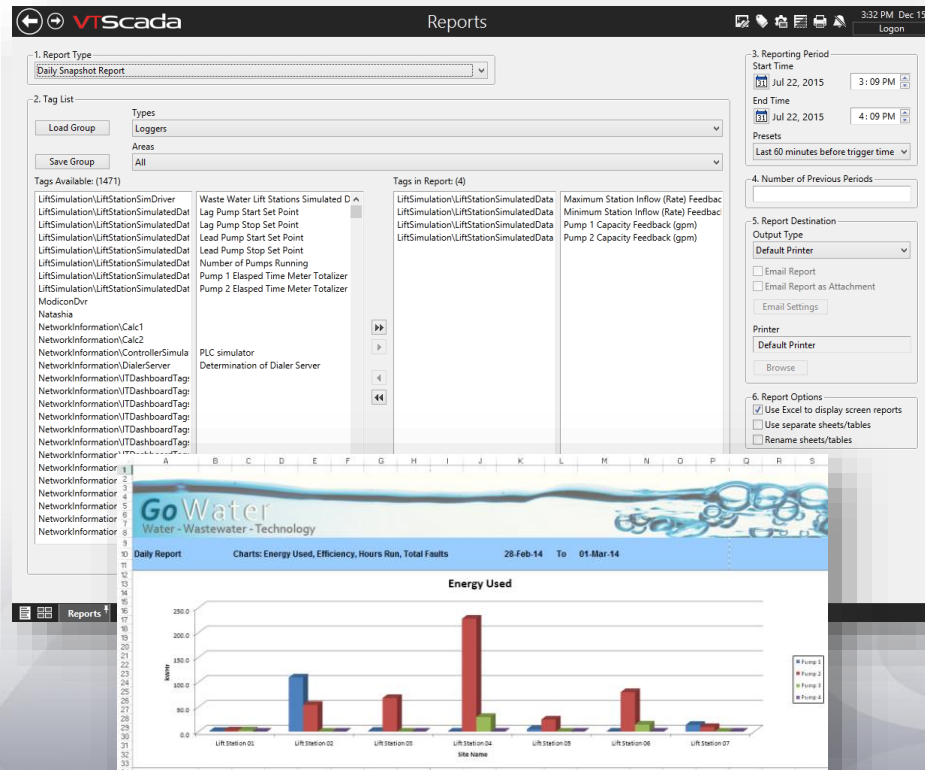All active and trip alarm events within a specific period.
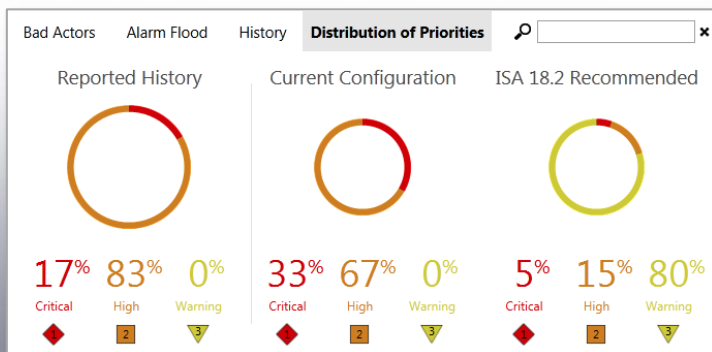
Priority Distribution Report
Compares priority of configured alarms and actual alarm occurrences against ISA's recommended best practices.

Reporting

VTScada Reports Page
Standard Component

- Ad-hoc or scheduled reports.
- Simple built-in report generator.
- Custom Excel® Report Templates.

Enterprise Support
Standard in Development Runtime Licenses

Share data with Enterprise systems.
- ODBC Server. *
- OPC Client / Server. *
- Web Services. *
- SNMP Agent.
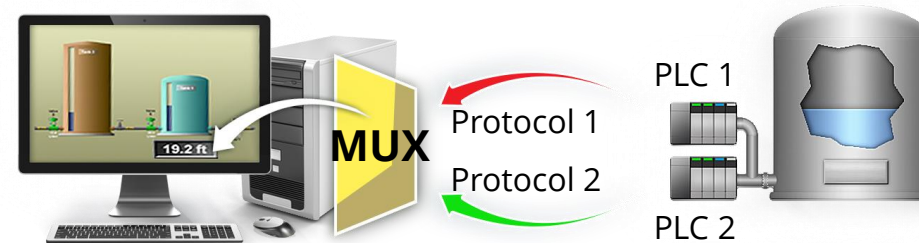
Automatic System-wide Redundancy

Server Failover

- Application Servers.
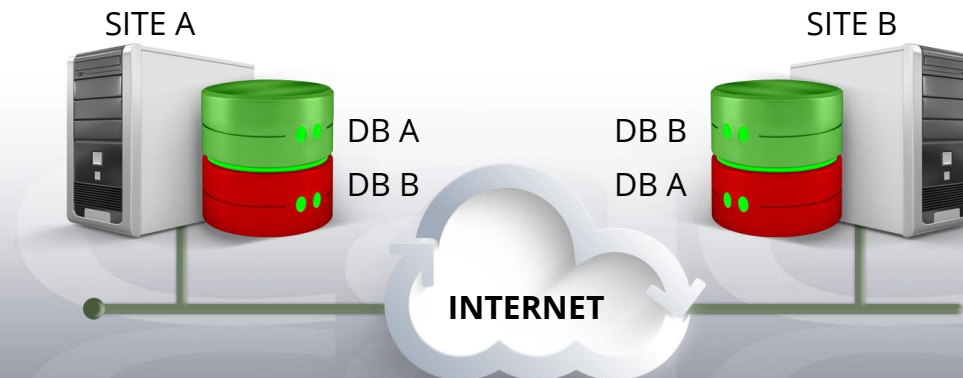- Thin Client Servers.
- Load-share services.

Network Failover

- Unique Driver Multiplexer.
- Redundant Networks or Devices.

MUX

Protocol 1

Protocol 2

PLC 1

PLC 2

19.2 ft

Synchronized Historians and Alarm Databases

- Alarm and Event Databases.
- Across LAN or WAN.
- Alarm Notifications.

SITE A

SITE B

DB A

DB B

DB B

DB A

INTERNET

Integrated Alarm Notification System

Critical Alarms Find You Anywhere
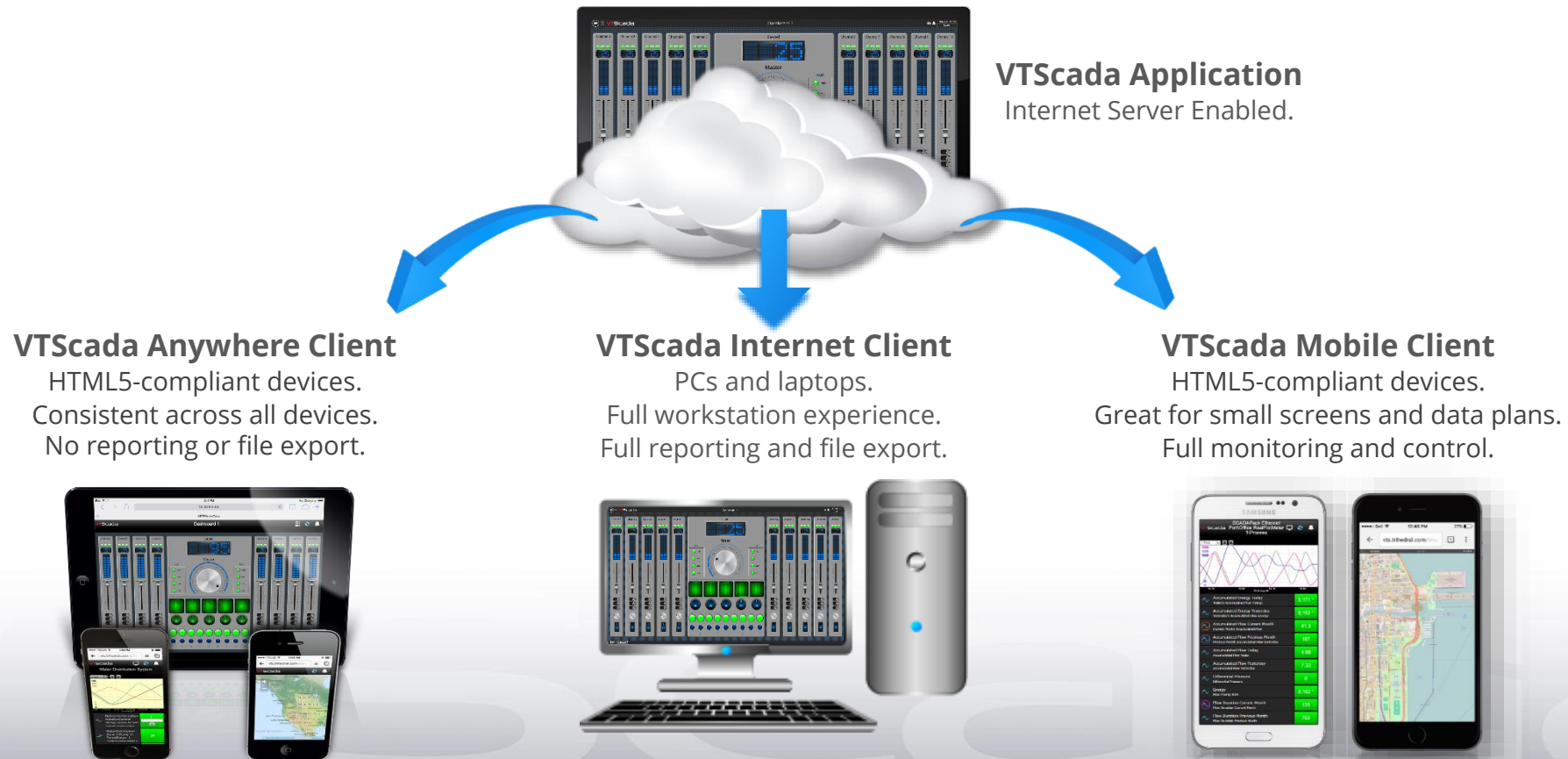

- Tightly integrated for the life of our system.

- Create rosters of up to 30 contacts.

- Configure any number of rosters.

- Enable rosters by date and time.

Thin Clients

Remote Access from Anywhere
Optional Component

VTScada Application
Internet Server Enabled.

VTScada Anywhere Client
HTML5-compliant devices.
Consistent across all devices.
No reporting or file export.

VTScada Internet Client
PCs and laptops.
Full workstation experience.
Full reporting and file export.

VTScada Mobile Client
HTML5-compliant devices.
Great for small screens and data plans.
Full monitoring and control.

Choose the format that best suits your device and data plan.

https://www.tribedral.com/water-wastewater-thin-client-demo

VTScada Slippy Maps
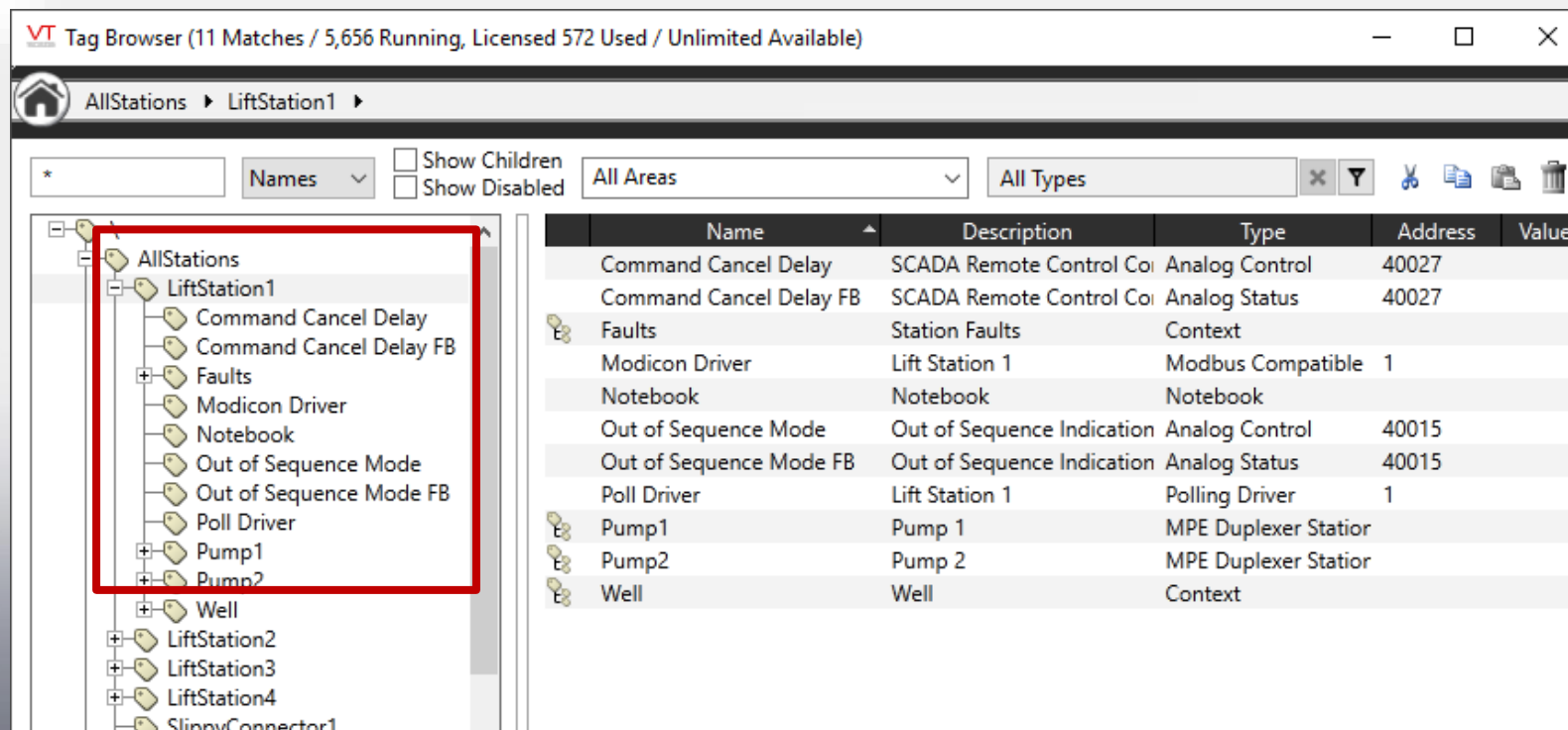
VTScada Development Features

Tag Structure Model

VTScada Hierarchical Tag Browser
Standard Component

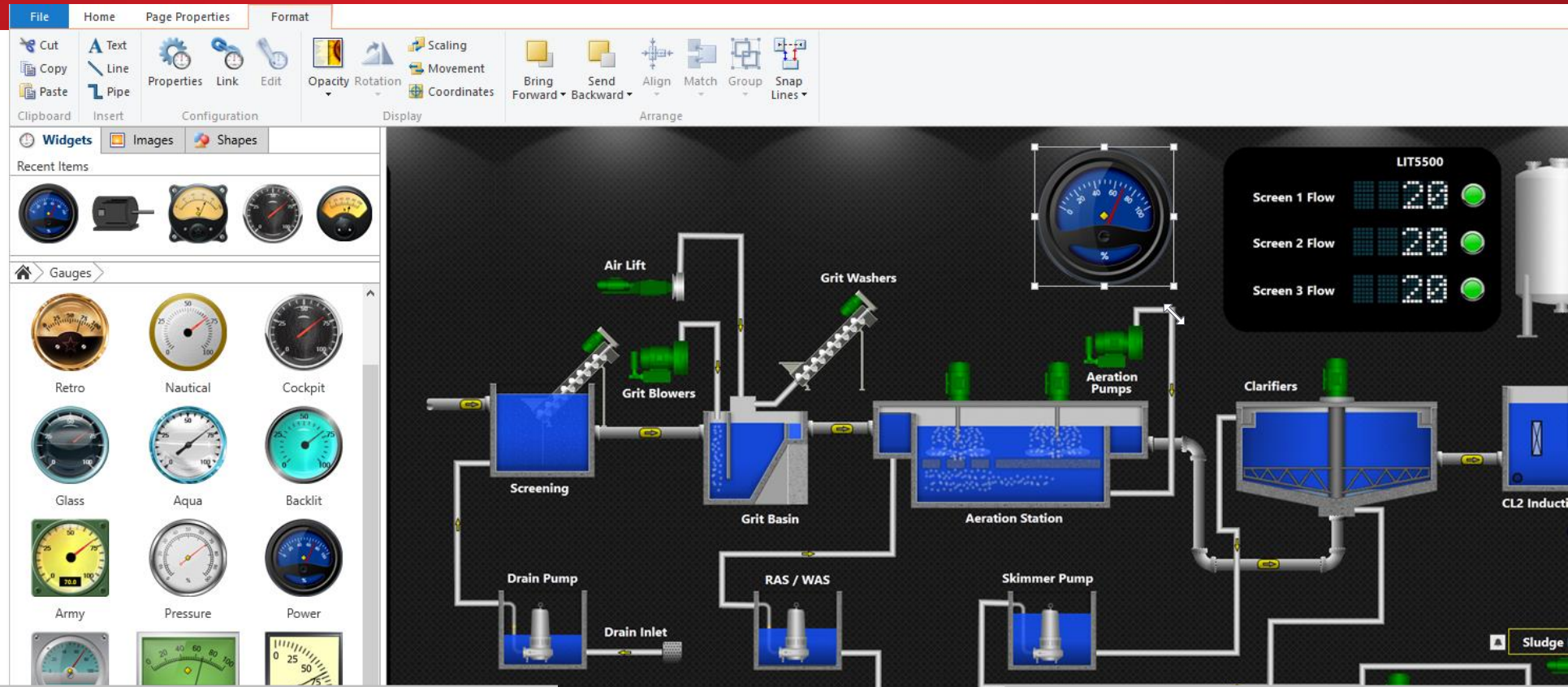**Group Together Tags to Reflect Real-World Structures**

- Save time and reduce errors.
- Draw multi-tag equipment in one step.
- Only I/O addresses count towards your chosen tag limit.
- Free conversion service.

Intuitive Display Development

VTScada Idea Studio

Create professional displays with simple drag-and-drop tools.

Configure displays, menus, and tags from one interface.

- Familiar ribbon toolbar.
- 200+ widgets, 4000+ graphics, 3D pipes.
- Pre-built high impact display pages.
- Easily align graphical elements.
- Add graphics from anywhere.

VTScada Scripting Language
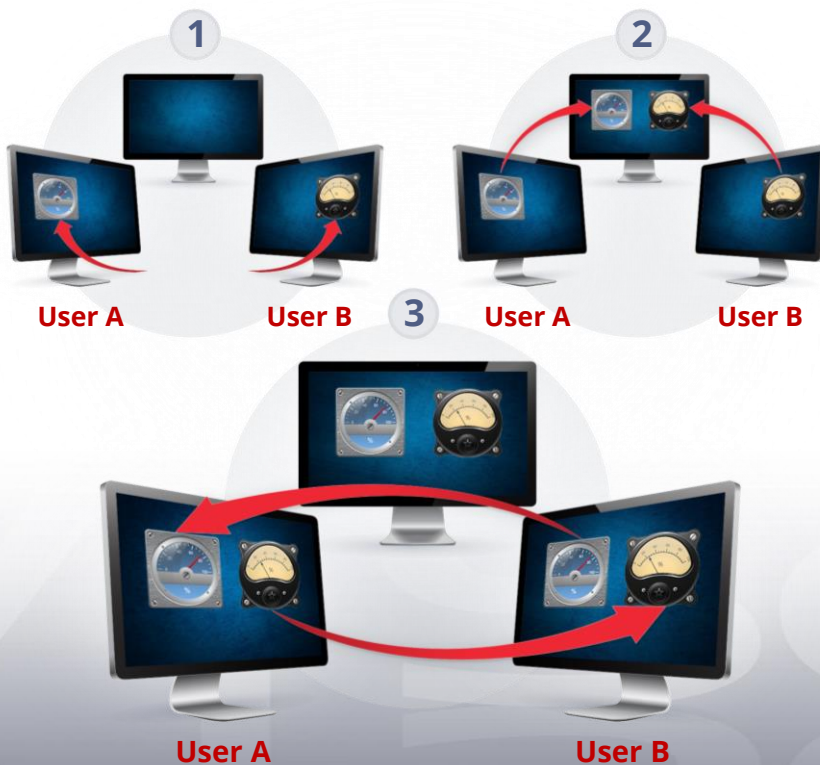
Unlimited Customization

Easy Application Deployment

Online Deployment
Standard With Development Runtime Licenses

- Concurrent multi-user development.
- No configuration server required.
- Instant network deployment after changes validated.

1

User A   **User B**

2

User A   **User B**

3

User A   **User B**

Single-file Deployment
Standard Components

- Simple to create, distribute, and import.
- Easy to share applications with support teams.
- Backup or clone applications in seconds.

VT

Bridge1.changeset

Easy to distribute.

Change Management

VTScada Application Version Control
Standard Component

Trace changes and instantly recover from configuration issues.

- Instantly reverse any change.
- Switch to a known good version.
- See who did what, where.
- No configuration needed.

See color-coded incremental version changes.

The Best Technical Support in the Business

The VTScada Support Team

Our customers are our best spokespeople.

"What impressed me most about Trihedral and VTScada is not simply the incredible design of the software and smooth transition from our previous HMI package, but the accessibility of staff and their pride in their product." **- Jay Nicholson - Joint Municipal Water and Sewer Commission - Lexington, SC**

"I can state unequivocally that 'providing quality products with exceptional services' is not only part of [Trihedral's] mission statement, but that it really is part of your business culture." **- Craig Corzine - President - CSE Engineering Inc., CA**

New licenses include 90 days of SupportPlus.

- Renewals are 15% of the original software price per year while you remain current.
- Includes 9-5 AST phone/email support and software version upgrades.
- 24/7, VTScada only or application-specific options available.

Free 50 I/O License

We are sharing our passion for instantly intuitive SCADA with the world.

Introducing...

VTScadaLIGHT™

A free development/runtime suite.
- One mobile connection.
- No expiration or runtime limits.
- Perfect for small industrial and personal applications.

To try VTScadaLIGHT, select this checkbox during installation.

☑ Use VTScadaLIGHT (free), restricted to ten installations per organization

trihedral.com/light

More Information

Contact Us.

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(Toll-free in North America)

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Houston, USA

Birmingham, USA

Trihedral