

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

A screenshot of a GoToWebinar interface. The top section is titled "Audio" and includes a "Sound Check" indicator with three green bars. Below this, there are radio buttons for "Computer audio" (selected) and "Phone call". A "MUTED" indicator is shown with a microphone icon. Below the muted indicator, there are two dropdown menus: "Microphone Array (Realtek Audio)" and "Headphone (Realtek Audio)". The middle section is titled "Handouts: 4" and lists four PDF files: "Brochure-VTScada-NewFeatures11-3.pdf", "Brochure-VTScada-WhatMakesItDifferent.pdf", "Brochure-VTScadaLIGHT.pdf", and "Datasheet-VTScada.pdf". The bottom section is titled "Questions" and contains a text input field with the text "Hi! The webinar will be begin soon." Below the input field is a placeholder "[Enter a question for staff]" and a "Send" button. At the bottom of the interface, there is a footer with the text "Intro to VTScada 11.3 – Cutting edge Features, Classic Benefits" and "Webinar ID: 912-494-979". The GoToWebinar logo is also present at the bottom.

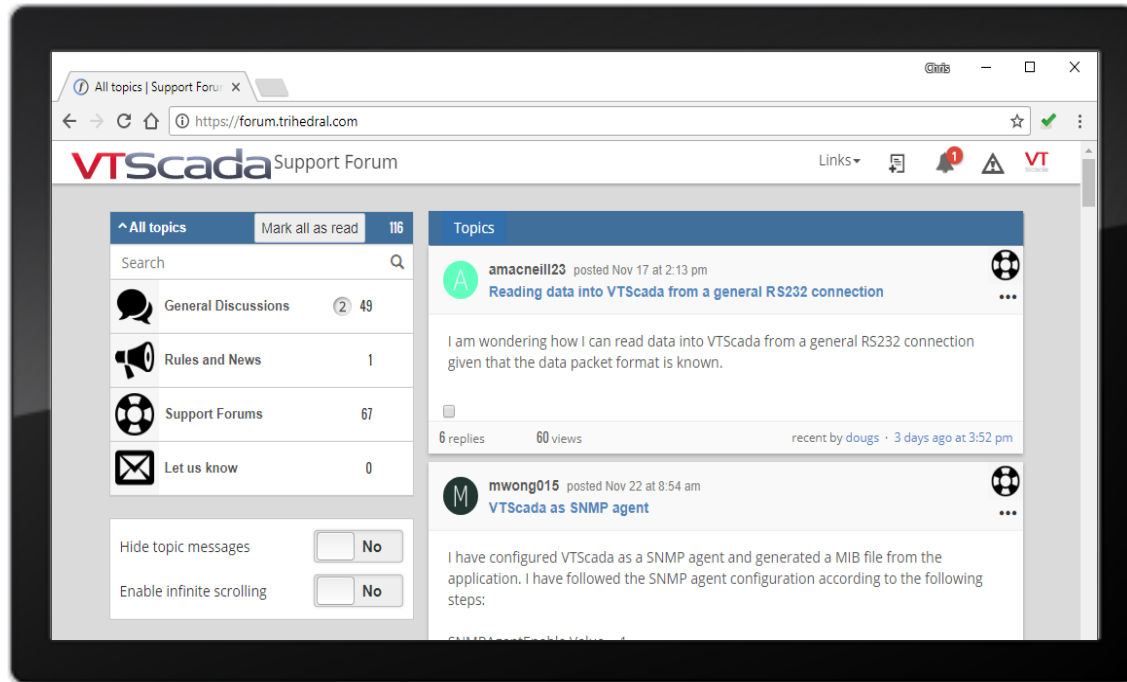
2018 Training Schedule



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

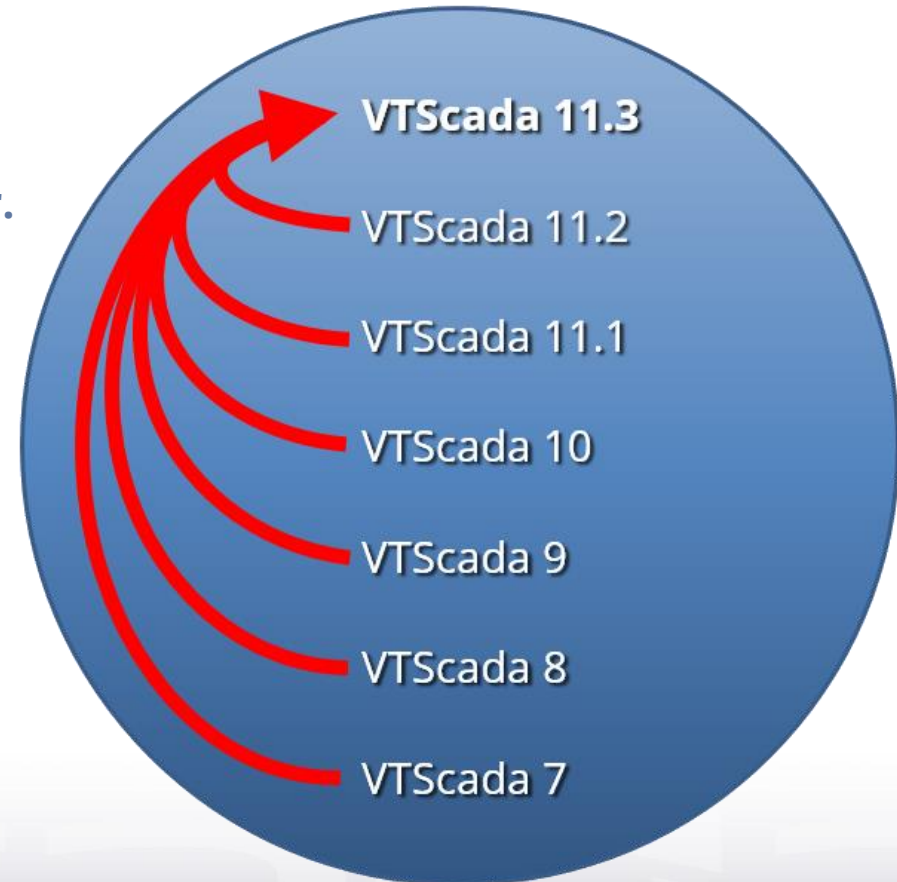
31 years. One product.



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.



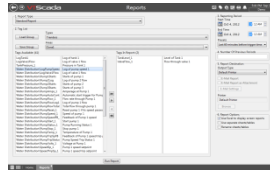
One Installation One License Agreement

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

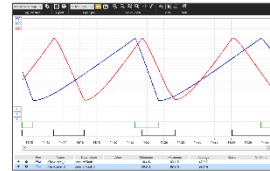
The fully-integrated design improves integration and scalability.

Built in features remain tightly integrated for the life of the system.

Reporting



Trending



Security

Account Name	Blair
Password	••••••
Confirm Password	••••••

Alarming

Version Control

Version	Time Applied
D109	Mon Mar 14, 2011 15:10:35.460
D108	402.520
D107	426.699
D106	449.933
D105	492.711
D104	Mon Mar 14, 2011 11:15:49.780
D103	Mon Mar 14, 2011 11:14:33.598



Mapping

VTScada

Software for Monitoring & Control

Under 200 MB Installer



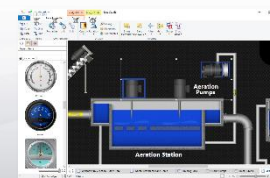
Enterprise Connectivity



Driver Library



Monitoring and Control



Graphic Development

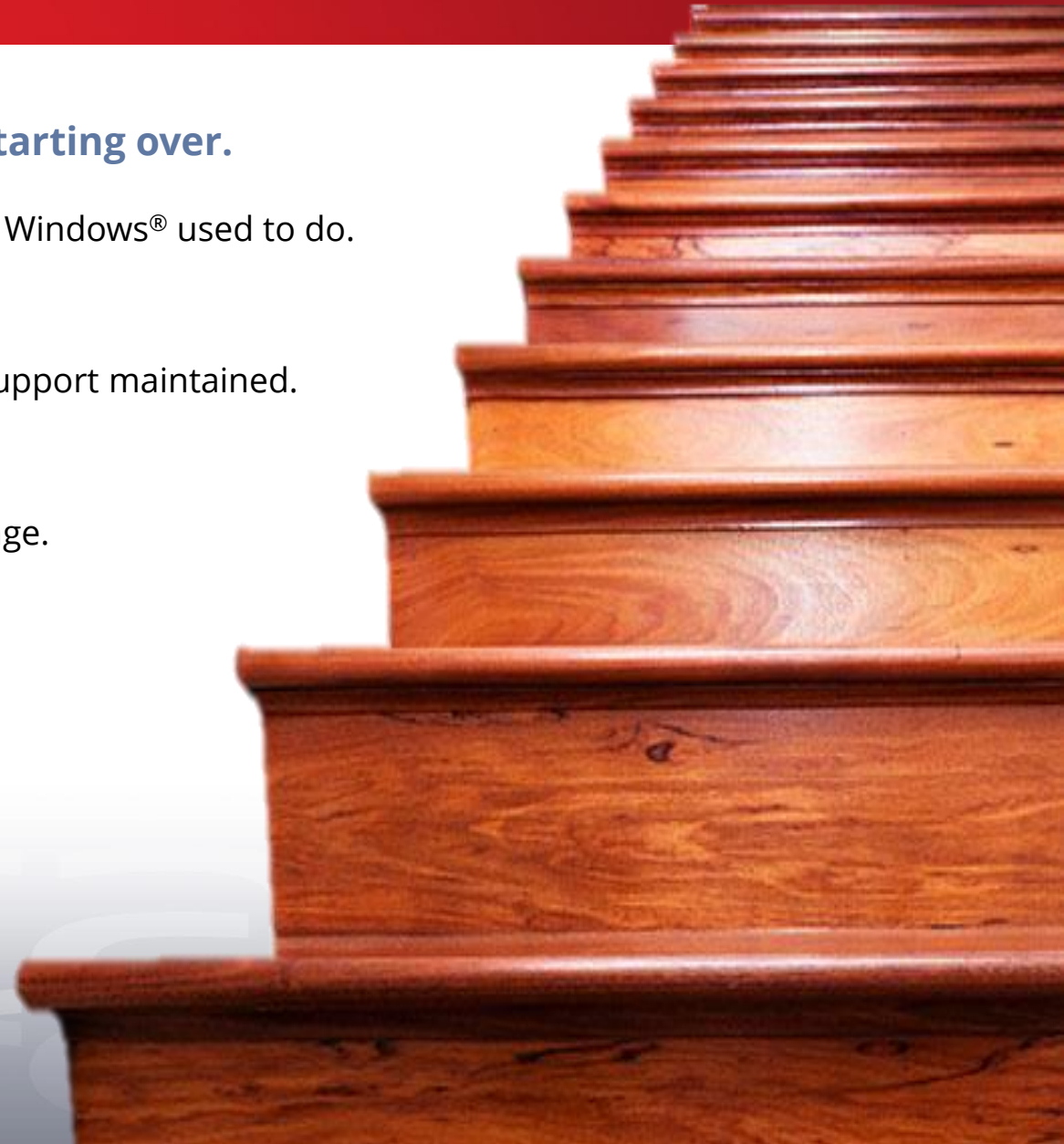


Mobile Connectivity

Our Development and Release Philosophy

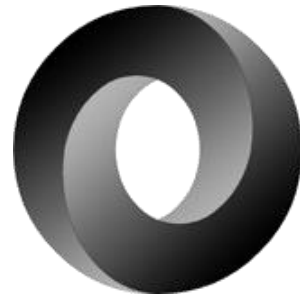
Incremental updates pose less risk of disruption than starting over.

- 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





- New Features 11.2 -

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.



- New Features 11.3 -

Twilio Support

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

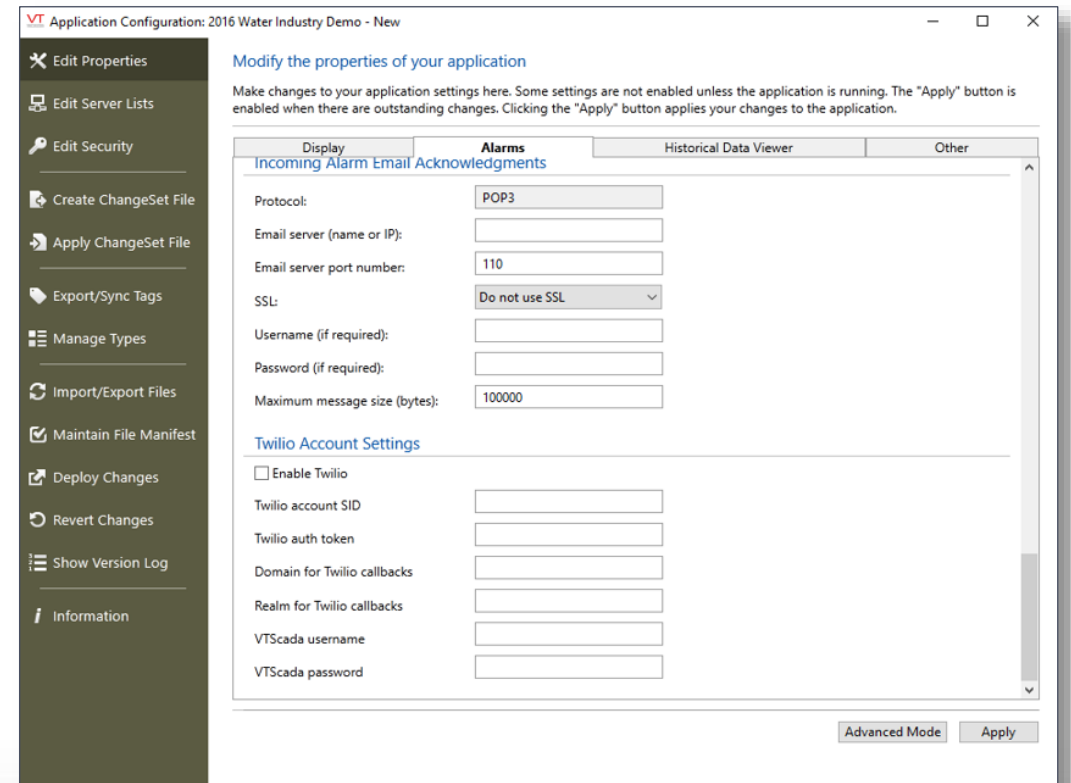
VTScada continues to support voice modems for applications where Internet connectivity is not an option.

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.



- New Features 11.3 -

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)



- New Features 11.3 - IPv6 Support

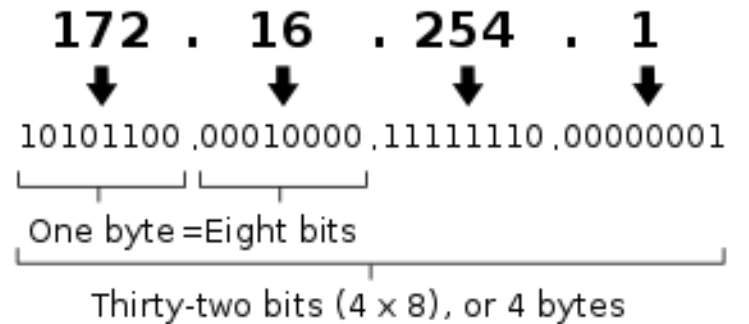
IPv4 Addresses are Running Out

- 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.

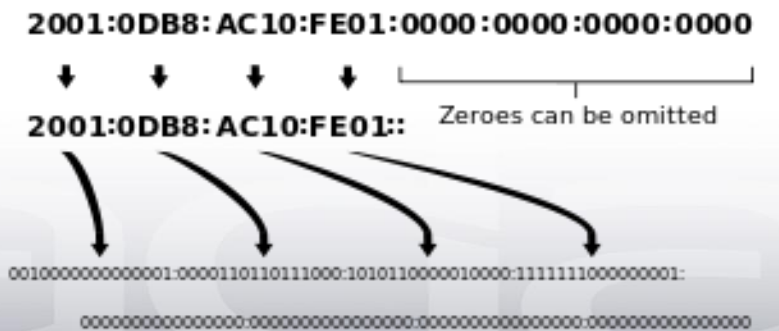
IPv6 is the Next Standard

- 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)



An IPv6 address (in hexadecimal)





- New Features 11.3 - 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.

VT New IEC 60870-5 Driver Properties

ID	Communications	Protocol	VRTU	VRTU Config
Port				
*Port --Missing--				
Device Timezone				
Uses Server's Time Zone (No DST)				
<input type="checkbox"/> Enable Time Synchronization				
<input checked="" type="checkbox"/> Hold				
Number of outstanding ASDUs (K)				
3				
IP Network Listener Group				
Response Timeout (T1) (seconds)				
5				
ACK Response Timeout (T2) (seconds)				
5				

OK Cancel

- New Features 11.3 -

Download Files From Anywhere Clients

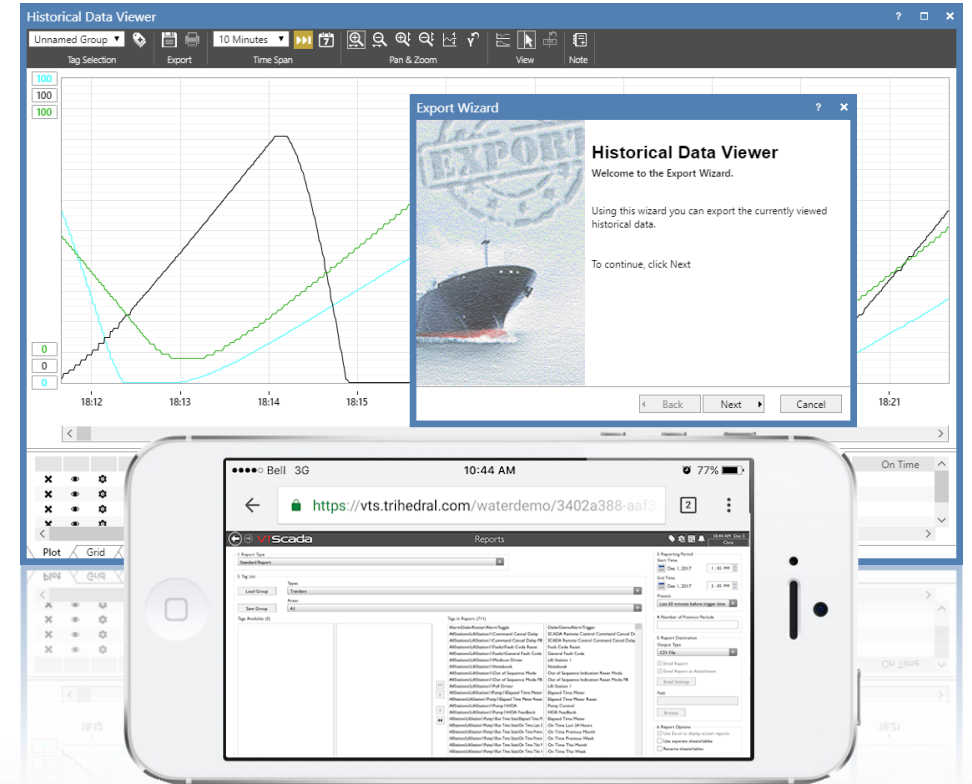


Save files from the VTScada Anywhere Client including:

- 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.



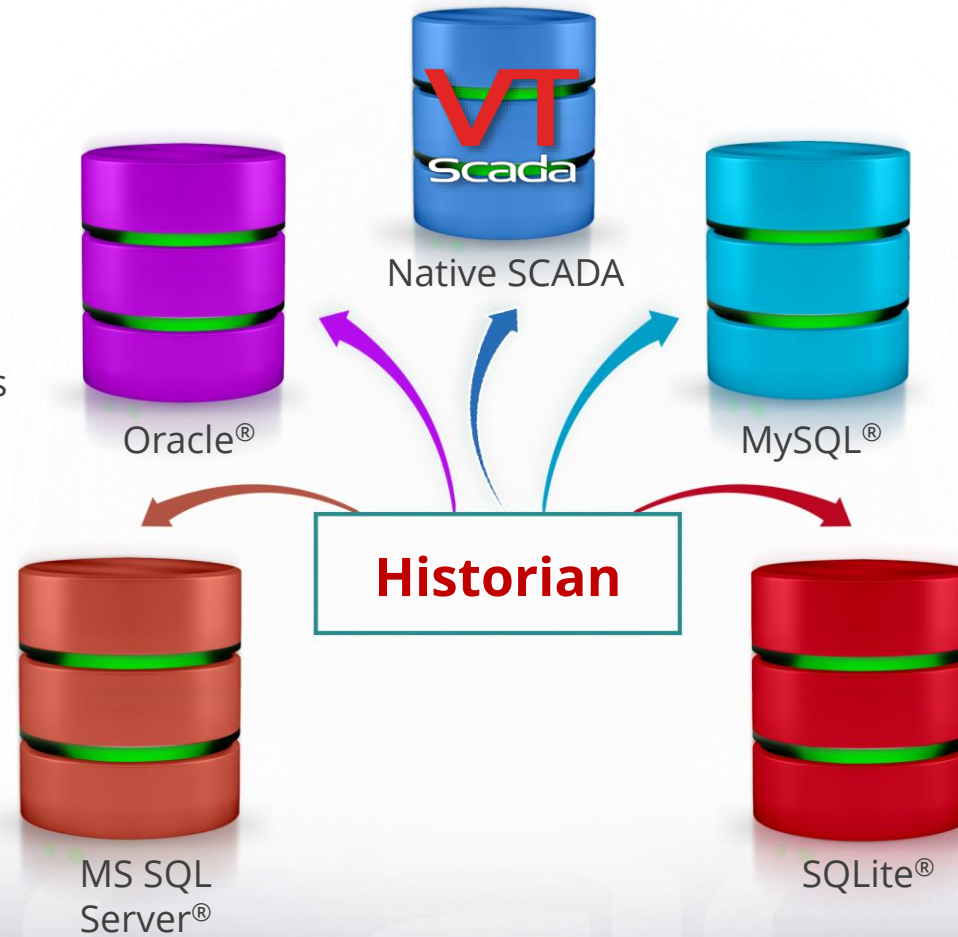
VTScada Operational Features



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.**



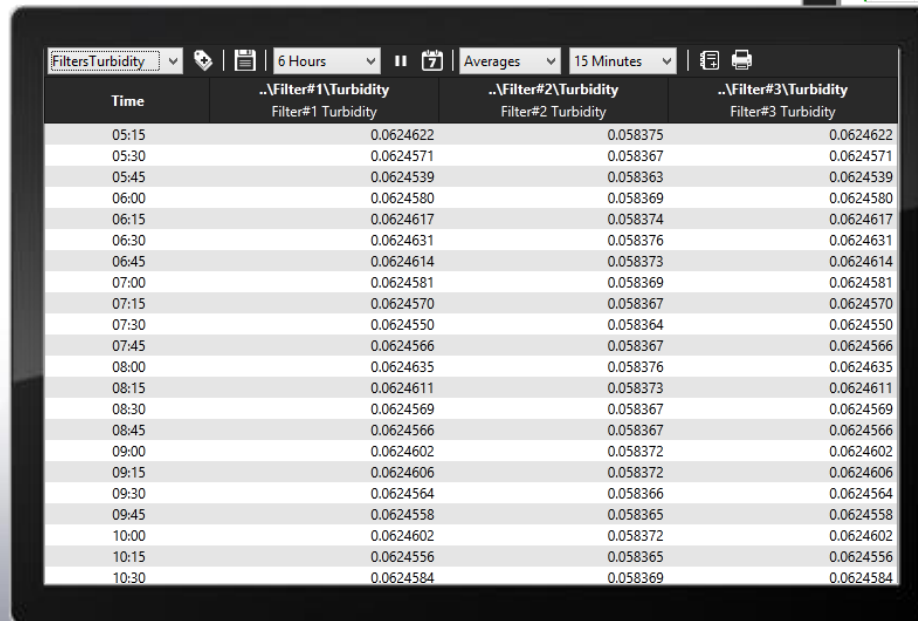
SQL Server, Oracle, MySQL and SQLite are trademarks of their respective owners.

* Other database formats licensed and installed separately. ** Requires additional VTScada licenses.

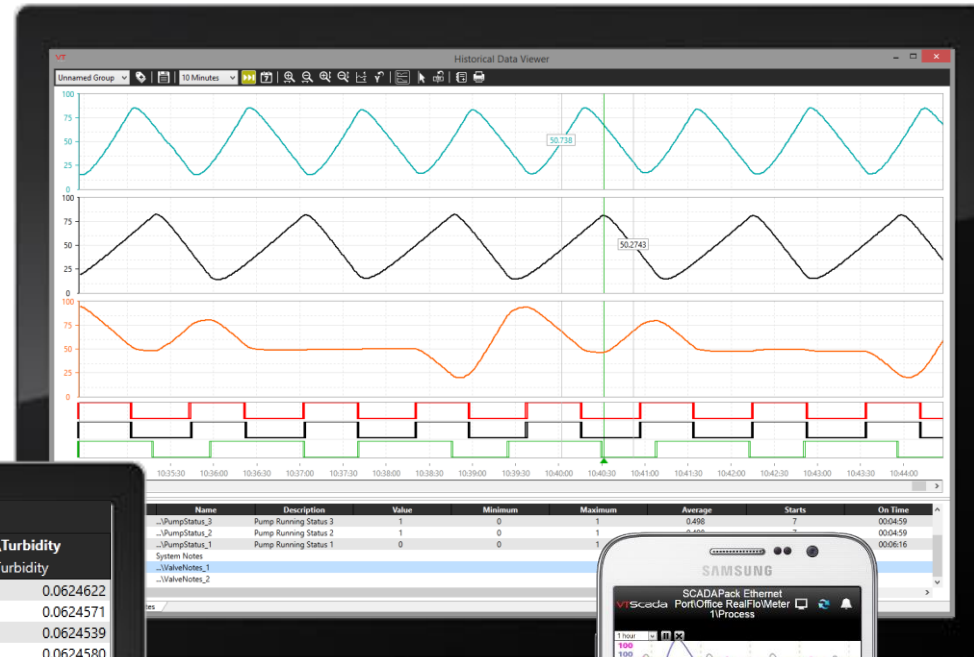
Operator-Created Trending

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.



Time	..Filter#1\Turbidity Filter#1 Turbidity	..Filter#2\Turbidity Filter#2 Turbidity	..Filter#3\Turbidity Filter#3 Turbidity
05:15	0.0624622	0.058375	0.0624622
05:30	0.0624571	0.058367	0.0624571
05:45	0.0624539	0.058363	0.0624539
06:00	0.0624580	0.058369	0.0624580
06:15	0.0624617	0.058374	0.0624617
06:30	0.0624631	0.058376	0.0624631
06:45	0.0624614	0.058373	0.0624614
07:00	0.0624581	0.058369	0.0624581
07:15	0.0624570	0.058367	0.0624570
07:30	0.0624550	0.058364	0.0624550
07:45	0.0624566	0.058367	0.0624566
08:00	0.0624635	0.058376	0.0624635
08:15	0.0624611	0.058373	0.0624611
08:30	0.0624569	0.058367	0.0624569
08:45	0.0624566	0.058367	0.0624566
09:00	0.0624602	0.058372	0.0624602
09:15	0.0624606	0.058372	0.0624606
09:30	0.0624564	0.058366	0.0624564
09:45	0.0624558	0.058365	0.0624558
10:00	0.0624602	0.058372	0.0624602
10:15	0.0624556	0.058365	0.0624556
10:30	0.0624584	0.058369	0.0624584



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.

The screenshot shows the VTScada Alarm Page interface. At the top, there's a navigation bar with 'VTScada' and 'Alarm Page' labels. Below this is a menu for 'System Alarm DB' with options for 'All', 'System Alarm DB', and 'System Event'. A secondary menu shows 'Unacked', 'Current', 'Shelved', 'Disabled', and 'Configured'. The main area 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 to indicate active or critical status. A 'Filter' button is visible in the top right of the interface.

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
2016-12-22 10:04:16	Shelve	IT	ITResources\Workstation_Barry\PercentCPUUsed
2016-12-14 16:26:41	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-14 16:26:37	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-14 16:26:32	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-14 15:54:13	Unshelve	IT	ITResources\Workstation_Dave\BatteryLevel
2016-12-14 15:53:49	Shelve	IT	ITResources\Workstation_Dave\BatteryLevel
2016-12-06 12:00:06	Acknowledge	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-06 12:00:00	Normal	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl
2016-12-06 11:59:55	Active	Water Treatment Plant	WaterTreatmentPlantDemo\TCPIP Port\WaterTreatPlantSim\TestAl

Easily filter down to only the Alarms you need.

The 'Advanced Filtering' dialog box allows users to search for specific alarms and events. 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 'OK', 'Cancel', and 'Apply' buttons.

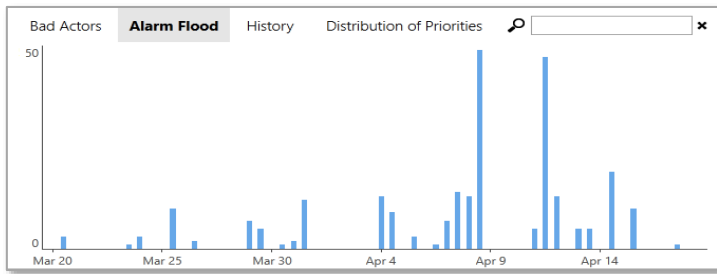
The 'Shelve Selected' dialog box provides options to shelve an alarm. It includes a 'Shelve the selected alarm' section with radio buttons for 'for', 'until', and 'indefinitely'. The 'for' option is selected with a '5 minutes' duration. The 'until' option is set to '2016-05-04 12:00'. There are 'OK' and 'Cancel' buttons at the bottom.

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.



Bad Actors		Area	Name	Description	Count
1	2	Zone 1	Local TCP Port\PLCSim\Tank 1\Tank Level	Monitor tank level HIGH	14
2	4	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

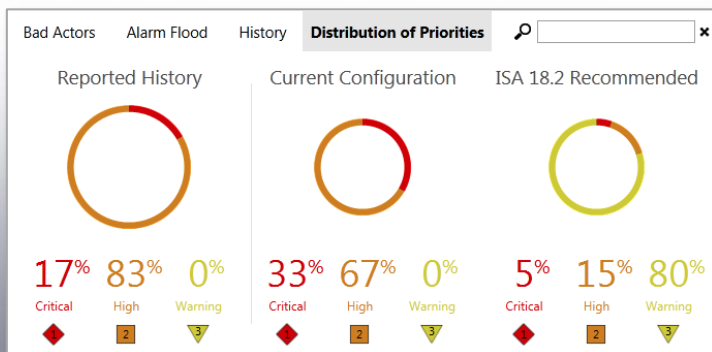
Alarm Flood Report

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

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	

History Report

All active and trip alarm events within a specific period.



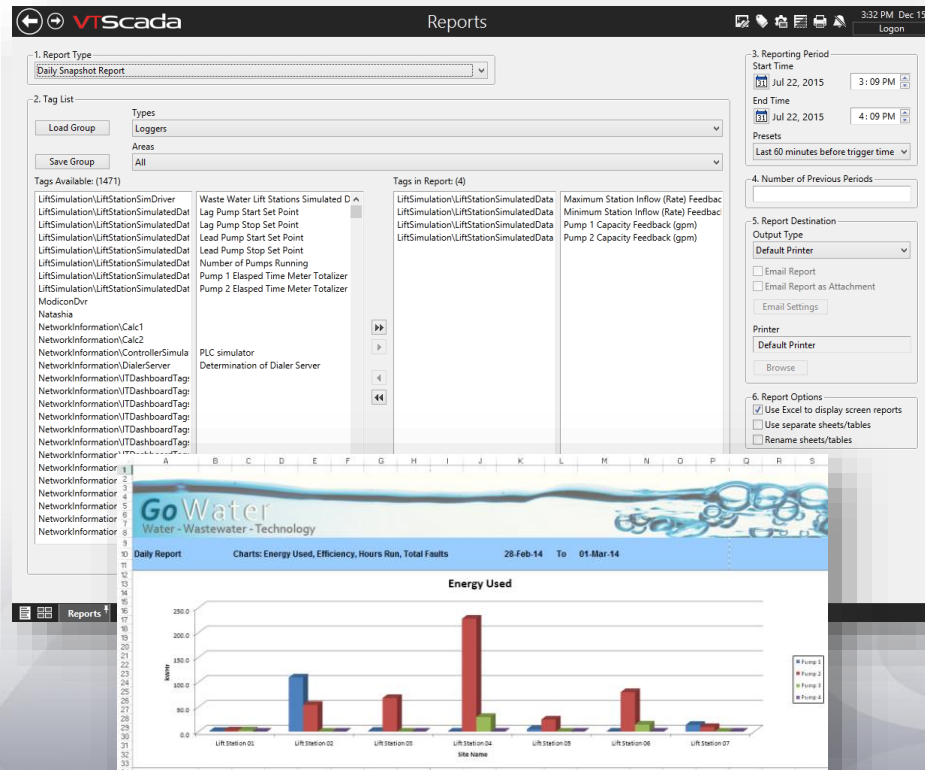
Priority Distribution Report

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

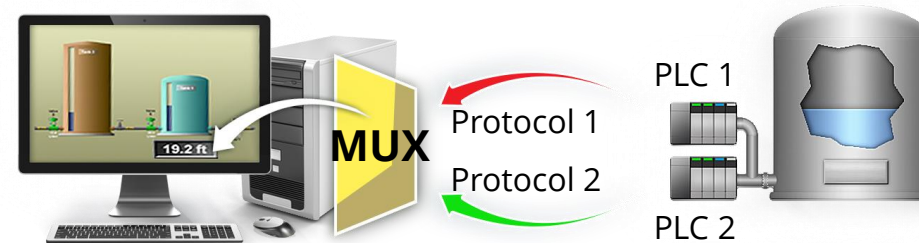
Server Failover

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



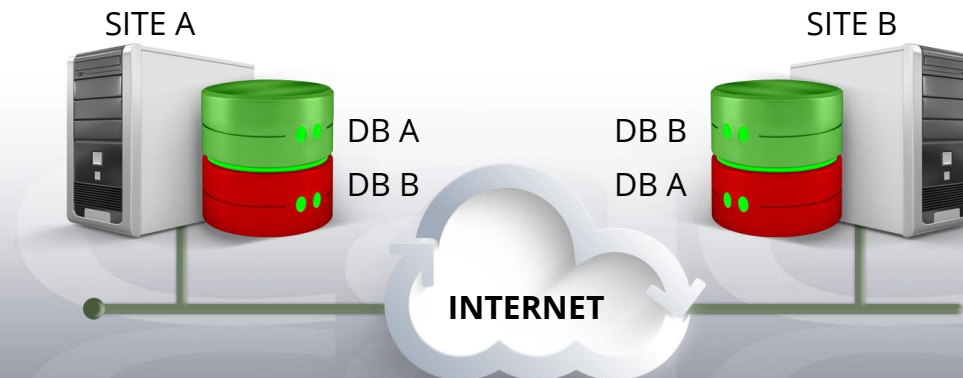
Network Failover

- Unique Driver Multiplexer.
- Redundant Networks or Devices.



Synchronized Historians and Alarm Databases

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



Integrated Alarm Notification System

Critical Alarms Find You Anywhere

VT Roster (Day Shift) Properties

ID	Contacts	Activation	Display	
	Contact Order	Username	Mode	Enabled
	Robert Villa	RobertV	Email	✓
	Robert Villa	RobertV	Compact Email (SMS ready)	✓
	Norman Abram	NormanA	Compact Email (SMS ready)	✓

Communication Method

Voice

Pager

Email

SMS text

Compact Email (SMS ready)

Options

Continue Roster Sequence

Do Not Contact

Contact Description: Robert Villa

Contact User Name: RobertV

Email Address(es) (separated by semi-colons): bob.villa@thisoldhouse.com

Pager PIN:

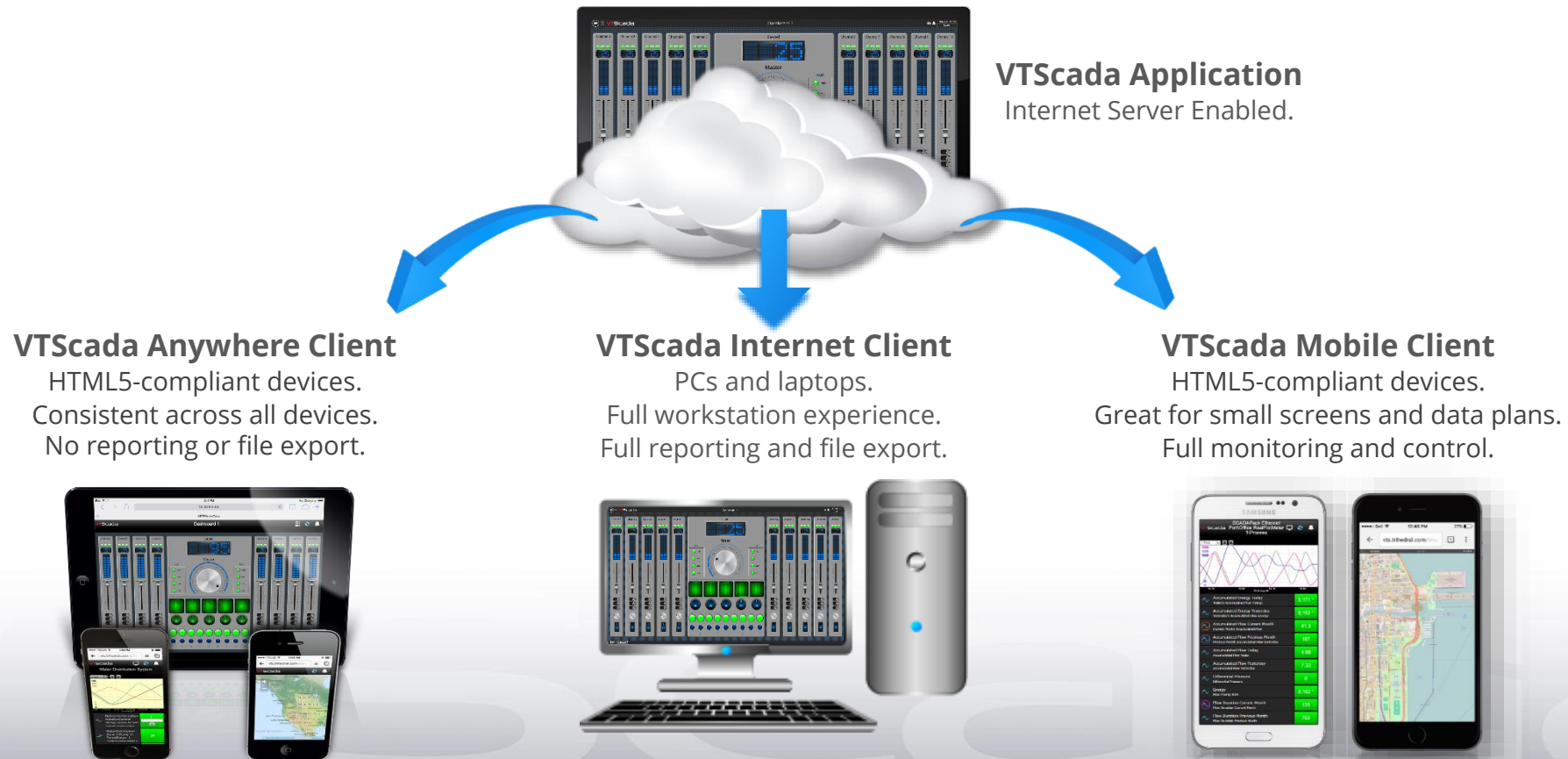
Time Zone: Server Time Zone

- 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



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

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

VTScada Slippy Maps

The image displays the VTScada Slippy Maps interface, which is a comprehensive monitoring and control system for water infrastructure. The interface is divided into several key sections:

- Well Diagram (LS15):** A cross-sectional view of a well with two pumps. The water level is indicated by a blue line at 5.6 feet. The well is situated in a concrete structure with a depth of 9.8 feet. The flow data shows an inflow of 3591.0 GPM and an outflow of 30474.0 GPM. The well level is recorded over a 24-hour period.
- Map:** A detailed map of Chicago showing the location of the well (LS15) and other nearby assets. The map includes street names, landmarks, and a search bar. The well location is marked with a green dot.
- Pump Controls:** Two pump control panels are shown. Pump 1 is in a "FAULT" state, while Pump 2 is in a "RUNNING" state. Each panel includes a "Hand" button, an "Auto" button, and a "Current" meter showing 0.0 A for phases A, B, and C.
- Alarms:** A list of active alarms is displayed, including "Level Alarm", "Level Sensor Alarm", "DC Power Fault", and "3 Ph". The most recent alarm is "2016-03-21 11:45:17 Pump1Unavailable", which is highlighted in red.

The interface is designed for both desktop and mobile use, as evidenced by the tablet and smartphone views shown on the right side of the image. The desktop view shows a larger map and more detailed data, while the mobile views show a simplified, touch-friendly interface.

VTScada Development Features

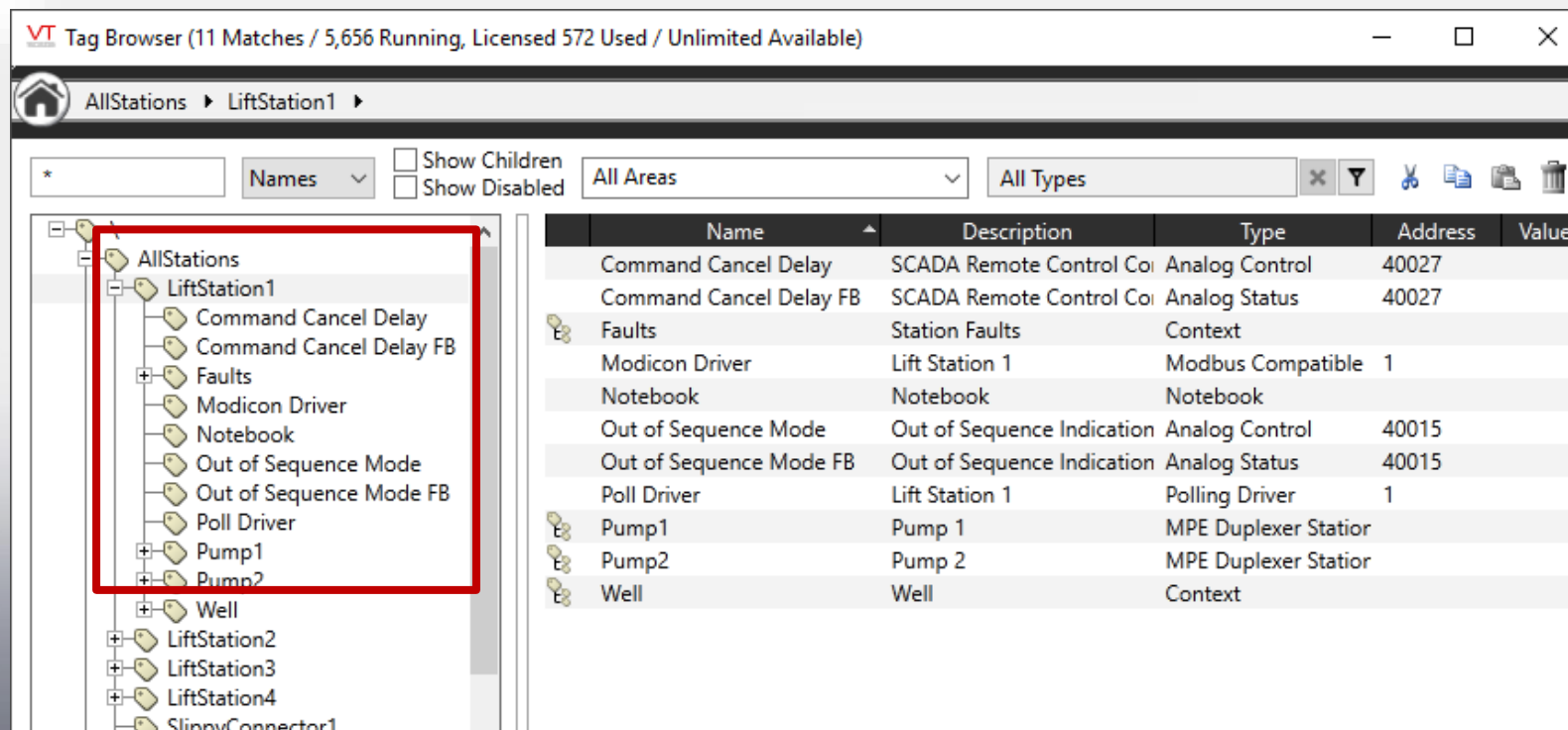


Tag Structure Model

VTScada Hierarchical Tag Browser Standard Component

Group Together Tags to Reflect Real-World Structures

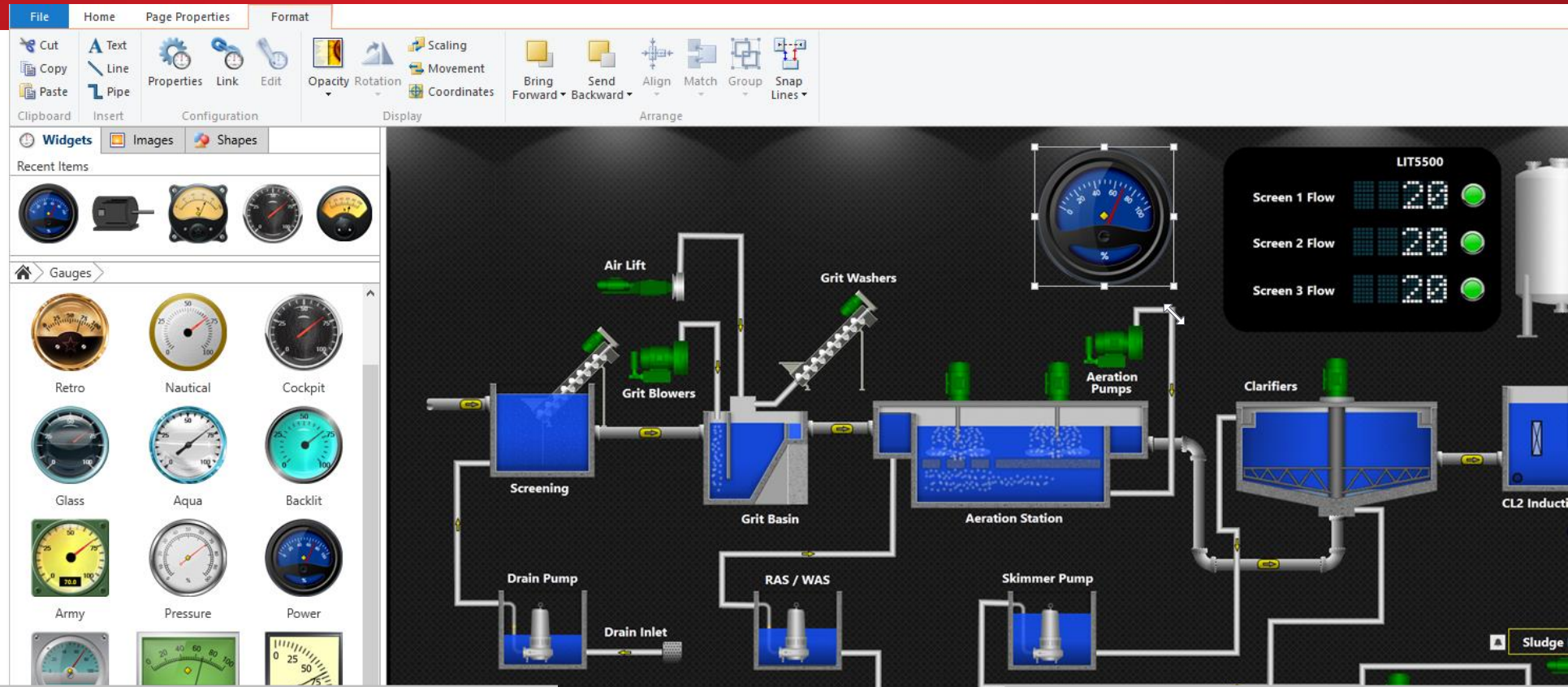
- Save time and reduce errors.
- Draw multi-tag equipment in one step.
- Only I/O addresses count towards your chosen tag limit.
- Free conversion service.



The screenshot displays the VT Tag Browser interface. The title bar indicates 11 matches and 5,656 running tags. The breadcrumb path is AllStations > LiftStation1. The left pane shows a tree view where the LiftStation1 folder is expanded and highlighted with a red box. The right pane shows a table of tag details.

Name	Description	Type	Address	Value
Command Cancel Delay	SCADA Remote Control Coi	Analog Control	40027	
Command Cancel Delay FB	SCADA Remote Control Coi	Analog Status	40027	
Faults	Station Faults	Context		
Modicon Driver	Lift Station 1	Modbus Compatible	1	
Notebook	Notebook	Notebook		
Out of Sequence Mode	Out of Sequence Indication	Analog Control	40015	
Out of Sequence Mode FB	Out of Sequence Indication	Analog Status	40015	
Poll Driver	Lift Station 1	Polling Driver	1	
Pump1	Pump 1	MPE Duplexer Station		
Pump2	Pump 2	MPE Duplexer Station		
Well	Well	Context		

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

```
0 10 20 30 40 50
12 Main {
13   Return(Self);
14   GUITransform(296, 280, 396, 254,
15     1, 1, 1, 1, 1 { Scaling
16     0, 0 { Movement
17     1, 0 { Visibility, Reserved
18     0, 0, 0 { Selectability
19     Variable("FlowTotal_Pump_3")\Number(0, 1,
20   GUITransform(184, 148, 212, 32,
21     1, 1, 1, 1, 1 { Scaling
22     0, 0 { Movement
23     1, 0 { Visibility, Reserved
24     0, 0, 0 { Selectability

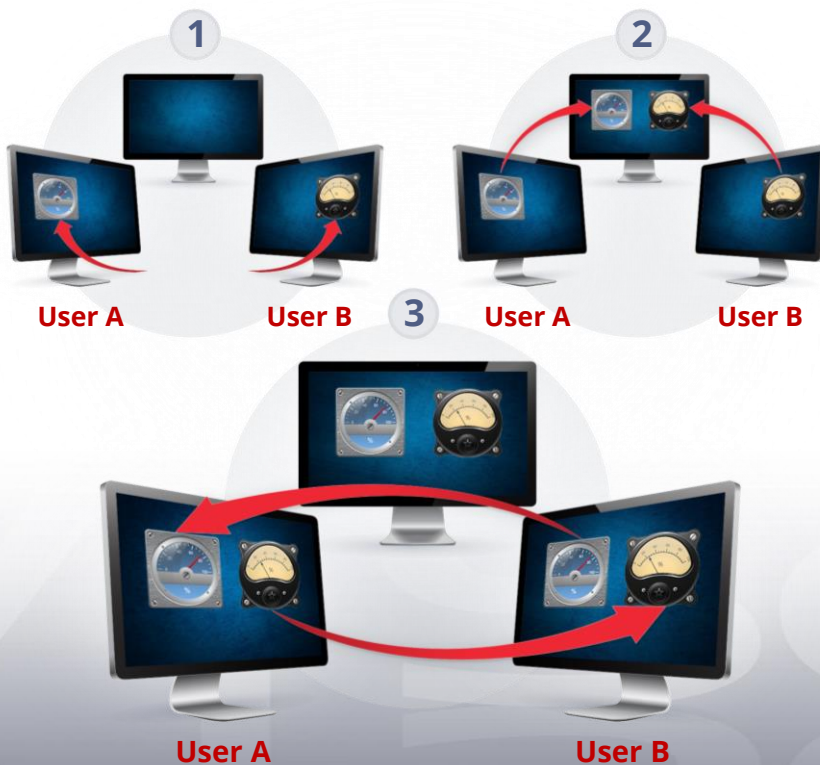
```

Easy Application Deployment

Online Deployment

Standard With Development Runtime Licenses

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



Single-file Deployment

Standard Components

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



Change Management

VTScada Application Version Control Standard Component

Version	Time Applied
LAPTOP-D74	Mon May 30, 2016 19:44:56.895
LAPTOP-D73	Mon May 30, 2016 18:43:26.169
LAPTOP-D72	Mon May 30, 2016 18:43:26.169
LAPTOP-D71	Mon May 30, 2016 18:43:26.169
LAPTOP-D70	Mon May 30, 2016 18:43:26.169
LAPTOP-D69	Mon May 30, 2016 18:43:26.169
LAPTOP-D68	Mon May 30, 2016 18:43:26.169
LAPTOP-D67	Mon May 30, 2016 18:43:26.169
LAPTOP-D66	Wed May 11, 2016 10:10:43.305
LAPTOP-D65	Wed May 11, 2016 10:10:43.305

- Show Version Details
- Switch to This Version
- Reverse Version Changes
- Merge Version Changes
- Reverse Version Range
- Merge Version Range

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 screenshot shows a file comparison window titled "Changes From LAPTOP2 - D5 to LAPTOP2 - D8". The left pane shows a file tree with "Pages\Overview.SRC" selected. The right pane shows the code for "Pages\Overview.SRC" with a line-by-line comparison. Line 2 is highlighted in yellow, indicating a change, and line 3 is highlighted in green, indicating a new addition. The code includes a title and color settings for a "Water Distribution System".

```
! # /
1 [
2 Title = "Water Distribution System";
- 2 Color = "<FFDADEE7>";
+ 3 Color = "<FFFFFFF7>";
4 Bitmap = "";
5 PageMinWidth;
6 PageMinHeight;
7 PageBMPBrightness = 1;
```

Before: May 02, 2014, 12:20:49 / 46,827 bytes. After: May 02, 2014, 12:21:02 / 46,827 bytes.

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