

Thin Client Access

OPTIONAL INTEGRATED COMPONENT

A secure, reliable remote interface that you can configure in seconds.

VTScada Thin Client connections make it safe and easy for authorized Operators and Developers to connect to their applications from smartphones, tablets, PCs, and Macs. In addition remote access, Thin Clients also allow you to administer applications running as a service in the cloud. In just seconds, configure any installed VTScada workstation to be a Thin Client server, no third-party webserver or remote desktop software required. Add more Thin Client servers to provide seamless client failover. Since the server only updates clients when values change, VTScada provides high performance even on slow networks.

In Brief

- For iPhone, iPad, Android, Windows, Linux, and Mac.
- Licensed by number of concurrent connections.
- Requires one or more VTScada licenses with Thin Clients enabled.
- No dedicated thin client hardware like Wyse® devices required.
- No third-party webserver or remote desktop software required.
- Supports Industry-standard encryption options.
- **NEW in 12.1** – Thin Clients now support multiple monitors (see below).

A Complete Operator Interface

VTScada Thin Clients provide an operator interface identical to a fully installed VTScada software license.

- Monitor and control application pages.
- Manage Alarms and run Reports.
- Create ad-hoc trends and trend groups.
- Navigate VTScada Slippy Maps.

Manage Applications Running as a Service

Thin Clients provide a convenient way to manage local or cloud-based applications that run as a service. On PCs, the VTScada Internet Client format (see page 2) allows you to open the hosted server's VTScada Application Manager (VAM) where you can start, stop, and manage applications.

A High Performance Interface

VTScada sends updates only when process values change, providing high performance even on slow networks. Configuration changes or version upgrades automatically synchronize with each client connection. For efficient load sharing, applications with multiple Internet servers can direct new connections to the server with the fewest. Performance more related to server speed and network latency rather than the power of end-user devices.

Simple Licensing

VTScada Thin Clients are licensed by the number of concurrent users according to the tag count of the application. Thin Clients can be added to any existing VTScada licenses by updating the key. Choose single clients, value packs, or unlimited licenses.



A Flexible Development Environment

If the Thin Client Server is a Development/Runtime, then authorized users can use Thin Clients for application configuration.

- Open the VTScada Tag browser to add and edit tags.
- Use the VTScada Idea Studio to configure HMI screens (VIC only).
- Manage Application Server Lists.
- Configure application settings.

Multi-Monitor Support (VIC Only)

Now, users running Thin Clients in the VTScada Internet Client (VIC) format can take advantage of multiple monitors just as they do with installed VTScada licenses. Configure monitors on a per-workstation or per-realm basis. Note: The VIC format (see page 2) does not currently support multi-monitors.

Ease of Configuration

Due to its integration with VTScada, optional Thin Client access can be unlocked with an updated software key and configured in seconds. VTScada automatically translates all displays, exactly as they appear on a full-installation client. No need to purchase and support third-party server products like Apache® or Microsoft IIS®. Nor is there need for Remote Desktop Protocol® (RDP).

Uninterrupted Access

Like all VTScada services, automatic Thin Client failover is an important part of system reliability. If the primary Thin Client Server becomes unavailable, client connections will seamlessly switch to the next designated backup.

VTScada[®]

by Trihedral

Industry-Standard Security

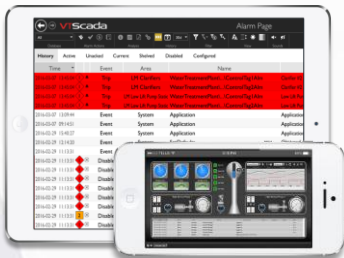
Industry-Standard Encryption - VTScada supports industry-standard Internet security features including firewalls, VPN connections, and Transport Layer Security (TLS).

System-wide Security - Manage remote access via application user account privileges. Runtime security changes are immediate and system wide. Support for OpenID Connect[®] permits integration with third-party authentication servers allowing single sign-in (one password for many systems) and two factor authentication (e.g., Google Authenticator or Apple Touch sensor).

Monitor All Client Use - The VTScada Internet Client Monitor tool allows you to monitor active Thin Clients. It permits logging of Client activity, messaging to one (or all) user(s) and forcible disconnection for maintenance and security reasons.

Server Name	Client Name	Application	Realm	Username	Page Name	Page Information	Session Time	Client Type	Client Version
CHRISL-P4	febf598 bbf598	WaterAndWastewaterDemo	demo	Chris	Welcome To VTScada - Start Here		0:02:14	Anywhere	12.0.12

Each user can select a display format that suits their device and data plan.



A consistent Operator experience 'anywhere'.

VTScada Anywhere Client

Smartphones, Tablets, Windows PCs, and Macs

The Anywhere Client provides a consistent and secure full workstation experience on computers, phones, and tablets.

- Monitor and control your applications in any HTML5 browser.
- 'Push' technology provides real-time data without overloading your data plan.
- Zero-footprint means nothing to download and install. No Java either.

Note: Logged off sessions are not supported. Internet Explorer 11[®] does not support sound but Edge[®] does.



The VIC is identical to a Runtime workstation.

VTScada Internet Client (VIC)

Windows PCs, Laptops, and Panel PCs

An operational and development interface identical to a fully installed workstation. Users can monitor, control, configure, create reports and trends, manage security, and acknowledge alarms. Launch from a web link or desk top icon.

- **Secure Remote Portal** - Access your system from any online Windows computer.
- **Flexible Workstation** - A hassle-free alternative to full-installations.
- **Cloud App Management** - Use the VTScada Application Manager to start, stop, and manage cloud-based apps.



The MIC provides tactile trends, tags, and maps.

Mobile Internet Client (MIC)

Smartphones, Tablets, Windows PCs, and Macs

Use any HTML5-compliant browser to navigate sites and manage your process with a touch or pinch. Refresh data manually or set a refresh rate that suits your cellular data plan. Easily switch between these display formats:

- **Text-based Interface** - This tactile easy-to-read text-and-trend interface makes the best use of even the smallest screens and data plans.
- **Full Graphics** - See full-resolution views of displays on demand. Pinch to zoom into areas of interest. Tap to set values, view tool tips, or plot trends.

Thin Client Requirements

Authorized Thin Client users require a Windows or HTML5-compliant device with a connection to a running VTScada server with Thin Clients enabled.

See a full list of device requirements here: VTScada.com/requirements

Launch a Thin Client SCADA Demo

VTScada.com/demo

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