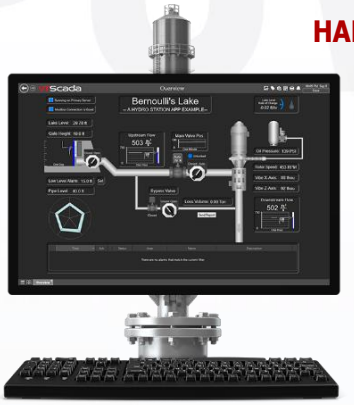
VTScada by Trihedral

HARDWARE & OPERATING SYSTEM RECOMMENDATIONS



FOR VTScada LICENSES INSTALLED ON WINDOWS OPERATING SYSTEMS *

Small Systems
Less than 1K I/O

- 32- or 64-bit Windows OS.
- 2 GHz dual-core processor.
- 40 GB free hard drive space.
- 4 GB RAM.
- 100 Mb Ethernet or higher.

Medium Systems
1K to 25K I/O

- 64-bit Windows OS.
- 3 GHz or more quad-core processor. Note: High clock speeds are more helpful than more cores.
- Solid State Drive. 1TB free space.
- 16 GB RAM.
- 1 Gb Ethernet or higher.

Large Systems
Over 25K I/O

- Medium Systems spec (left) should be adequate for +100K systems.
- 4 GHz processor or higher.
- Scale to large systems by load sharing services across servers or using Master & Subordinate Apps.
- If using blade servers, high clock speeds help, more cores don't.
- Use segmented networks.

Compatible Operating Systems by VTScada Version

Version	Server 2019	Server 2016	Win 10 IoT Enterprise	Win 10 32/64-Bit	Server 2012 R2	Win 8.1 32/64-Bit	Server 2012	Win 8 32/64-Bit	Server 2008 R2	Win 7 64-Bit	Win 7 32-Bit	Server 2008	Vista 64-Bit	Vista 32-Bit
12.X	✓	✓	✓	✓	✓	✓	✓							
11.X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.X					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.X									✓	✓	✓	✓	✓	✓
8.X									✓		✓	✓		✓

Note: Microsoft has ended support for XP®, Vista®, Windows 7®, Windows 8®, Server 2008®, and Server 2008 R2®.

Alarm Notifications

- Text-to-speech phone alerts require a voice modem or web-based messaging service like Twilio®.
- Choosing Modems: VTScada.com/modems
- Connection to an email server required for email alarm notifications.
- Cell modem or email account required for text alarm notifications.
- Sound card and speakers required for local alarm annunciation.

Virtualized Servers

- VTScada can run on virtual Servers.
- Each virtual server instance needs its own VTScada license.
- Do not clone virtual servers with VTScada installed. To learn more, search 'virtual servers' in VTScada Help.
- Ensure host PCs have capacity for all VMs, e.g., CPU, RAM, drive space, ports, Ethernet bandwidth.
- Twilio (left) is a simple alternative to configuring voice modems in virtual server environments.

Other Recommendations

- If you need RS-232 ports for legacy devices, we recommend Ethernet to serial converters.
- Keep VTScada & History data on separate drive from OS.
- NetDDE is not available on Vista and higher (it was removed in XP Service Pack II).
- VTScada uses IANA registered TCP/IP port 5780. Set up firewalls to route RPC traffic accordingly.
- Configure RAID with standard or solid-state drives. SSDs provides better performance.

FOR THIN CLIENT CONNECTIONS ON DEVICES WITHOUT VTScada INSTALLED

- Requires a connection to a running VTScada application server with Thin Clients enabled.
- Does not require Remote Desktop Protocol® (RDP).
- Does not require dedicated thin client hardware such as Wyse® devices.
- Performance is more related to the quality of the server and network rather than the power of the end-user devices below.
- Thin Clients work well over slower connections so long as the network latency is low.

The VTScada Anywhere Client
For HTML5-Compliant Browsers on Mobile Devices, PCs, Macs, and LINUX

To Launch - Enter a URL into one of the browsers below.

- Safari® (OS X, iOS) - Recommended
- Chrome® (Windows®, iOS®, Android®) - Recommended
- Firefox® (Windows®, iOS®, Android®)

Phone Hardware - 2 GB RAM (at least 200 MBs free space)
PC Hardware - See "Small Systems" recommendations above.

The VTScada Internet Client (VIC)
For Windows Desktops, Laptops, and Servers

To Launch

- Enter a URL into Internet Explorer
  or…
- Run a small desktop program (downloaded once from your application via a browser)

PC Hardware - See "Small Systems" recommendations above.
PC OS - Windows 8® or newer

** This is a guide. Actual requirements will depend on your application architecture.*
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