

Trihedral®

A Delta Group Company

Creators of

VTScada®
by Trihedral

Over 37 Years of SCADA Software Excellence

Trihedral was founded on the spirit of innovation. What began as an idea for one of the world's first reactive programming languages developed into VTScada, an award-winning all-in-one HMI and SCADA software platform for industrial applications of any size. Our permanent team of programmers and engineers keep VTScada on the cutting-edge with regular updates and industry leading features like integrated version control, real-time configuration, and bi-directional synchronisation. Our unique approach to software and service has resulted in growth in sales, installations, and new customers every year for the last 35 years.



A History of Uninterrupted Growth

Headquartered in Bedford, Nova Scotia, Canada, Trihedral Engineering Limited has grown to nine offices in three countries spanning six time zones and serving customers in over 100 countries. In addition to primary VTScada software development the Bedford office is home to the engineering department that serves customers across North America. In 2015, Trihedral opened an engineering office in Calgary, Alberta, to provide services and support to our oil & gas and water & wastewater customers in western and northern Canada.

Trihedral has two wholly owned subsidiaries. Trihedral UK was incorporated in 1998 in Aberdeen, Scotland. In addition to VTScada software development, this office provides engineering and integration services to our European customers. Trihedral, Inc. was incorporated in Orlando, Florida in 2007. This office provides engineering and technical sales support for the southeast United States. Since then, Trihedral Inc. has added regional sales offices in Houston, Texas, Birmingham, Alabama, Chicago, Illinois, Dayton, Ohio, and Boston Massachusetts.

Trihedral - A Delta Group Company

Trihedral remained a profitable and debt-free privately held company for decades. In 2020 it was acquired by Delta Electronics, a global leader in power and thermal management solutions. We are proud to be part of this global family.

A Growing Global Customer Base

- Trihedral has grown in sales, installations, and new customers every year over the past 35 years.
- Since 2016, new installations have grown more than 40% over the previous year.
- 20,000 installations worldwide with roughly 50% water/wastewater, 35% oil & gas, and 15% power/industrial.
- 50 million North Americans rely on VTScada for water & wastewater via 1,600 municipal utilities.
- Water/wastewater applications range from 200 I/O to 200,000 I/O systems like those at the City of Sacramento and Miami-Dade County Water and Sewer.
- Over 15 million people depend on VTScada for 911 emergency response.
- More than 30% of North Sea production oil is monitored by VTScada.
- Our free 50 tag VTScadaLIGHT license released in 2017 has over 10,000 installations in 100 countries.

Industries of Focus

- Water/Wastewater
- Power Generation
- Manufacturing
- Agriculture
- Oil and Gas
- Airport Systems
- Food and Beverage
- Tank Farm Monitoring
- Broadcasting
- Marine
- Flood Control
- Power Transmission
- Power Distribution

Trihedral Engineering Services



Trihedral employs a permanent team of engineers, certified technologists, and scientists, many with more than 25 years of experience in the automation industry. They provide detailed control system design and implementation services across industries that include oil and gas, water and wastewater, power generation, marine, manufacturing, and broadcasting. Applications range from small control panel designs to massive, distributed SCADA systems.

Our clients include some of the largest and most advanced SCADA users in the world, including major water and wastewater utilities, national broadcasters, province-wide power companies, and international oil and gas producers. Additionally, the team supplies premium support services to our global network of customers, system Integrators, and OEM solution providers. Since they have extensive experience configuring a variety of industry-standard PLC and RTU hardware, they are also responsible for developing and maintaining VTScada's built-in library of standard and proprietary communication drivers.

Outstanding Support is a Phone Call Away

SCADA systems are complex and unique to each customer; often developing over decades. Maximizing uptime requires a solid relationship with professionals who have a strong knowledge of the automation industry and a specific understanding of their customer's systems. The team includes over 40 developers, programmers, and engineers who provide 8/5 and 24/7 technical assistance to end users, integrators, and OEM partners with up-to-date support contracts. Though we guarantee next day response, most support calls are answered immediately. As of April 2019, we can provide business hour support to customers on the west coast of North America from our Calgary office.

Awards and Recognitions

2023 – Frost & Sullivan's Best Practice Award – Global SCADA Solutions Customer Value Leadership Award
2023 – Bronze Winner for Control Engineering Product of the Year – SCADA / HMI Software
2023 – Finalist for Plant Engineering Product of the Year – SCADA / HMI Software
2023 – Finalist for Consulting and Specifying Engineer Product of the Year – SCADA / HMI Software
2022 – Frost & Sullivan's Global Technology Innovation Leadership Award for SCADA and HMI Systems – Winner
2021 – Control Engineering Engineers' Choice Award - HMI Software Category – Winner
2020 – Plant Engineering 2020 Product of the Year "Automation & Controls" Category – Silver Award
2020 – Oil & Gas Engineering Product of the Year - IIoT & Process Control Category – Silver Award
2018 – Water's Next Awards - Project/Technology Drinking Water category from Water Canada - Winner
2018 – Named among Canada's Top Small & Medium Employers, by Canada's Top 100 Employers
2018 – Control Engineering Engineers' Choice Award, HMI Category - Honorable Mention
2017 – Plant Engineering, Product of the Year – Automation and Controls Category - Silver Award
2017 – Ernst & Young, Entrepreneurs of the Year, IT Category, Atlantic Canadian Region: Glenn Wadden and Barry Baker
2017 – Control Engineering Engineers' Choice Award, HMI Category - Honorable Mention
2017 – Best ISA Whitepaper: Industrial and Automation Communication Protocols in the Age of IIoT - 2nd Prize
2016 – Best ISA White Paper: Alarm Management and Reliable Architecture for Utility-wide SCADA Systems – Best Presentation
2015 – Control Engineering Engineers' Choice Award, HMI Category - Winner
2015 – Best ISA Whitepaper: All Aboard the SCADA Mothership - Best Presentation,
2014 – Best ISA Whitepaper: Managing Complexity Minimizing Risk - Honorable Mention
2013 – Best ISA Whitepaper: Reinventing the SCADA Historian - Best Presentation
2012 – Best ISA Whitepaper: Asset Tracking Version Control - Honorable Mention
2012 and 2013 – Atlantic Canada's Top Employer
2007 to 2013 – Nova Scotia's Top Employer

Try a Free Version of Our Award-Winning Software

Perfect for small industrial and personal applications with up to 50 I/O, VTScadaLIGHT provides powerful monitoring and control capabilities for your automation projects. Pros and hobbyists alike will love its built-in features and easy learning curve.

VTScada.com/trial

Live Demos from Our Sales Team

"Yours was the only presentation that didn't run on PowerPoint." – City of Sacramento, CA

Each of our salespeople are happy and qualified to give you and your team a live demo of a running VTScada application either in person or online. You can also receive a tour at our tradeshow booth at major conferences like AWWA ACE, WEFTEC, and DistribuTech as well as at regional shows across North America.

Visit VTScada.com/contact-us to find a salesperson in your area or write us at sales@trihedral.com to begin the conversation.