MDplc automation platform for CGI RTUs

CGI

The MDplc IEC 61131-3 editor is an intuitive and powerful development environment allowing you to develop your applications as easily and efficiently as possible.

Bringing the power of IEC 61131-3 programming languages to CGI RTUs, providing engineers with intuitive tools for programming, simulation and integration. This simplifies engineering processes, accelerates deployments and helps future-proof automation by using standardised languages.

Overview

The industry has long used IEC 61131-3 programming standards and languages to configure and deploy RTU applications.

With MDplc, these standard languages are combined with an integrated development environment (IDE) workbench to form the automation platform. CGI's real-time distributed database and sequential logic control can also be integrated, enabling users to select the configuration that best suits their application.

MDplc features

MDplc provides a modern, fully featured programming and configuration environment, including:

- **Multi-language PLC programming** – IEC 61131-3 compliant (LD, FBD, ST, SFC, STL)

- **Backward compatibility** – protects existing CGI RTU investments and client IP

- **Simulation & debugging tools** – test logic offline, step through execution and reduce commissioning risks

- **Protocol integration** – DNP3, Modbus, and others available on client request

- **Powerful engineering environment** – drag-and-drop function blocks, auto I/O variable naming, project templates, and built-in help support

- **User interface** – support for the CGI browser-based WebHMI

- **Libraries** – reusable libraries can be developed and deployed across multiple projects

- **Peer-to-peer communications** – built-in data transfer between peers

Business benefits

- **Familiar environment** - IEC 61131-3 multi-language support, lowers training needs and speeds adoption

- **Backward compatible** - Seamless integration and compatibility with existing RTU databases

- **Faster engineering** - Drag-and-drop logic, simulation, and debugging cut development and commissioning time

- **Higher reliability** - Real-time testing and diagnostics reduce downtime and simplify maintenance

- **Connected** - Built-in DNP3, Modbus, and extensible protocol support

- **Secure** - Sits within the security framework principles (Secure by Design) of the RTU

- **Scalable** - Modular, extensible design adapts easily as operational needs grow

- **Open, portable and future-proof** – IEC 61131-10 compliant, supports project exchange and avoids vendor lock-in

- **Proven** - Built on the STRATON kernel and IDE (https://straton-plc.com/en/product)

Security

Positioned within the RTU's 'secure by design' and 'secure by default' architecture, with strong TLS/SSL authentication, encryption and integrity measures.
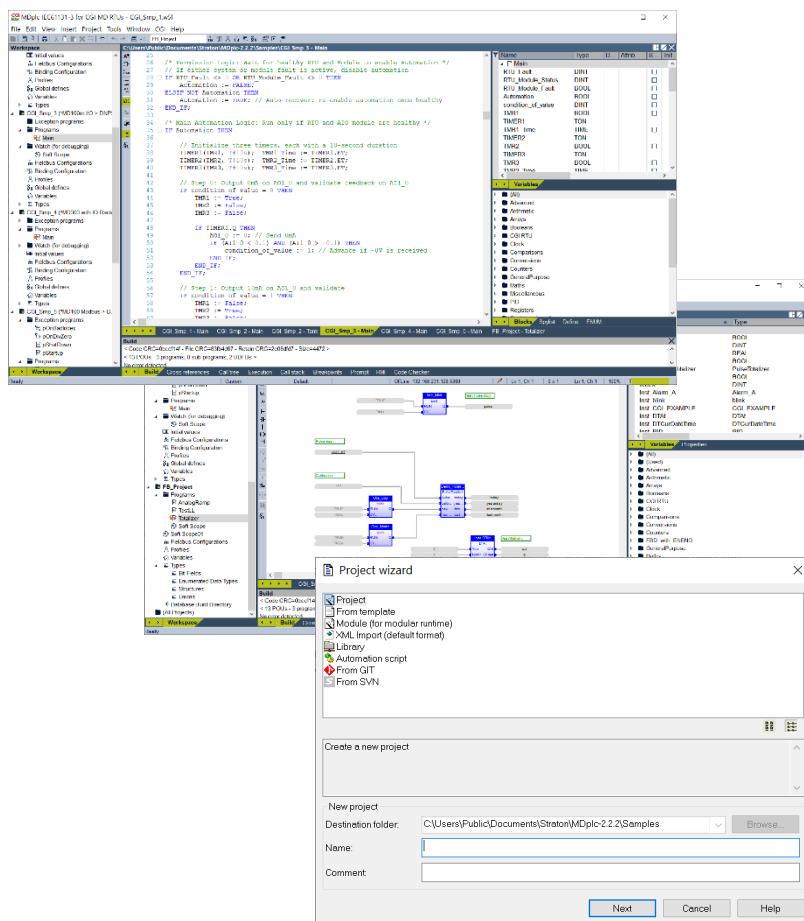
Industry use

- Energy & substation automation
- Transmission & distribution
- Renewables (solar & wind)
- Water & wastewater
- Oil, gas & mining
- Road & traffic signaling

Why Choose MDplc

MDplc is a proven CGI platform that builds on STRATON AUTOMATION's 20+ years of experience delivering embedded industrial control systems globally – supporting both new RTU deployments and the modernisation of existing systems.

- Industry-standard environment
- Locally supported in Australia
- Rapid application deployment

CGI support

- Pre-integrated with CGI MD series RTUs
- Simple installer, integrated help, tools and sample projects
- Ongoing support and custom feature development
- Australian-based support and development team, with direct access to experts

About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

CGI works collaboratively with our clients and is committed to the continuous improvement of the design and performance of CGI's products. While every effort is made to ensure the information provided in this brochure is accurate, specifications are subject to change without notice.

Contact us

Discover how MDplc simplifies automation and accelerates results

For more information
Visit cgi.com/au
Email us at sales.aus@cgi.com