

CIMPLICITY 2022 from GE Digital



Precisely monitor and control every aspect of industrial operations with centralized, remote & mobile innovation

Enable centralized, remote and mobile operations to increase efficiency and uptime

As a proven automation platform, CIMPLICITY from GE Digital provides true client/server visualization and control – from single machines to plant locations spanning the world – helping you manage your operations and improve decision-making.

Based on decades of research and development and part of the Proficy family from GE Digital, CIMPLICITY is the HMI/SCADA of choice for the world's largest manufacturers and utilities. For applications of all sizes, CIMPLICITY can help deliver faster response, reduced costs, and increased profitability.

Integrating with Proficy Operations Hub, CIMPLICITY facilitates centralized, remote and mobile operations to enable improved access to information and control to support site management, increasing efficiency and reducing downtime. Our new Version 2022 features support for Python scripting, reduced hardware costs through cloud infrastructures, improved alarm visualization for earlier detection and resolution, and more.

Outcomes

- Speed problem detection and response with ISA and GE research-based design concepts for High Performance HMI
- Reduce time-to-value with Rapid Application Development tools including SCADA web configuration and object-oriented design
- Improve decision-making with richer information in context, supported by modeled data
- Reduce threat of cyber attacks with certificate-based communications and secure configuration guidance (Achilles Practices/IEC 62443)
- Minimize maintenance time and costs with zero deployment clients
- Enable superior design flexibility for consumption of third-party HTML5 content
- Boost security and reliability with the latest operating system and database updates, including Microsoft Windows Server 2019 support

01 Decrease operator response time and errors with High Performance HMI/SCADA

CIMPLICITY changes the HMI experience to enable decision support for the user. The overall HMI layout is designed to provide users with the most informed, personalized view of the problem or task at hand – for faster response and fewer errors. Additionally, sophisticated alarm management and escalation capabilities can assist operators to see and act on the alarms that matter, improving efficiency and reducing risk.

02 Drive faster time-to-value with Rapid Application Development (RAD) tools

Deploy solutions faster with powerful new RAD tools including OPC UA auto-discovery, which significantly speeds database creation from OPC UA data sources. CIMPLICITY also introduces a Classes/Objects browser for animations and expressions and improves Smart Object building capabilities with enhancements to reduce or eliminate scripting. With CIMPLICITY, you can employ object-oriented design for easy repeatability and faster time-to-value through modeled context. You can use classes and objects to build a structured database quickly. Modeling capabilities in CIMPLICITY allow you to create templated applications for repeatable assets, further speeding configuration.

03 Achieve visualization where you need it

CIMPLICITY screens through Proficy Operations Hub and Webspaces are full HTML5 compliant and support responsive design concepts. The displays support multi-touch and scale to various form factors and orientations where the HMI will be viewed from small to large screens.

04 Leverage standards for IoT interoperability

CIMPLICITY delivers a standards-based open ecosystem for superior interoperability and the foundation for IoT. CIMPLICITY reflects GE Digital's commitment to OPC UA, ISA 18.2, ISA 101, and more.



With thousands of installations, CIMPLICITY offers trusted performance, reliability, one of the richest HMI/SCADA feature sets, and edge-to-cloud innovation from GE Digital.

05 Improve connectivity, security, and reliability across your entire operations

With OPC UA Server support for modeled data, CIMPLICITY helps you aggregate systems for a single connection to your SCADA and consolidated views. Additionally, CIMPLICITY's Global Discovery Server reduces threats from cyber attacks with overall certificate-based communication. Robust coding practices and secure configuration guidance (Achilles Practices/IEC 62443) make CIMPLICITY the SCADA of choice to help meet the most demanding security requirements.

"Using GE Digital's software has enabled us to demonstrably increase productivity and significantly improve the process quality. The software facilitates the daily work of our staff."

Martin Siegenthaler, Process Automation and System Support, Blaser Swisslube AG

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Features

New in Version 2022

Reduce time to solution

- Python scripting, extensibility and ease of use for System Integrators
- Enable analytics through SCADA data and Python libraries (e.g. Pandas)

Reduce total cost of ownership

- Reduced hardware costs through cloud infrastructure (Azure VM, AWS VM and hybrid cloud)
- Centralize operations and facilitate remote access using cloud infrastructure

Empower the Connected Worker

- Improved alarm visualization for earlier detection and resolution:
 - Early detection of problem areas in the plant through alarm counters by areas, devices, etc.
 - Faster resolutions of abnormal situations through collaboration via a real-time comment feed

Proven, Multi-Purpose HMI/SCADA used by Thousands of Industrial Organizations Globally

Efficient Operations

- Alarm management and escalation
- Trending
- Action Calendar
- SPC, eSignature / Change Approval, recipes, incident playback (DGR)
- Device connectivity
- High availability and redundancy

Powerful Development Tools

- Design library
- Database model-based design (Classes/Objects)
- Extensibility (VB, .NET, Rich APIs)
- Open standards (ISA, IEC, OPC)

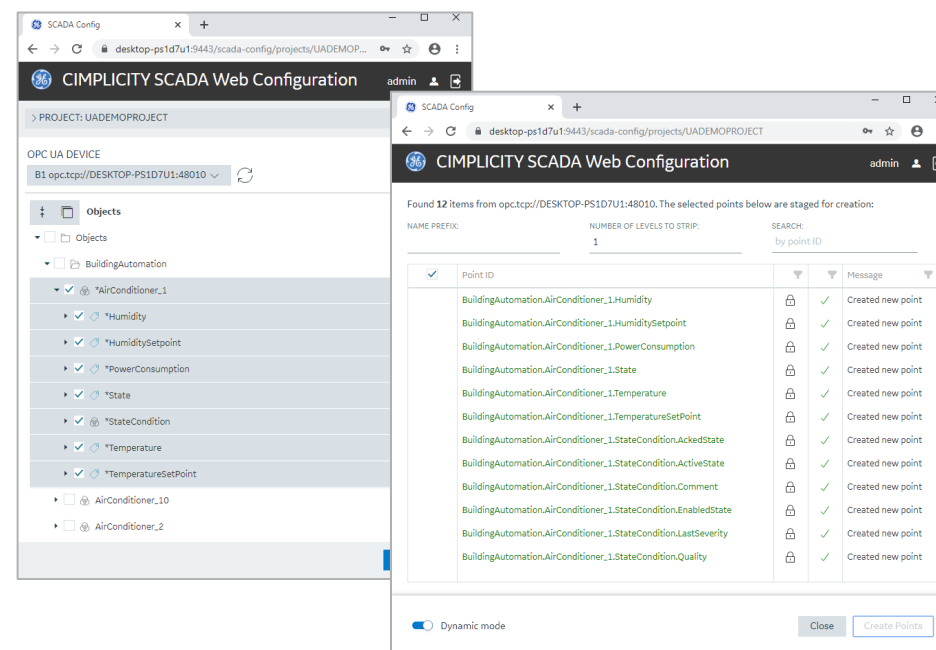
Highly Scalable

- Small systems to large (>500K) point count
- Enterprise server

Other Features

- High Performance HMI for efficiency
 - Never start with a blank sheet of paper, improve efficiency by starting with a model
 - Native Web HMI structured asset model mapped to CIMPLICITY's objects and classes
 - OPC UA for structured data and secure-by-design interoperability, including the OPC UA server for consolidated data in context to the model with certificate management
 - High availability: Host redundancy, Windows cluster support, dynamic configuration and dynamic change support, support for high availability hardware, system health parameters, System Sentry
 - Secure by design: Secure Configuration Guide (Achilles Practices/IEC 62443), Global Discovery Server and certificate management
 - Local, remote over LAN, WAN, or Internet connections including VPN
 - Tracker, HMI for CNC, iPower, Building Management / Energy Management, Batch Execution
- Flexible clients: scalable screens, viewer, advanced viewer, Proficy Operations Hub, Proficy WebSpace, terminal services, broadcast option, QuickPanel XP
 - Leverage over 70 basic drivers with our Industrial Gateway Server (IGS) option
 - [Proficy Operations Hub](#) integration: publish model and mimics from CIMPLICITY, build new Web-based mimics by browsing data
 - Marquee and Marquee Manager
 - Integrator Toolkit
 - Best-in-class and fully integrated optional solutions
 - [Proficy Historian Essentials](#), permanent storage of time-series data generated by your SCADA system
 - [WIN-911 Essentials](#) industry-leading alarm notification
 - [Proficy WebSpace](#), providing your native CIMPLICITY HMI operator experience in a Web browser
 - [Dream Report for Proficy](#), industry-leading reporting and dashboards to improve performance

With CIMPLICITY, you can significantly reduce development time on database creation from OPC UA data sources.



Please consult the [product documentation](#) for Hardware and Software Requirements.

Improve your efficiency with the High Performance HMI and SCADA capabilities in CIMPLICITY. With the latest innovation in HMI designs for efficiency, your operators can quickly identify problems and causes for a fast resolution.

LEARN MORE

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Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

[Advisory Services](#) We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

[Managed Services](#) We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive analytic technology.

[Implementation Services](#) Our experienced global Automation partners can implement a collaborative, multi-generational program that marries your existing investments to the right enhancements and technology.

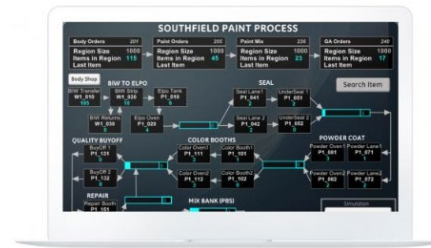
[Education Services](#) We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

[Acceleration Plans](#) Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

[Security Services](#) Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Unified and Integrated Proficy Products for Your Digital Transformation Journey

GE Digital's unified and integrated Proficy suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster. Transforming your business requires foundational innovations that lay the groundwork for future success.



Tracker

Accelerate time-to-market and improve just-in-sequence performance at global scale.



Proficy Operations Hub

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.



Proficy Historian

Optimize asset and plant performance through time-series and A/E industrial data collection and aggregation. Improve decision-making with advanced trend analysis.



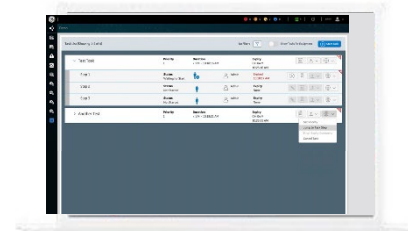
Dream Report

Powerful reporting to help you improve performance and meet operational goals.



Proficy Plant Applications

Maximize overall equipment effectiveness (OEE), improve production scheduling, and ensure product quality by leveraging real time production data.



Proficy Workflow

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.



iPower

Achieve safer operations and efficient network management. iPower is electric utility SCADA made easy!

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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