

# Proficy HMI/SCADA – CIMPLICITY

Maximizing the power of your information, Proficy HMI/SCADA - CIMPLICITY helps you visualize plant floor operations, perform supervisory automation and deliver reliable production data to higher-level analytic applications.

## KEY TECHNICAL BENEFITS

Easy application development and deployment

Seamless scalability with a true client/server architecture

Tight integration with Proficy software suite

Open system design to protect your current investments

Change-based execution architecture

CIMPLICITY is a client/server based HMI/SCADA solution that collects and shares real-time and historical data across all business levels and provides actionable visibility to monitor and control plant processes, equipment and resources.

Its process visualization, data acquisition and supervisory control provide a solid and reliable data foundation for digitized operations management.

CIMPLICITY provides operators and engineers with the power and security to precisely monitor and control every aspect of their manufacturing environment, equipment and resources. The result is a faster response to equipment operation issues—enabling

reduced waste, improved quality, faster time-to-market and increased profitability.

## FEATURES AND FUNCTIONS

### Flexibility and Scalability

CIMPLICITY is highly flexible and can be applied as a small solution or can be architected to provide a high-performance enterprise solution.

### → The Proficy HMI/SCADA –

**CIMPLICITY Viewer** is the standard CIMPLICITY client. Serving as a traditional PC-based client, it is installed locally and accesses data from a local or remote server. Applications you can run include real-time graphics, trending, alarming and reporting. A CIMPLICITY Development Viewer option

allows users to perform development online, including building graphics and adding points to local or distributed servers.

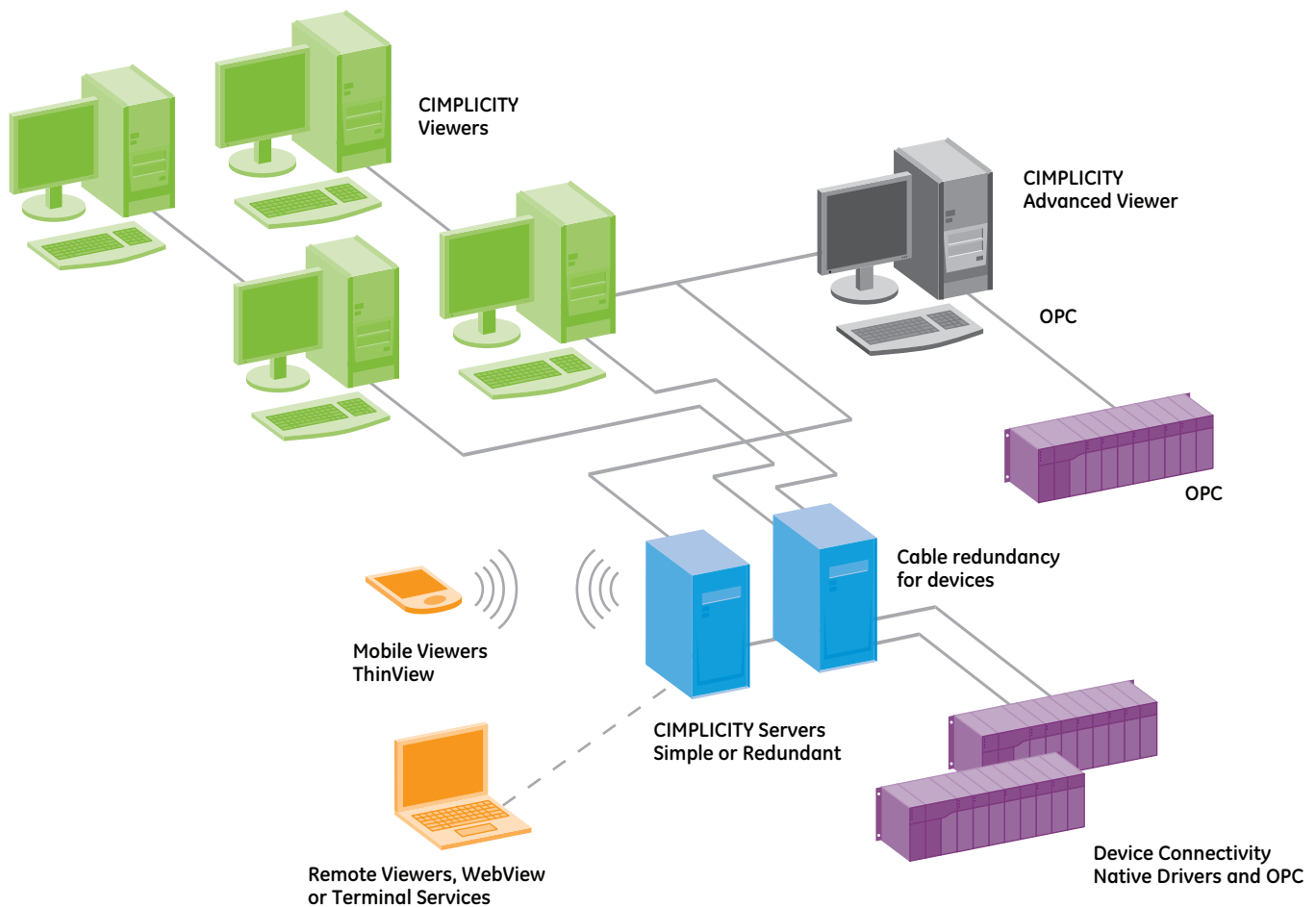
### → CIMPLICITY Advanced

**Viewer** is an option on the CIMPLICITY Viewer that offers direct connection to OPC data sources—allowing for point solutions and the ability to visualize OPC data without configuring the server.

### → Proficy HMI/SCADA –

**CIMPLICITY WebView** is a thin CIMPLICITY client solution for distributing information to many users—enabling you to send CIMPLICITY information and view operator screens over the Internet or Intranet with no Internet server setup or deployment effort.





CIMPLICITY is a highly scalable solution that can run in a simple or redundant architecture with a wide variety of viewer or client options to offer flexibility when architecting your solution, providing you with more control over how and where you view your data.

→ **Proficy HMI/SCADA – CIMPLICITY ThinView** is a CIMPLICITY client solution that allows you to display CIMPLICITY screens on a PDA or smart phone device, providing the ultimate in remote viewing capability.

→ **Proficy HMI/SCADA – CIMPLICITY Terminal Server Viewer** is a thin client and web solution that uses the Microsoft Terminal Server technology and provides the capabilities of a standard CIMPLICITY Viewer—providing users with complete

access to their screens and the CIMPLICITY Server with full use of CIMPLICITY Viewer technology, ActiveX controls and third-party content.

**Development Productivity – Reduced Time to Solution**  
CIMPLICITY comes with a powerful set of development tools and capabilities to help you build your application quickly and easily.

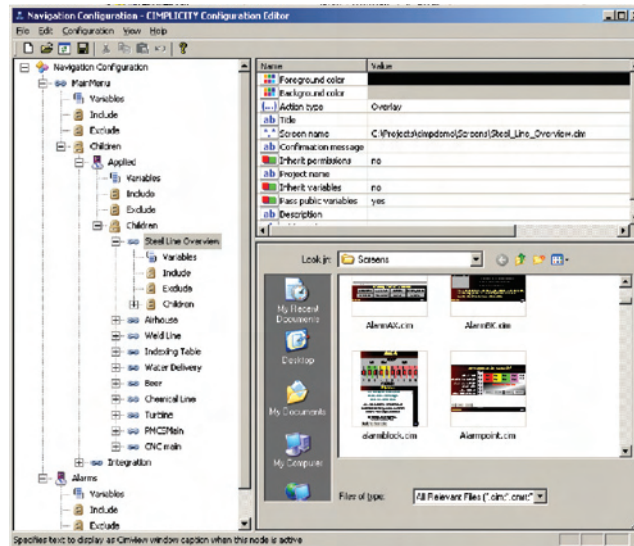
→ **Application Wizard** guides you through the steps of getting started with your new ap-

plication so you don't need to start with a blank page, saving you hours of setup time.

→ **Screen Navigation** helps operators easily locate the correct screens. Using a drag-and-drop interface, you can create a hierarchical menu that appears in your tool bar, and colors and fonts can be configured so that screens can follow themes.

“ Dell needs a measure of closed-loop control, but the business logic is too complex to reside completely within the SCADA layer. CIMPLICITY had the components to meet the challenge. ”

Richard Brown  
Development Manager, Dell Global  
Manufacturing, Finance,  
and Supply Chain



You can easily create navigation menus for your application.

Powerful APIs allow you to develop your own direct interfaces with the data and alarm information collected, managed, and maintained by CIMPLICITY. This design provides seamless integration of custom or third-party applications.

→ **Scalable Screens** allow you to modify dimensions of the CIMPLICITY screens without re-drawing graphics. CIMView will scale the screens for various devices, so you don't need to develop new screens for different display sizes.

→ **Symbols and Objects Library** features an extensive library of symbols, along with the powerful SmartObjects feature that allows for easy application creation and maintenance. With SmartObjects, you can create your own custom objects and easily drag and drop them into the screens.

→ **Powerful Object Model** provides an external interface to CIMEdit and CIMView to extend the capabilities of the system. You can drive behavior through a powerful API to integrate with ERP and other external systems.

→ **Scripting** extends CIMPLICITY capabilities and tailors the individual applications according to specific needs. Scripts can be executed based on process events such as changing the value of a point, a specific alarm state or can be based on time of day.

→ **Linked Objects** allow you to create master objects as templates and have those objects created and used identically on multiple screens. The objects can contain graphics and scripts and are linked to the master object—automatically replicating when changes are made to the master.

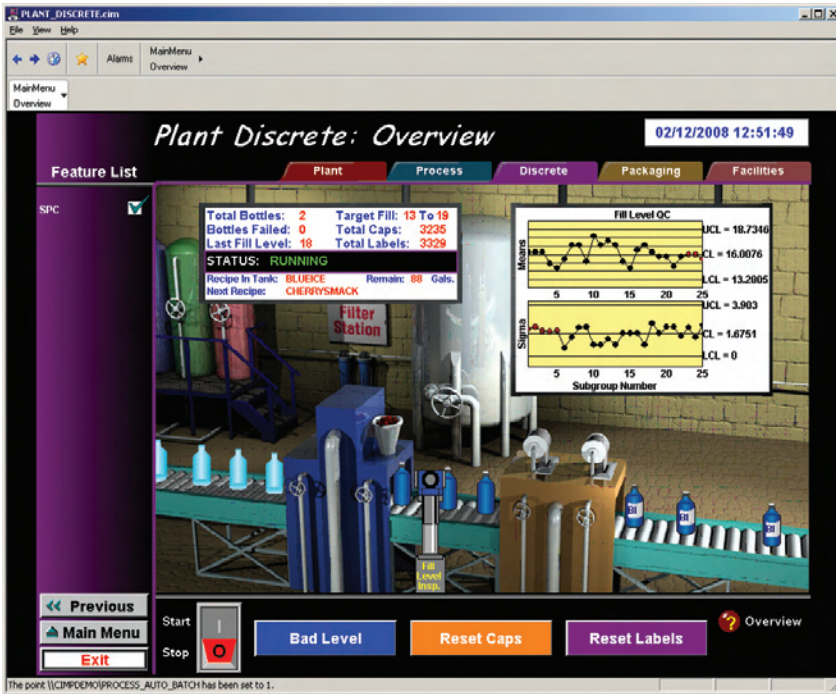
→ **System Points** provide pre-defined information for your applications such as project and computer information, date and time, and alarms.

→ **Dynamic Measurement Systems** enable you to develop projects and dynamically switch between different measurement systems with a simple point and click.

→ **Dynamic Screen Localization** enables a CIMPLICITY application to be adapted to accommodate multiple users who speak different languages.

→ **Alarm Viewer** is an ActiveX object that can be embedded into screens to create a single, seamless interface for your process.

**Ease of Commissioning** Once your project is developed, the next task is going live with it. CIMPLICITY offers tools for deploying and troubleshooting during the critical commissioning phase.



CIMPLICITY offers a variety of value-adding options such as SPC charts to monitor process quality.

→ **Deployment Server**

eliminates the need to manually copy the application files to the viewers, as updated application files can be placed in the application server, and the viewers will automatically detect changes and update the files without user interaction. Running viewers will have the option to update live displays automatically or ask the operator when to update.

→ **Point Control Panel** allows you to verify the data collec-

tion and alarm configuration of your system without configuring a single graphics screen.

→ **Point Cross Reference**

enables you to easily locate where various point data is being used to facilitate troubleshooting your application.

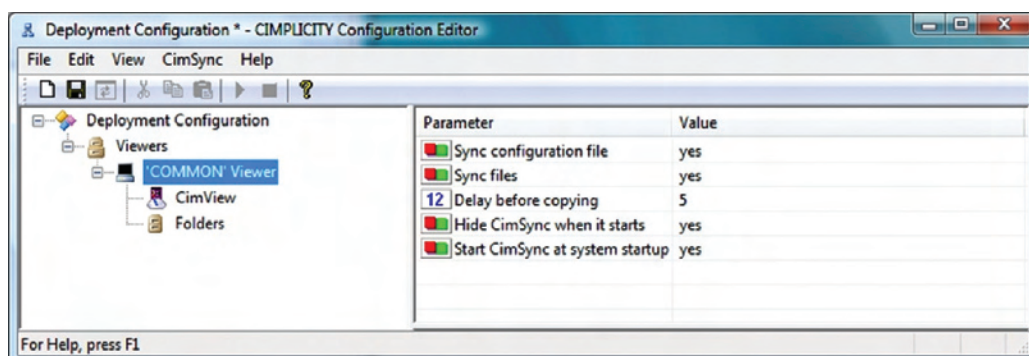
**Operational Productivity and Process Improvement**

→ **Database Logger** provides the ability to choose how and where you want to store your critical and valuable produc-

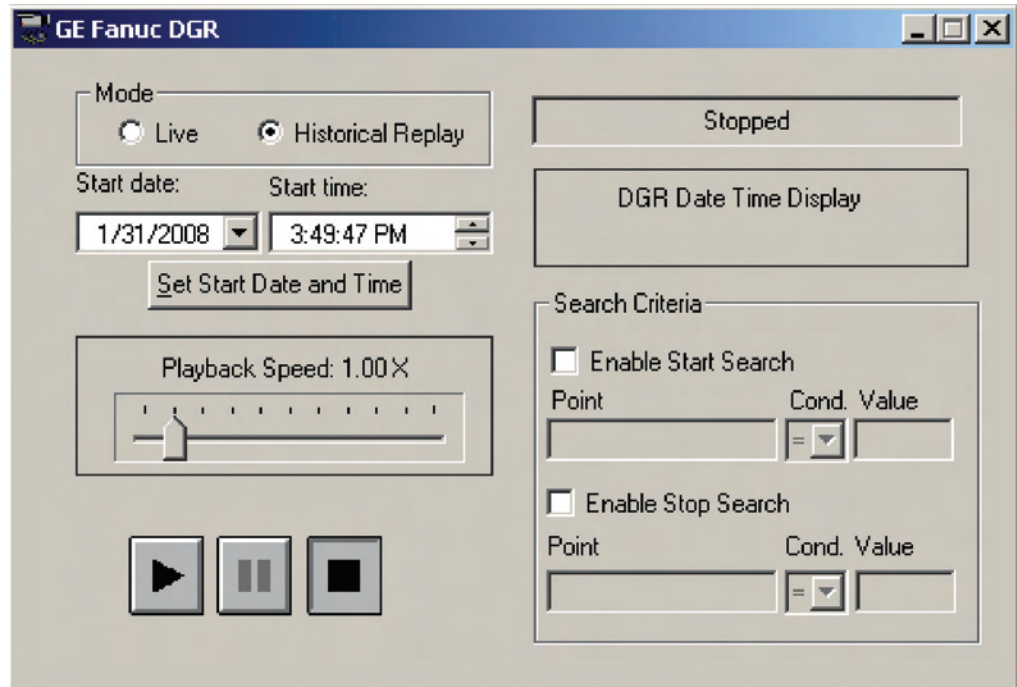
tion and process information. CIMPLICITY supports logging to Proficy Historian, Proficy SQL, Microsoft SQL and Oracle.

→ **Trending** allows you to analyze data collected by the CIMPLICITY system or other third-party software packages. You can compare current trends with historical trends to quickly identify and correct process malfunctions; Quick-trends provide a fast, easy way to select any point and trend it with no configuration.

CIMPLICITY provides superior reliability and availability for the most demanding industrial applications—maximizing uptime and continuous control for increased productivity and profitability.



Deploy changes quickly and easily with CIMPLICITY's Deployment tool.



A powerful troubleshooting tool, DGR allows you to play back from a point in time, or you can have the DGR search for conditions in the data and automatically set start and stop times based on those settings to determine the cause of events.

→ **Digital Graphical Replay (DGR)** lets you go back in time and graphically analyze events that occurred in the past. Using data that is logged in Proficy Historian or SQL Server, you can replay graphical screens to determine the cause of events or alarms.

→ **Statistical Process Control (SPC)** provides tools for data measurement and analysis, as well as process improvements and quality control. Collect data from sensors or manual input, receive alerts for problem conditions (i.e., out of control) and use analysis tools to pinpoint the problem.

**Reliability, High Availability and Performance**

→ **Powerful Data Collection** enables you to connect to hundreds of other systems and devices. Through native drivers and standard communication interfaces such as OPC, you

can collect data from virtually any third-party device.

→ **Change-Based Execution Architecture** enables you to acquire data from field devices (either polled or via unsolicited communications), perform database math and logic, archive data, network data and run scripts—all based on change—unlike other products that offer a scanned execution environment.

→ **CIMPLICITY Host Redundancy** provides for the failover from a primary computer to a secondary computer in case the primary computer fails, supporting redundancy at several levels to minimize the effect of any failure.

→ **Dynamic Configuration** allows you to make changes, modifications and updates to running CIMPLICITY projects without shutting down.

→ **Change Management** increases the security of your system, provides you with revision control of your projects and offers powerful disaster recovery capabilities.

→ **Action Calendar** gives you the power to create, maintain and execute a calendar schedule of manufacturing events and corresponding actions. This allows controlling lights, heat and equipment based on a pre-defined schedule.

→ **System Sentry** provides real-time information about the health of the computers and the CIMPLICITY application within a network—immediately alerting you to problem conditions and providing tools to pinpoint the cause. ●