CIMPLICITY is one of the most powerful and technically advanced HMI/SCADA products on the market today. With over 100,000 implementations, our customers have proven that it can solve the toughest supervisory monitoring and control needs. Whether discrete, process, or just plain system monitoring, it’s open, flexible, and easy to use design means that it will save you money upon implementation and reduce your operational and maintenance costs as well.

Control engineers will enjoy reduced development costs, lower project life-cycle costs, and faster and easier application development. For the plant manager, CIMPLICITY provides reliable, real-time information about your plant and process to help you make more productive decisions. And for IT/MIS professionals, CIMPLICITY provides a powerful connection that seamlessly integrates operational and IT systems, allowing you to better manage your infrastructure while increasing your return on investment.
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Discover the Power of CIMPLICITY

Connecting at Every Level
CIMPLICITY integrates with the complete Proficy family of software products providing you a single solution from the plant floor to the enterprise level. GE Fanuc also understands that you cannot afford to “rip and replace” your existing systems, so it has designed CIMPLICITY with an open architecture to enable it to mesh seamlessly with your existing systems as well.

Proficy Family Integration

Historian
CIMPLICITY now uses Historian as its default logging destination. Historian provides superior performance for the storage and retrieval of your process and production information. CIMPLICITY still supports logging to SQL and Oracle, and in fact, supports logging to both Historian and these traditional destinations at the same time, putting the decision of moving your systems forward in your hands, and at your pace.

Change Management
Unique to the industry, GE Fanuc has integrated its Change Management product with CIMPLICITY to increase the security of your system and provide you with revision control of your projects. Now you can check out and check in files, roll back to known configuration, and track who has made what changes to the system. Change Management also provides you with powerful disaster recovery capabilities allowing you to restore your system to a known working point in the event of a computer failure. When you consider what downtime can cost you, this combination of Change Management and CIMPLICITY provides valuable insurance and peace of mind.

Portal
GE Fanuc’s Portal product provides the ability to perform analysis on the data that your HMI/SCADA systems generate. Enhancements have been made that now allow you to host Portal screens within your CIMPLICITY screens, or CIMPLICITY screens within your Portal screens.

View – Machine Edition
CIMPLICITY can easily integrate with View nodes to exchange points and alarms. An enhancement was added to 7.0 to allow View array points to be mapped to CIMPLICITY array points.
True Client/Server Architecture

CIMPLICITY provides a faster and easier way to implement, maintain and grow your automation system with a true client/server architecture. Comprised of two main components, high performance servers and flexible viewers, this efficient architecture is scalable from a single-node HMI to a multi-node, networked system.

You can start small, and then easily add servers and viewers without having to replicate your point database from node to node. This significantly reduces the time and effort required to implement and maintain a system.

CIMPLICITY Servers collect and distribute your system data. They seamlessly share data while providing users with a real-time view of the processes being monitored.

CIMPLICITY Viewers allow users to view and interact with the data distributed by the server, plus perform control actions.

CIMPLICITY Thin Clients (WebView and Terminal Services) allow users to access screens and information without the need for installing CIMPLICITY on their computers.

Benefits of CIMPLICITY’s Client/Server Architecture
• 100% data integrity
• Complete scalability for easy system expansion
• Lower maintenance costs
• Real-time data for viewers
Overview

CIMPLICITY Product Overview

Easy To Use
CIMPLICITY is a very easy-to-use supervisory monitoring and control software product. It consolidates the collection of data from your facility’s sensors and devices, and then transforms the data into dynamic text, alarm and graphic displays. It gives you access to real-time information, helping you make appropriate decisions to improve quality, productivity and, ultimately, profitability.

Advanced Technology Protects Your Investment
CIMPLICITY is one of the most technologically advanced, open-systems-designed HMI/SCADA products available today. Many of the true client/server, multi-tasking, multi-user design principles incorporated into the product can be traced back to its earliest origins as a VMS and UNIX based product. While many of the competitive products on the market grew out of the single user DOS world, and still have inherent design restrictions in them because of that past, CIMPICLITY was designed from the ground up to operate in complex, multi-user facilities. From a technology position, CIMPICLITY holds a spot that many competitors are trying to aspire to still today. CIMPICLITY’s advanced technology means your investment will serve you well today, and well into the future.

“In the early 1990s, Saturn® made the leap to PCs and the still new Windows NT® operating system in its manufacturing and assembly plant. This meant working with GE Fanuc to move CIMPICLITY to Windows NT®, as well as giving Microsoft® an education in what an operating system needed to do in a complex manufacturing environment.”

Bill Gates
Excerpt from the Best Seller:
BUSINESS @ THE SPEED OF THOUGHT
Using a Digital Nervous System
by Bill Gates with Collins Hemingway
Warner Books, Inc., NY, NY
© Copyright 1999

Microsoft Certified Gold Partner
As a Microsoft Certified Gold Partner and a member of the Microsoft Developers Network, GE Fanuc takes full advantage of the latest Microsoft technologies. By keeping current with new Microsoft technologies, GE Fanuc provides the best client/server architecture available and a strong foundation that assures your system will be able to accommodate technology changes.

Product Structure

I/O Count
CIMPLICITY is available in 50 (non-networked), 75, 150, 300, 700, 35,000 and unlimited I/O count servers. I/O count is based on actual device points collected by the node. Virtual points (points which reside in the computer’s memory) are not counted. For added flexibility, any CIMPLICITY system can access points from another system. Points accessed from other systems do not count towards the total I/O count. Viewers do not directly collect I/O and there is no limit to the number of points they can display.

Development and Runtime Systems
Development systems allow you to design, create and run new projects. Runtime systems allow you to run projects created by development systems.

What Type of System Do I Need?

CIMPLICITY Development Servers
If you are a first-time customer, you’ll need to start with a CIMPLICITY Development Server to develop or modify your project and application. For a single-node application, a Development Server is all you need; this server can even run your project.

CIMPLICITY Runtime Servers
If you have several areas or applications, you can create or modify them on a Development Server, then deploy them on Runtime Servers. Runtime Servers let you run copies of projects that were created on a Development Server and are ideal for OEMs and users with multi-node systems.

CIMPLICITY Viewers
If you want to add users to your system, you need CIMPLICITY Viewers. You must have a CIMPLICITY Server before you consider the purchase of Viewers. Viewers receive data from CIMPLICITY Servers.

CIMPLICITY Development Viewers
If you want to modify an existing project without physically going to the Development Server, choose CIMPLICITY Development Viewers. You cannot create a project with just a Development Viewer. You must have a Development Server to create your initial project and application.

CIMPLICITY Thin Clients
If you want allow users access to your CIMPLICITY screens with the latest thin client technologies, then WebView or Terminal Services is the solution you should consider. With these two products you do not need to have CIMPLICITY loaded on the client computer. WebView allows bidirectional interaction with screens. Terminal Services provides full access including remote development and maintenance support.
CIMPLICITY Workbench

Exclusive features that make developing and maintaining your applications easier than ever

The Workbench provides an integrated development environment that supports the tools and options of CIMPLICITY. This environment can significantly reduce your integration time, resulting in lower project implementation and maintenance costs.

Workbench
Patterned after the Microsoft Windows Explorer, the Workbench gives you a new perspective on your configuration, with power and flexibility. The Workbench window is divided into two panes. On the left is a folder/file tree that contains the various tools and product options. By clicking on a folder or option on the left, you can view the corresponding configuration items on the right. The hierarchy of objects and folders on the left is designed to help you organize your tools into groups.

For example, the Devices and Ports associated with Device Communications are logically grouped into a single folder. Once these are configured, you may never need those tools again. You can close that sub-tree and put them away.

Drag-and-Drop
With the Workbench’s drag-and-drop capabilities, developing, testing and maintaining your projects have never been easier. You can simply drag points of interest from your list of configured points, and then drop them into your screens or the CIMPLICITY Point Control Panel, or Trend Chart. You can create a Quick Trend using simple drag-and-drop.

CIMPLICITY Benefits
- Easy to use
- Significantly reduced integration time
- Lower project implementation and maintenance costs
- Greater power and flexibility overall
- Simple point configuration
- Fast, efficient creation and integration of applications
- Easy project testing, development and maintenance

Ease-of-Use Features:
- Drag-and-Drop Capabilities
- Object-Oriented Graphics
- Basic and Advanced Point Configuration
- Pop-Up Tool Tips
Basic/Advanced Point Configuration
The power of CIMPLICITY can sometimes be overwhelming to the first-time user. The Basic/Advanced Point Configuration feature helps you harness this power according to your needs by letting you toggle between Basic and Advanced modes.

When you toggle over to Basic mode you’re presented with only the configuration fields that are required to collect and alarm for a point. This cuts the number of possible configuration fields you see from about 64 to 14! To get the full power of CIMPLICITY, toggle over to Advanced mode and access all the point configuration capabilities.

Progressive Disclosure
Another way to simplify Point Configuration is through Progressive Disclosure. As you enter configuration information into the displayed fields, CIMPLICITY automatically displays additional configuration fields as appropriate. For example, if you select to log information on a point, additional fields are displayed, allowing you to select logging criteria.

Intelligent Defaults
Intelligent Defaults are provided for certain configuration fields. This feature, combined with the Basic/Advanced and Progressive Disclosure features, makes configuration easier than ever.

CIMPLICITY Tools
CIMPLICITY has a comprehensive set of tools to provide you with a comprehensive monitoring and control solution. They consist of software options and ActiveX objects that provide the functionality you need to construct and integrate your most demanding applications. These work within the open system framework of CIMPLICITY and are built to the latest industry standards.
CimEdit and CimView

Discover our simple-to-use, object-oriented graphics editor and runtime viewer

The powerful, graphics runtime portion of CIMPLICITY, CimView, gives life to the features you used in CimEdit. In CimView, process information is displayed in both text and graphic formats. Alarms, video clips, pop-up windows and powerful animation features transform your process data into valuable information, helping you improve quality, productivity and profitability.

Combining industry standards with advanced user interface designs, CimEdit and CimView provide an intuitive package that makes system design, configuration and operation simple. The Windows interface allows you to be productive, right out of the box, with no complex setup, installation or programming to learn. And with crisp graphics and superior animation, CimEdit and CimView are a pleasure to work with.

CimEdit and CimView provide:

- Easy to learn and use
- Intuitive, natural operations
- Productive, right out of the box
- First ActiveX HMI graphics container
- Superior animation
- More open and adaptable
- Object oriented

CimEdit makes it easy to draw screens that accurately depict your production process. It enables you to import OLE and Windows Metafile objects, plus ActiveX objects like Trending, SPC Charts and Alarm Viewers. Third-party OLE and ActiveX objects such as Excel™ spreadsheets and charts, bitmaps, video clips and sound files can also be included.

Toolbars help you create and modify your screens. Once objects are created, they can easily be resized, rotated or moved. After the objects are placed on the screen, they can be aligned automatically with a configurable grid or in groups spaced evenly or in relation to each other.

Property Page

Double clicking on an object will bring up its property pages. These pages allow you to navigate quickly and specify animation attributes, including rotation, fill, movement, color and text annunciation, geometry, scaling, events, procedures and scripts.

Creating screens is easy with CimEdit Power Tools
CimEdit and CimView (continued)

CimEdit Features

- Interactive, dynamic configuration lets you add or modify screens or live point configuration data from anywhere within CimEdit without shutting down.
- Object Animation is provided through several features including fill, rotate, move, blink, color annunciation, and more. These can be applied independently, or combined to create the desired affect you need in your screens.
- Gradient Shading allows you to create stunning graphics easily. And the gradient shading feature is not just static – you can also have the ability to animate your graphics with gradient shading as well.
- Transparency is another advanced graphic feature you will be able to take advantage of in creating your screens.
- A Point Browser dialog box lets you access any CIMPLICITY point on the entire network and use it to animate an object.
- Frame Animation is a compound object that allows you to define a series of frames. Each frame can consist of different objects and is displayed based on the value of an expression. As a result, areas of the screen can change like a slide show.
- Metafile Import lets you copy and paste Windows Metafile objects produced by programs like AutoCAD® and PowerPoint® into CimEdit. The imported images can be decomposed into CIMPLICITY objects. They can also be fully animated, unlike bitmap imports, which remain single, static objects.
- Online Help offers comprehensive, indexed documentation, anytime.
- Object Help can be configured for any object on the screen and easily accessed at runtime by users.
- Dynamic Screen Testing enables you to test screen editing changes in CimEdit without changing your original screen. By using the test button on the standard menu bar, you can automatically start a CimView window to view your edits without committing to them.

Symbols and SmartObject Library

With an extensive library of symbols and our powerful SmartObjects feature, creating and maintaining your system is easier than ever. With SmartObjects, you create your own custom objects and easily drag-and-drop them into your screens from the CIMPLICITY Object Explorer. Once the objects are dropped, you’re automatically prompted to enter the required configuration information. You can even construct objects that automatically create a complete point configuration.

Linked Objects

When you need to use the same object on multiple screens, you can save time and money using linked objects. You can create a Master object and then drop and link it into the screens you create. Changes to the master object will be replicated to all linked objects. If you ever need to change that object or its animation, you simply modify the master and those changes will automatically be reflected throughout your system.

Linked Scripts

Scripts can be linked to objects. If you associate a script to a master object, it is replicated in all the linked objects. If you ever need to change the script, editing the master object will change all the linked objects as well.

Object Model

Using OLE automation, the Object Model offers an extensive external programming interface for CimEdit and CimView. You can automatically create and modify any screen using CimEdit features and enjoy complete control of CimView from either a script embedded in CimView or from any Visual Basic application. The Object Model greatly reduces the time required to create new systems based on design and requisition data. If many similar screens are needed, a Visual Basic program can be written to automatically generate them.

Unique to CIMPLICITY

- Objects can be aligned automatically with a configurable grid, or aligned in groups using the object alignment tools.
- Objects can be rotated.
- Objects can fill in two directions from a center point.
- Metafile import allows you to copy and paste objects from Visio, AutoCAD, PowerPoint and other applications.
- Dynamic Screen Testing lets you test screen edits without committing changes to your original screen.

Advantages

- Over 3,000 symbols† and SmartObjects included
- Easier system creation and maintenance
- Saves time and money with Linked Objects and Scripts
- Unique Object Model saves time when creating new systems

![Symbols provided by Symbol Factory™ Reichard Software Corp.](image-url)
CimView and CimView (continued)

CimView

The powerful, graphics runtime portion of CIMPLICITY, CimView, gives life to the features you used in CimEdit. In CimView, process information is displayed in both text and graphic formats. Alarms, video clips, pop-up windows and powerful animation features transform your process data into valuable information, helping you improve quality, productivity and profitability.

CimView lets you:
- View powerful graphic and text information
- Interact with CIMPLICITY ActiveX objects
- Access powerful scripts with a single keystroke or a click on an object
- Get a description of the animation and actions associated with an object—fast
- Display help text easily
- Display screens from other applications via OLE Automation
- Add smooth animation to your graphic screens
Alarm Management

The power to identify and solve potential problems before they occur

Critical in a multi-user system, CIMPLICITY Alarm Management routes alarms to the correct users. And as your system grows, it lets you sort and filter alarms by priority, the equipment they are associated with, the time they were generated, and which device generated them.

Alarm Viewer

The Alarm Viewer is an ActiveX object that can be embedded in your CimView screens to create a single, seamless interface for your process. You can view alarms from just your node or get a “global” picture by viewing alarms generated by other CIMPLICITY Servers.

Alarm Viewer supports both dynamic and static modes. Dynamic mode lets you see new alarms as they occur. Static mode lets you control the scrolling of alarms, so you can concentrate on the current situation without the screen constantly changing. Meanwhile, CIMPLICITY software continues to monitor and record all new alarm events. With a click of the mouse, your static alarm view can be updated to show current alarms.

CIMPLICITY also supports the receipt and acknowledgement of OPC Alarms and Events. With CIMPLICITY it is easy to integrate all of your alarms from across your facility to a single screen. You are instantly informed of what’s happening, so you can take quick action to correct the situation.

Alarm Blocking

This unique feature lets you create a hierarchy of alarms to display only the primary alarms, while preventing nuisance alarms from being generated. With this feature your operators can quickly act on the root cause of the alarm and not have to worry about wading through a large number of resulting alarms.

Advantages

- Static and dynamic alarm modes
- Embedded as an ActiveX object into CimView
- Supports alarm acknowledgment and deletion
- Configurable display for alarm fields
- Alarm blocking focuses on important information

Alarm management can sort and filter alarms by multiple parameters such as ID, Resource, Device, Time and Priority.
Logging Data

Easy access to the information you need for reports and applications

CIMPLICITY provides you with the ability to choose how and where you want to store your critical and valuable production and process information. CIMPLICITY supports logging to the Proficy Historian, Proficy SQL (Microsoft SQL), and Oracle. You can choose to log to one, or all of these data repositories if you choose.

Configuring logging is easy. Simply select the items you want to log and the conditions under which you want them logged. CIMPLICITY does the rest for you. You can:
- Precisely control which data is logged to your database
- Select any combination of the point value, alarm state or change in value
- Log individual points in detail or group points together for trend analysis
- Define multiple tables with different logging conditions and attributes to meet different needs within your facility
- Configure database maintenance actions to occur automatically, either periodically or based on database size.

Store and Forward

Store and Forward is a powerful feature of CIMPLICITY that provides data integrity. If the network connection between nodes is lost for any reason, the local node stores the logged data until the network connection is reestablished. Once the connection is reestablished, the local data is sent to be logged in the central database.

Reporting

By using database tools or third-party applications, you can easily access your logged data to generate reports.
- Generate separate reports for events, alarms and point data.
- Generate reports for all available data or a specific time period.
- Export retrieved data to other products, such as spreadsheets, for further analysis.

Excel Report

Excel Trend
Basic Control Engine

A more flexible solution for developing and implementing applications

The CIMPLICITY Basic Control Engine combines the power of CIMPLICITY software with Visual Basic-style language, allowing for improved scripting and programming capabilities. Ideal for integrators or end-users who want to tailor their own applications, it consists of three main components – the Event Editor, the Program Editor and the actual Basic Control Engine.

One of the unique and key powerful features of the Basic Control Engine is that it is multi-threaded, allowing for multiple scripts to run simultaneously. Think of it like the difference between DOS and Windows. With DOS you could work on a word document, and then close it before moving on to a spreadsheet. Multi-threaded scripting allows you to run multiple program scripts at the same time without having to wait for one to complete before starting another.

Event Editor

The Event Editor lets you define actions to take in response to process events. An event can be defined as a changing point, as an alarm state, or based on the time of day. One event may invoke multiple actions; one action may be invoked by many events.

Program Editor

The Program Editor offers sophisticated development tools for creating the programs that will later be executed as actions. Its rich Visual Basic-style programming language has over 600 basic functions that directly integrate with CIMPLICITY points, alarms and the error logger.

Multiple scripts can be debugged and run in parallel or in sequence. The Program Editor supports setting watch points, examining and modifying variables, walking object data structures, stepping through the program, and generating execution traces.

Basic Control Engine

The Basic Control Engine monitors for events and executes the configured actions. Based on a multi-threaded scripting design, it allows the system to invoke and execute multiple programs concurrently.

Queued Script Execution

Queued Script Execution further extends the power of the Basic Control Engine by letting you specify the order in which you want your scripts to be executed.

The following actions can occur, based on an event:

- Set point values
- Acknowledge or clear alarms
- Create log file entries
- Invoke specific user-defined actions
- Invoke Visual Basic programs to execute

Advantages

- Multi-threaded scripting
- Diagnostics user interface for debugging scripts
- Event management
- Pop-up dialog boxes
- Basic control programs can be compiled as executables for faster execution

Specific CIMPLICITY commands for creating programs include:

- Browse for existing points
- Edit existing points
- Create new points
- Get point names and values from users at runtime
- Set points
- Dimension Point
- Generate alarms
- Update alarm status
- Log status

CIMPLICITY Tools
Point Control Panel

Critical point information for simplified system implementation, maintenance and checkout

Integrators, developers and end-users alike will find the CIMPPLICITY Point Control Panel indispensable. This unique feature provides a list of the points in your system, complete with continuously updating values and alarm statuses. It simplifies system implementation and maintenance, as well as checkout and troubleshooting, by letting you verify the data collection and alarm configuration of your system without configuring a single graphics screen.

The Point Control Panel also lets you filter which points you want to see. You can sort points by their names, which device they are collected from, or the resources they are associated with. These parameters can then be saved for repeated use.

Advantages

• Couples with QuickTrend and Drag-and-Drop features for faster and easier operation
• Simplifies system implementation, maintenance, checkout and troubleshooting

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Point Control Panel

The Point Control Panel lets you:
• View local and remote points
• Set local and remote points
• Enable and disable alarm generation
• Modify alarm limits

Points in alarm are highlighted
Point Cross Reference

The ability to see where and how points are used in your system.

Point Cross Reference simplifies the development, operation and maintenance of your CIMPLICITY projects. It shows you where and how CIMPLICITY Points are used within your project and often helps indicate errors. It’s very useful to people who are adding or removing points. You can see where a point is used in:
- Point Configuration
- Event Manager Events and Actions
- Database Logging
- Basic Control Engine Scripts
- Point View
- View where points are used within your screens
- Search and replace points in a screen

Advantages
- Greatly reduces the time required to commission a project
- Simplifies the development, operation and maintenance of your projects

Point View
- View where points are used within your screens
- Search and replace points in a screen
Trending

Superior flexibility and power with ActiveX technology

CIMPLICITY Trending sets the standard for data analysis capabilities. It allows you to analyze data collected by your CIMPLICITY system or from other third-party software packages. You can compare current trends with past trends to quickly identify and correct process problems. As a result, it helps increase productivity.

Features
- Fully integrated with CimView
- Multiple charts per graphic screen
- Default parameters for easy setup, fully configurable by the user
- Unlimited number of pens per chart
- Configurable colors, fonts, line styles and legend
- Pens can represent multiple data sources on the same chart
- Real-time and historical data in the same chart
- Trend third-party data files (CSV)
- Trend array points
- Different plotting rates per pen
- Dynamically switch pens
- Separate axis available for each pen
- Scroll forward and backward through plotted data
- Smooth and step lines
- User definable labels for pen lines
- Dynamically change trend at runtime

Advantage
- Helps you quickly identify and correct process problems to increase

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In the image, there is a screenshot of the Trend Charts interface with several options available for customization and viewing trends.
Quick Trends and XY Plots

A simple way to see how your points are changing
With CIMPLICITY Quick Trends, a trend chart is only a point and click away. From CimView, you can select any point in the screen and have a Quick Trend pop up for that point without preconfiguring the trend. From the CIMPLICITY Workbench or Point Control Panel, you can simply select points you want to trend and have a Quick Trend pop up to show you how those points are changing.

Advantages

- Quick Trends let you pull up a trend on a point, such as a process variable, and watch what’s going on.
- XY Plots provide the flexibility to define multiple

XY Plots – A Flexible Way to Plot Process Data
An ActiveX object, XY Plots can easily be inserted into CimEdit/CimView to plot your process data. XY Plots can chart two or more variables against each other. Its flexibility allows you to define multiple X or Y axes.
System Points

Find out what's going on inside your system

System Points increase your development productivity by revealing internal system information to you. CIMPLICITY provides many predefined System Points on a wide variety of topics, such as project and computer information, date and time, and alarms. Since this information is revealed as CIMPLICITY points, it can be used by standard CIMPLICITY components such as CimView, CimEdit and the Basic Control Engine.

System Points are a key part of CIMPLICITY’s ability to handle the most demanding multi-user applications. When you’re working in a multi-node system, System Points help you obtain system information and even distinguish between server and local viewer information.

System Points provided:

- Alarms
- Date and Time
- Users
- Roles
Configuration Import/Export

More power to manage your data

The Configuration Import/Export tool enhances the existing point configuration modules by letting you import and export point configuration data via CSV files. For example, you can:

- Manage your point configuration data using Microsoft Excel, Microsoft Access, a text editor or a database report writer, then use Configuration Import/Export to import it into your CIMPLICITY data files.
- Export your CIMPLICITY configuration data to a third-party application to create customized configuration reports.

Dynamic Measurement Systems

You can develop your CIMPLICITY projects to let you dynamically switch between measurement systems. You can use the preconfigured English and metric systems or even configure your own measurement systems. At runtime, you can simply switch measurement systems with a point and click. Your screens will change both the values displayed, as well as any associated units.
Action Calendar

An easier way to put more power under your control

The CIMPLICITY Action Calendar gives you the power to implement calendar-based control operations. You’re able to create, maintain and execute a calendar schedule of manufacturing events and corresponding actions that will improve your productivity. You can control lights, heat and equipment based on a schedule that you configure and maintain through simple point and click actions.

Configuration and Operation

Configuring the Action Calendar is both fast and easy. You can define different types of days – production, weekend, holidays – and configure the events and corresponding actions you want to occur on those days. Once your schedule is created, you can easily modify it to accommodate any required changes or overrides.

What do I purchase?

Action Calendar is sold as an option for CIMPLICITY Servers and Viewers. The Action Calendar is installed on HMI Servers where you want the control to occur. It can also be purchased for HMI Viewers, so the schedule can be reviewed or modified remotely. The Action Calendar allows schedule configuration changes from Development and Runtime Systems on both HMI Servers and Viewers.

Advantages

• Reduced operating and energy costs
• Easier schedule changes and maintenance facilitation
• Fast and easy configuration
• Lets you adapt your operations to flexible
Marquee

Sending critical information to the people who need it now

Marquee is one of the fastest, most economical ways to share critical system information with a large number of users. Used for years in the automotive industry, marquees are message boards that can be mounted in factory aisles to give users status information about a process. The Marquee tool lets you send informational and alarm messages to multi-line marquee displays. If there is a problem, it is displayed on marquees for all users in the area to see. Operators and maintenance personnel know about problems immediately, so they can respond faster and minimize downtime.

Marquee is fully configurable, with no custom coding required to retrieve alarm or message information. You can determine which set of CIMPLICITY alarms you want to send to the actual marquee. For each Marquee message, you assign a message ID, alarm ID, alarm state, message header, message footer, message text, the marquees on which to display the message, the attributes associated with the message, and any CIMPLICITY point values to be displayed with the message.

Advantages

- A fast and inexpensive way to share critical information with your workforce
- Displays problems immediately for minimal downtime
- Easy to implement and use
Integrator’s Toolkit

Creating new standards in open, extendible monitoring and control systems

The CIMPLICITY Integrator’s Toolkit includes four powerful application programming interfaces (APIs) that enable users to develop custom applications that integrate seamlessly with CIMPLICITY.

The Integrator’s Toolkit also lets you build new device communications interfaces and applications that access CIMPLICITY runtime data, using standard Microsoft C/C++ and the Microsoft Developers Studio®.

**Device Communications Toolkit**
The Device Communications Toolkit provides an interface to CIMPLICITY project configuration data and runtime functions, making it an excellent tool for developing custom I/O device communications interfaces. The Device Communications Toolkit provides advanced features like:

- Management of multiple polling rates
- Retry following communications error
- Alarm on communications failures
- Support for unsolicited PLC data
- Automatic poll after set point
- Interface to project configuration
- CIMPLICITY dynamic configuration

**Point Management API**
The CIMPLICITY Point Management API lets you develop sophisticated applications that access the CIMPLICITY runtime point database. It also provides important point configuration data and tools that help you organize your application. Through the API, you can create and manage “shopping lists” of points. Each list may contain any request type:

- **Snap Shot**: Get the current value for the point
- **On-Change**: Get the current point value and automatic updates when the point’s value changes
- **On-Alarm**: Get the current alarm state of the point and automatic updates when the point’s alarm state changes
- **Timed**: Receive the current point value periodically
- **Set point**: Set the value of the point

**Login API**
With the Login API, you can develop and implement your own login dialog to CIMPLICITY. While CIMPLICITY provides security through a standard login dialog, high-security applications may require more advanced user ID and password verification dialogs. You can create login dialogs with the flexibility, style and security you require, then execute them from CimView or from scripts within the Basic Control Engine.

**Alarm Management APIs**
There are three Alarm Management API’s that provide an open interface to the CIMPLICITY runtime alarm system:

- **Alarm Management**
- **Alarm Interested Process**
- **Alarm Viewer API**

The Alarm Management API lets you generate custom application alarms that are independent of point-based alarms. With this interface, you can generate, update and clear alarms.

This API also offers an Alarm Manager extension for coupling alarm management systems among third-party packages. For example, you can incorporate time-critical alarms from a turbine control system.

The Alarm Interested Process API extension lets you develop extended alarming functions and generate special application alarms. With it, you can set your application to be notified of all new alarms and changes to alarm states.

The Alarm Viewer API extension lets you develop an alarm viewer similar to CIMPLICITY, but customized to your own needs.

**Advantages**
- Allows you to develop custom applications that integrate seamlessly with CIMPLICITY
- Allows you to build new device communications interfaces and applications that access CIMPLICITY runtime data
- Customize login dialogs
- Easy exchange of alarm information with other applications

**Advantage**
Sometimes you need to tailor alarms to fit the user’s application needs. CIMPLICITY offers a toolkit that gives you the flexibility you need.
OPC

Integrating CIMPLICITY with your other software applications

Building on the strength of the Microsoft operating systems and OLE (Object Linking and Embedding), OPC is a standard that provides interoperability among control applications, devices and business applications.

OPC allows you to integrate CIMPLICITY with your other systems. There are two components:

- OPC Client capabilities allow for easy integration of third-party device communication drivers.
- OPC Server provides the same open integration capabilities to third-party software packages.

What do I purchase?

CIMPLICITY now offers both the OPC Client and OPC Server built in. The only thing you need to purchase is your OPC Device Communication servers.

Advantages

- Saves money on application integration by providing a simple plug-and-play interface for multiple vendors
- Open systems approach provides easy, open integration of third-party devices and software.
- Frees you to select vendors who provide best-of-class solutions; you’re no longer captive to a single vendor with a proprietary product.

The CIMPLICITY OPC Server offers an open systems approach to integrating CIMPLICITY with your other software applications, including:

- Historian
- Batch
- Quality management
- Scheduling
- Expert system
Pager

Put process information in the palm of your hand
CIMPLICITY Pager lets you easily integrate your CIMPLICITY alarms with standard external paging systems based on IXO and TAP protocols—including Sky-Tel and local city paging.

Built on Netcon’s FirstPAGE technology, CIMPLICITY Pager is ideal for operators who must move freely around the facility. It can page you when a critical process is trending out of spec, update you on current production counts and conditions, and tell you when a process has shut down.

Features
• Dynamic online configuration of users and paging numbers
• Ability to enable/disable users from receiving pages
• Escalating pages linked to alarm states and other conditions
• Filters pages based on CIMPLICITY resources, alarm classes or alarm IDs
• CIMPLICITY Basic Control Engine interface lets you automatically send pages, change a user’s pager number or disable a page
• Supports external pagers through modems
• Customizable pager messages
• Configuration templates allow fast setups
• Supports distribution lists

What Do I Purchase?
You’ll need a CIMPLICITY Pager for each CIMPLICITY server supplying alarms. CIMPLICITY Pager supports external pagers through modems, and its client/server architecture lets you centralize pages from a single node. What’s more, if you purchase CIMPLICITY services and support, you can connect CIMPLICITY Pager to in-house paging systems.

CIMPLICITY Pager keeps you connected to your process, so you can address problems fast.
Recipes

The fast and affordable way to design and manage recipes

The CIMPLICITY Recipes option lets you create, maintain, upload and download recipes (a group of set points) to your production processes. Powerful, yet flexible and easy to use, it significantly reduces your cost and time to design and manage recipes.

CIMPLICITY Recipes lets you maintain device-independent recipes, sending a common set of parameter values to the equipment of your choice – there’s no need to maintain separate recipes for each piece of equipment. This configuration process saves you hours of setup and ongoing maintenance of your recipes.

Recipes are easily downloaded through CimView and are designed and maintained through a Windows-based interface. CIMPLICITY Recipes fulfills batch and discrete part processing requirements. It performs manual as well as automatic uploads and downloads of recipes based on system events.

How It Works
Recipe configurations are maintained in recipe groups. Presented in a table format, a recipe group contains all the information required to produce a product. The example below shows a recipe group for bread, with recipes for white, raisin and rye bread. These recipes are stored in one recipe group, because they have similar ingredients and processes.

At runtime, you can download a recipe by specifying the recipe group, recipe and map. With a click of the mouse, you can specify the kind of bread you want to make and which production line should make it. This flexibility helps you better manage and control your production processes.

Features

Recipes Configuration Interface
CIMPLICITY Recipes lets you:
• Create and manage recipe parameters, recipes and maps in a spreadsheet format
• Import and export recipe groups to/from CSV format files
• Archive recipe groups
• Automatically compare recipe groups to accommodate changes in the group’s structure and layout

Recipe Objects in CimView
Recipe objects can also be embedded in CimView screens using OLE Controls. With these objects, you can:
• Manually upload recipes
• Manually review/modify parameters, then download recipes

Basic Control Engine Interface for Recipes
Using extensions to the Basic Control Engine, Recipes provides a Scripting interface that lets you automatically upload and download recipes based on system events, such as point changes from a shop floor device.

Advantages
• Significantly reduces the cost and time to design and manage recipes
• Intuitive interface is easy to use
• Flexible design allows you to group similar recipes
• Recipes can span multiple programmable devices and different brands of devices.
• Manual and automatic upload and download of recipes
• Recipe comparisons
• Automatic reconciliation of recipe groups
• Import/export of recipes to CSV files

Parameters
list the ingredients used to make bread, along with process parameters such as temperature, mix time and bake time.

Units
are associated with the parameters.

Recipes
contain the actual values to be downloaded for bread production.

Maps
specify the points to where the values will be downloaded. Maps do not have to be contiguous areas of memory, and they can span several PLCs. However, downloading to contiguous areas of memory provides the best performance. They can also specify virtual points—those which are used at the system level but do not exist in any device.
Redundancy

Increase availability for mission critical systems

CIMPLICITY Redundancy allows your system will continue to operate in the event of a hardware failure. CIMPLICITY supports redundancy at several levels to minimize the effect of any failure.

Server Redundancy

CIMPLICITY projects can be configured so that a secondary system is ready to take over operations automatically should the primary system fail. It provides an automatic switchover from your primary system to a backup, in the event of a hardware failure. All main CIMPLICITY functions are transferred during the failure, so critical data acquisition, alarming, logging and security operations continue. During normal operation, the primary system collects data from your devices and updates the secondary system. This reduces the data collection load on the devices, improving response time. In the event of a failure, the secondary system automatically begins collecting data from the devices, assuring alarm states and point values are accurate.

Database logging occurs on both systems. So, if the primary system fails, the secondary system’s database has the same content as the primary system and continues to log data. Previously logged data is still fully accessible. Once the primary system is restored, utility functions help you resynchronize the databases.

Cable Redundancy

CIMPLICITY supports the use of dual Ethernet networks to connect CIMPLICITY servers and viewers. Information is transmitted on both networks simultaneously so messages won’t be lost if a failure occurs.

PLC Redundancy

CIMPLICITY supports redundant PLC configurations and will switch between PLCs when one fails or takes over control operations.

What Do I Purchase?

Redundancy requires a pair of CIMPLICITY Servers. They must have the same I/O count sizes, and one must be a Development system. You’ll need to purchase the Redundancy option for each pair of Servers. Cable Redundancy is included as part of CIMPLICITY Redundancy.

PLC Redundancy support is included with Triplex protocol and with other select communications drivers.

The Redundant Servers can support the Viewers. You don’t have to purchase Redundancy for the Viewer, since only Servers are set up as redundant nodes. If you need redundancy protection for a Viewer, simply purchase two Viewers.

Advantages

- Easy to implement
- Minimizes loss of system functionality
- Points and alarms are synchronized on redundant servers
- Maintains security without forcing additional logons
- Minimizes load on your data acquisition network
- Both the primary and the redundant server log data to independent databases, assuring a complete record of historical data
- Automatic failover of server node and viewer nodes
SPC (Statistical Process Control)

Everything you need to improve product quality, cycle times and delivery

CIMPLICITY SPC provides all the tools you need for data measurement and analysis, as well as process improvement and quality control. With CIMPLICITY, you can collect data automatically from process sensors or manually through keyboard input, touch screen displays, bar code scanners or other means. Once the data is collected, SPC’s industry-standard statistical tools help you analyze and transform it into useful information.

CIMPLICITY works with SPC to collect, analyze and, through alarms, warn you of potential quality problems—around the clock. The automation of measurement and analysis gives you more time to look for ways to improve your quality program. CIMPLICITY and SPC also help you control quality by letting you monitor the changes you’ve made and verify the results.

CIMPLICITY SPC Tools
CIMPLICITY SPC provides SPC analysis tools that include the following types of charts and printed reports:

- X Bar R
- X Bar S
- X Individual
- Histogram
- Pareto

Centralized Configuration
CIMPLICITY SPC also offers centralized configuration. This time-saving feature makes it easy to configure and maintain all of the quality characteristics and specification limits for your processes. Any change in control limits will be reflected in all systems on the network.

CIMPLICITY SPC Charts
Based on Microsoft design standards, CIMPLICITY SPC charts are designed as ActiveX control objects, so you can easily add them to your CimView screens. The integration of alarms, graphics, trending and SPC on the same screen gives you the power and flexibility to analyze your processes accurately.

Pareto Charts
Analyze the various defects reported and sort them into a chart showing the top ten quality problems. This graphical depiction quickly shows you which areas you should address first for the largest overall impact on quality.

X Bar Chart
CIMPLICITY SPC analysis occurs continuously, as new data is collected. For X bar R, X bar S, and X individual charts, the collected data is processed and checked against the control limits.

Advantages
- Eliminates paper data collection, saving time and effort
- Automated data collection prevents data entry errors
- Automatic, continuous monitoring of data and alarm generation helps identify potential quality problems
- Automated data collection of experimental and new process data helps you pursue continuous improvement goals
- PLCs and CIMPLICITY software allow you to control, as well as monitor, a process automatically
- Helps you establish a world-class quality program for increased customer satisfaction

SPC Benefits:
- Identifies issues and corrects before quality is effected
- Provides data and analysis for an effective six sigma quality program

Histogram Chart

X Bar Chart
CIMPLICITY SPC analysis occurs continuously, as new data is collected. For X bar R, X bar S, and X individual charts, the collected data is processed and checked against the control limits.
System Sentry

A revolutionary tool for monitoring your computer system

CIMPLICITY System Sentry helps you keep your system running by constantly providing real-time information about the health of your computers and applications. It immediately alerts you to problem conditions and gives you the tools to pinpoint the cause, so you can respond quickly.

System Sentry monitors any computer running the Windows operating system. It can monitor one computer or an entire network of Windows systems. It lets you benchmark current system performance, so you can clearly differentiate normal operation from problem states. As your system evolves and grows, System Sentry can measure the impact on system performance.

System Sentry monitors and records CIMPLICITY parameters and statistics like alarm frequency, device communications, data collection and throughput, inter-process communications, data logging, point management and user registration. In addition, it monitors critical operating system and network information, such as CPU performance, disk space, memory consumption and process time, to give you a complete and current status of your system's health. You can also set an alarm for any of these parameters.

What do I purchase?

System Sentry installs on a CIMPLICITY Server node in your system. You can purchase it with a 1, 5 or 10-node connection, with the additional node connections allowing you to monitor the status of other Windows systems. To monitor more than 10 nodes, simply purchase additional System Sentries for the number of nodes you want to monitor.

A revolutionary new management tool.

System Sentry assures your system’s smooth operation. It monitors your CIMPLICITY processes key operating system and network parameters to help you diagnose problems quickly.
CIMPLICITY HMI for CNC

Powerful Windows-based software for improved productivity of your machining and plant operations

CIMPLICITY HMI for CNC combines the advanced features of CIMPLICITY and our Open CNC products. It offers superior operator interfaces, comprehensive production monitoring and reporting, simplified data acquisition and highly efficient cell control.

Graphical Operator Interface

CIMPLICITY HMI for CNC simplifies your machine operation by letting you create a graphical interface that is easy to learn and use. You can create startup instructions that guide operators through all the necessary steps and color graphics, such as CAD drawings, manufacturing instructions and video clips. Plus, it simplifies common tasks like setting tool offsets and managing or editing part programs.

CIMPLICITY HMI for CNC runs on standard PC hardware and uses Microsoft OLE and ActiveX technologies for increased functionality. Select a CIMPLICITY Display Station or the integrated PCs of our i-Series CNCs for an ergonomic, panel-mounted interface.

Plant Management

CIMPLICITY HMI for CNC provides seamless integration with plant networks for easier part program management. Files can be downloaded from networked systems, as well as backed up. Centralized programs make it easier to control changes and revisions and ensure that the right program is used for production. With CIMPLICITY's plant management reporting functions, supervisors can measure plant productivity by tracking machine utilization, downtime causes and production results. And because CIMPLICITY is an open system, it's easy to create reports or integrate CIMPLICITY data with other manufacturing systems and databases.

CIMPLICITY HMI delivers real-time production and quality data at the local machine or throughout the enterprise over TCP/IP networks. Maintenance or supervisory personnel are alerted to process alarms through standard numeric or alphanumeric paging systems. And access to production or diagnostic data is available over the Internet or through dial-in connections.

Data Acquisition

CIMPLICITY HMI for CNC collects probe data directly from the CNC using Ethernet or High Speed Serial Bus (HSSB) interfaces. And with its ability to connect to hundreds of PLCs and I/O devices, it easily integrates with auxiliary systems, gauging devices and vision systems.

All data can be displayed directly or logged to Historian or SQL Server. This simplifies report creation. You can also analyze and display this data in charts or reports with the CIMPLICITY SPC option.

Cell Control

CIMPLICITY HMI for CNC has been a key component in automated cell control applications. It lets you integrate barcode readers, palette and motion controls, and other automation equipment into your application. Tool use can be monitored with timer and counter functions that alert you when it's time to replace a tool.

CIMPLICITY's Basic Control Engine offers Visual Basic-style programming, so you can develop the high-level logic required to implement machining cells. For example, Basic scripts can be used to automatically identify and download part programs based on product identification with a barcode scan. With over 600 standard functions, plus special Visual Basic extensions to interface with the CIMPLICITY real-time Basic Control Engine, cell control is more affordable for machine tool builders.

Tool Life Management

CIMPLICITY HMI for CNC now supports Tool Life Management for the 300, 310, and 320 iA Fanuc CNC controllers.

Advantages

• Open system enables you to fully integrate your machining applications with the manufacturing enterprise.
• TCP/IP networking lets you link together machining applications and develop facility monitoring applications.
• Point-and-click graphical development tools help you create easy-to-use displays that incorporate manufacturing documents such as CAD drawings.

www.gefanuc.com
WebView

WebView is a fast, easy and cost-effective way to send CIMPLICITY information to users over the Internet or Intranet. CIMPLICITY screens are transmitted from the CIMPLICITY Server directly into the Internet browser, so users can view CIMPLICITY screens.

WebView or Standard Viewer?
WebView is ideal for a group of casual CIMPLICITY users. Shared licensing allows a user to connect to the Server and view data. When they are finished, the WebView license is freed up for the next person. This especially benefits users in plant management, finance or engineering, who must access process data to make their decisions.

For dedicated operators who depend on CIMPLICITY for running and interacting with the process, GE Fanuc recommends the standard CIMPLICITY Viewers.

Terminal Services

CIMPLICITY also has a Terminal Services option that works off of Microsoft Terminal Services. It allows a remote user to have full access to the system if desired and configured with privileges to do so. While WebView is limited to CIMPLICITY graphic screens, Terminal Services allows for interaction with the Point Control Panel, Quick Trends, and even the Workbench for remote configuration and maintenance support. Terminal services also support third party ActiveX controls within CIMPLICITY screens, a limitation of WebView.

WebView or Terminal Services?
Both WebView and Terminal Services provide the ability to view your screens remotely from a computer without any CIMPLICITY software loaded on it. If you only need to view and interact with your screens, and have not used third party ActiveX objects or pop-up windows, then WebView provides a good solution. If you want to unleash the full power of the product from a remote node, then Terminal Services is the correct choice as it provides access to not only your screens, but configuration and other functions as well.
GE Fanuc Automation Services Overview

To succeed, businesses today must be able to rely on more than just a product solution. From superior technical support, to proper implementation of your technology and training where and when you need it most, the services you receive are every bit as important as the products you put into your facility. GE Fanuc offers a complete array of support services to help you attain the highest value possible from your technology investments. GE Fanuc also has an extensive network of integrators who can provide excellent support and integration services as well.

Technical Support and Maintenance
Comprehensive offerings to support the full range of your hardware and software. Our unique support solutions provide the tools, resources and experience you need to be successful.

Project and Engineering Services
Advanced engineering solutions that combine proven project application skills, industry expertise and extensive product knowledge with best-in-class partner resources.

Training Services
A flexible family of services that provides hands-on training in the location, format and style that suits you best.

Field Services
A fast, reliable on-site engineering support system designed to get your business up and running as quickly and efficiently as possible.
Proficy GlobalCare Complete Support

Optimizing Your Investment
Proficy GlobalCare Complete Support is the best and most comprehensive way to optimize your investment in a GE Fanuc Automation software solution. With GlobalCare Complete, you can be sure that your software is always up to date, and that you have access to the tools, applications and support to be successful.

A Network of Support Professionals
Whether it comes directly from GE Fanuc or from our global network of Certified Support Professionals around the world, you’ll receive the same high levels of service throughout a support scenario from first-level response to advanced troubleshooting. Our support team meets our strict criteria for product knowledge and experience. And all of our support features are focused on providing you with the tools, resources and assistance to be successful.

24 x 7 Emergency Support
Around the clock emergency support is available for critical cases, through a comprehensive infrastructure of phone and web-based support. To maximize effectiveness, our support professionals are organized into specialized product teams to ensure a high level of expertise in your particular case area.

Product Maintenance
GlobalCare Complete Product Maintenance ensures that you continue to have access to the latest product improvements, enhancements, tools and features that can optimize your investment in our software. In addition, you can go to globalcare.gefanuc.com to download the latest Hot Fixes and Service Packs for products and drivers.

Online Knowledge Center
Our Online Knowledge Center is accessible world-wide, with 24-hour access to a broad range of information and data sources – including top support links, articles and white papers, sample codes, user forums, developer downloads, driver fact sheets and more.

The Downloads section of the Support Site provides a comprehensive storage facility for proven tools and resources that can cut development time. And a secure online forum allows you to see and benefit from how customers around the globe are using our products in real-world environments.

Online Case Management
We offer a sophisticated online case management system that allows you to monitor, update and even escalate your case 24 hours a day. When you log a case online, our interface guides you through the process and prompts you to provide our support professionals with relevant information about your case and system. From there, the most qualified professional is automatically assigned to your case and has a working knowledge of your situation. Cases logged outside of North America are delivered directly to local representatives for immediate support.

Knowledge Base CD
We publish the Knowledge Base CD three times a year as an additional resource for GlobalCare customers. It contains an entire library of valuable articles, white papers, remote diagnostic tools and other global and regional materials to help solve your issue when you are not connected to the Internet.

Electronic Newsletter – At Your Service
GlobalCare Complete customers receive our electronic newsletter, which is filled with important updates and helpful tips about using our products and services to your greatest advantage.

GlobalCare – Total Service and Support
Just as a GE Fanuc Automation solution can optimize your business, a GlobalCare Support contract can optimize your investment in our software. 90 days of warranty support is included with all licenses. Contact us today to learn what we can do for you.
Training Services

GE Fanuc performance-based training combines practical lectures with hands-on lab exercises to ensure that you get the value-added skills you need. From product courses to custom classes to application specific training, we can help you get the most from your automation products by providing expert training for your work force. Courses range from comprehensive introductory level offerings to in-depth advanced level offerings. Let GE Fanuc Training Services be your one-stop shop for technical training.

Technical training helps your employees set up, configure and troubleshoot more efficiently, decreasing downtime and increasing throughput. It also helps your employees stay current with new technology as well as find new ways to apply your technology, helping make your organization more productive. Industry studies have shown that technical training can lower production costs because of the subsequent increases in employee efficiency and reductions in downtime. Employee skill development and enhancement are invaluable company assets, the benefits of which can be realized in a very short time.

Open Enrollment Training
GE Fanuc has an international network of regional training centers offering world-class technical training for maintenance, operations, and engineering personnel. Open Enrollment Training allows students to interact and network with fellow product users. GE Fanuc ensures that class sizes enhance student/instructor ratios. All classes are taught by GE Fanuc factory-certified instructors using GE Fanuc authorized training materials.

GE Fanuc continually exceeds customer satisfaction ratings in both course content and in instructor experience, professionalism and knowledge.

Course descriptions and schedule information are available at www.gefanuc.com/ttc.

On-Site Training
In today’s fast moving, cost conscious world, on-site training is an extremely effective tool to reduce your travel expenses and ensure your key personnel remain accessible in the event of a plant emergency. Depending on the class and your location, on-site training can be quite cost effective when you take into consideration how much you’ll save on T&L expenses – even for as few as four students. Add to this the benefits of maintaining rapid access to your key teams (not to mention the ability to customize and focus the training in order to shorten the learning experience) and it’s easy to see how on-site training can be a powerful option.

Online Training
The GE Fanuc Online Institute offers visually engaging, interactive courses to meet customer-training needs in today’s challenging business climate. With the same content as instructor-led courses and available online with 24 x 7 access, the Online Institute has all the training with none of the travel expense. Each course is geared toward performance objectives and provides users with both guided and independent practice of concepts as well as interactive assessments with immediate feedback. You can now meet your time and cost budgets as well as your technical training requirements. Visit the Online Institute today at http://onlineinstitute.gefanuc.com.

Needs Assessment
We will perform a training needs assessment for your organization to help us design customized courses and curriculums to support the specific skill requirements of your operation.

Simulators
Train your personnel, test components and debug programs without taking systems out of production. Our classroom simulators are available to meet your training, development and maintenance requirements. We also develop custom simulators that match the equipment configuration in your operation to maximize your benefits.
GE Fanuc Service on Demand

Hardware/Software Services When and Where You Need Them
When your equipment is down, so is your business. And whether your facility is impacted for a few hours or a few weeks is largely dependent upon the quality and responsiveness of your support provider. At GE Fanuc, we understand your need for fast, reliable service for your hardware and software investments. And we’ve responded to that need with GE Fanuc Service on Demand – a service offering designed to get you back up and running as quickly and efficiently as possible.

Superior Responsiveness
When your plant is down, time is money – literally. With over 50 support locations spread throughout the world, our expert engineers can typically be at your facility within 12 hours to begin handling your case. And whether we are working independently or in tandem with your in-house maintenance staff, one call to
1-800-GE FANUC (Americas)  
86-21-3222-4555 (Asia Pacific)  
+800 1 GE FANUC (Europe, Middle East and Africa) puts you on the short road to being back online.

One call gives you access to:
• Our extensive base of GE Fanuc field engineers
• Primary and backup personnel
• Factory Authorized Service Providers
• 24 x 7 On-Site Emergency Support

Hardware and Software Expertise
Our engineers are experts in the design, specification and implementation of your GE Fanuc machines, software and control products. That specialized expertise enables us to troubleshoot your situation quickly, dependably, and accurately.

In addition to our expertise in GE Fanuc’s products and protocols, our worldwide network offers a range of pre and post deployment engineering services to provide the right solution to your business, regardless of what products you decide to implement.

GE Fanuc Service on Demand is available for a wide range of products, including:
• Automation & Production Software
• Controllers & I/O
• Servo Drives & Motors
• Motion Control
• Visualization (OI) & PC Solutions

Additional Services
Whether you require 24 x 7 on-site emergency services or a long-term maintenance contract, GE Fanuc can provide you with the training, service and support you need to maximize your automation technology investment. Our on-site training enables your personnel to become experts in problem-solving and general automation. In addition, our service agreements are available on an hourly or yearly basis, providing the help you need for the life of your operation.

GE Fanuc offers a comprehensive array of services to fully support your investment in our products, including:
• Technical Support & Maintenance (Including Proficy GlobalCare)
• On-Site Emergency Services
• Legacy & Competitor System Conversions
• Startup Assistance
• Troubleshooting & Diagnostics
• Inspections & Reviews
• Training Services
• Spare Parts/Warranty/Repair

Dispatching
For more information about our services, capabilities, rates and products handled by our Service on Demand team, or to schedule an appointment with one of our engineers, please call:
1-800-GE FANUC (Americas)  
86-21-3222-4555 (Asia Pacific)  
+800 1 GE FANUC (Europe, Middle East and Africa)
Global Reach with Local Presence

We reach out to our customers through a worldwide network of manufacturing, sales, distribution, service and support.

**Proficy Software Modules:**

**Real-Time Information Portal**
- Proficy Real-Time Information Portal

**Plant Performance and Execution**
- Proficy Efficiency
- Proficy Production
- Proficy Tracker
- Proficy Machine Tool Efficiency

**Integrated Quality**
- Proficy Quality
- Proficy Non Conformance Reporting
- Proficy Shop Floor SPC

**Process Solutions**
- Proficy Process Systems®
- Proficy Batch Execution
- Proficy Batch Analysis
- Proficy RX®

**Plant Data Repository**
- Proficy Historian

**Asset Management**
- Proficy Enterprise Asset Management
- Proficy Remote Monitoring & Diagnostic
- Proficy Change Management

**HMI / SCADA**
- Proficy HMI/SCADA – iFIX®
- Proficy HMI/SCADA – CINPLICITY®
- Proficy View – Machine Edition

**Programming & Control**
- Proficy Logic Developer
- Proficy Motion Developer – Machine Edition

**GE Fanuc Support & Services:**

Proficy GlobalCare Support
Proficy Professional Services
Proficy Training

**GE Fanuc Automation Information Centers**

**Americas:**
1 800 GE FANUC or 434 978 5100

**Asia Pacific:**
86 21 3222 4555

**Europe, Middle East and Africa:**
800 1 GE FANUC or 800 1 4332682
or 1 780 401 7717

**Europe, Middle East and Africa (CNC):**
352 727979 11

**Additional Resources**

For more information, please visit the GE Fanuc web site at:

www.gefanuc.com

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