



# *CIMPLICITY Machine Edition*

*GE Fanuc Automation*

[www.gefanuc-europe.com](http://www.gefanuc-europe.com)



*One single software for  
HMI, Control and Motion*

# CIMPLICITY Machine Edition

## Integrated Automation Software

CIMPLICITY Machine Edition provides all the automation software components you need for your machine level applications such as HMI development, PLC programming, PC-based control, Motion control and System management.

## Common User Interface

- All Machine Edition components and applications share one single intuitive workspace and tool set.
- Integration of new applications does not involve learning additional Paradigms.

## Transparent data exchange

Each component is tightly integrated with each other. Drag and drop, common database and object library are all standard features of Machine Edition.

## Cutting edge Technology

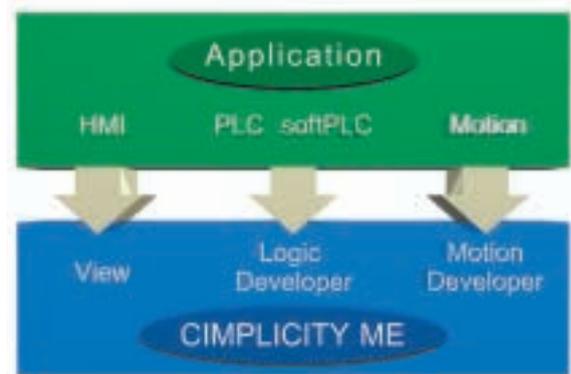
Built on industry standards such as ActiveX Control, COM/DCOM, OPC, SQL/ODBC.

## The Automation Software that Meets Your Needs

- All software components for your machine level applications such as HMI development, PLC programming, PC-based control, Motion control and Application management are embedded in the same programming environment. So you only need to learn one programming software resulting in reduced training and development time as well as your ROI.
- SoftPLC-based applications take full advantage of the latest PC developments giving increasing performance, program memory and stability.
- One single IEC61131-3 based software to connect to all major field-busses such as Ethernet Global Data (EGD), Genius™, DeviceNet, ModBus TCP, Profibus and more.
- Save development time by defining a variable once, drag and drop it, and

re-use it in other Machine Edition components.

- The most advanced Help system on the market today. A powerful combination of context-sensitive help functions provides the user with useful tips as well as detailed information on objects and topics.



## Integrated Programming Environment

Machine Edition's development system provides a clean, easy-to-learn interface for its components. View, Logic Developer and Motion automatically share editing and configuration tools with the other components, creating an integrated, drag-and-drop workspace that makes developing applications simple. Just drag PLC logic or a variable to an HMI animation panel to link them, or vice versa. Work on all parts of your automation system simultaneously, without switching between programs!

## Web enabled – The Right Way to Publish Automation Data

Your plant is on its way to higher efficiency and increased productivity. With web-based reporting tools, real-time information from the floor is accessed easily, all across your enterprise using a standard web browser. Production reports, alarm reports, real-time data and live screens are some of the information that are available through the Internet without re-working your existing CIMPLICITY Machine Edition application.

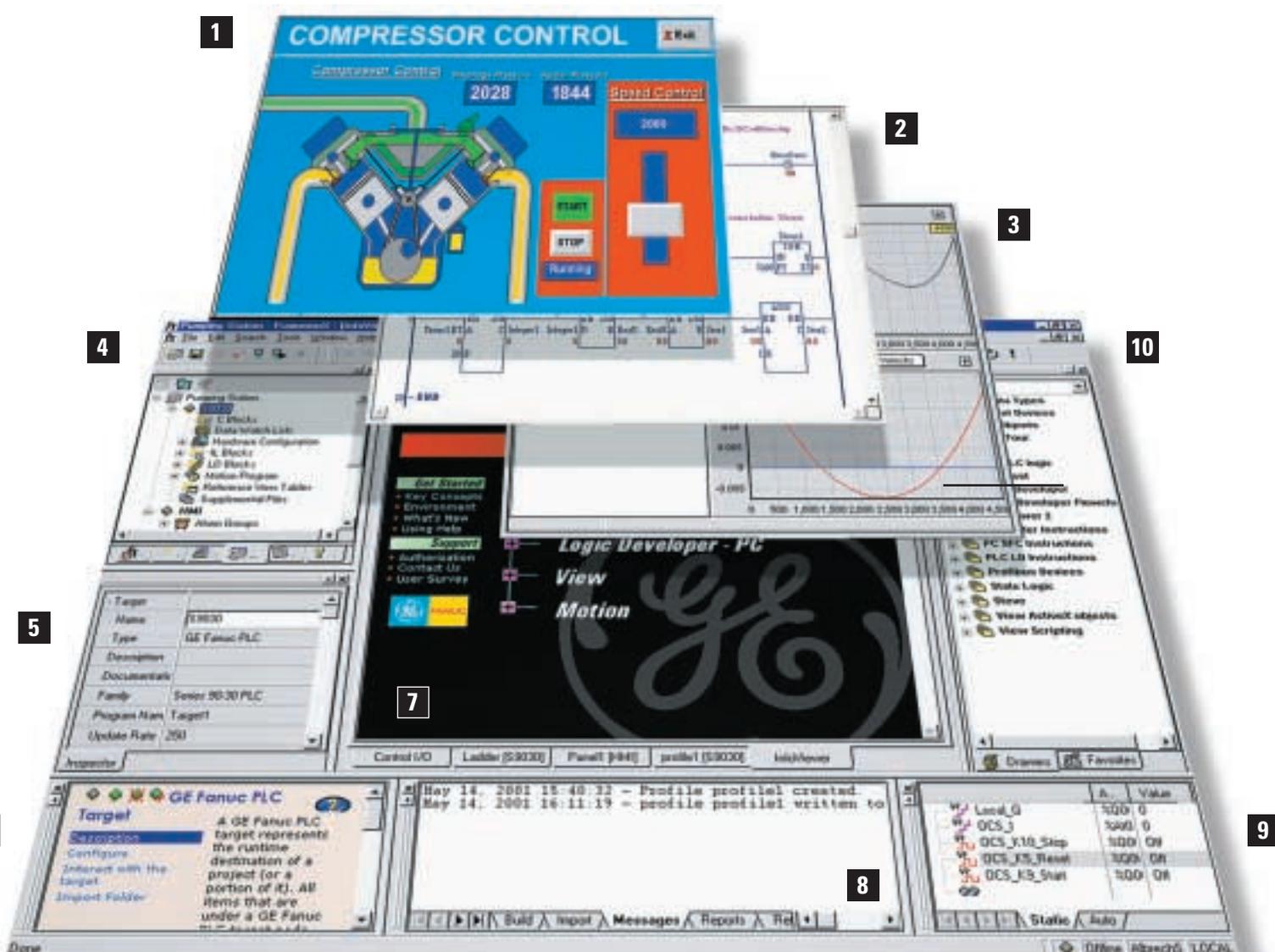
## Toolchest – Object and Symbol Library

Build applications rapidly with pre-configured objects from the Toolchest, a storage system for objects and their variables, associated logic or HMI elements and data structures. Drag your own work to the Toolchest for easy re-use – logic, scripting, graphical objects – anything you want to save and re-use.

## Help – Context-sensitive Help at the Tip of Your Fingertips

CIMPLICITY Machine Edition has a powerful built-in Help system consisting of several context-sensitive help functions, notably the Companion and the Infoviewer. The Companion window displays a short description of any object when selected giving you useful tips and information while you work. Clicking in the upper right corner of the Companion window will display detailed information in the larger InfoViewer window. The Html-based Infoviewer allows for further navigation within the help system.

# One Single Development Environment



**1 Panel Editor**  
Where you create graphical panels for your HMI.

**2 Programming Editor**  
Where you develop logic in Ladder Diagram (LD), Instruction List (IL), Sequential Function Chart (SFC) or Structured Text (ST).

**3 Motion Editor**  
Where you develop motion control programs.

**4 Navigator**  
Is a tabbed window that shows information about your development system, projects, tools.

**5 Inspector**  
Lists all properties and current settings for a selected object or element.

**6 Companion**  
Provides information on elements when you click on them.

**7 Infoviewer**  
A wealth of information. This context sensitive help system is loaded with useful information and works like a web browser.

**8 Feedback Zone**  
Is an interactive window used to display several types of output information such as builds, imports, download status.

**9 Data Watch**  
Is a debugging tool that lets you monitor the values of variables.

**10 Toolchest**  
Is a powerful object library used to store models for previously created objects such as HMI screens, Motion blocks or Ladder Logic. These objects can then be re-used by linking them in other projects or targets.

## View

View is a machine level HMI to visualize your process and control devices. It supports communication protocols from all the major PLC's and includes OPC client and server drivers. From anywhere, with full security flexibility, you can view and control your plant using a standard Web browser. Powerful graphics, alarming, trending, data analysis, and scripts are only a few of the development tools included in View. You can store and re-use objects you create, including panels, script, and alarm groups. To speed development time even more, View features a common database shared with other Machine Edition components, eliminating tedious variable searches and re-keying.



## Motion Developer

With Motion Developer, you can develop motion control programs for GE Fanuc S2K series motion controllers quickly and efficiently. Supports development "Wizards" when creating your application, drag and drop motion blocks, extensive debugging and diagnostic tools.

## Manager

Manager provides centralized systems management for your automation software. It protects your HMI and control applications, PLC databases, and other files from accidental changes; increases productivity by automating repetitive tasks like backups; and simplifies compliance with regulatory agencies and quality programs by monitoring and recording key events.

## Logic Developer

Whether you work in a PLC or PC-based control environment or both, Logic Developer provides all the tools you need to develop, monitor, simulate and debug your applications. Logic developer runs seamlessly with its Machine Edition sister product, View, giving you the power of alarming, scripting, data logging, recipe management, and full Web-publishing capability.

### *Logic Developer-PC*

is the most robust and user friendly PC-based control solution on the market today. Along with unprecedented functionality, Logic Developer-PC offers you the freedom to choose from a wide variety of I/O type, programming language, application platform, and more. It also provides support for Hard Real-time PC-based control offering full security and reliability.

### *Logic Developer PLC*

offers a broad range of flexible and powerful tools to configure and program GE Fanuc's PLC's including VersaMax Nano/Micro, VersaMax, Series 90-Micro, Series 90-30 and Series 90-70™. Powerful on-line diagnostic tools help in debugging programs or diagnosing issues and problems that may have occurred with your system.

### *Logic Developer STATE*

State logic is a natural language programming environment that uses state-transition diagrams to build programs to run on certain Series 90™-30 and 90™-70 PLC's. It can be a powerful alternative to traditional control programming. Because of State's architecture and Natural Language technologies, programs are easier to debug, troubleshoot, and maintain which can significantly reduce development and debugging time.

## View

- Real-Time and historical alarm
- Powerful networking
- Full set of animation tools
- HTML based report generation
- Web enabled
- Language switch on-the-fly

## Logic Developer PC

- IEC 61131 editors\*:  
LD, IL, SFC, ST
- Proven Real-Time Engine
- Multi-platform support
- Hard Real Time Support

## Logic Developer PLC

- IEC 61131 editors\*:  
LD, IL, SFC, C-Blocks
- All major field buses supported
- Data monitoring even if PLC-logic is not equal

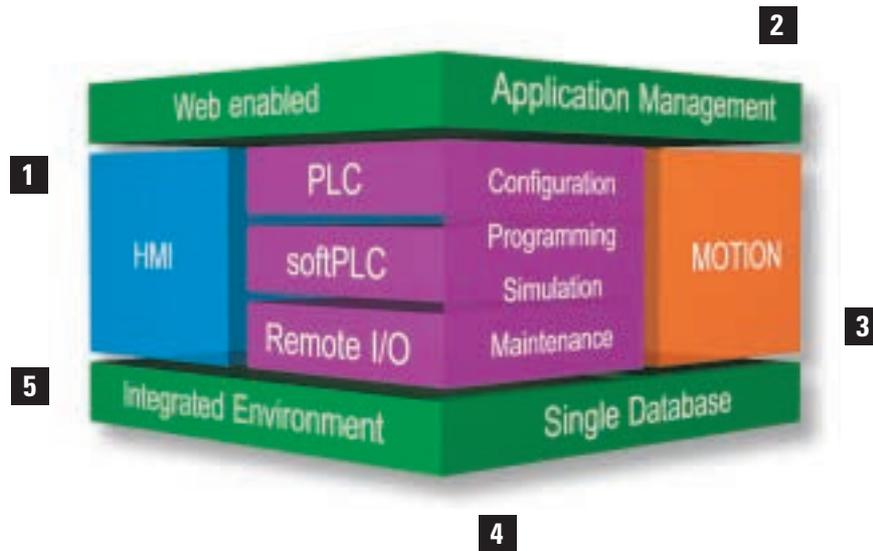
## Motion Developer

- Application wizards
- Graphical CAM Programming
- Drag & drop motion blocks
- Histogram function (torque, velocity, etc)
- Motion Oscilloscope

\* Ladder Diagram (LD); Instruction List (IL); Sequential Function Chart (SFC); Structured Text (ST)

# One Single Software for HMI, Control and Motion

Machine Edition is a suite of Machine Level software components used to develop HMI, Control and Motion applications within a single unified working environment. CIMPLICITY Machine Edition provides an integrated development environment with a common user interface with a drag-and-drop workspace that makes developing applications simple.



## 1 Design Full-Featured Machine-Level Graphics.

View is a machine level HMI allowing you to visualize your process and control devices. It supports communication protocols from all the major PLCs and includes OPC client and server drivers. It also lets you publish your data and graphical panels over the web to a standard web browser.

## 3 Save Time through Tight Integration.

In addition to sharing common editing tools, all CIMPLICITY Machine Edition components – View, Logic Developer, and Motion Developer – share a common database and common objects, including logic, scripts, graphical panels, and data structures, across applications.

## 2 Build Your Application on Industry Standards.

Combining the best of traditional programming and graphics applications with such powerful open industry-standard technologies as COM/DCOM, ActiveX, and OPC, CIMPLICITY Machine Edition provides a painless migration path to the latest development tools.

## 4 Work in both PLC and PC Control Environments.

Whether you work in a PLC or PC-based control environment or both, Logic Developer provides all the tools you need to develop, monitor, and debug your applications. In addition, Logic Developer provides full scalability from Windows® CE to Windows® NT/2000 as well as across the wide spectrum of GE Fanuc PLCs.

## 5 Develop Motion Control Programs Quickly.

With Motion Developer, you can develop motion control programs for GE Fanuc S2K series motion controllers quickly and efficiently.

## Applications

CIMPLICITY Machine Edition can be used for numerous applications with any combination of HMI, Control or Motion.

For example:

- Assembly
- Building Automation
- Conveying
- Dispensing
- Electrical distribution
- Filling lines
- Folding
- Glass recycling
- Labeling
- Laminating
- Lumber
- Machine Tools
- Material handling
- Milk cartoning
- Oil and Gas
- Packaging lines
- Pharmaceutical
- Pipeline transmission
- Power Generation
- Printing press
- Process Control
- Safety and Security
- Semiconductor
- Waste water treatment
- Winding
- Woodworking
- Wrapping

GE Fanuc can provide a single source for a wide range of products or complete integrated solutions of any complexity from small stand-alone systems to full enterprise-wide networks. The 'Open Approach' of the products gives users the flexibility they need for their applications. Our range of services and solutions are tailored specifically to meet the needs of all our customers – whether they are System integrators, Distributors, OEM's or End User.

## Ordering Information

Each of the components of Machine Edition can exist in any combination, or by itself. Components can easily be added at any time. Each component is tightly integrated with each other; drag-and-drop, single database, Toolchest storage and retrieval are all standard features of each of the machine edition products.

Machine Edition development software can be installed on Windows 98, ME, NT4.0 or 2000. View and Logic PC Runtimes are executed under either Windows NT, 2000, Embedded NT or CE.

## CIMPLICITY Machine Edition Components:

**View** An HMI specifically designed for machine level applications

- Development and Runtime versions for Windows CE and Windows NT/2000.
- Available in a range of sizes from 75 to 8000 I/O points.

**Logic -PC** PC-based control software combining ease of use and functionality for fast application development.

- Development and Runtime versions for Windows CE, Windows NT/2000, Embedded NT, and Hard Real-Time NT.
- Available in a range of sizes from 75 to 8000 I/O points.

**Logic Developer-PLC** programs and configures GE Fanuc PLCs and Remote I/O.

- Nano/Micro Edition (supports VersaMax Nano/Micro, Series 90-Micro).
- Standard Edition (supports VersaMax Nano/Micro, VersaMax, Series 90-Micro, Series 90-30).
- Professional Edition (supports VersaMax Nano/Micro, VersaMax, Series 90-Micro, Series 90-30, Series 90-70).

**Logic Developer-State** programs GE Fanuc PLC's using an alternative, natural language programming environment with state-transition diagrams.

**Motion Developer** programs and configures GE Fanuc S2K motion controllers.

**Manager** provides centralised systems management for your automation software.

**Combinations of View, Motion and Logic Developer are possible**



## GE Fanuc Automation

For the location of your nearest GE Fanuc sales representative or authorized distributor contact:

*GE Fanuc Automation Information Centers*  
*USA & Canada (1) 800 648-2001*  
*Europe, Middle East,*  
*CIS & Africa (352) 727979-1*  
*Asia Pacific (65) 566-4918*  
*Mexico (1) 800 989-1244*

© Copyright 2001 GE Fanuc Automation Europe S.A.  
*VersaMax, VersaPro, LogicMaster and Series 90 are trademarks of GE Fanuc Automation North America, Inc. Windows and Windows NT are registered trademarks of Microsoft Corporation. All other trademarks and registered trademarks are the property of their respective owners.*