



# ***Supervisor***

*The easy way to sophisticated supervisory control*



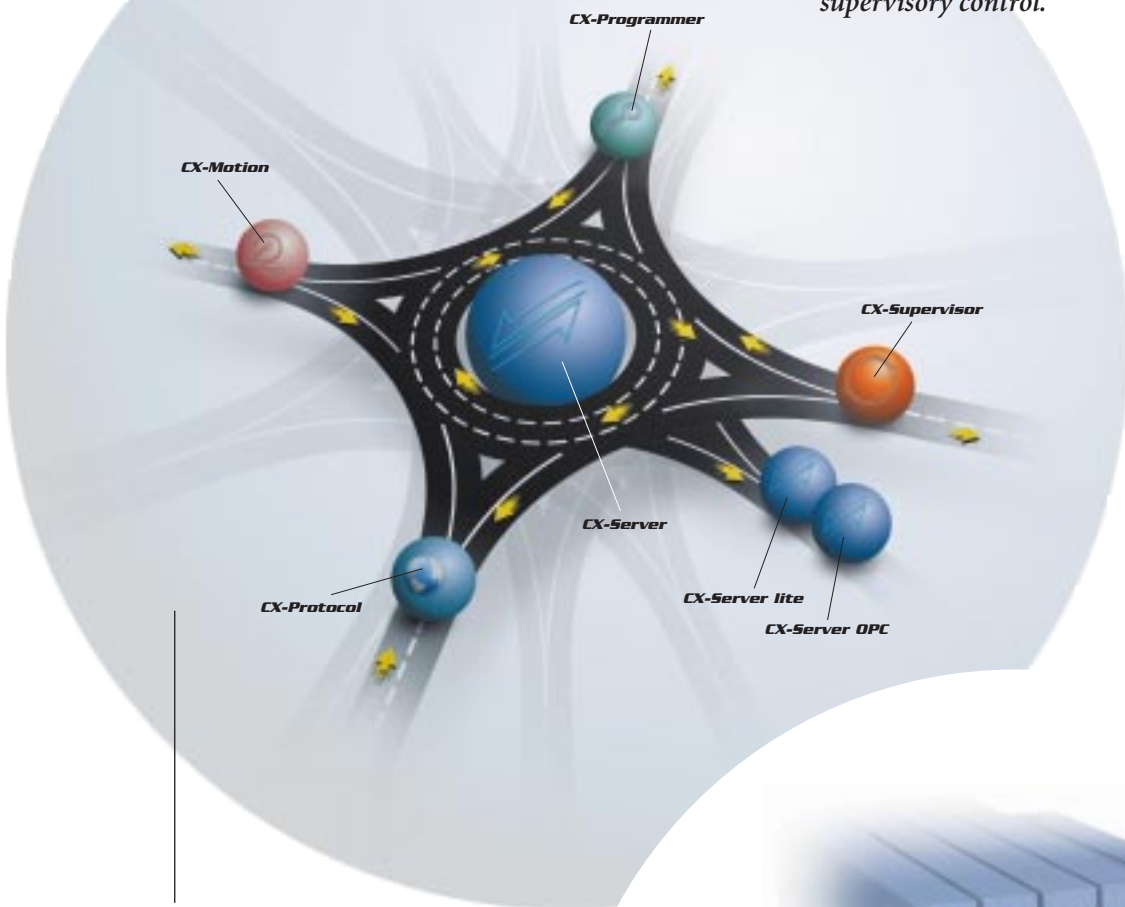
## Adaptivity

On the road ahead, into the Third Millennium, manufacturing industries will be challenged by a growing global economy. In order to survive, grow and compete, manufacturers must be able to adapt their production processes to changing market conditions more rapidly than ever before.

Omron has developed a software suite that will enable manufacturers to meet this challenge. The Omron CX Automation Suite has been designed to dynamically evolve and accommodate any implementation, improvement, adaptation or extension to any kind of control or data acquisition within the manufacturing industry. The CX Automation Suite offers the one requirement that is needed to constantly optimise manufacturing processes. We call it Adaptivity.

## CX-Supervisor

CX-Supervisor is the module of the CX Automation Suite that enables the development and execution of applications for visualisation and supervisory control.



## 'Adaptivity':

The intrinsic ability of systems to adapt rapidly to change.





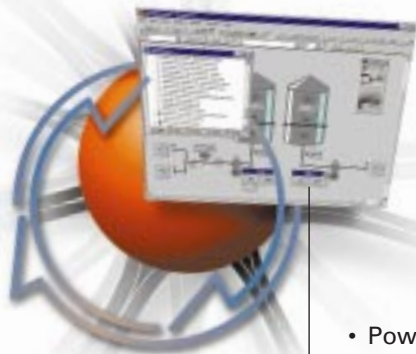
## Providing effortless access to the most complex applications

CX-Supervisor is dedicated to designing and operating the supervision and control of single machines as well as entire manufacturing processes. At the same time, the module is extremely user-friendly.

Thanks to its simplicity, CX-Supervisor is not only favoured by novice programmers. Seasoned system developers also prefer CX-Supervisor because it enables them to work fast and allows them to concentrate on the more critical aspects of applications.

## Power at your convenience

CX-Supervisor has been designed and developed with the application of COM/DCOM, OLE, ActiveX, OPC and ADO. This has resulted in a software package that serves system developers with the most advanced technologies in the easiest applicable form. CX-Supervisor is not only simple to use for small supervisory and control tasks, it also offers a wealth of power for the design of the most sophisticated applications. You want to know more about CX-Supervisor? Please contact the nearest Omron representative.



- Powerful and easy-to-use 32 bit development environment
- Comprehensive support for Omron PLCs and temperature controllers
- Powerful script language
- Connectivity to other Windows applications using OLE or DDE
- Alarm management system
- Recipe handling system
- Extensive data logging and viewing capabilities
- Report generation (including HTML)
- Extensive symbol library. A library of over 3000 symbols is available to make your application look as real or sophisticated as you like
- ADO/ODBC support for reading from and logging data to any database supporting ActiveX Database objects
- OPC Data access V2 client. Data from any OPC server can be read into CX-Supervisor
- ActiveX container. CX-Supervisor is a full ActiveX container allowing you to use ActiveX controls within CX-Supervisor. In this way specific functionality can be added in.

**Minimum PC requirements:** MS Windows 95/98/NT4.0/2000, Pentium100, 32Mb RAM, 30Mb hard disk space, 640x480 VGA Display.

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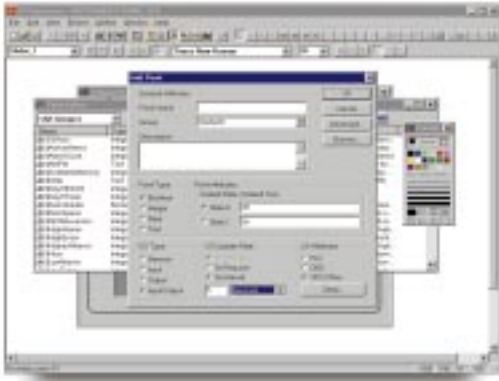
## Simple and fast

*This is a good example of how easy it is to build sophisticated graphic interfaces with CX-Supervisor.*

Building clear, sophisticated graphic interfaces in CX-Supervisor is a simple task that is done in a flash. Graphic interface components such as the trend graph, gauge and sliders are available as buttons on the Graphics Toolbar at the top of the screen. They can be dimensioned and coloured as easy as Microsoft Paint graphs. They are added to the instrument panel by dragging-and-dropping.

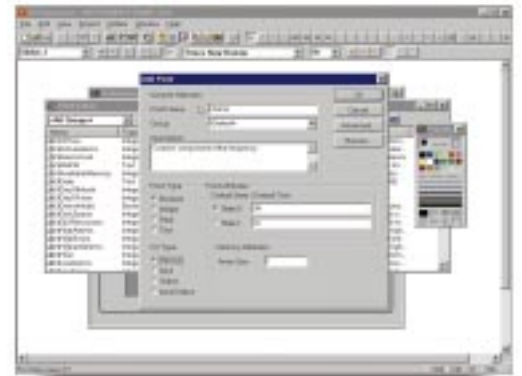


CX-Supervisor assist the user in every detail of the design process. Points are added by using the Add Point dialogue box. This dialogue box contains all selections that need to be made.



An Attribute is introduced as a point by giving it a point Name in an Add Point dialogue box.

After setting the selections, filling out the fields and clicking OK, one of the sliders is name-tagged Coarse and has a scale ranging from 0 to 1000. In a new Add Point box the other slider is added as a new point under the name 'Fine'.



CX-Supervisor allows you to animate changing values in graphic display panels with the same ease. The Animation Editor is specifically built to keep it simple. Just select the required runtime action from a list and enter the names of the Coarse and Fine sliders in the Expression field. When one of the slider is moved, the Trend Graph readout is immediately updated with the new value.



The Gauge Wizard dialogue box is invoked by double-clicking the gauge graphic. By simply changing names and numbers all parameters required for this gauge are entered. Wizards assist you in setting values of graphic interfaces.

CX-Supervisor is also very helpful in keeping track of the developed application. The various parts of the application are brought into view page by page in Explorer-style windows. This enables the system designer to obtain an overall picture and to roll out and access every detail of his application.



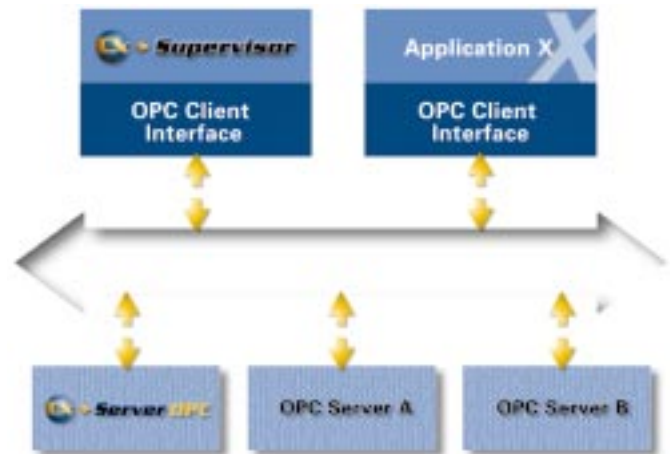
## Dedicated editors

CX-Supervisor offers the ease of dedicated editors. The Windows-style screen layout has been utilised to fully respond to intuition. Helpful dialogue boxes enable you to work fast and with precision. You can switch between editors as you go, which allows you to detail your program in any direction that comes to mind.

- ➔ **The Page Editor** shows the existing pages of the application and enables you to open and set up new pages.
- ➔ **The Point Editor** lists all the points that can be addressed in the application. They are conveniently imported from PLC programs that were developed with the CX-Programmer package.
- ➔ **The Alarm Editor** allows you to set, process and visualise alarm conditions.
- ➔ **The Recipe Editor** gives user control over the several production modes in which processes can be set. The Recipe Editor facilitates the programming of this aspect of the application.
- ➔ **The Animation Editor** brings movement into the graphic interface. It serves the system designer with an abundant choice to visualise changing process parameters.
- ➔ **The Script Editor** is an important part, as it is used to program scripts that makes the application function the way you want. Therefore CX-Supervisor has a powerful scripting language. Are you more familiar with Visual Basic or Java? The use of VBScript and JScript inside CX-Supervisor is also supported.

## CX-Supervisor as OPC client

CX-Supervisor supports OPC client data access V2, which allows it to connect to OPC servers to read data from other sources than Omron PLC's. In this way CX-Supervisor can be used as part of a complete factory information system as an OPC client.



## CX-Supervisor 1.0 Products

Product	Description
Development package	To develop applications. Includes a runtime for testing with copy protection.
Runtime package with software token protection	To run your application. A Software token enables your application to run. A Software token is also available separately.
Runtime package with hardware token protection	To run your application. A hardware token attached to the parallel port enables your application to run. A single hardware token is also available separately.
Demo package	Demonstration and evaluation package. Communication limited to 20 points (no arrays) and 1 hour.



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