

We present you the future



Renew the concept of visualization with the latest generation of Scada/HMI platforms.

® **Movicon** **X**
EVOLUTION. **TEN**

INDUSTRIAL AUTOMATION SOFTWARE

progea 

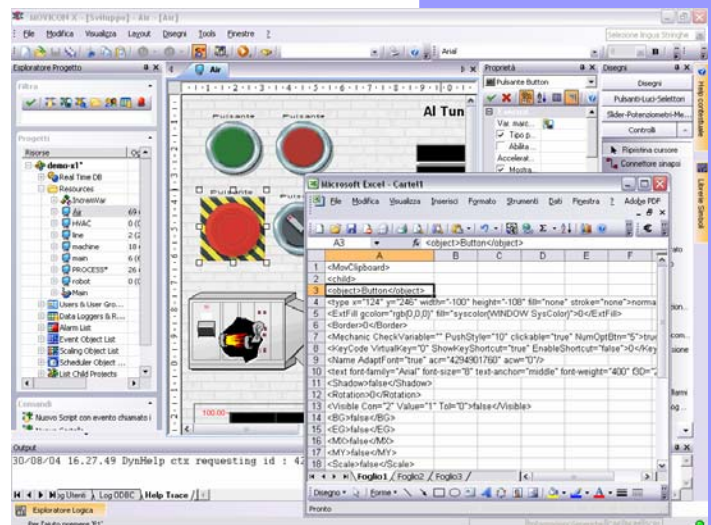
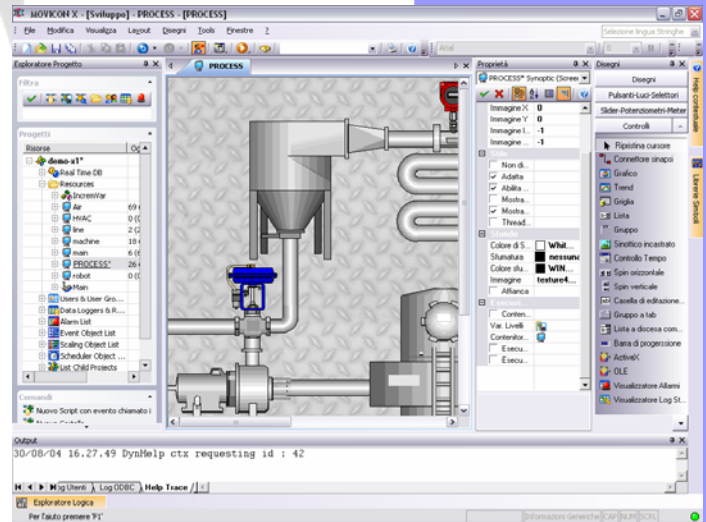
Present in your future.

Movicon X represents the innovative and revolutionary third generation of supervision and control industrial software platforms (Scada/HMI). For over 12 years, Movicon has been a reference point in automation software technology, always sustaining the concepts of simplicity, scalability, potentiality and openness. Today, Movicon X, version 10, renews the concept of supervision by anticipating the future of automation with advanced technology. By maintaining and extending its scalability, Movicon X today presents itself on the market

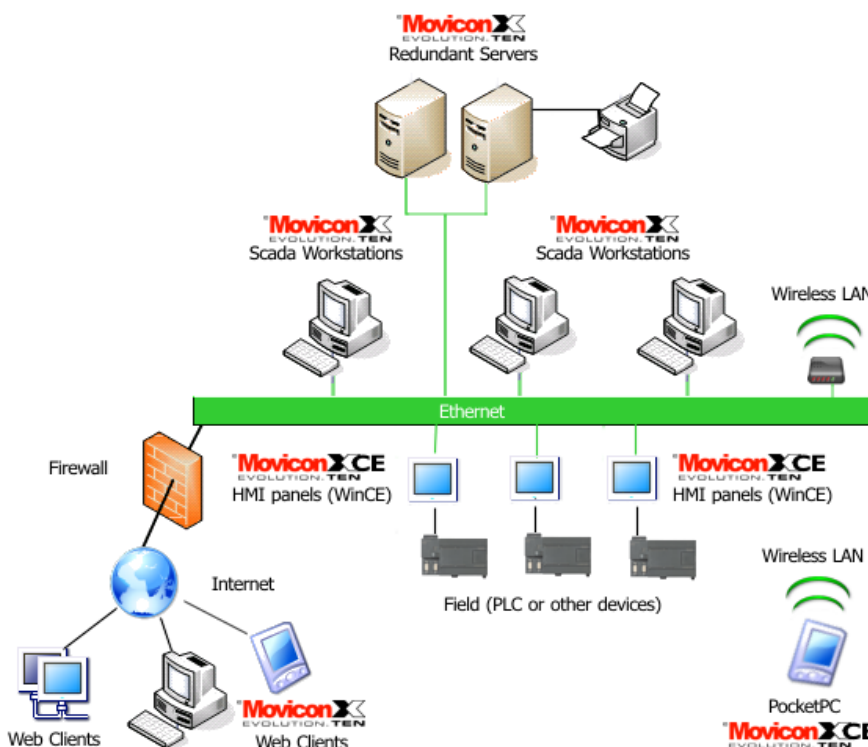
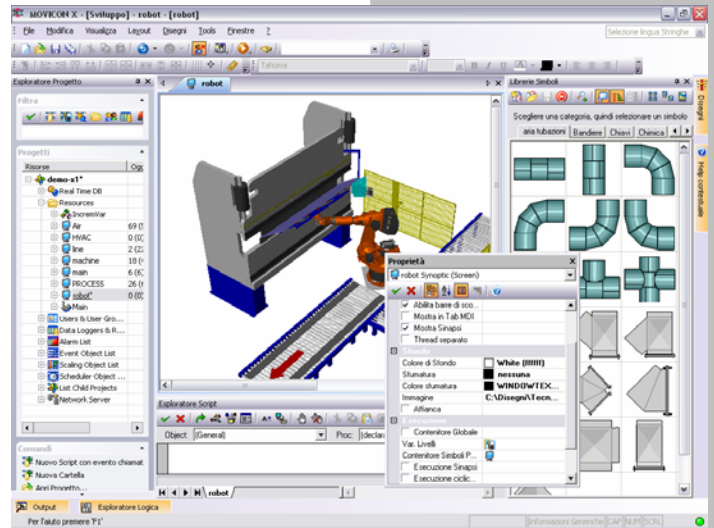
as the standard software platform for all those operating in the industrial automation sector, remote control and in building automation, as the only Scada/HMI software for all types of use and with all types of hardware. Movicon can, in fact, be used with operator micro terminals and/or mobile devices based on WinCE, both on Personal Computer in big plants with redundant client/server architecture, in connection with all types of PLC and industrial networks or fieldbus.

Basic concepts:

- **Simplicity.** Movicon X is a lot easier and more instinctive than any other product, thanks to the innovative workspace and the integrated tools such as auto-configuration and Tags import. With Movicon X, designing becomes a pleasure when you get next-to-no-time great visual impact with a drastic reduction in development times.
- **Scalability.** Movicon X offers a single software platform, from Windows CE to Windows XP. Thanks to this feature, you only need an one-only Company software, for micro-applications on HMI terminal as well as for medium-large applications typical of process plants.
- **Openness.** Movicon X is entirely based on XML. The projects are simple XML files, and can therefore be opened and edited using other editors. The platform has always been open for integration and customization with the world of Windows applications. The projects can be grouped into project structures and distributed.
- **Security.** Movicon X guarantees maximum safety of data. The projects, although based on XML, can be encrypted with the 128 bit encryption algorithm. The FDA CFR21 Part 11 standard is completely integrated in the platform, making it extremely easy to create applications to be submitted for FDA validation. The renewed Password Users management guarantees safe access by level and/or area.
- **Standards.** Movicon X is entirely based on standard technology to safeguard your investment. The XML, ODBC, OPC, VBA, SOAP, Web Services, TCP-IP, UDP, http, SQL technologies are integrated in the platform to guarantee easy access and transparency of data.



- **Performances.** Movicon X increases the absolute performance of its kernel by 300%, as compared to the already hi-velocity earlier version. This is thanks to a renewed concept and total application of the "exception-based" technology and the new graphic motor based on SVG (Scalable Vectorial Graphics). The VBA new logic motor has also increased its performances twofold.
- **Connectivity.** Movicon X introduces a new generation of communication drivers. The new drivers include functions such as the automatic importing of Tags, remote connectivity via modem, the multi-station concept for point-point protocols, the bridging concept for remote service on PLC, immediate testing of cables. The drivers guarantee complete configurability and the possibility of communicating on event in customized mode also by using the VBA logics. Apart from the free drivers library included, Movicon X offers complete connectivity via OPC, offering a preview of the new OPC XML DA technology, in addition to maintaining and consolidating the OPC DA Server and Client communication based on DCOM technology
- **Efficient Networking.** Movicon X has completely renewed the integrated networking management. The sophisticated technology adopted, without compromise, increases efficiency and performances due to the use of emerging and multiplatform technologies such as SOAP (Simple Object Access Protocol) and SOA (Service Oriented Application). The new version also supports, in addition to TCP, protocols such as UDP and HTTP. The networking automatically supports remote connections via RAS. Movicon X also introduces the Web Services technology, due to which the distribution of information can finally support public networks (Internet) guaranteeing safety due to the "firewall-friendly" technology adopted.
- **Web-enabled Architecture.** Movicon X renews the Web Client technology. Thanks to the JAVA technology that integrates perfectly with XML, SVG, Web Services, the new architecture allows server access by means of internet browsers on any platform (Windows, Linux, Palm and Javaphones mobile phones due to J2ME). Multiusers, bidirectionality, performance and security are guaranteed.



Save time in developing.

Movicon X is based on innovative concepts. The hard work of the Progea Research and Development dept., together with the vast experience in supervision software has made it possible to reach the highest levels of quality

and technology currently available in software for industrial automation.

The aim of providing a single platform as company standard has been achieved with Movicon X, where ideas and innovations form a solid technological bases.

The Workspace

The screenshot shows the Movicon X workspace with several callout boxes:

- Project Window.** All the project resources can be accessed clearly and intuitively.
- Edit area** screen graphics.
- Properties Window.** All the properties of the object or resource selected are grouped clear and simple-to-use way.
- Logics Explorer Window.** The VBA scripts or the IL Logic code are always available, in accordance with the resource selected.
- Toolbox Area.** The Toolbox allows rapid access to the objects and symbols libraries.
- Commands Window.** The commands and functions that can be inserted in the project, based on the resource selected.

Why Movicon X dramatically reduces development time.

Time development reduction is the main objective of any Company using Scada/HMI systems. This is why Movicon X provides all the tools necessary for safeguarding its time and work.

- Wizards to auto-build the projects. Time saved due to the auto-configuration tools.
- Projects based on XML. Every element, object or resource of the project can be copied or dragged into other editors (Excel, editors XML or others)
- Object Programming using a single class of vectorial graphic objects (with SVG technology)
- Automatic importing of Tags from the PLC databases.
- Symbols Libraries, Power Templates and direct I/O drivers library included
- Powerful Debug functions to carry out analysis, simulation and project test runs.
- One-only environment to develop applications from WinXP to WinCE.

Solutions without having to compromise.

Movicon X revolutionizes the concepts of industrial supervision, by introducing extremely innovative and modern technologies for automation systems. In addition to tools for rapidly creating powerful display and control applications, Movicon X introduces the latest techniques to allow your applications to integrate easily with the entire world, whether it is by distributing information to business management information systems (ERP), or distributing information to local or remote Clients via web. Your plant will be

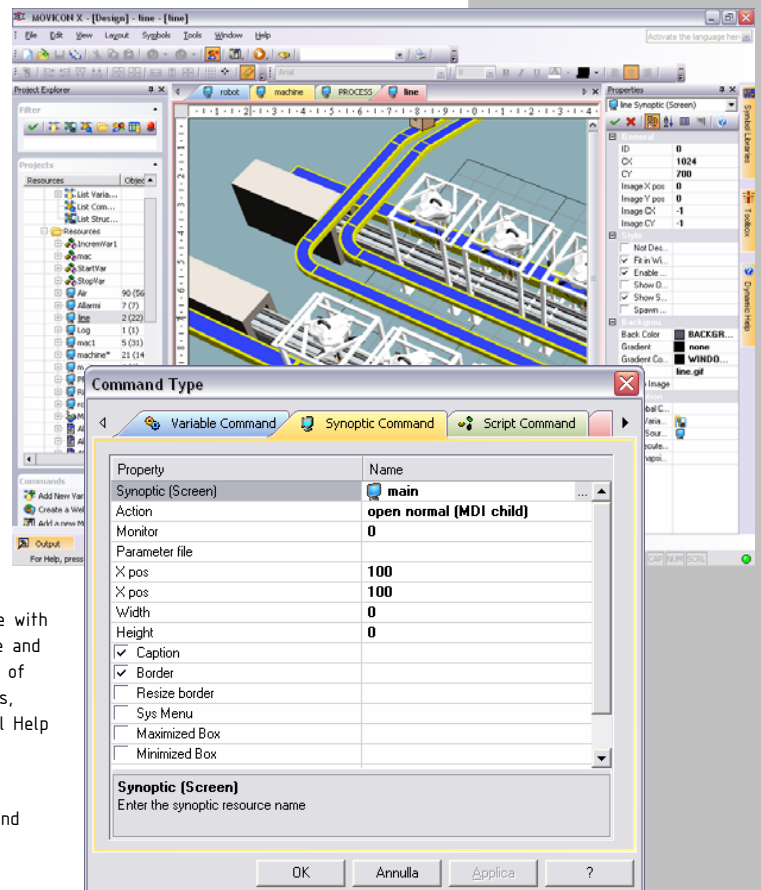
safely accessible from any part of the world and with any platform.

With Movicon X you can actually and finally talk of "Web-enabled" automation.

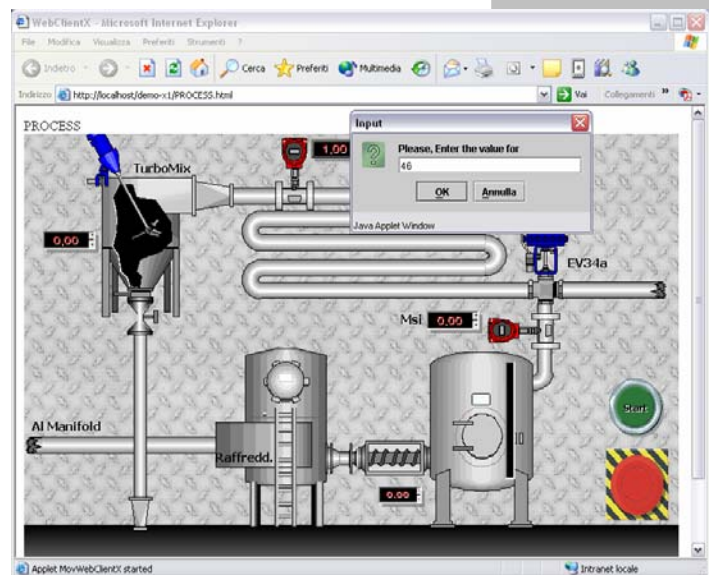
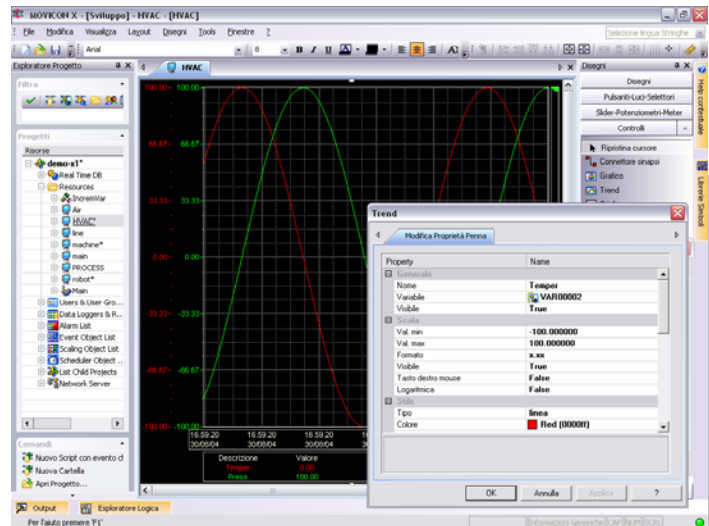
With Movicon X it is possible to realize any supervision application, from the simplest to the most complex, without having to risk comprising between the functions you require and those available in the product being used.

Functional features.

1. Tags Database open and working. Complete traceability and accuracy of information. Scaling values, integrated events and commands during management on Tags, Traceability, Access Levels, Real-time ODBC links, XML-links. Management of "Structure" type Tags. Direct import from PLC database. Automatic, integrated management of remote connections via modem (RAS and TAPI).
2. Graphics and Objects library with "captivating" looks and completely customizable. Simple and powerful commands and graphic animation functions. Symbols with Power Templates technology. Graphic symbols totally customizable using VBA code.
3. Screens based on vectorial graphics SVG (Scalable Vectorial Graphics) with powerful graphic functions. Complete customization of screen with multi-monitor support. Supports WMF, EMF, BMP, GIF and JPG graphics. Graphics self-adaptable to screen resolution, which also renders effectively to bitmap images.
4. Vectorial graphics editing function, with powerful design and layout tools. Objects with effective support of concept of "heredity".
5. Menu and Keys Editor (accelerators) with objects. Completely integrated Touch-screen management functions.
6. Alarms Management complete and in compliance with ISA standards. Alarms completely customizable and with up to a millisecond precision. Management of occurrence time-stamp, thresholds on variables, Alarms Power Templates management. External Help also on HTML.
7. Integrated Alarms and events notification management. Supports SMS, Email, Speeching and Fax. Management of phone calls with complete configurability of personnel available.
8. Historic Events Management with open archives based on relational database (ODBC). Statistical analysis of alarms, filters and SQL queries. Printouts Management.
9. Multiple-Language Management with online language change. Strings management with dynamic switch both in programming and in runtime mode. Unicode Support for any type of language (Asian, Arabic, etc.).
10. ODBC Historic Management on Data Loggers with objects management. Powerful, safe automatic management of ODBC connections for archives based on relational DB.



11. Dynamic and Historic vectorial Trends with powerful sampling, display and analysis functions. Historic logs based on Data Logger ODBC with period analysis, zoom, averages, logarithmic scales and open to all kinds of customization. Sampling also with output on .CSV files (e.g. Excel).
12. Automatic Recipe Management based on relational DB. The recipes are auto-configurable and automatically filed on DB with a few mouse clicks with the possibility of user interface (customizable).
13. Powerful, flexible Report Management thanks to integration of the Crystal Report v.10 report engine. Self-generation of front-ends of reports with customizable print formatting. Support to the most common formulae (sums, totals, averages, variance, etc.).
14. Events Schedulers integrated and with objects.
15. Unmatched security management. Users and passwords with access to commands based on level and/or area. Automatic control function of accessing the operating system. Users Password can be shared with the operating system domain. Complete support to FDA CFR21 Part 11 standard. Simple realization of FDA validable applications.
16. Complete and powerful Redundancy Management (Hot Backup).
17. Powerful Networking Management. Supports TCP-IP, UDP and HTTP protocols. Notification of statuses managed by events and with optimized network management. Architecture completely distributable and multi-server, with securities that can be set directly in the project properties.
18. Extremely efficient connectivity by means of the I/O drivers included in the system. Integrated OPC DA and OPC XMLDA technology both as Client as well as Server. Certified OPC DA compatibility.
19. Integrated VBA multithreading language. Extremely open to customization.
20. Integrated PLC type language in Instructions List (AWL). Thanks to Windows CE real-time, the PLC language makes it possible to realize SoftPLC logics within HMI.
21. "Synapses" Visual Language" (graphic Function Blocks).
22. Powerful on-line debugger. Analysis, forcing of variables, project statistics, break-point and step-to-step execution of logics and other powerful functions for project test runs and documentation.
23. Integrated innovative Web Client technology. The new Web Client is based on the currently web-enabled Java technology to guarantee openness and multi-platform, thereby maintaining performance, security and bidirectionality. Access to data from the client stations also based on Javaphones mobile phones (J2ME).
24. Support to standard technologies such as XML, ActiveX, ODBC, OPC, VBA, SQL, ADO, SOAP, Web Services.
25. Great freedom of integration of third party applications, as .EXE as well as DLL. Possibility of SDK for realization of customized drivers.



Movicon X offers a single development program for all types of applications. Application runtime can be executed on all types of industrial platforms, both for Server stations based on PC Windows XP or Windows 2003 Server, as well as HMI stations based on Panel PC with WinXPE, for micro terminals or mobile

devices based on Windows CE or Client stations based on Windows, Linux, Palm, JavaPhones. Flexibility signifies interfacing with all types of industrial device, PLC, fieldbus or tool, independently of the manufacturer's brand thanks to the direct and indirect drivers.

The advantages of having scalability.

It is becoming increasingly necessary today to provide flexible, scalable tools that can adapt to application requirements.

The integration of heterogeneous devices has always been difficult to achieve. This is why Progea has designed Movicon X, with the aim of providing a single ambient for all automation application requirements.

The advantages of standards

Movicon X is entirely based on standard technologies that are open and innovative. The XML standard is the central nucleus of the new Movicon kernel. Thanks to XML, the projects considerably increase performances and open new horizons in automation, that have only been hypothesised until now. The ODBC technology is completely integrated with totally renewed solutions, capable of guaranteeing open historic archives as well as transparency of operations, without affecting performances.

Openness is also guaranteed by supporting ActiveX technology, without external objects affecting the reliability of the system. VBA, ADO and SQL offer maximum openness to any type of customization, maintaining the standards and protecting the Company know-how. The OPC standard guarantees user connectivity. Movicon is certified by the OPC Foundation, of which Progea is an active member. The standard SOAP and Web Services technology guarantee conformity to the standards in information distribution.

Security and CFR21 Part 11

Movicon X introduces a new concept of safety. All the functions of the projects are protected with access levels and areas. Every Tag makes it possible to define the protection level and traceability. All the

functions used for user sharing with the Windows server domain can be managed automatically. Access to the PC can be completely protected, also in Windows CE. All the requisites of the strict FDA (Food & Drug Administration) CFR21 Part 11 standards are already implemented and ready-to-use, allowing projects to be created with absolute validity.

Mission Critical Reliability

Movicon X guarantees reliability deriving from the experience of over 12 years of Movicon technology with over 10,000 licenses worldwide.

The Mission Critical applications can also exploit the Redundancy technology, where two Movicon servers in hot backup handle safe applications between them in all circumstances. The Movicon redundancy is entirely automatic and transparent.

The Services and Support

Progea is known for service quality that accompanies its products. Apart from costs of licences, it is a well known fact that a software platform can mean heavy costs for the user unless it is properly supported. The Progea Training, Assistance and Consultancy services guarantee the user the possibility of satisfying every expected or unexpected application requirement, contributing to reducing implementation and internal development costs.

This brand's international presence is guaranteed with over 25 Movicon distributors worldwide.

Please contact the Progea office for further information or to get the free evaluation CD ROM. Our staff are at your disposal to give you detailed demonstrations.

Requirements:

Development:	Windows XP, Windows 2000, Windows 2003 Server. Minimum Pentium II 400 Mhz, 256 MB RAM. Recommended at least Pentium III 1.2 GHz 512 MB RAM
Runtime Desktop	Windows XP, Windows 2000, Windows 2003 Server, Windows Terminal Server, WinXP Embedded*, Windows Tablet Edition* Minimum Pentium II 400 Mhz, 256 MB RAM. Recommended at least Pentium III 1.2 GHz 512 MB RAM Anyway the requirements depends from the application project.
Runtime CE	Windows CE* 4.0 or higher (CE 4.1, 4.2, 5.0 CE.Net) Minimum Cpu 200 MHz, 16 MB RAM, 16 MB Flash. Anyway the requirements it depends from the application project.
Web Clients	Supports different types of processors. Update list on www.progea.com . All operating systems - Windows, Linux, Palm, PocketPC, J2ME. The requirements depends from the application project.

* check compatibility of devices



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